



The City of Bruceville-Eddy Rising into the Future

144 Wilcox Drive
Eddy, Texas 76524

www.bruceville-eddy.us

Phone: (254) 859-5964
Fax: (254) 859-5779

**Regular City Council Meeting
May 23, 2024, 6:00 p.m.**

**Meetings are available to watch on our YouTube Channel:
Search for “The City of Bruceville-Eddy” and click the subscribe button.**

Please mute your phones and computers to avoid any interference during the meeting

1. Call to Order - Mayor Owens

- a) Greetings
- b) Invocation
- c) Pledge of Allegiance
- d) Honor the Texas flag; I pledge allegiance to thee, Texas, one state under God, one and indivisible.
- e) Roll Call

2. Community Announcements

3. Citizen Presentations

The City Council welcomes public comments at this point on items **not** specifically listed on the agenda. Speakers must sign up before the meeting begins. Speakers are limited to five (5) minutes each. The Council cannot respond to matters not listed on the agenda until a future meeting.

4. Preliminary Plat – 1011 Park Lake Drive

Council to discuss, consider, and possibly take action on a preliminary plat submission for property owned by Ioan and Tabitha Hara being three tracts of land, 0.23 acres, 11.39 acres, and 0.15 acres respectfully out of the J.O. Green Survey, and including lots 23, 27, and 28 of the Shady Shores Estates Addition; generally located at 1011 Park Lake Drive Eddy, Texas 76524

Furthermore, Council to discuss, consider, and possibly take action on a request by owners for a variance to Subdivision Ordinance Section 8.03 (j) requiring the submission of a complete topographic map.

5. Franchise Agreement – Atmos Energy, INC.

Council to discuss, consider, and possibly take action on ordinance 5-23-2024-2, granting a franchise to Atmos Energy Corporation, Mid-Tex Division, to construct, maintain, and operate pipelines and equipment in the City of Bruceville-Eddy, Texas.

6. Final Plat and Construction Plans – CEFCO #0047

Council to discuss, consider, and possibly take action on the final plat and construction plan submission for CEFCO #0047, property owned by Fikes Wholesale, LLC; Raymond W. Smith, President; being three tracts of land, 1.656 acres, 10.124 acres, and 7.681 acres respectfully out of the Levi Prewitt Survey, Abstract No. 723; generally located at 20102 S IH 35 Eddy, Texas 76524 in between Eagle Drive and I-35.



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7. **Police Chief's Report – Chief Michael Dorsey**
8. **Public Works Director's Report – Gene Sprouse**
9. **Engineering Reports**
10. **City Administrator's Report – Kent Manton**

11. Consent Agenda

All items listed on the consent agenda will be considered by the City Council and will be enacted on by one motion. There will be no separate discussion of these items unless a Councilmember or a member of the public so requests.

A. Approval of Minutes

Council to discuss, consider, and possibly take action to approve the minutes from the April 25, 2024 Regular Meeting.

B. Finances – April 2024

- i) Council to discuss, consider, and possibly take action on the April 2024 financial reports for the general, water, and sewer fund accounts.
- ii) Council to discuss, consider, and possibly take action on the April 2024 accounts payable for the general, water, and sewer fund accounts.

C. Donation Acceptance

Council to discuss, consider, and possibly take action to approve the acceptance of a \$25.00 donation to the City of Bruceville-Eddy general fund by Bethany Fellowship Church.

12. Sanitary Sewer System – Awarding Contracts

Council to discuss, consider, and possibly take action on resolution 5-23-2024-1; awarding contracts for the respective five sewer system projects contingent upon this project receiving additional funding from USDA.

13. Sanitary Sewer System – Additional Funding Requests

Council to discuss, consider, and possibly take action on resolution 5-23-2024-2; formally requesting additional funding from USDA; authorizing the Mayor to sign necessary documentation associated with said request.

14. Public Hearing – Renewal of Water Meter Moratorium

Council to hear public comments pertaining to the renewal of a water meter moratorium in the portion of Falls County that is east of Interstate Highway 35 and outside the corporate limits of the City, and properties abutting Bruceville Lane in McLennan County.

The public hearing is open to any interested persons with opinions, objections, and/or comments related to this matter. Comments related to this matter may only be expressed via mail, e-mail or, by appearing in person. Another person or attorney may also represent you.



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15. Renewal of Water Meter Moratorium

Council to discuss, consider, and possibly take action on ordinance 5-23-2024-1, renewing a development moratorium in the portion of Falls County that is east of Interstate Highway 35 and outside the corporate limits of the City, and properties abutting Bruceville Lane in McLennan County.

16. Property Line Challenge

Council to discuss, consider, and possibly take action to take necessary steps to resolve a property line challenge with the landowner of 130 Crescent Creek Lane Bruceville, Texas 76630.

17. Texas Rural Water Association Membership

At the recommendation of the Infrastructure Planning Committee, Council to discuss, consider, and possibly take action on joining Texas Rural Water Association for the primary purpose of obtaining affordable technical assistance for rate analyses and leak detection services.

18. Employee Health Insurance Plan Selection

Council to discuss, consider, and possibly take action on a renewal and/or change(s) to employee health insurance plan coverage through TX Health Benefits Pool.

19. McLennan County 9-1-1 Emergency Assistance District: Manager Election

Council to discuss, consider, and possibly take action to cast a vote for selection of Seat Two on the Board of Managers, McLennan County 9-1-1 Emergency Assistance District.

20. McLennan County Rural Transit District Board of Directors: Nominees

Council to discuss, consider, and possibly take action on resolution 5-23-2024-1, selecting a nominee of the governing body for the Place 5 Director (Precinct 1 Region) of the McLennan County Rural Transit District Board of Directors.

21. Adjournment

For the safety of citizens, council members, and staff, upon adjourning of the city council meeting, citizens/visitors are asked to exit the building through the front entrance to City Hall immediately. Any bags, backpacks, purses, etc., that are being brought into the council meeting room are subject to security screening. Anyone (citizens, visitors) attending a city council meeting will be subjected to a metal detector screening before entering the council meeting room.

All items on the agenda are for discussion and/or action. The City Council reserves the right to adjourn into executive session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Texas Government Code Sections 551.071 (Consultation with Attorney), 551.072 (Deliberations about Real Property), 551.073 (Deliberations about Gifts and Donations), 551.074 (Personnel Matters), 551.076 (Deliberations about Security Devices,) and 551.086 (Economic Development). The city is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal access to communications will be provided to those who provide notice to the City Administrator at least 48 hours in advance. Please contact the City Administrator at (254) 859-5700 or fax at (254) 859-5779 for information or assistance.



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I, the undersigned authority, do hereby certify that the above Notice of Meeting of the governing body of the above named City of Bruceville-Eddy is a true and correct copy of said Notice and that I posted a true and correct copy of said Notice on the official notice case, at City Hall in the City of Bruceville-Eddy, Texas, a place convenient and readily accessible to the general public at all times, and said Notice was posted on the 15th day of May, 2024 at 8:00 pm, and remained so posted, continuously, for at least 72 hours proceeding the scheduled time of said Meeting.

Kent Manton, City Administrator
City of Bruceville-Eddy, Texas

Date:



Agenda Item # 4

Application for: Check the appropriate box.

- Preliminary/Final Plat
- Preliminary Plat
- Final Plat or Replat
- Amended Plat
- Vacating Plat
- Right-of-Way Dedication

For Office Use Only

Case No. _____
 Date Submitted 4/5/2024
 Amount Paid \$ 1520
 By [Signature]

The following information to be supplied by the **APPLICANT**:

Name Ioan Hara Company _____
 Address 1011 Park Lake Dr City Eddy State TX Zip 76524 Telephone 254-405-2235
 Fax _____ E-mail Cristianhara@yahoo.com
 Signature of Applicant [Signature] Print Name Ioan Hara Cristianhara@gmail.com

The following information to be supplied by the **AGENT, ENGINEER, or CONTACT PERSON (if different from applicant)**:

Name _____ Company _____
 Address _____ City _____ State _____ Zip _____ Telephone _____
 Fax _____ E-mail _____
 Signature of Agent/Engineer/Contact [Signature] Print Name _____

The following information to be supplied by the property **OWNER(S)**. Attach additional sheets if necessary.

Name Ioan Hara Company _____
 Address 1011 Park Lake Dr City Eddy State TX Zip 76524 Telephone 254-405-2235
 Fax _____ E-mail Cristianhara@yahoo.com

In lieu of representing this application myself as owner of the subject property, I hereby designate _____ to act in the capacity of my agent for submittal, processing, representation and/or presentation of this request. The designated agent shall be the principal contact person for responding to all requests for information and for resolving all issues of concern relative to this request.

I hereby certify that I am legally authorized to sign this application on behalf of the owner of the property, and to designate the applicant and the agent to represent the owner in this application.

I understand that it is necessary for me or my authorized agent to be present at both the Planning and Zoning Commission public hearing and at the City Council public hearing if council action is necessary.

Signature of Property Owner/Authorized Representative [Signature] Print Name Ioan Hara

Location of Request (address if applicable) 1011 Park Lake Dr Eddy TX 76524
 Area of Request (acres or sq. ft.) 1.693 acres
 Proposed Subdivision Name ~~J.O. Green Survey Ab~~
 Survey Name J.O. Green Survey Abstract No 373 Abstract No. _____
 Existing Zoning _____ Pending Zoning (if Applicable) _____
 No. of Lots 2 H.I No. of Dwelling Units _____

Proposed Development or Reason for Request New Septic System
 Please provide separate improvement survey if the property has existing improvements

Application Continued on Back

Plat Application (continued)

Case #: _____

Proposed Plat Name: _____

Is this a replat of an existing subdivision, lot or portions of lots? Yes No

If yes, please provide the following:

Subdivision Name _____ Lot _____ Block _____

Date Filed with McLennan County _____

Was this property restricted by either zoning or deed restrictions to single-family or two-family residential use at any time during the preceding five (5) years? Yes No

Please initial **each statement** to acknowledge you have **read and understand** the following statements:


HL I understand that, while the City of Bruceville-Eddy agrees to receive this plat application today, the application is not considered to be filed with the City unless and until all required documents and fees have been submitted, as noted at the bottom of this page.

HL I understand that Section 212.009 of the Texas Local Government Code requires that the City of Bruceville-Eddy shall act upon a plat within thirty (30) days after the date the plat application is filed.

HL I also understand that the City of Bruceville-Eddy Subdivision Rules and Regulations include detailed requirements for the form and content of a plat, including compliance with current zoning, and they include a requirement that engineering plans for civil improvements necessary to serve the subdivision (if any) must be approved by the city engineer before the staff, Bruceville-Eddy or City Council can approve the plat.

HL I understand the requirements for a complete application, the requirements of the subdivision ordinance, and the potential process as provided in HB 3167 if the plat does not meet regulations.

HL I understand that if my plat application is not complete or if revisions do not address deficiencies, City staff will present the plat to the Planning and Zoning Commission with a recommendation of Disapproval.



Signature of Owner or Authorized Representative

2/20/24

Date

For Office Use only

Submittal Documents (Required)

- Required plat size is 18 inches by 24 inches for 1st page and all consecutive pages, and the plat and all supporting documents must be on original mylar sepia (plastic)(rolled), and
- Must include the original signature and stamp seal of the surveyor, and
- Must include the field notes of the survey, and
- Must include the dedication of the subdivision by the owners (signatures must be followed by notary acknowledgment), and
- Must be approval by the proper city and/or county authority, and all stamp seals and signatures must be original, and blank areas of at least 3/4 inches high by 4-1/2 inches wide somewhere along the top of the plat, and at least 2-1/2 high by 4-1/2 inches wide somewhere along the bottom of the plat, are required for the placement of our recording information, and

Planning and Community Development Department

144 Wilcox Drive. • Bruceville-Eddy, TX 76524 • 254.859.5964 • 254.859.5779 fax • www.Bruceville-Eddy.us

Payment Receipt



Print

Confirmation #: PDQBF2

Date Paid: 04/05/2024 01:50:49 PM CT

Type of Payment: Walk-In

Name	Permit Number	Permit Address	Payment Amount	Processing Fee	Total Amount
IOAN HARA	PRE PLATT	1011 PARK LAKE DR	\$1,520.00	\$45.60	\$1,565.60

City or County Name: Bruceville-Eddy TX - Permits

Ticket Total: \$1,520.00

Processing Fee Total: \$45.60

Total Amount: \$1,565.60

Billing Information

First Name: IOAN
Last Name: HARA
Address Line 1: 1011 PARKLAKE DR
City: EDDY
State: Texas
Zip Code: 76524
Country: United States of America
Phone Number: 254-405-2235 *
Email Address:

Credit Card Information

Credit Card Type: Discover
Credit Card Number (last 4 digits) : 0086



Variance
CITY OF BRUCEVILLE-EDDY- ~~ZONING CHANGE~~ APPLICATION

General Zoning Change \$300.00 Conditional Use Permit \$500.00

Name(s) of Property Owner: Ioan and Tabitha Hara

Current Address: 1011 Park Lake Dr

City: Eddy State: TX Zip: 76524

Primary Phone: (254)4052235 Cell Phone: (254)4052189

Email: cristianhara@ymail.com

Name of Applicant: _____
(If different than Property Owner)

Address: 1011 Park Lake Dr

City: Eddy State: TX Zip: 76524

Primary Phone: (254)4052235 Cell Phone: (254)4052189

Email: cristianhara@ymail.com

Address/Location of property to be rezoned: 1011 Park Lake Dr Eddy, TX 76524

Legal Description: attached

Is the rezone request consistent with the Comprehensive Plan? YES NO N/A
* If no, a FLUM amendment application must be submitted.

Is there a simultaneous plat application for this property? YES NO

Total Acreage: 11.5465 Number of Lots: 3

Type of Ownership: Sole Ownership Partnership Corporation Other

Present Zoning: _____ Present Use: _____

Proposed Zoning: _____ Proposed Use: _____

Conditional Use Permit for: to move property lines so a new septic can be installed

This property was conveyed to owner by deed dated _____ and recorded in Volume _____, Page _____, Instrument Number _____ of the McLennan or Falls County Deed Records. (Attached)

Is this the first rezoning application on a unilaterally annexed tract?
 Yes (fee not required) No (submit required fee)



CITY OF BRUCEVILLE-EDDY- ZONING CHANGE APPLICATION

Requirements for all zoning change application submittals:

All zoning change application materials must be submitted by 11:00 a.m. on the intake deadline.

- Completed zoning change application (original, signed)
Application fee (cash or check, only; checks made payable to City of Bruceville-Eddy)
Description of property location (in one of the following forms)
Warranty deed (showing current ownership of the property)
Letter of request signed by property owner or applicant, including the following information:

For additional zoning change requirements, please reference Bruceville-Eddy Code of Ordinances, Chapter 14

Applicant: Iowan Hara Case #: N/A
Intake Date: 3/7/2024 Received by: Kent Manton / Jannic Rodriguez
Amount Paid: \$ 504.00 Cash/MO#/Check #: 5174 Receipt #: N/A

Payment TK2 FIW
Con. #

Payment Receipt



Print

Confirmation #: TKZF1W

Date Paid: 03/07/2024 02:16:43 PM CT

Type of Payment: Walk-In

Name	Permit Number	Permit Address	Payment Amount	Processing Fee	Total Amount
IOAN HARA	VARIENCE	1011 PARK LAKE DR	\$504.00	\$15.12	\$519.12

City or County Name: Bruceville-Eddy TX - Permits

Ticket Total: \$504.00

Processing Fee Total: \$15.12

Total Amount: \$519.12

Billing Information

First Name: IOAN
Last Name: HARA
Address Line 1: 1101 PARK LAKE DR
City: EDDY
State: Texas
Zip Code: 76524
Country: United States of America
Phone Number:
Email Address:

Credit Card Information

Credit Card Type: Visa
Credit Card Number (last 4 digits) :

1011 Park Lake Dr Variance Request

Hello to you all and thank you so much for your time!

The first reason for requesting for this variance is the most immediate which is so we can have a new septic installed. The current system is from the 1970s and is not large enough for a family of four so we have to pump often and every time it rains we have issues of back flow into the bathtub, among other things.

After finally being able to afford to get the new system, the septic installer informed us that we would need to move our property lines because he cannot legally install over the lines even though we own the other parcel and would have to get it platted. I have included the email from the septic explaining that we need over an acre for the septic system required. We are submitting to move property lines to for almost 1.7 added to the home site so we can have the septic installed.

You will see by the proposed plat that we are also adding a .15 parcel of land to the larger acreage so the land will not be landlocked. The small parcel is only 50 ft wide, which we were unaware of the 80 ft rule when we purchased this. Our immediate goal is to have a functional septic installed (it has been a hard 4 years with the current septic) but our ultimate goal or I should say dream is to the sell the house with the 1.7 acres and build a house on the larger parcel of land. The 50 ft parcel would serve as a road to the house but there would be no obstructions for emergency vehicles, it would not serve as a driveway, just as a road to get to the driveway. We could have a notarized statement stating that nothing would be built, placed or parked on this road to access the house in the back. The road would also be large enough for any emergency vehicle to pass through.

We love living in Bruceville-Eddy and truly do not want to live anywhere else. My husband is from Italy and his dream has always been to build his own home, which was not possible for him there, with all the regulations and expenses. We purchased the house we currently reside in so we could live here while starting to build our new house slowly. Life has put us behind schedule, as it so often does, although we have made steps towards building the new property by purchasing the access parcel, clearing the land (my husband does the clearing himself) and getting a water meter. If we cannot get this variance we will not be able to get a new septic installed or build the house we have been dreaming of and working toward for 4 years. I truly understand that rules are rules and I am not one to try to break or bend rules but I hope you can see that we are willing to do what is necessary to insure emergency vehicle access is not a problem, in fact two would have room to pass simultaneously.

Again Thank you so much for your time and the opportunity to present our case.

- a. The effect of the variance will not be detrimental to the public safety, health, welfare or injurious to other property Will not be detrimental to the public safety, etc
- . b. The conditions upon which the request for variances is based are unique to the subdivision under consideration and are not generally applicable to other properties. Yes
- c. Due to the specific conditions or topography of the site involved strict enforcement of these regulations would impose an undue hardship on the applicant. Yes, we are in great need of a new septic system

Fwd: Septic

CRISTIAN HARA <cristianhara@ymail.com>
To: Tabitha Hara <tabithahara17@gmail.com>

Tue, Feb 13 at 10:30 AM

Begin forwarded message:

From: Ben <ben@kmcontract.com>
Date: Feb 13, 2024 at 10:26 AM
To: CRISTIAN HARA <cristianhara@ymail.com>
Subject: RE: Septic

Cristian,

The property will need to be platted because the property that the home is located on is not big enough for the septic system, and we cannot cross property lines with any part of the septic. To install an Aerobic system, you will need a minimum of 1 acre per state regulations. Because of the type of soil that you have there is not any other cost-effective solution besides the Aerobic system.

Thanks, Ben Moberg

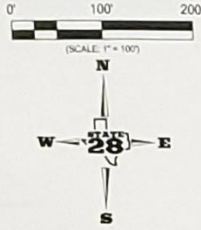
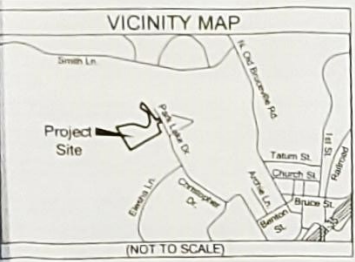
K&M Contracting LLC

P.O. Box 875

Elm Mott, TX 76640

254-292-9669

From: CRISTIAN HARA <cristianhara@ymail.com>
Sent: Monday, February 12, 2024 10:52 AM
To: Ben <ben@kmcontract.com>
Subject: Septic



FOR MCLENNAN COUNTY CLERK'S OFFICE USE

McLennan County, Texas
G.G. Newman Survey,
Abstract No. 658

Steven M. Stocum, et ux
 Called 49.11 Acres
 M.C.C.D. 2017011996
 O.P.R.M.C.T.

David Koehler, et ux
 Called 20.997 Acres
 M.C.C.D. 2012008070
 O.P.R.M.C.T.

Tract One
 David Koehler, et ux
 Called 3.142 Acres
 M.C.C.D. 2019023949
 O.P.R.M.C.T.

Joe Allen Magouirk and
 Michelle L. Magouirk
 Called 5.653 Acres
 M.C.C.D. 2006017130
 O.P.R.M.C.T.

Shady Shores Estates
 City of Bruceville-Eddy
 McLennan County, Texas
 Vol. 891, Pg. 165
 D.R.M.C.T.

David Koehler, et ux
 Called 20.997 Acres
 M.C.C.D. 2012008070
 O.P.R.M.C.T.

Tract Two
 David Koehler, et ux
 Called 2.443 Acres
 M.C.C.D. 2019023949
 O.P.R.M.C.T.

Point of Beginning
 Found 5/8" Rebar Rod
 With Cap Stamped "MC2"
 (Control Monument)
 N:10460172.01
 E:3259553.75

**City of
 Bruceville-Eddy**
J.O. Green Survey,
Abstract No. 373

11.794 Acres
 Tract Two
 Ioan C. Hara, et ux
 Called 11.395 Acres
 M.C.C.D. 2020011898
 O.P.R.M.C.T.

Daryl Robinson, et ux
 Called 5.185 Acres
 M.C.C.D. 2021051147
 O.P.R.M.C.T.

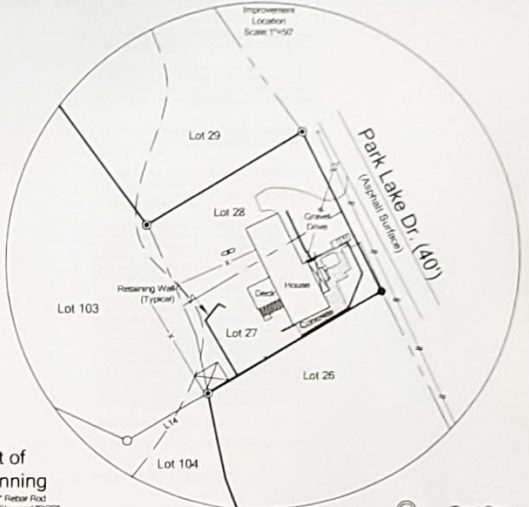
Joel Quirino Orozco
 Called 5.43 Acres
 M.C.C.D. 2023032264
 O.P.R.M.C.T.

Michael Bryan Perez, et ux
 Called 7.14 Acres
 M.C.C.D. 2019012480
 O.P.R.M.C.T.

H.B. Williams Survey,
Abstract No. 882

Aaron K. Reynolds, et ux
 Called 10.00 Acres
 M.C.C.D. 2021002514
 O.P.R.M.C.T.

Aaron Reynolds, et ux
 Called 7.30 Acres
 M.C.C.D. 2016031753
 O.P.R.M.C.T.



- ① Tract One
 Ioan C. Hara, et ux
 Called 0.234 Acres
 M.C.C.D. 2020011898
 O.P.R.M.C.T.
- ② Lot 23
 Ioan Hara, et ux
 M.C.C.D. 2022043846
 O.P.R.M.C.T.

PRELIMINARY PLAT

**LOTS 103 & 104
 SHADY SHORES ESTATES ADDITION
 CITY OF BRUCEVILLE-EDDY
 MCLENNAN COUNTY, TEXAS**

BEING 11.794 ACRES OF LAND BEING OUT OF AND PART OF THE
 G.G. NEWMAN SURVEY, ABSTRACT NO. 658, MCLENNAN COUNTY,
 TEXAS AND ALL OF LOT 29, LOT 27, AND LOT 28 OF THE SHADY
 SHORES ESTATES TO THE CITY OF BRUCEVILLE-EDDY, MCLENNAN
 COUNTY, TEXAS, ACCORDING TO THE PLAT OR MAP THEREOF
 RECORDED IN VOLUME 891, PAGE 165 OF THE DEED RECORDS OF
 MCLENNAN COUNTY, TEXAS, BEING COMPRISED OF THOSE CALLED
 0.234 ACRE AND 11.395 ACRE TRACTS OF LAND DESCRIBED AS
 2020011898 OF THE OFFICIAL PUBLIC RECORDS OF MCLENNAN
 COUNTY, TEXAS (O.P.R.M.C.T.) AND THAT TRACT OF LAND
 DESCRIBED IN A CONSTABLE'S TAX DEED RECORDED TO IOAN
 HARA, ET UX RECORDED IN M.C.C.D. 2022043846 OF SAID
 O.P.R.M.C.T.

State 28 Job No. 2023-162 Drawn By: RLS
 Sheet 1 of 2 Reviewed By: RLS
 Property Address:
 1911 Park Lane Dr.
 Eddy, TX 76524
 Prepared For:
 Christian Hara

SURVEYOR'S CERTIFICATION

Know All Men by These Presents,
 That I, Robbee Lee Shockey, Texas R.P.L.S. No. 6332, do hereby certify
 that I prepared this plat and the field notes made a part thereof from an
 actual and accurate survey of the land and that the corner monuments
 shown thereon were properly placed under my personal supervision, in
 accordance with the Subdivision Regulations of the City of Bruceville-Eddy,
 Texas.

Robbee Lee Shockey Date: April 4, 2024
 R.P.L.S. 6332

LINE	BEARING	DISTANCE
L1	N 58°45'20" E	99.94
L2	S 26°04'52" E	69.92
L3	S 11°46'24" E	48.92
L4	S 36°42'10" E	14.94
L5	S 30°14'05" E	27.51
L6	S 62°50'58" W	76.34
L7	S 79°57'48" E	15.14
L8	S 89°20'56" E	71.96
L9	N 81°48'10" E	75.96
L10	N 01°58'08" W	46.37
L11	N 18°14'48" E	58.51
L12	S 21°11'24" E	7.60
L13	S 53°16'23" E	77.53
L14	N 59°07'10" E	51.85
L15	S 25°51'34" E	49.79

- LEGEND**
- Set 1/2" Rebar Rod With Cap Stamped "STATE 28"
 - Found 1/2" Rebar Rod (Control Monument) (Unless Otherwise Noted)
 - ⊙ Point for Corner
 - ⊕ Found 1/2" Rebar Rod With Cap Stamped "MMA" (Control Monument) (Unless Otherwise Noted)
 - Power Pole
 - Clay
- D.R.M.C.T. Deed Records, McLennan County, Texas
 O.P.R.M.C.T. Official Public Records, McLennan County, Texas
 M.C.C.D. McLennan County Clerk's Document



PRELIMINARY, this document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

Purpose: City Review
 Date of Release: April 4, 2024

FOR MCLENNAN COUNTY CLERK'S OFFICE USE

DESCRIPTION

FOR McLENNAN COUNTY CLERK'S OFFICE USE

NOTES:

BEING 11.796 acres of land being out of and part of the G.G. Newman Survey, Abstract No. 666, McLennan County, Texas and all of Lot 23, Lot 27, and Lot 28 of the Shady Shores Estates to the City of Bruceville-Eddy, McLennan County, Texas, according to the plat or map thereof recorded in Volume 861, Page 165 of the Deed Records of McLennan County, Texas. Being comprised of three called 0.234 acre and 11.309 acre tracts of land described as Tracts One and Two in a deed to Joan C. Hara, et al recorded in McLennan County Clerk's Document M.C.C.D. 202201198 of the Official Public Records of McLennan County, Texas (O.P.R.M.C.T.) and that tract of land described as a Constant's Tax Deed recorded in Volume 184, at or recorded in M.C.C.D. 202203846 of said O.P.R.M.C.T., being more particularly described as follows:

BEGINNING at a 54' rear rod with cap stamped "1623" (control monument) found for a common corner between said Lot 28 and Lot 29 of said Shady Shores Estates, said point being located in the West line of Park Lake Dr.

THENCE South 28°04'52" East, 86.82' along the common line between said Lot 28, Lot 27 and Park Lake Dr. to a 1/2" rear rod (control monument) found for a common corner between said Lot 27 and Lot 28 of said Shady Shores Estates.

THENCE South 89°47'30" West, 116.72' along the common line between said Lot 27 and Lot 26 to a 1/2" rear rod with cap stamped "MMA" (control monument) found for a common corner between said Lot 27 and Lot 26, said point being located in the East line of said 11.309 acre tract.

THENCE South 11°47'24" East, 48.90' to a 1/2" rear rod with cap stamped "MMA" (control monument) found for a common corner between said Lot 28 and 11.309 acre tract.

THENCE South 20°33'54" East, 101.36' along the common line between said Lot 26, Lot 25, Lot 24 and said Shady Shores Estates, and 11.309 acre tract to a 1/2" rear rod set with cap stamped "STATE 28" for a common corner between said Lot 24 and Lot 23, from which a 1/2" rear rod with cap stamped "MMA" (control monument) found for a common corner between said Lot 24 and 11.309 acre tract bears S 20°27'04" E, 25.46'.

THENCE N 62°32'42" E, 131.87' along the common line between said Lot 23 and Lot 24 to a 1/2" rear rod set with cap stamped "STATE 28" for a common corner between said Lot 23 and Lot 24, said point being located in the West line of said Park Lake Dr.

THENCE S 20°13'34" E, 46.79' along the common line between said Lot 23 and Park Lake Dr. to a 3/8" rear rod (control monument) found for a common corner between said Lot 23 and Lot 22 of said Shady Shores Estates.

THENCE S 62°41'31" W, 129.72' along the common line between said Lot 23 and Lot 22 to a 1/2" rear rod set with cap stamped "STATE 28" for a common corner between said Lot 23 and Lot 22, said point being located in the East line of said Park Lake Dr.

THENCE S 38°47'30" E, 14.84' along the common line between said Lot 22 and 11.309 acre tract to a 1/2" rear rod with cap stamped "MMA" (control monument) found for a common corner between said Lot 22 and 11.309 acre tract.

THENCE South 30°41'52" East, 22.81' continuing along the common line between said Lot 22 and 11.309 acre tract to a 5/8" rear rod (control monument) found for a common corner between said 11.309 acre tract and a called 5.185 acre tract of land described in a deed to Dary Koutner, et al recorded in M.C.C.D. 202101147 of said O.P.R.M.C.T.

THENCE along the common line between said 11.309 acre tract and 5.185 acre tract the following courses and distances:

South 56°32'22" West, 108.52' to a 1/2" rear rod (control monument) found for corner.

South 62°30'38" West, 76.34' to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract, 5.185 acre tract, and a called 5.43 acre tract of land described in a deed to Axel Quares Corrao recorded in M.C.C.D. 202203264 of said O.P.R.M.C.T.

THENCE South 60°26'42" West, 236.56' along the common line between said 11.309 acre tract and 5.43 acre tract to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract, 5.43 acre tract, and a called 7.14 acre tract of land described in a deed to Michael Bryan Patis, et al recorded in M.C.C.D. 201802480 of said O.P.R.M.C.T.

THENCE along the common line between said 11.309 acre tract and 7.14 acre tract the following courses and distances:

South 57°23'52" West, 236.70' to a 1/2" rear rod (control monument) found for corner.

South 67°30'37" West, 103.87' in a point for a common corner between said 11.309 acre tract, 7.14 acre tract, and a called 9.30 acre tract of land described in a deed to Aaron Reynolds, et al recorded in M.C.C.D. 201802173 of said O.P.R.M.C.T. from which a 5/8" rear rod found bearing for reference bears N 51°29'42" W, 0.53'.

THENCE South 81°28'38" West, 136.67' along the common line between said 11.309 acre tract and 9.30 acre tract to a 5/8" rear rod (control monument) found for a common corner between said 11.309 acre tract, 9.30 acre tract, and a called 10.03 acre tract of land described in a deed to Aaron F. Reynolds, et al recorded in M.C.C.D. 202100144 of said O.P.R.M.C.T.

THENCE North 30°27'44" West, 182.27' along the common line between said 11.309 acre tract, 10.03 acre tract, and a called 49.11 acre tract of land described in a deed to James M. Stovener, et al recorded in M.C.C.D. 201701196 of said O.P.R.M.C.T. to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract and a called 20.967 acre tract of land described in a deed to David Koutner, et al recorded in M.C.C.D. 201200870 of said O.P.R.M.C.T.

THENCE North 79°04'39" East, 446.02' along the common line between said 11.309 acre tract, 20.967 acre tract, and a called 3.142 acre tract of land described in a deed to David Koutner, et al recorded in M.C.C.D. 201802480 of said O.P.R.M.C.T. to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract and 3.142 acre tract.

THENCE along the common line between said 11.309 acre tract and 3.142 acre tract the following courses and distances:

South 79°57'43" East, 15.15' to a 1/2" rear rod with cap stamped "MMA" (control monument) found for corner.

South 77°34'38" East, 220.49' to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract, 3.142 acre tract, and a called 2.443 acre tract of land described as Tract Two in a deed to David Koutner, et al recorded in M.C.C.D. 201902349 of said O.P.R.M.C.T.

THENCE along the common line between said 11.309 acre tract and 2.443 acre tract the following courses and distances:

North 69°20'58" East, 71.80' to a 1/2" rear rod (control monument) found for corner.

North 81°48'12" East, 76.50' to a 1/2" rear rod (control monument) found for corner.

North 26°49'09" East, 133.86' to a 1/2" rear rod (control monument) found for corner.

North 12°18'37" West, 248.54' to a 1/2" rear rod (control monument) found for corner.

North 56°42'22" West, 218.83' to a 1/2" rear rod (control monument) found for corner.

THENCE South 01°58'08" West, 48.67' to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract, 2.443 acre tract, and 20.967 acre tract.

THENCE North 18°23'48" East, 88.51' along the common line between said 11.309 acre tract and 20.967 acre tract to a 1/2" rear rod (control monument) found for a common corner between said 11.309 acre tract, 20.967 acre tract, a called 5.653 acre tract of land described in a deed to Joe Allen Magrath and Michelle L. Magrath recorded in M.C.C.D. 200801130 of said O.P.R.M.C.T., and Park tract of said Shady Shores Estates.

THENCE along the common line between said 11.309 acre tract and Park tract the following courses and distances:

South 27°13'34" East, 7.86' to a 1/2" rear rod with cap stamped "MMA" (control monument) found for corner.

South 53°18'23" East, 77.36' to a point for corner.

South 30°27'44" East, 41.8731' passing a 3/8" rear rod (control monument) found for a common corner between said park tract and Lot 38 of said Shady Shores Estates. Hence continuing along the same course and along the common line between said 11.309 acre tract and Lot 38-32 (to a total distance of 332.02') to a 1/2" rear rod with cap stamped "MMA" (control monument) found for a common corner between said 11.309 acre tract and Lot 32.

THENCE South 38°39'39" East, 194.89' along the common line between said 11.309 acre tract and Lots 32-29 to a 1/2" rear rod with cap stamped "MMA" (control monument) found for a common corner between said 11.309 acre tract, Lot 29 and Lot 28.

THENCE North 68°30'30" East, 98.98' along the common line between said Lot 29 and Lot 28 to the PLACE OF BEGINNING and containing 11.794 acres of land.

BEARINGS, DISTANCES AND SCAVENGE ARE GRID, NAD83 STATE PLANE COORDINATE SYSTEM, TEXAS CENTRAL ZONE 4203.

OWNER'S DEDICATION

THE STATE OF TEXAS
COUNTY OF McLENNAN

That, Joan C. Hara and Tabitha K. Hara, being the owners of the property described above and wishing to subdivide same into lot and block, do hereby adopt the plat attached hereto and Block 7 Final Plat of Lots 103 & 104 of the Shady Shores Estates Addition, to the City of Bruceville-Eddy, McLennan County, Texas, BEING 11.794 acres of land being out of and part of the G.G. Newman Survey, Abstract No. 666, McLennan County, Texas and all of Lot 23, Lot 27 and Lot 28 of the Shady Shores Estates to the City of Bruceville-Eddy, McLennan County, Texas, according to the plat or map thereof recorded in Volume 861, Page 165 of the Deed Records of McLennan County, Texas, being comprised of those called 0.234 acre and 11.309 acre tracts of land described as Tracts One and Two in a deed to Joan C. Hara, et al recorded in McLennan County Clerk's Document M.C.C.D. 202201198 of the Official Public Records of McLennan County, Texas (O.P.R.M.C.T.) and that tract of land described in a Constant's Tax Deed recorded to Joan Hara, et al recorded in M.C.C.D. 202203846 of said O.P.R.M.C.T., as our legal subdivision of same. We do hereby dedicate all easements and right-of-way shown hereon for the use of the public and for the purposes herein stated. Any private improvements placed in any of those easements or right-of-way shall be placed there at no risk or obligation to the public or the Bruceville-Eddy, trustee for the public, to hold those easements, and the City of Bruceville-Eddy shall have no responsibility to repair or replace such improvements if they are damaged or destroyed in the utilization of those easements or right-of-way. The use of the plat shown on this plat shall be made in accordance therewith, subject to all restrictions and conditions recorded in McLennan County, Texas Real Property Records pertaining to this subdivision.

Joan C. Hara
1011 Park Lake Dr
Eddy, TX 76524

Tabitha K. Hara
1011 Park Lake Dr
Eddy, TX 76524

THE STATE OF TEXAS
COUNTY OF McLENNAN

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared Joan C. Hara, known to me to be the person whose name is subscribed to the foregoing instrument and that he acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the ____ day of _____, 20__.

Notary Public in and for
the State of Texas

THE STATE OF TEXAS
COUNTY OF McLENNAN

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared Tabitha K. Hara, known to me to be the person whose name is subscribed to the foregoing instrument and that she acknowledged to me that she executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the ____ day of _____, 20__.

Notary Public in and for
the State of Texas

ON-SITE SEWAGE FACILITIES CERTIFICATION

The following statement certifies that an engineering suitability report prepared by _____ on the ____ day of _____, 2023, has been submitted and accepted for this subdivision plat. Individual on-site sewage facility designs must be submitted for approval for each lot and built to Texas Commission on Environmental Quality (TCEQ) regulations prior to occupation of the residence. This subdivision plat approved and accepted on this the ____ day of _____, 20__.

Designated Representative for and on behalf of McLennan County

Printed Name of Designated Representative for and on behalf of McLennan County

SEPTIC NOTE:

1. All on site septic systems are to comply with the requirements of the County's rules for on-site sewage facilities and signature of the designated representative.

FOR McLENNAN COUNTY CLERK'S OFFICE USE

MAJOR & CITY CERTIFICATION

THE STATE OF TEXAS
COUNTY OF McLENNAN

I hereby certify that the attached and foregoing plat and lead notes of the "Final Plat of Lots 103 & 104 of the Shady Shores Estates Addition, to the City of Bruceville-Eddy, McLennan County, Texas, BEING 11.794 acres of land being out of and part of the G.G. Newman Survey, Abstract No. 666, McLennan County, Texas and all of Lot 23, Lot 27, and Lot 28 of the Shady Shores Estates to the City of Bruceville-Eddy, McLennan County, Texas, according to the plat or map thereof recorded in Volume 861, Page 165 of the Deed Records of McLennan County, Texas, being comprised of those called 0.234 acre and 11.309 acre tracts of land described as Tracts One and Two in a deed to Joan C. Hara, et al recorded in McLennan County Clerk's Document M.C.C.D. 202201198 of the Official Public Records of McLennan County, Texas (O.P.R.M.C.T.) and that tract of land described in a Constant's Tax Deed recorded to Joan Hara, et al recorded in M.C.C.D. 202203846 of said O.P.R.M.C.T. was approved on this the ____ day of _____, 20__.

Leads Owners
Mayor

PRELIMINARY PLAT

LOTS 103 & 104
SHADY SHORES ESTATES ADDITION
CITY OF BRUCEVILLE-EDDY
McLENNAN COUNTY, TEXAS

BEING 11.794 ACRES OF LAND BEING OUT OF AND PART OF THE G.G. NEWMAN SURVEY; ABSTRACT NO. 666, McLENNAN COUNTY, TEXAS AND ALL OF LOT 23, LOT 27, AND LOT 28 OF THE SHADY SHORES ESTATES TO THE CITY OF BRUCEVILLE-EDDY, McLENNAN COUNTY, TEXAS, ACCORDING TO THE PLAT OR MAP THEREOF RECORDED IN VOLUME 861, PAGE 165 OF THE DEED RECORDS OF McLENNAN COUNTY, TEXAS, BEING COMPRISED OF THOSE CALLED 0.234 ACRES AND 11.309 ACRES TRACTS OF LAND DESCRIBED AS TRACTS ONE AND TWO IN A DEED TO JOAN C. HARA, ET AL, RECORDED IN McLENNAN COUNTY CLERK'S DOCUMENT (M.C.C.D.) 202201198 OF THE OFFICIAL PUBLIC RECORDS OF McLENNAN COUNTY, TEXAS (O.P.R.M.C.T.) AND THAT TRACT OF LAND DESCRIBED IN A CONSTANT'S TAX DEED RECORDED TO JOAN HARA, ET AL RECORDED IN M.C.C.D. 202203846 OF SAID O.P.R.M.C.T.

State 28 Job No. 2023-162
Sheet 2 of 2
Property Address: 1011 Park Lake Dr, Eddy, TX 76524

Drawn By: RLS
Reviewed By: RLS
Prepared For: Christian Hara

SURVEYOR'S CERTIFICATION

Know All Men By These Presents

That I, Robbie Lee Shockey, Texas R.P.L.S. No. 6332, do hereby certify that I prepared this plat and the lead notes herea a part thereof from actual and accurate survey of the land and that the corner monuments shown thereon were properly placed under my personal supervision, in accordance with the Subdivision Regulations of the City of Bruceville-Eddy, Texas.

Robbie Lee Shockey
R.P.L.S. 6332

Date: April 4, 2024



PRELIMINARY: this document shall not be recorded for any purpose and shall not be used or viewed or relied upon as a final survey document.

Purpose: City Review

Date of Release: April 4, 2024

Notice of confidentiality rights: If you are a natural person, you may remove or strike any or all of the following information from any instrument that transfers an interest in real property before it is filed for record in the public records: your Social Security number or your driver's license number.

SSE, MP 2-96D

GF#WF20-0209RM

TC 2020-0633 **Special Warranty Deed with Vendor's Lien**

Date: April 8, 2020

Grantor: WACO OWNER FINANCE, LLC, a Texas series limited liability company - Series 1011 Park Lake

Grantee: IOAN C. HARA and wife, TABITHA K. HARA

Grantee's Mailing Address: 1011 Park Lake Drive, Eddy, Texas 76524-2559

Consideration: Cash and a note of even date executed by Grantee and payable to the order of PRIMELENDING, A PLAINSCAPITAL COMPANY in the principal amount of ONE HUNDRED FORTY TWO THOUSAND SEVEN HUNDRED EIGHTY FOUR AND NO/100 DOLLARS (\$142,784.00). The note is secured by a first and superior vendor's lien and superior title retained in this deed in favor of PRIMELENDING, A PLAINSCAPITAL COMPANY and by a first-lien deed of trust of even date from Grantee to ALLAN B. POLUNSKY, Trustee.

GRANTEE IS TAKING THE PROPERTY IN AN ARM'S-LENGTH AGREEMENT BETWEEN THE PARTIES. THE CONSIDERATION WAS BARGAINED ON THE BASIS OF AN "AS IS, WHERE IS" TRANSACTION AND REFLECTS THE AGREEMENT OF THE PARTIES THAT THERE ARE NO REPRESENTATIONS OR EXPRESS OR IMPLIED WARRANTIES, EXCEPT FOR THE WARRANTY OF TITLE STATED IN THIS DEED.

THE PROPERTY IS BEING CONVEYED TO GRANTEE IN AN "AS IS, WHERE IS" CONDITION, WITH ALL FAULTS. GRANTOR MAKES NO WARRANTY OF CONDITION, MERCHANTABILITY, OR SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE FIXTURES AND PERSONAL PROPERTY. ALL WARRANTIES, EXCEPT FOR THE WARRANTY OF TITLE STATED IN THIS DEED, ARE DISCLAIMED.

GRANTEE ACKNOWLEDGES AND AGREES THAT GRANTEE IS RELYING SOLELY ON GRANTEE'S EXAMINATION OF THE PROPERTY. GRANTEE IS NOT RELYING ON ANY INFORMATION OR DISCLOSURES PROVIDED BY GRANTOR.

Property (including any improvements):

TRACT ONE:

BEING 0.234 ACRES OF LAND IN THE J.O. GREEN SURVEY, ABSTRACT NO. 373 MCLENNAN COUNTY, TEXAS AND BEING ALL OF LOTS 27 AND 28 OF THE SHADY SHORES ESTATES ADDITION TO MCLENNAN COUNTY, ACCORDING TO THE PLAT OF RECORD IN VOLUME 891, PAGE 165 OF THE MCLENNAN COUNTY, TEXAS DEED

RECORDS. SAID 0.234 ACRES BEING DESCRIBED AS FOLLOWS WITH BEARINGS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83.

BEGINNING AT A 5/8 INCH IRON ROD WITH CAP STAMPED RCS FOUND IN THE WEST LINE OF PARK LAKE DRIVE AT THE NORTHEAST CORNER OF THE ABOVE REFERENCED LOT 28 FOR THE NORTHEAST CORNER OF THE HEREIN DESCRIBED PARCEL OF LAND;

THENCE S 25DEGREES 59MINUTES 20SECONDS E 100.00 FEET, PLAT S 23DEGREES 25MINUTES E 100.0 FEET, ALONG THE WEST LINE OF PARK LAKE DRIVE TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED FOR THE SOUTHEAST CORNER OF THE SAID LOT 27 AND THE HEREIN DESCRIBED PARCEL OF LAND;

THENCE S 59DEGREES 06MINUTES 38SECONDS W 110.70 FEET, PLAT 110.70 FEET, ALONG THE SOUTH LINE OF LOT 27 TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED AT THE SOUTHWEST CORNER OF THE SAID LOT 27 IN THE WEST LINE OF THE SHADY SHORES ESTATES ADDITION;

THENCE WITH THE WEST LINE OF THE SAID ADDITION AND LOTS 27 AND 28 THE FOLLOWING THREE (3) COURSES AND DISTANCES:

- 1.) N 11 DEGREES 35MINUTES 47SECONDS W 33.00 FEET, PLAT N 09DEGREES 42MINUTES W 33.00 FEET, TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED,
- 2.) N 23DEGREES 13MINUTES 16SECONDS W 65.00 FEET, RECORD N 21DEGREES 39MINUTES W 65.00 FEET, TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED, AND
- 3.) N 36DEGREES 20MINUTES 42SECONDS W 3.50 FEET, PLAT N 32DEGREES 58MINUTES W 3.50 FEET, TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED FOR THE NORTHWEST CORNER OF THE SAID LOT 28 AND THE HEREIN DESCRIBED PARCEL OF LAND,

THENCE N 58DEGREES 46MINUTES 26SECONDS E 100.00 FEET, PLAT 100.00 FEET, ALONG THE NORTH LINE OF LOT 28 TO THE POINT OF BEGINNING.

TRACT TWO:

BEING 11.395 ACRES OF LAND IN THE G.G. NEWMAN SURVEY, ABSTRACT NO. 668 AND THE J.O. GREEN SURVEY, ABSTRACT NO. 373 MCLENNAN COUNTY, TEXAS AND BEING ALL THAT TRACT TWO CALLED 11.26 ACRES DESCRIBED IN A DEED TO NAQUATA PROPERTIES, LLC OF RECORD AS INSTRUMENT 2013019972 IN THE OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS AND THE SMALL GAP PARCELS THAT LIE BETWEEN THE EAST LINE OF THE SAID 11.26 ACRES AND THE WEST LINE OF SHADY SHORES ESTATES ADDITION TO MCLENNAN COUNTY ACCORDING TO THE PLAT OF RECORD IN VOLUME 891, PAGE 165 OF THE MCLENNAN COUNTY, TEXAS DEED RECORDS. SAID 11.395 ACRES BEING DESCRIBED AS FOLLOWS

WITH BEARINGS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83.

BEGINNING AT A 5/8 INCH IRON ROD FOUND AT THE SOUTHWEST CORNER OF THE ABOVE REFERENCED 11.26 ACRES, THE SOUTHEAST CORNER OF THAT CALLED 10 ACRES DESCRIBED IN A DEED TO STEPHEN SHAW AS INSTRUMENT 2007016296 IN OFFICIAL PUBLIC RECORDS AND IN THE NORTH LINE OF THAT CALLED 9.30 ACRES IN A DEED TO AARON REYNOLDS AND LESLEIGH ANN REYNOLDS OF RECORD AS INSTRUMENT 2016031753 AND BEING IN THE RECOGNIZED SOUTH NEWMAN SURVEY FOR THE SOUTHWEST CORNER OF THE HEREIN DESCRIBED PARCEL OF LAND;

THENCE N 31DEGREES 00MINUTES 32SECONDS W 691.19 FEET, RECORD N 28DEGREES 00MINUTES 00SECONDS W 690.09 FEET, ALONG THE WEST LINE OF THE CALLED 11.26 ACRES AND EAST LINE OF THE SHAW 10.0 ACRES TO A 1/2 INCH IRON ROD FOUND FOR THE NORTHWEST CORNER OF THE HEREIN DESCRIBED PARCEL OF LAND, BEING THE SOUTHWEST CORNER OF THAT CALLED 20.997 ACRES DESCRIBED IN A DEED TO DAVID KOEHLER AND CAMILLE KOEHLER OF RECORD AS INSTRUMENT 2012008070 IN THE SAID OFFICIAL PUBLIC RECORDS;

THENCE N 78DEGREES 58MINUTES 45SECONDS E 445.88 FEET, RECORD N 82DEGREES 01MINUTES 32SECONDS E 445.79 FEET, ALONG THE NORTH LINE OF THE 11.26 ACRES AND THE SOUTH LINE OF THE SAID KOEHLER 20.997 ACRES AND THAT TRACT ONE CALLED 3.142 ACRES DESCRIBED IN A DEED TO THE SAID DAVID AND CAMILLE KOEHLER OF RECORD AS INSTRUMENT 2019023949 OF THE SAID OFFICIAL PUBLIC RECORDS TO A 1/2 INCH IRON ROD FOUND FOR CORNER;

THENCE S 83DEGREES 27MINUTES 02SECONDS E 15.08 FEET, RECORDS 80DEGREES 29MINUTES 15SECONDS E 15.12 FEET, WITH THE NORTH LINE OF THE SAID 11.26 ACRES AND SOUTH LINE OF THE SAID 3.142 ACRES TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED;

THENCE S 70DEGREES 30MINUTES 26SECONDS E 220.91 FEET, RECORDS 67DEGREES 08MINUTES 50SECONDS E 292.19 FEET, ALONG THE SOUTH LINE OF THE 3.142 ACRES TO A 1/2 INCH IRON ROD WITH CAP STAMPED M&A PLACED AT THE SOUTHEAST CORNER OF THE SAID 3.142 AND THE SOUTHWEST CORNER OF THAT TRACT TWO CALLED 2.443 ACRES DESCRIBED IN THE SAID INSTRUMENT 2019023949 OF THE SAID OFFICIAL PUBLIC RECORDS;

THENCE S 69DEGREES 21MINUTES 30SECONDS E 71.84 FEET ALONG THE SOUTH LINE OF THE 2.443 ACRES TO A 1/2 INCH IRON ROD FOUND;

THENCE CONTINUING WITH THE NORTH LINE OF THE 11.26 ACRES AND SOUTH AND EAST LINE OF THE SAID 2.443 ACRES THE FOLLOWING FIVE (5) COURSES AND DISTANCES:

4.) N 81DEGREES 46MINUTES 50SECONDS E 75.57 FEET, RECORD N 84DEGREES 53MINUTES 43SEC E 75.34 FEET, TO A 1/2 INCH IRON ROD FOUND,

5.) N26DEGREES 44MINUTES 06SECONDS E 135.93 FEET, RECORD N 29DEGREES 49MINUTES 15SECONDS E 136.13 FEET, TO A ½ INCH IRON ROD FOUND,

6.) N 12DEGREES 19MINUTES 46SECONDS W 249.09 FEET, RECORD N 09DEGREES 14MINUTES 24SECONDS W 249.28 FEET, TO A ½ INCH IRON ROD FOUND,

7.) N56DEGREES 51MINUTES 08SECONDS W 219.79 FEET, RECORD N 53DEGREES 40MINUTES 17SECONDS W 220.52 FEET, TO A ½ INCH IRON ROD FOUND, AND

8.) N 01DEGREES 55MINUTES 10SECONDS W 46.99 FEET, RECORD N 01DEGREES 13MINUTES 13SECONDS E 47.11 FEET, TO A ½ INCH IRON ROD FOUND AT THE NORTHEAST CORNER OF THE SAID 2.443 ACRES IN THE SOUTH LINE OF THE ABOVE REFERENCED DAVID AND CAMILLE KOEHLER 20.997 ACRES,

THENCE N 18DEGREES 25MINUTES 43SECONDS E 98.60 FEET, RECORD N 21DEGREES 15MINUTES 45SECONDS E 98.31 FEET, TO A ½ INCH IRON ROD FOUND AT THE NORTHEAST CORNER OF THE SAID 11.26 ACRES, THE SOUTHEAST CORNER OF THE KOEHLER 20.997 ACRES AND THE SOUTHWEST CORNER OF THAT CALLED 5.653 ACRES DESCRIBED IN A DEED TO JOE ALLEN MAGOUIRK AND MICHELLE L. MAGOUIRK OF RECORD AS INSTRUMENT 2006017130 IN THE SAID OFFICIAL PUBLIC RECORDS AND BEING IN OR NEAR THE EAST LINE OF THE SAID NEWMAN SURVEY AND WEST LINE OF THE SAID GREEN SURVEY FOR THE NORTHEAST CORNER OF THE HEREIN DESCRIBED PARCEL OF LAND;

THENCE S 30DEGREES 16MINUTES 57SECONDS E 8.49 FEET, RECORDS 27DEGREES 19MINUTES 17SECONDS E 8.49 FEET, TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED;

THENCE S 53DEGREES 03MINUTES 03SECONDS E 76.48 FEET TO THE CALCULATED NORTHWEST CORNER OF THE ABOVE REFERENCED SHADY SHORES ESTATES ADDITION;

THENCE ALONG THE WEST LINE OF THE SHADY SHORES ESTATES ADDITION THE FOLLOWING SEVEN (7) COURSES AND DISTANCES:

1.) S 36DEGREES 31MINUTES 40SECONDS E AT 88.00 FEET PASSING A ½ INCH IRON ROD FOUND AT THE NORTHWEST CORNER OF LOT 36 OF THE SAID ADDITION AND CONTINUING FOR A TOTAL DISTANCE OF 332.03 FEET, PLATS 32DEGREES 17MINUTES E 332.0 FEET, TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED,

2.) S 36DEGREES 10MINUTES 35SECONDS E 159.50 FEET, RECORD S 32DEGREES 58MINUTES E 159.5 FEET, TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED IN THE WEST LINE OF LOT 28 BEING S 36DEGREES 10MINUTES 35SECONDS E 3.50 FEET FROM ITS NORTHWEST CORNER,

3.) S 23DEGREES 13MINUTES 16SECONDS E 65.00 FEET, PLATS 21DEGREES 39MINUTES E 65.0 FEET, TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED IN THE WEST LINE OF LOT 27,

4.) S 11DEGREES 35MINUTES 47SECONDS E AT 33.00 FEET PASSING A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED AT THE SOUTHWEST CORNER OF THE SAID LOT 27 AND CONTINUING FOR A TOTAL DISTANCE OF 82.00 FEET, PLATS 09DEGREES 42MINUTES E 82.0 FEET, TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED IN THE WEST LINE OF LOT 26,

5.) S 20DEGREES 42MINUTES 08SECONDS E 126.81 FEET, PLATS 18DEGREES 46MINUTES E 129.5 FEET, TO A ½ IRON ROD WITH CAP STAMPED M&A PLACED IN THE WEST LINE OF LOT 23 FROM WHERE A 3/8 INCH IRON ROD FOUND BEARS N 20DEGREES 42MINUTES 08SECONDS W 15.00 FEET AND ANOTHER BEARS S 36DEGREES 40MINUTES 29SECONDS E 24.0 FEET,

6.) S 36DEGREES 40MINUTES 29SECONDS E 39.00 FEET, RECORDS 30DEGREES 16MINUTES E 39.0 FEET, TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED IN THE WEST LINE OF LOT 22, AND

7.) S 29DEGREES 01MINUTES 42SECONDS E 22.49 FEET TO A 5/8 INCH IRON ROD FOUND AT THE SOUTHEAST CORNER OF THE SAID 11.26 ACRES AND THE NORTHWEST CORNER OF THAT 5.14 ACRES OF LAND DESCRIBED IN A DEED TO JOHN NOONE AND RAMONA NOONE OF RECORD IN VOLUME 1312, PAGE 379 OF THE MCLENNAN COUNTY, TEXAS DEED RECORDS,

THENCE S 56DEGREES 28MINUTES 09SECONDS W 107.71 FEET WITH THE NORTH LINE OF THE 5.14 ACRES TO A ½ INCH IRON ROD FOUND AT AN ANGLE POINT IN ITS NORTH LINE;

THENCE S 62DEGREES 55MINUTES 33SECONDS W 76.33 FEET TO A 3/8 INCH IRON ROD FOUND AT THE NORTHWEST CORNER OF THE SAID 5.14 ACRES AND THE NORTHWEST CORNER OF THAT CALLED TRACT 38 OF 5.43 ACRES DESCRIBED IN A DEED TO GEORGE CLARENCE LIMBURG OF RECORD AS INSTRUMENT 2018018506 IN THE SAID OFFICIAL PUBLIC RECORDS;

THENCE S 60DEGREES 31MINUTES 27SECONDS W 239.80 FEET TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED AT THE NORTHWEST CORNER OF THE SAID 5.43 ACRES AND THE NORTHEAST CORNER OF THAT TRACT 39 CALLED 7.00 ACRES DESCRIBED IN A DEED TO MICHAEL BRYAN PEREZ AND ARLIE PEREZ OF RECORD AS INSTRUMENT 2019012480 IN THE SAID OFFICIAL PUBLIC RECORDS;

THENCE S 59DEGREES 25MINUTES 38SECONDS W 238.70 FEET TO A ½ INCH IRON ROD WITH CAP STAMPED M&A PLACED AT AN ANGLE POINT IN THE NORTH LINE OF THE 7.00 ACRES;

THENCE S 57DEGREES 32MINUTES 53SECONDS W 103.61 FEET TO A 5/8 INCH IRON ROD FOUND AT THE NORTHWEST CORNER OF THE SAID 7.00 ACRES AND THE ABOVE REFERENCED AARON REYNOLDS 9.30 ACRES;

THENCE S 61DEGREES 15MINUTES 31SECONDS W 135.92 FEET, RECORDS 63DEGREES 52MINUTES 18SECONDS W 135.98 FEET, TO THE POINT OF BEGINNING.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty: Liens described as part of the Consideration; validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property; validly existing rights of adjoining owners in any walls and fences situated on a common boundary; any discrepancies, conflicts, or shortages in area or boundary lines; any encroachments or overlapping of improvements; and taxes for the current year, which Grantee assumes and agrees to pay.

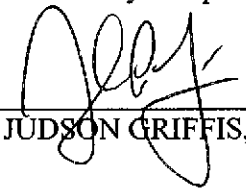
Grantor, for the Consideration and subject to the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through, or under Grantor but not otherwise, except as to the Exceptions to Conveyance and Warranty.

The vendor's lien against and superior title to the Property are retained until each note described is fully paid according to its terms, at which time this deed will become absolute.

When the context requires, singular nouns and pronouns include the plural.

PRIMELENDING, A PLAINSCAPITAL COMPANY, at Grantee's request, has paid in cash to Grantor that portion of the purchase price of the Property that is evidenced by the note. The first and superior vendor's lien against and superior title to the Property are retained for the benefit of PRIMELENDING, A PLAINSCAPITAL COMPANY and are transferred to PRIMELENDING, A PLAINSCAPITAL COMPANY without recourse against Grantor.

WACO OWNER FINANCE, LLC, a Texas series limited liability company - Series 1011 Park Lake


By: JUDSON GRIFFIS, Manager

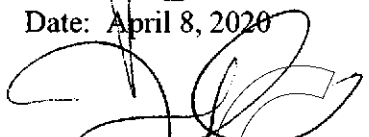
Unofficial

IOAN C. HARA and TABITHA K. HARA, Grantee, accept the attached deed and consent to its form and substance. Grantee acknowledges that the terms of the deed conform with Grantee's intent and that they will control in the event of any conflict with the contract Grantee signed regarding the Property described in the deed.

Grantee agrees to the obligations imposed on Grantee by the terms of the deed.




IOAN C. HARA
Date: April 8, 2020



TABITHA K. HARA
Date: April 8, 2020

THE STATE OF TEXAS
COUNTY OF McLENNAN

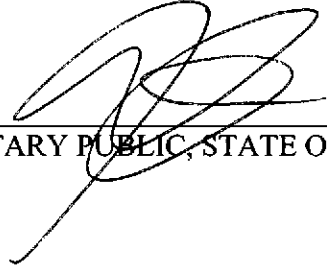
This instrument was acknowledged before me on April 8, 2020, by JUDSON GRIFFIS as Manager of WACO OWNER FINANCE, LLC, a Texas series limited liability company - Series 1011 Park Lake, on behalf of said company.



ANGELIC SERRANO
NOTARY PUBLIC, STATE OF TEXAS
ID: 12500413-6
EXP: 07-29-2020

THE STATE OF TEXAS
COUNTY OF McLENNAN

This instrument was acknowledged before me on April 8, 2020, by IOAN C. HARA and TABITHA K. HARA, husband and wife.



ANGELIC SERRANO
NOTARY PUBLIC, STATE OF TEXAS
ID: 12500413-6
EXP: 07-29-2020

After recording return to:
Mr. and Mrs. Ioan C. Hara
1011 Park Lake Drive
Eddy, Texas 76524-2559

FILED AND RECORDED

Instrument Number: 2020011898

Filing and Recording Date: 04/13/2020 03:04:23 PM Pages: 8 Recording Fee: \$40.00

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of McLennan County, Texas.



J. A. "Andy" Harwell, County Clerk
McLennan County, Texas

neckara

Unofficial Copy



Notice of confidentiality rights: If you are a natural person, you may remove or strike any or all of the following information from any instrument that transfers an interest in real property before it is filed for record in the public records: your social security number or your driver's license number.

#8

CONSTABLE'S TAX DEED

STATE OF TEXAS

X

X KNOW ALL MEN BY THESE PRESENTS

COUNTY OF MCLENNAN

X

That, whereas, by virtue of an Order of Sale issued by the Clerk of the District Court in and for McLennan County, dated August 29, 2022 on a certain judgment rendered in said Court on 30th day of September, 2021, in a certain Suit No. 2021-631-4, McLennan County, Et Al vs. Nancy Chaney, Aka Nancy Lee Chaney Marchman, Et Al, I, Constable Walt Strickland, of said County, did upon August 29, 2022, levy upon and advertise the said premises as described in said Order of Sale, by giving public notice of the time and place of said sale by an advertisement in the English language, published once a week for three (3) consecutive weeks preceding such sale, the first publication appearing not less than twenty (20) days immediately preceding the day of sale, beginning on September 13, 2022, in the WACO TRIBUNE HERALD, a newspaper published in the County of McLennan, stating in said advertisement the authority by virtue of which such sale was to be made, the time of levy, the time and place of sale, a brief description of the property to be sold, the number of acres, the original survey, its locality in the County, and the name by which the land is generally known, and by delivering a similar notice to each of the named Defendants, and on the first Tuesday, the 4th day of October, 2022, beginning at 1:00 PM sold said hereinafter described land or lots at public venue, at the South Door of the Courthouse of said County, at which sale the premises hereinafter described were struck off to:

**Ioan Hara and
Tabitah Hara
1011 Park Lake Dr.
Eddy, TX 76524**

for the sum of \$6,000.00, Ioan Hara and Tabitah Hara being the highest bidder(s), and that being the highest bid for the same, NOW, THEREFORE, in consideration of the premises aforesaid, and of the payment of the aforesaid sum, the receipt of which is hereby acknowledged, I as Constable aforesaid, have Granted, Sold, and Conveyed, and by these presents do Grant, Sell, and Convey unto the said grantee(s) all of the estate, right, title, and interest which the Defendants in such suit had on the date said judgment was rendered or at any time afterwards, in and to the following described land and premises, as described in the Order of Sale, viz:

PROPERTY DESCRIPTION

Being Lot 23, Shady Shores Estates Addition, an addition to McLennan County, Texas, according to the map or plat thereof, recorded in Volume 891, Page 156, Deed Records of McLennan County, Texas (160490000020007)

TO HAVE AND TO HOLD the above described premises unto the said grantee(s), heirs and assigns forever, as fully and absolute as I, as Constable aforesaid, can convey by virtue of said Order of Sale;

Subject, however to the owner's right to redeem the same in the manner and within the time prescribed by Section 34.21 of the Property Tax Code of the State of Texas.

This conveyance is made expressly subject to recorded restrictive covenants running with the land, and valid easements of record as of the date of this sale, if such covenants or easements were recorded prior to January 1 of the year the tax lien(s) arose.

IN TESTIMONY WHEREOF, I have hereunto set my hand this the 3 day of November, 2022.

Walt Strickland
Constable Pct. 1
McLennan County

Constable Walt Strickland
McLennan County, Texas

By: [Signature]
April Lingo, Deputy Constable
McLennan County, Texas

STATE OF TEXAS

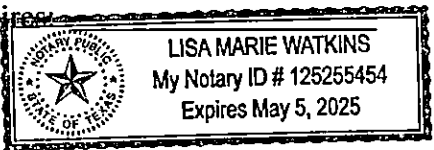
X
X
X

MCLENNAN COUNTY

Before me, the undersigned authority, on this day personally appeared April Lingo, Deputy Constable, of McLennan County, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes, consideration, and in the capacity therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE 3 DAY OF November, 2022.

[Signature]
Printed Name: Lisa Marie Watkins
Notary Public, State of Texas
My Commission Expires



After recording return to:

Ioan Hara and
Tabitah Hara
1011 Park Lake Dr.
Eddy, TX 76524

FILED AND RECORDED

OFFICIAL PUBLIC RECORDS



J. A. "Andy" Harwell, County Clerk
11/10/2022 09:39 AM
Fee: \$20.00
2022043846 DEED
McLennan County, Texas

Unofficial Copy

April 19, 2024

Mr. Kent Manton
City of Bruceville-Eddy
143 Wilcox Drive
Eddy, TX 76524

**RE: SHADY SHORES ESTATES ADDITION, LOTS 103 & 104 PRELIMINARY PLAT REVIEW COMMENTS
MRB PROJECT NO.: 0218.23000**

Dear Mr. Manton:

MRB Group has completed our review of the referenced project and offers the following comments. Please contact me if you have any concerns or questions about this letter.

1. It is understood a variance was granted for the 50' frontage for Lot 23.
2. As per Subdivision Ordinance Section 8.03j., A complete topographic map showing existing structures of the proposed area to be subdivided shall be submitted with the preliminary plat. Elevation contours of the tract shall be at intervals of five (5) feet or less, referenced to sea level datum.
3. As per Subdivision Ordinance Section 8.03k., Existing culverts, utilities or other underground structures within the tract and immediately adjacent thereto with pipe sizes and location indicated shall be shown.
4. As per Subdivision Ordinance Section 8.03l., The probable deed restrictions, estimated maximum day and maximum monthly water demand, on-site and off-site utility systems, on- site and off-site drainage system, on- site and off-site street improvements shall be shown or provided with sufficient detail for evaluation by the City engineer.

Sincerely,



Lee Lingenfelter, PE, CFM
Project Manager

N:\0218.23000.000\Plan & Plat Review\2024-04-0 Shady Shores Lots 103 & 104\2024-04-1 _Shady Shores Lots 103 & 104 Plat Review Comments.docx

May 13, 2024

Mr. Kent Manton
City of Bruceville-Eddy
143 Wilcox Drive
Eddy, TX 76524

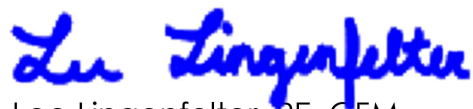
**RE: SHADY SHORES ESTATES ADDITION, LOTS 103 & 104 PRELIMINARY PLAT REVIEW COMMENTS
MRB PROJECT NO.: 0218.23000**

Dear Mr. Manton:

MRB Group has completed our review of the referenced project and offers the following comments. Please contact me if you have any concerns or questions about this letter.

1. It is understood a variance was granted for the 50' frontage for Lot 23.
2. It is understood a variance will be requested for Subdivision Ordinance Section 8.03j-l.

Sincerely,



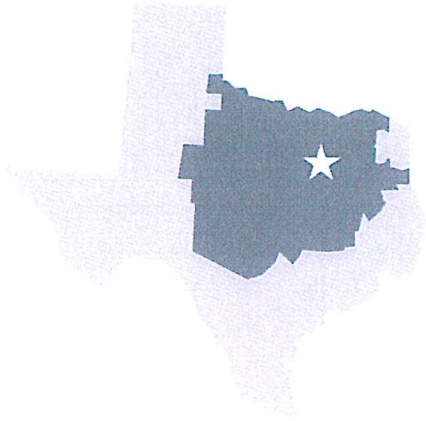
Lee Lingenfelter, PE, CFM
Project Manager

N:\0218.23000.000\Plan & Plat Review\2024-04-05 Shady Shores Lots 103 & 104\2024-05-13_Shady Shores Lots 103 & 104 Plat Review Comments.docx

Agenda Item # 5

Atmos Energy: Mid-Tex Division City of Bruceville Eddy

We've provided safe and efficient natural gas to Texas for more than 100 years. It's more than a place to do business, it's a place our employees call home. That's why we're committed to protecting and preserving the environment, enhancing the safety and reliability of our system, and partnering with local organizations to fuel safe and thriving communities every day.



Atmos Energy operates more than 70 percent of our assets in the Lone Star State. Texas is home to two utility divisions, corporate headquarters, an intrastate pipeline, and customer contact centers in Waco and Amarillo.

BY THE NUMBERS

\$489,996

Capital Expenditures
(Since fiscal year 2018)

136

Customers

8

Miles of Pipeline

\$212,831

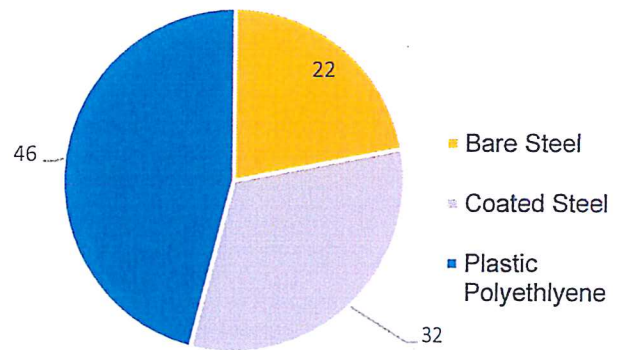
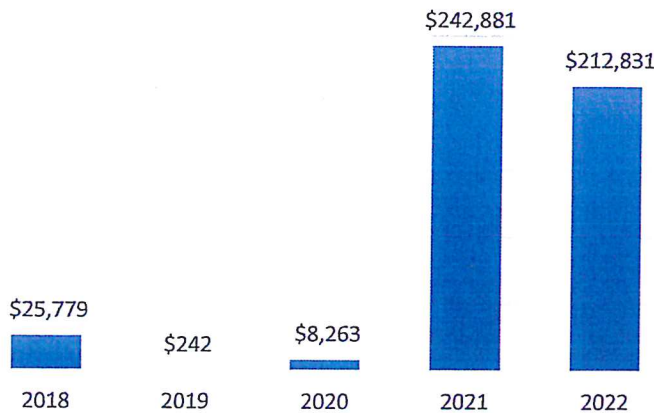
FY 22 Capital Expenditures

74

Employees

SYSTEM MAKEUP

CAPITAL EXPENDITURES FY18-FY22



CONTACT INFORMATION

EMERGENCY NUMBER

Smell gas? Act fast! If you smell gas, leave the area immediately and from a safe distance call 911 and Atmos Energy's 24/7 emergency line at **866.322.8667**.

CUSTOMER SERVICE

Our Customer Contact Center is available Monday through Friday, 7 AM – 6 PM CST at **888.286.6700**.

Guided by **SAFETY**

Operations Report
2021

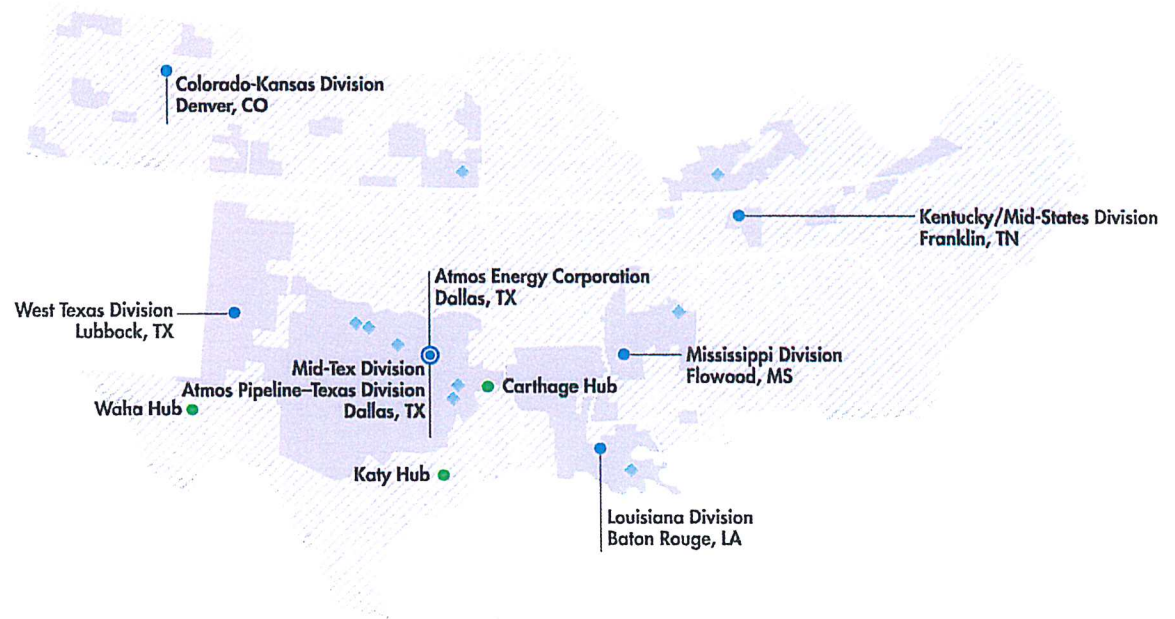
City of Lorena
March 21, 2023



Our Footprint

We own and operate more than 72,000 miles of natural gas pipelines that serve some of the fastest growing and most vibrant communities in the country.

- Safely owning, operating, and modernizing such a dynamic system requires a **strong partnership** between the communities we serve, the regulators who oversee our activities, and the investors and creditors who ensure we have the financial resources necessary to continue **improving our system**.



- Atmos Energy Corporation headquarters
- Division offices
- ◆ Proprietary storage
- Major gas delivery hub
- Natural gas distribution service area

Mid-Tex



BY THE NUMBERS

1.8 million

Customers (meters)

550

Communities Served

31,986

Miles of Pipeline

1,806

Employees

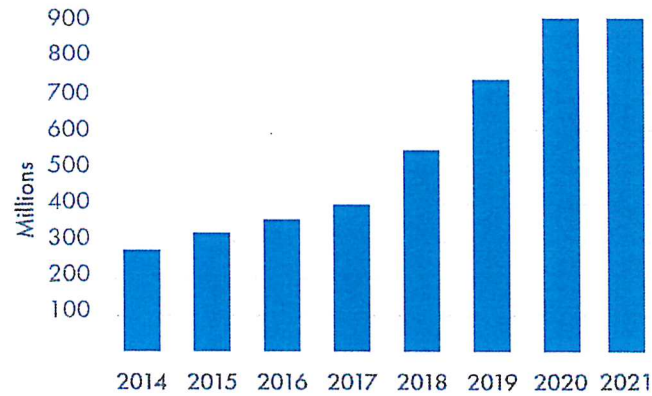
\$892 million

FY21 Capital Expenditures

\$5.5 million

Charitable Giving

CAPITAL EXPENDITURES



Overview

Our investment in system modernization and innovative leak detection technologies also helps to reduce our environmental impact.

- Natural gas plays a vital role in providing **environmentally responsible, affordable, reliable, and efficient energy** for generations to come.
- We provide our customers and communities with innovative technologies and energy solutions that reduce energy use and lower emissions.

50%
REDUCTION

Atmos Energy has a goal to reduce methane emissions by 50 percent from 2017 to 2035 from our distribution system mains and services.

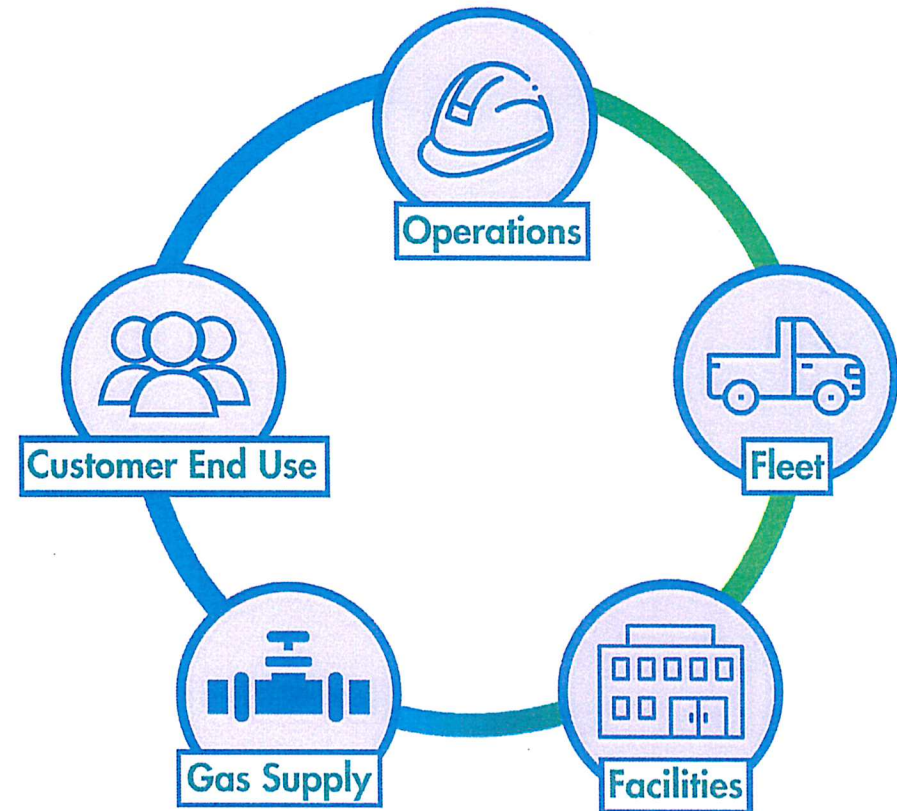


Environmental Strategy Supports a Lower Carbon Future

In 2021, we developed a comprehensive environmental strategy focused on reducing our environmental impacts from our operations, fleet, facilities, gas supply, and customer end-use.

We are implementing operating practices and solutions to reduce carbon from our operations through:

- Ongoing system modernization work
- Reducing third party damage to our system
- Improving monitoring and measuring of methane emissions
- Evaluating and implementing innovative technologies
- Investing in research and development
- Expanding programs to help customers lower carbon emissions



Building Zero Net Energy Homes

Atmos Energy is partnering with Habitat for Humanity to build natural gas fueled ZNE homes that demonstrate natural gas is part of the solution to achieve a low carbon energy future.

These homes will:

- achieve significant greenhouse gas emission reductions
- provide affordable energy bills
- partner with renewables to deliver reliable energy

Taylor, TX

- Taylor, TX
- Williamson County Habitat for Humanity
- Final certifications: HERS rating – 14, Indoor Air Plus, Energy Star
- 3 bed | 2 bath | 1,277 sq. ft.
- \$50 monthly energy bills (estimated)
- Construction complete. Home dedication ceremony April 27, 2022.



Dallas, TX

- Dallas Habitat for Humanity
- Anticipated certifications: HERS rating 0, Indoor Air Plus, Energy Star
- 3 bed | 2 bath | 1,400 sq. ft.
- \$50-\$75 monthly energy bills (estimated)
- Construction underway. Homebuilding kick off April 8, 2022.



Lubbock, TX

- Lubbock Habitat for Humanity
- Anticipated certifications: HERS rating 0, Indoor Air Plus, Energy Star
- 3 Homes: 3 bed | 2 bath | 1,700 sq. ft.
- \$50-\$75 monthly energy bills (estimated)
- Kickoff event, May 7, 2022.



Fueling Safe and Thriving Communities

Whether it is reading to students, working with local food banks, or showing appreciation to our hometown heroes, our employees have always invested in the communities we call home.



Natural Gas: The Smart Energy Choice

Energy is a key driver of our economy and essential for thriving families. It takes a diverse mix of energy sources working together to ensure reliability, keep costs affordable, and drive economic growth.

5.2 million
Texas homes and businesses have natural gas.

\$548

Average annual savings of a home with natural gas in Texas compared to an all-electric home.

27%

Texas households that qualified for federal assistance in 2021.

Overview

Our number one priority is the safety of our employees, the public, and our natural gas distribution system.

- Our vision is to be the **safest provider of natural gas services** and we are doing our part to replace the nation's aging natural gas delivery network.
- Over the last 10 years, we have invested **\$10 billion to modernize** our pipeline infrastructure and have committed to spending \$11 to \$12 billion over the next five years.



Delivering Natural Gas

There are three segments of the natural gas industry involved in delivering natural gas to our customers.

Production

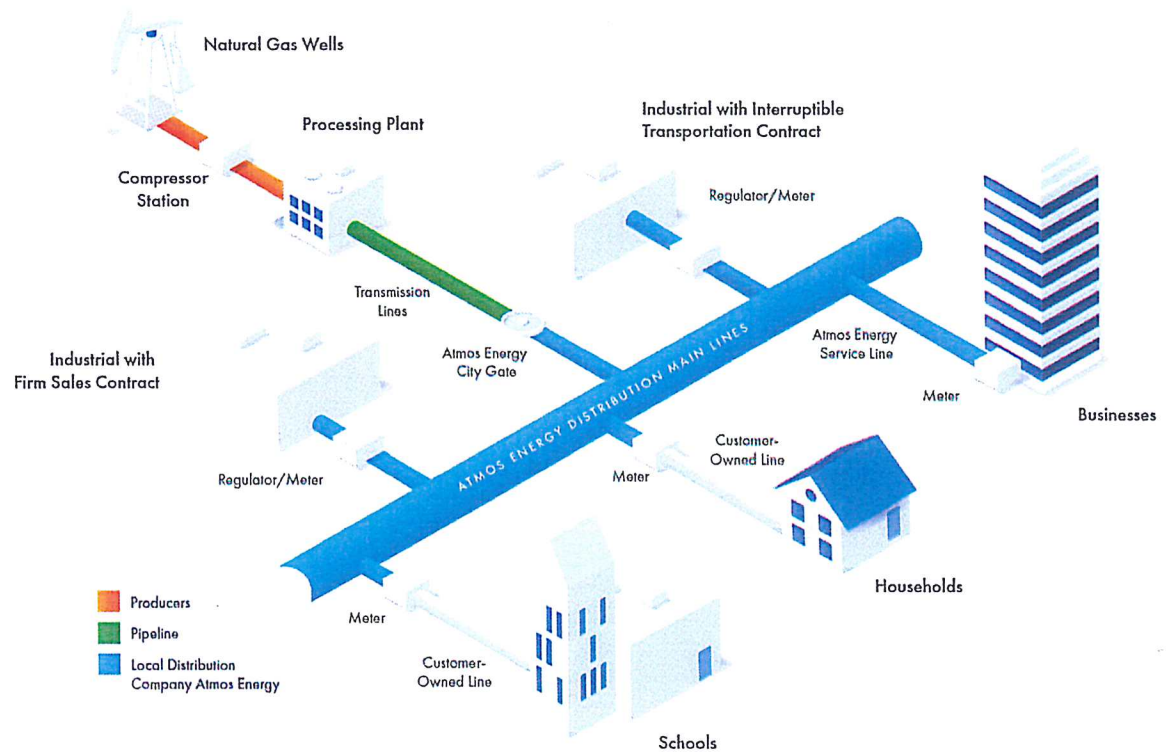
Production companies explore, drill, and extract natural gas from underground.

Transmission

Transmission companies operate pipelines that link natural gas fields to communities.

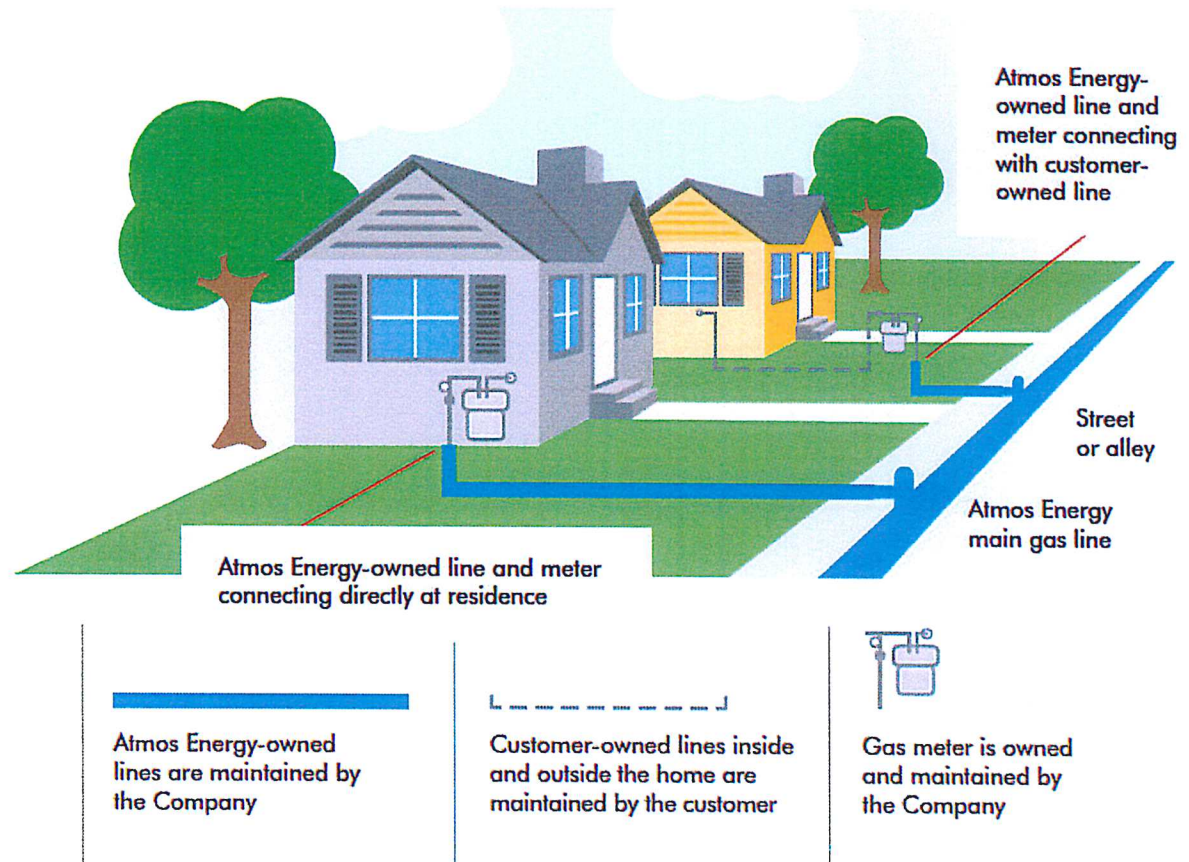
Distribution

We are the distribution company. This means we purchase natural gas, receive it from transmission companies, and deliver it to the natural gas meters at our customers' homes.



Homeowner Safety

Our communities are safer when customers understand how to safely use the natural gas we deliver to their homes. That's why we're continually educating the public about how to detect leaks and prevent accidents.



Smell gas? Act fast!

Natural gas in its original form has no smell or color. That's why we add a distinctive "rotten egg" or skunk-like odor to make you aware if gas is leaking.

Rosie the Skunk is our safety ambassador that reminds you to use all of your senses when detecting a natural gas leak.



Rosie the Skunk's

Natural Gas

SAFETY GUIDE

We use natural gas for lots of things, like heating our homes or cooking dinner. While natural gas is an affordable and efficient energy source, it can be dangerous if there is a gas leak. Knowing how to detect and deal with a gas leak in your home could help you save the day!

SMELL



Natural gas has a smelly odor like rotten eggs.

LOOK



You might also notice blowing dirt, a cloud of vapor, or bubbling water near a gas line.

LISTEN



A hissing or blowing sound near a gas line might indicate a leak.

IF YOU SUSPECT A LEAK

ALWAYS

Leave immediately! Then tell an adult and call 911 and Atmos Energy at 866-322-8667.

NEVER

Turn anything on or off, use the phone near a leak, or do anything to cause a spark.

ATMOS
energy.

Leak Detection Technology

Atmos Energy reviews advances in technology and incorporates them as appropriate for leak detection and monitoring.

- This includes state-of-the-art technologies for leak detection, monitoring, and leak repair prioritization.
- We use the best available monitoring methods for safety and to better serve our customers, including advanced mobile detection technology for surveying our distribution system that is 1,000 times more sensitive than traditional technologies.



Leak Detection and Monitoring

We operate our system safely and in full compliance with state and federal regulations.

- We do this by **monitoring our system**, utilizing state-of-the-art equipment, and operating an emergency hotline 24 hours a day, seven days a week.
- Every working day of the year, company employees are performing **regularly scheduled leak surveys of our system**, the frequency of which is governed by state and federal regulations.
- To determine the schedule for pipeline replacements, we use a risk-based prioritization model that considers factors such as the pipe's age, location, material, leak history, environmental factors, and more.
- **Leak surveys** are one of the most important safety activities we conduct as part of our normal operations. When we detect a leak, we grade it 1, 2, or 3, according to state and federal regulations. This grade determines a leak's repair schedule. When a grade 1 (hazardous leak) is reported, immediate action is taken to eliminate the hazard. Grade 2 and 3 leaks are monitored and scheduled for repair.

LEAK GRADES

Grade 1

Leaks which represent an immediate hazard to persons and/or property.

Grade 2

Leaks recognized as being nonhazardous at the time of detection but having the potential to become a future hazard.

Grade 3

Leaks that are nonhazardous at the time of detection and can be expected to remain nonhazardous.

Damage Prevention

The most common cause of outside natural gas leaks is excavation that damages natural gas pipelines.

Call 811 Before You Dig

- Natural gas safety is a partnership, so we want everyone to **understand the importance of calling 811** before building a deck, planting a tree, installing a fence, or digging for any other project.
- Calling 811 is free, it's safe, and it's required by law — helping to protect millions of miles of underground utility lines that are vital to everyday life.



Gus the Gopher is our natural gas safety ambassador that reminds you to always call 811 before digging!

Thank you.

CONTACT INFO

Tammie.Bowman@atmosenergy.com

254.662.7448

ORDINANCE NO: 5-23-2024-2

AN ORDINANCE GRANTING TO ATMOS ENERGY CORPORATION, A TEXAS AND VIRGINIA CORPORATION, ITS SUCCESSORS AND ASSIGNS, A FRANCHISE TO CONSTRUCT, MAINTAIN, AND OPERATE PIPELINES AND EQUIPMENT IN THE CITY OF BRUCEVILLE-EDDY, MCLENNAN AND FALLS COUNTIES, TEXAS, FOR THE TRANSPORTATION, DELIVERY, SALE, AND DISTRIBUTION OF GAS IN, OUT OF, AND THROUGH SAID CITY FOR ALL PURPOSES; PROVIDING FOR THE PAYMENT OF A FEE OR CHARGE FOR THE USE OF THE PUBLIC RIGHTS-OF-WAYS; AND PROVIDING THAT SUCH FEE SHALL BE IN LIEU OF OTHER FEES AND CHARGES, EXCEPTING AD VALOREM TAXES; REPEALING ALL PREVIOUS GAS FRANCHISE ORDINANCES; PROVIDING SEVERABILITY; AN OPEN MEETINGS CLAUSE AND EFFECTIVE DATE.

WHEREAS, the City of Bruceville-Eddy (the “City”) is the owner of valuable public rights of way which have been utilized by Atmos Energy Corporation and its predecessors pursuant to a Franchise issued by the City; and

WHEREAS, the City is legally authorized to regulate and franchise the use of City owned rights of way; and

WHEREAS, all legal prerequisites for the passage of this Ordinance have been met, including but not limited to the requirements of the Texas Open Meetings Act; and

WHEREAS, the City Council of the City of Bruceville-Eddy (the “City Council”) has found that the passage of this Ordinance serves the best interests of the health, safety, and welfare of the public.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF BRUCEVILLE-EDDY, TEXAS:

SECTION 1: FINDINGS INCORPORATED. The findings set forth above are incorporated into the body of this Ordinance as if fully set forth herein.

SECTION 2. GRANT OF AUTHORITY: The City of Bruceville-Eddy, Texas, hereinafter called "City," hereby grants to Atmos Energy Corporation, Mid-Tex Division, hereinafter called "Atmos Energy," its successors and assigns, consent to use and occupy the present and future streets, alleys, highways, public utility easements, public ways and other public places ("Public Rights-of-Way"), for the purpose of laying, maintaining, constructing, protecting, operating , and replacing therein and thereon pipelines and all other appurtenant equipment (the "System") to deliver, transport, and distribute gas in, out of, and through City

for persons , firms , and corporations, including all the general public, and to sell gas to persons, firms, and corporations, including all the general public, within the City corporate limits, as such limits may be amended from time to time during the term of this franchise, said consent being granted for a term ending December 31, 2048.

SECTION 3. CONSTRUCTION , MAINTENANCE . OPERATION & RELOCATION OF ATMOS ENERGY FACILITIES:

- A. Atmos Energy shall lay, maintain, construct, operate, and replace its pipes, mains, laterals, and other equipment in compliance with the ordinances, rules and regulations of the City that are not in conflict with this ordinance in order to minimize interference with traffic, place or cause to be placed appropriate barriers to mark excavations or obstructions, and restore to approximate original condition all Public Rights-of-way that it may disturb at the cost of Atmos Energy. Atmos Energy shall repair any defects in restoration related to its activity in the Public Right-of-way for a period of one year. Public Right-of-way shall not be encumbered longer than necessary to execute the work. In determining the location of the facilities of the City and other users of Public Right-of-way within City, City shall minimize interference with then existing facilities of Atmos Energy and shall require other users of Public Rights-of-way to minimize interference with existing facilities of Atmos Energy. The location of all mains, pipes, laterals and other appurtenant equipment shall be fixed under the supervision of the City Engineer or designee. In the event of a conflict between the location of the proposed facilities of Atmos Energy and the location of the existing facilities of City or other users of Public Rights-of-way within Public Rights-of-way that cannot otherwise be resolved, City or an authorized agent of City shall resolve the conflict and determine the location of the respective facilities within the Public Rights-of-Way. Unless otherwise specifically addressed in this ordinance, City shall retain all the powers of regulation of its streets and alleys given to it either by the Constitution of this State and/or by general law.

Atmos Energy or contractors working on behalf of Atmos Energy shall not be required to pay for street cutting, street excavation or other special permits related to excavations

in Public Rights-of-way in connection with Atmos Energy's operations in Public Rights-of-Way. City shall provide Atmos Energy with its annual capital improvements plan as well as any updates or changes as soon as the plan, update, or change becomes available. City shall notify Atmos Energy as soon as reasonably possible of any projects that will affect Atmos Energy's facilities located in the Public Rights-of-Way. When required by City to remove or relocate its mains, laterals, and/or other facilities lying within Public Rights-of-way, Atmos Energy shall do so as soon as practically possible with respect to the scope of the project. Unless otherwise agreed, Atmos Energy shall not be required to remove or relocate its facilities in less than thirty (30) days from the time notice is given to Atmos Energy by the City.

- B. If City, in constructing its sewers, drainage, water lines, Public Rights-of-way, or utilities, should request that Atmos Energy remove or relocate its mains, laterals, and other facilities lying within Public Rights-of-way, Atmos Energy shall do so at its own expense for facilities that are in conflict, unless such work is for the primary purpose of beautification or to accommodate a private developer. Facilities are deemed to be in conflict to the extent that the proposed City facilities are determined by Atmos Energy to be inconsistent with gas distribution industry standard safe operating practices for existing facilities. Except in extraordinary circumstances and by written agreement of Atmos Energy and the City, Atmos Energy shall not be required to relocate facilities to a depth of greater than four (4) feet or the current depth of the facilities that are to be relocated, whichever is greater.

When Atmos Energy is required by City to remove or relocate its mains, laterals, and other facilities lying within Public Rights-of-way to accommodate a request by City, and costs of utility removals or relocations are eligible under federal, state, county, local or other programs for reimbursement of costs and expenses incurred by Atmos Energy as a result of such removal or relocation, and such reimbursement is required to be handled through City, Atmos Energy costs and expenses shall be included in any application by City for reimbursement if Atmos Energy submits its cost and expense

documentation to City prior to the filing of the application. City shall provide reasonable written notice to Atmos Energy of the deadline for Atmos Energy to submit documentation of the costs and expenses of such relocation to City. Upon receipt of reimbursement from a federal or state agency, the City shall remit to Atmos Energy, within thirty (30) days of receipt, its portion related to the relocation or removal of its facilities.

If Atmos Energy is required by City to remove or relocate its mains, laterals, or other facilities lying within Public Rights-of-way for any reason other than the construction or reconstruction of sewers, drainage, water lines, Public Rights-of-way or utilities by City, Atmos Energy shall be entitled to reimbursement from City or others of the cost and expense of such removal or relocation.

- C. When Atmos Energy is required to remove or relocate its mains, laterals or other facilities to accommodate construction by City without reimbursement from City, Atmos Energy shall have the right to seek recovery of relocation costs as provided for in applicable state and/or federal law. Nothing herein shall be construed to prohibit, alter, or modify in any way the right of Atmos Energy to seek or recover a surcharge from customers for the cost of relocation pursuant to applicable state and/or federal law. City shall not oppose recovery of relocation costs when Atmos Energy is required by City to perform relocation. City shall not require that Atmos Energy document request for reimbursement as a pre-condition to recovery of such relocation costs. Notwithstanding any provision of this agreement, the City shall have the right to participate and challenge any other capital costs or expenses of Atmos Energy and request full documentation to the full extent provided by state law. If City requires relocation and Atmos Energy is not reimbursed this shall be considered as evidence of the relocation's necessity for regulatory purposes.
- D. If City abandons any Public Rights-of-way in which Atmos Energy has facilities, such abandonment shall be conditioned on Atmos Energy's right to maintain its use of the former Public Right-of-way and on the obligation of the party to whom the Public Right-of-way is abandoned to reimburse Atmos Energy for all removal or

relocation expenses if Atmos Energy agrees to the removal or relocation of its facilities following abandonment of the Public Right-of-way. If the party to whom the Public Right-of-way is abandoned requests Atmos Energy to remove or relocate its facilities and Atmos Energy agrees to such removal or relocation, such removal or relocation shall be done within a reasonable time at the expense of the party requesting the removal or relocation. If relocation cannot practically be made to another Public Right-of-way, the expense of any Right-of-way acquisition shall be considered a relocation expense to be reimbursed by the party requesting the relocation.

SECTION 4. INDEMNITY & INSURANCE: Atmos Energy shall fully indemnify and save harmless the City from any and all damage, loss, action or cause of action arising in whole or in part from Atmos Energy's exercise of any of its rights, privileges, franchises and obligations hereunder, except to the extent arising out of the City's negligence or willful misconduct. In the event of joint and concurrent negligence or fault of both Atmos Energy and the City, responsibility and indemnity, if any, shall be apportioned comparatively in accordance with the laws of the State of Texas without, however, waiving any governmental immunity available to the City under Texas law and without waiving any of the defenses of the parties under Texas law. It is understood that it is not the intention of the parties hereto to create liability for the benefit of third parties, but that this section shall be solely for the benefit of the parties hereto and shall not create or grant any rights, contractual or otherwise, to any person or entity.

Atmos Energy shall, at its sole cost and expense, obtain, maintain, and provide, throughout the term of this Franchise Agreement, insurance or self-insurance against all claims for injuries to person or damages to property that may arise from or in connection with the exercise of the rights, privileges and authority granted hereunder to Atmos, its agents, representatives or employees in accordance with the following minimum coverage:

- A. Commercial general or excess liability on an occurrence or claims made from with minimum limits of five million dollars (\$5,000,000.00) per occurrence and ten million dollars (\$10,000,000.00) aggregate. To the extent that coverage is maintained on a claims made

form, the minimum limits are ten million dollars (\$10,000,000.00) per occurrence and twenty million dollars (\$20,000,000.00) aggregate. This coverage shall include the following:

- a. Products/completed operations to be maintained for two (2) years;
 - b. Personal and advertising injury;
 - c. Contractual liability; and,
 - d. Explosion, collapse, or underground hazards
- B. Automobile liability coverage with a minimum policy limit of one million dollars (\$1,000,000.00) combined single limit. This coverage shall include all owned, hired and non-owned automobiles.
- C. Workers' compensation and employers' liability coverage. Statutory coverage limits for Coverage A and five hundred thousand dollars (\$500,000.00) Coverage B employers' liability is required.
- D. Atmos Energy will provide the necessary proof of insurance within 30 days of the effective date of this Franchise Agreement. Atmos will not be required to furnish separate proof when applying for permits. Atmos will provide 30 days advance written notice to City of cancellation or material reduction of the insurance policies.
- E. Atmos Energy's insurance of its obligations and risks undertaken pursuant to this franchise may be in the form of self-insurance to the extent permitted by applicable law, under an Atmos Energy plan of self-insurance maintained in accordance with sound accounting and risk-management practices.

SECTION 5. NON-EXCLUSIVE FRANCHISE: The rights, privileges, and franchises granted by this ordinance are not to be considered exclusive, and City hereby expressly reserves the right to grant, at any time, like privileges, rights, and franchises as it may see fit to any other person or corporation for the purpose of transporting, delivering, distributing, or selling gas to and for City and the inhabitants thereof.

SECTION 6. PAYMENTS TO CITY:

- A. Atmos Energy, its successors and assigns, agrees to pay and City agrees to accept, on or before the 1st day of August, 2024, and on or before the same day of each succeeding year during the term of this franchise the last payment being made on the 1st day of August, 2048, a sum of money which shall be equivalent to four percent (4%) of the Gross Revenues, as defined in 5.8 below, received by Atmos Energy during the preceding calendar year.
- B. "Gross Revenues" shall mean:
- (1) all revenues received by Atmos Energy from the sale of gas to all classes of customers within the City;
 - (2) all revenues received by Atmos Energy from the transportation of gas through the System of Atmos Energy within the City to customers located within the City;
 - (3) the value of gas transported by Atmos Energy for Transport Customers through the System of Atmos Energy within the City ("Third Party Sales"), with the value of such gas to be established by utilizing Atmos Energy's monthly Weighted Average Cost of Gas charged to industrial customers in the Mid-Tex division, as reasonably near the time as the transportation service is performed; and
 - (4) "Gross Revenues" shall also include fees collected pursuant to this Agreement and include the following "miscellaneous charges": State gross receipts, charges to connect, disconnect, or reconnect gas and charges to handle returned checks from consumers within the City, and revenues billed but not ultimately collected or received by Atmos Energy.

(5) "Gross Revenues" shall not include:

- (a) contributions in aid of construction;
- (b) the revenue of any affiliate or subsidiary of Atmos Energy;
- (c) sales tax paid to the City;
- (d) interest or investment income earned by Atmos Energy; and
- (e) monies received from the lease or sale of real or personal property, provided, however, that this exclusion does not apply to the lease of facilities within the City's right of way.
- (f) any revenues related to the value of gas sold or transported to another gas utility not affiliated with Atmos Energy that resells the gas to customers within the City of Bruceville-Eddy.

C. The initial payment for the rights and privileges herein provided shall be for the privilege period January 1 through December 31, 2024, and each succeeding payment shall be for the privilege period of the calendar year in which the payment is made.

It is also expressly agreed that the aforesaid payments shall be in lieu of any and all other and additional occupation taxes, easement, franchise taxes or charges (whether levied as an ad valorem, special, or other character of tax or charge), municipal license, permit, and inspection fees, bonds, street taxes, and street or alley rentals or charges, and all other and additional municipal taxes, charges, levies, fees, and rentals of whatsoever kind and character that City may now impose or hereafter levy and collect from Atmos Energy or Atmos Energy's agents, excepting only the usual general or special ad valorem taxes that City is authorized to levy and impose upon real and personal property. If the City does not have the legal power to agree that the payment of the foregoing sums of money shall be in lieu of taxes, licenses, fees, street or alley rentals or charges, easement or franchise taxes or charges aforesaid, then City agrees that it will apply so much of said sums of money paid as may be necessary to satisfy Atmos Energy's obligations, if any, to pay any such taxes, licenses, charges, fees, rentals, easement or franchise taxes or charges aforesaid.

D. Effect of Other Municipal Franchise Ordinance Fees Accepted and Paid by Atmos Energy

If Atmos Energy should at any time after the effective date of this Ordinance agree to a new municipal franchise ordinance, or renew an existing municipal franchise ordinance, with another municipality in Atmos Energy's Mid-Tex Division, which municipal franchise ordinance determines the franchise fee owed to that municipality for the use of its public Rights-of-way in a manner that, if applied to the City, would result in a franchise fee greater than the amount otherwise due City under this Ordinance, then the franchise fee to be paid by Atmos Energy to City pursuant to this Ordinance may, at the election of the City, be increased so that the amount due and to be paid is equal to the amount that would be due and payable to City were the franchise fee provisions of that other franchise ordinance applied to City. The City acknowledges that the exercise of this right is conditioned upon the City's acceptance of all terms and conditions of the other municipal franchise *in toto*. The City may request waiver of certain terms and Atmos Energy may grant, in its sole reasonable discretion, such waiver. Such waiver shall not be withheld except for good cause. Requesting such waiver shall not bind the City to a decision to accept or reject any franchise ordinance terms.

E. Atmos Energy Franchise Fee Recovery Tariff

- (1) Atmos Energy may file with the City a tariff or tariff amendment(s) to provide for the recovery of the franchise fees under this agreement.
- (2) City agrees that (i) as regulatory authority, it will adopt and approve the ordinance, rates or tariff which provide for 100% recovery of such franchise fees as part of Atmos Energy's rates; (ii) if the City intervenes in any regulatory proceeding before a federal or state agency in which the recovery of Atmos Energy ' s franchise fees is an issue, the City will take an affirmative position supporting 100% recovery of such franchise fees by Atmos Energy and; (iii) in the event of an appeal of any such regulatory proceeding in which the City has intervened , the City will take an affirmative position in any such appeals in support of the 100% recovery of such franchise fees by Atmos

Energy.

- (3) City agrees that it will take no action, nor cause any other person or entity to take any action, to prohibit the recovery of such franchise fees by Atmos Energy.

- F. Lease of Facilities Within City's Rights-of-Way. Atmos Energy shall have the right to lease, license or otherwise grant to a party other than Atmos Energy the use of its facilities within the City's public Rights-of-way provided: (i) Atmos Energy first notifies the City of the name of the lessee, licensee or user; the type of service(s) intended to be provided through the facilities; and the name and telephone number of a contact person associated with such lessee, licensee or user and (ii) Atmos Energy makes the franchise fee payment due on the revenues from such lease pursuant to Section 6 of this Ordinance. This authority to Lease Facilities within City' s Rights-of-way shall not affect any such lessee, licensee or user's obligation, if any, to pay franchise fees.
- G. City shall give Atmos Energy notice of annexations and disannexations of territory by the City, which notice shall include a map and addresses, if known. Upon receipt of said notice, Atmos Energy shall promptly initiate a process to reclassify affected customers into the city limits no later than sixty (60) days after receipt of notice from the City. The annexed areas added to the city limits will be included in future franchise fee payments in accordance with the sales tax effective date of the annexation if notice was timely received from City. Upon request from City, Atmos Energy will provide documentation to verify that affected customers were appropriately reclassified and included for purposes of calculating franchise fee payments. In no event shall Atmos Energy be required to add premises for the purposes of calculating franchise payment prior to the earliest date that the same premises are added for purposes of collecting sales tax.
- H. If Atmos Energy fails to pay when due any payment provided for in this Section, Atmos Energy shall pay such amount plus interest consistent with the rate for customer deposits under Texas Utilities Code Section 183.003 from such due date until payment is received by City.

SECTION 7. BOOKS AND RECORDS:

- A. City may, if it sees fit, upon reasonable notice to Atmos Energy, have the books and records of Atmos Energy examined by a representative of said City to ascertain the correctness of the reports agreed to be filed herein. Atmos Energy shall make available, during normal working hours and upon reasonable notice, such personnel and records as City may in its reasonable discretion request in order to complete such audit, and shall make no charge to the City therefore. Atmos Energy shall assist City in its review by providing all requested information no later than 15 business days after receipt of a request. The cost of the audit shall be borne by City unless the audit discloses that Atmos Energy has underpaid the franchise fee by ten (10) percent or more, in which case the reasonable costs of the audit shall be reimbursed to the City by Atmos Energy. If such an examination reveals that Atmos Energy has underpaid City, then upon receipt of written notification from City regarding the existence of such underpayment, Atmos Energy shall undertake a review of City's claim and if said underpayment is confirmed, remit the amount of underpayment to City. Should Atmos Energy determine through examination of its books and records that City has been overpaid, upon receipt of written notification from Atmos Energy regarding the existence of such overpayment, City shall review Atmos Energy's claim and if said overpayment is confirmed, remit the amount of overpayment to Atmos Energy.

If Atmos Energy provides confidential or proprietary information to the City, Atmos Energy shall be solely responsible for identifying such information with markings calculated to bring the City's attention to the proprietary or confidential nature of the information. City agrees to maintain the confidentiality of any non-public information obtained from Atmos Energy so designated to the extent allowed by law. City shall not be liable to Atmos Energy for the release of any information City is required to release by law. If City receives a request under the Texas Public Information Act that includes Atmos Energy's document(s) of a proprietary or confidential nature, City will request an opinion from the Texas Attorney General as to the confidential or the proprietary nature of the document(s). City also will provide Atmos Energy with a copy of this request, and thereafter Atmos Energy is responsible for establishing that an exception under the Texas Public Information Act allows City to withhold the information.

SECTION 8. ACCEPTANCE OF FRANCHISE: In order to accept this franchise, Atmos Energy must file with the City Secretary its written acceptance of this franchise ordinance within sixty (60) days after its final passage and approval by City. If such written acceptance of this franchise ordinance is not filed by Atmos Energy, the franchise ordinance shall be rendered null and void.

When this franchise ordinance becomes effective, all previous ordinances of City granting franchises for gas delivery purposes that were held by Atmos Energy shall be automatically canceled and annulled, and shall be of no further force and effect.

SECTION 9. TERMINATION:

A. Right to Terminate.

In addition to any rights set out elsewhere in this Ordinance, City reserves the right to terminate the Franchise and all rights and privileges pertaining thereto, in the event that Atmos Energy violates any material provision of the Franchise.

B. Procedures for Termination.

- (1) City may, at any time, terminate this Franchise for a continuing material violation by Atmos Energy of any of the substantial terms hereof. In such event, City shall give to Atmos Energy written notice, specifying all grounds on which termination or forfeiture is claimed, by registered mail, addressed and delivered to Atmos Energy at the address set forth in Section 14 hereof. Atmos Energy shall have sixty (60) days after the receipt of such notice within which to cease such violation and comply with the terms and provisions hereof. In the event Atmos Energy fails to cease such violation or otherwise comply with the terms hereof, then Atmos Energy's Franchise is subject to termination under the following provisions. Provided, however, that if Atmos Energy commences work or other efforts to cure such violations within thirty (30) days after receipt of written notice and shall thereafter prosecute such curative work with reasonable diligence until such curative work is completed, then such violations shall cease to exist, and the Franchise will not be terminated.
- (2) Termination shall be declared only by written decision of the City Council after an appropriate public proceeding whereby Atmos Energy is afforded the full opportunity to

be heard and to respond to any such notice of violation or failure to comply. Atmos Energy shall be provided at least fifteen business (15) days prior written notice of any public hearing concerning the termination of the Franchise. In addition, ten (10) days' notice by publication shall be given of the date, time and place of any public hearing to interested members of the public.

- (3) City, after full public hearing, and upon finding material violation or failure to comply, may terminate the Franchise or excuse the violation or failure to comply, upon a showing by Atmos Energy of mitigating circumstances or upon a showing of good cause of said violation or failure to comply as may be determined by the City Council.
- (4) Nothing herein stated shall preclude Atmos Energy from appealing the final decision of the City Council to a court or regulatory authority having jurisdiction.
- (5) Nothing herein stated shall prevent City from seeking to compel compliance by suit in any court of competent jurisdiction if Atmos Energy fails to comply with the terms of this Franchise after due notice and the providing of adequate time for Atmos Energy to comply with said terms.

SECTION 10. NO THIRD-PARTY BENEFICIARIES: This Franchise is made for the exclusive benefit of the City and Atmos Energy, and nothing herein is intended to, or shall confer any right, claim, or benefit in favor of any third party.

SECTION 11. SUCCESSORS AND ASSIGNS:

A. The rights granted by this franchise inure to the benefit of the Atmos Energy. The Atmos Energy may, without consent by City, transfer or assign the rights granted by this franchise to a parent, subsidiary or affiliate, provided that such parent, subsidiary or affiliate assumes all obligations of Atmos Energy hereunder and is bound to the same extent as Atmos Energy hereunder, and has net capital and liquid assets reasonably equivalent to Atmos Energy's as of the month immediately preceding the transfer or there are provided other guarantees or assurances of the transferee's or assignee's financial ability to perform this franchise reasonably acceptable to the City. Atmos Energy shall give City written notice thirty (30) days prior to such assignment.

B. City will have the right to approve the transfer or assignment of the franchise, except as provided in Section 11.A. above. City shall grant approval unless the Assignee is materially weaker

than Atmos Energy. For the purpose of this section, “materially weaker” means that the long term unsecured debt rating of the Assignee is less than investment grade as rated by both S&P and Moody’s rating. If the Assignee is materially weaker, the City may request additional documents and information reasonably related to the transaction and the legal, financial, and technical qualifications of the Assignee. The City will grant approval to a materially weaker proposed Assignee or Transferee unless withheld for good cause. City agrees that said approval shall not be unreasonably delayed. Any such assignment or transfer shall require that said Assignee assume all obligations of Atmos Energy and be bound to the same extent as Atmos Energy hereunder. If within the first 90 days after assignment to Assignee, City identifies a failure to comply with a material provision of this franchise, City shall have the right, after notice and opportunity for hearing before Council, to terminate this franchise.

SECTION 12. COMPLIANCE WITH LAWS AND ORDINANCES: This Franchise is granted subject to the laws of the United States of America and its regulatory agencies and commissions and the laws of the State of Texas and all other generally applicable ordinances of the City of Bruceville-Eddy, not inconsistent herewith, including, but not limited to, ordinances regulating the use of Public Right-of-way, as amended.

SECTION 13. NO WAIVER: Either City or Atmos Energy shall have the right to waive any requirement contained in this Ordinance, which is intended for the waiving party's benefit, but, except as otherwise provided herein, such waiver shall be effective only if in writing executed by the party for whose benefit such requirement is intended. No waiver of any breach or violation of any term of this Ordinance shall be deemed or construed to constitute a waiver of any other breach or violation, whether concurrent or subsequent, and whether of the same or a different type of breach or violation.

SECTION 14. NOTICES: Any notices required or desired to be given from one party to the other party to this Ordinance shall be in writing and shall be given and shall be deemed to have been served and received if: (1) delivered in person to the address set forth below; (2) deposited in an official depository under the regular care and custody of the United States Postal Service located within the confines of the United States of America and sent by certified mail, return receipt requested, and addressed to such party at the address hereinafter specified; or (3) delivered to such party by courier receipted delivery. Either party may designate another address within the confines of the continental United States of America for notice, but until written notice of such change is actually received by the

other party, the last address of such party designated for notice shall remain such party's address for notice.

To City of Bruceville-Eddy
Attn: City Administrator
144 Wilcox Dr
Eddy, Texas 76524

With a copy to:
Messer, Fort, P.L.L.C.
Attn: City Attorney
4201 W. Parmer Lane, Bldg. C, Ste. 150
Austin, Texas 78729

To Atmos Energy:
Attn: Manager of Public Affairs
Atmos Energy Corp.
Mid-Tex Division
1500 W Loop 340
Waco, Texas 76712

SECTION 15. RENEGOTIATION: If either City or Atmos Energy requests renegotiation of any term of this Ordinance, Atmos Energy and City agree to renegotiate in good faith revisions to any and all terms of this Ordinance. If the parties cannot come to agreement upon any provisions being renegotiated, then the existing provisions of this Ordinance will continue in effect for the remaining term of the Franchise.

SECTION 16. PREVIOUS ORDINANCES: When this Franchise becomes effective, all gas franchise ordinances and parts of franchise ordinances applicable to Atmos Energy or its predecessors in interest granted by the City of Bruceville-Eddy, Texas, are hereby repealed.

SECTION 17. SEVERABILITY: Should any section, subsection, sentence, clause or phrase of this Ordinance be declared unconstitutional or invalid by a court of competent jurisdiction, it is expressly provided that any and all remaining portions of this Ordinance shall remain in full force and effect. Bruceville-Eddy hereby declares that it would have passed this Ordinance, and each section, subsection, clause or phrase thereof irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional or invalid.

SECTION 18. PARAGRAPH HEADINGS. CONSTRUCTION: The paragraph headings contained in this ordinance are for convenience only and shall in no way enlarge or limit the scope or meaning of the various and several paragraphs hereof. Both parties have participated in the preparation of this ordinance and this ordinance shall not be construed either more or less strongly against or for either party.

SECTION 19. OPEN MEETING: That it is hereby officially found and determined that the meeting at which this Ordinance was passed was open to the public as required by law, and that public notice of the time, place, and purpose of said meeting was given all as required by Section 551.041, Texas Government Code.

SECTION 20. EFFECTIVE DATE: If Atmos Energy accepts this ordinance, it becomes effective as of January 1 , 2024.

PASSED AND APPROVED on this the _____ day of _____, 2024.

ATTEST:

Pam Combs, City Secretary

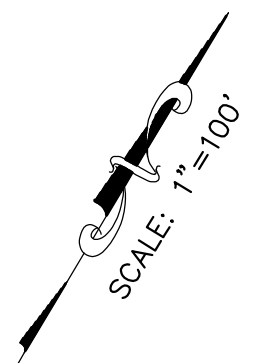
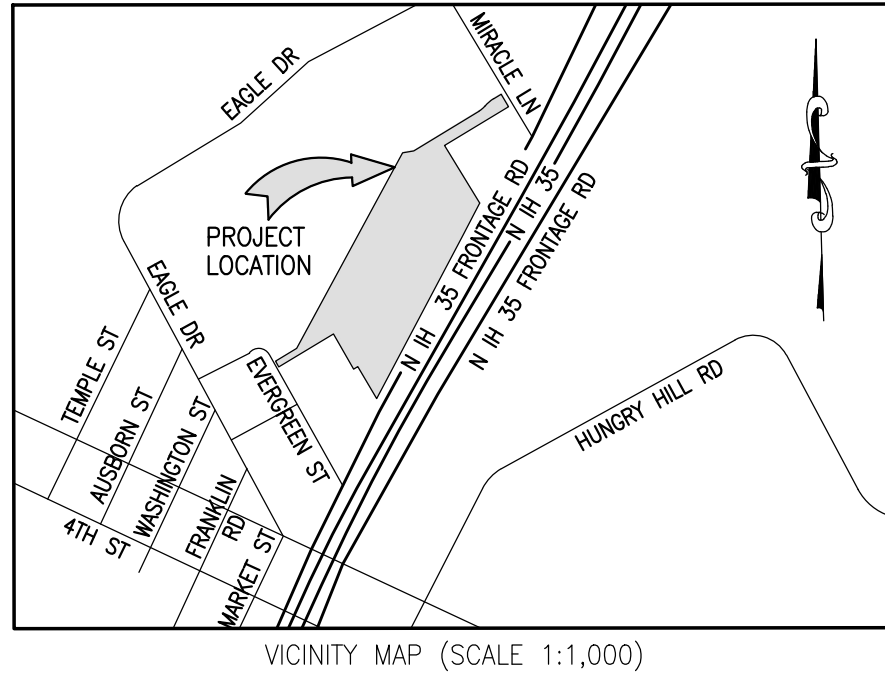
Linda Owens, Mayor
City of Bruceville-Eddy, Texas

STATE OF TEXAS §
COUNTY OF MCLENNAN
CITY OF BRUCEVILLE-EDDY §

I, Pam Combs, City Secretary of the City of Bruceville-Eddy, McLennan County, Texas, do hereby certify that the above and foregoing is a true and correct copy of an ordinance passed by the City Council of the City of Bruceville- Eddy, Texas, at _____ session, held on the _____ day of _____, 2024, as it appears of record in the Minutes in Book _____ page _____.

WITNESS MY HAND AND SEAL OF SAID CITY, this _____ day of
_____, 2024.

Pam Combs
City of Secretary
City of Bruceville-Eddy, Texas



LEGEND:

- P.O.B. POINT OF BEGINNING
- B.L. BUILDING LINE
- AC ACRES
- VOL. VOLUME
- PG. PAGE
- DOC. DOCUMENT
- U.E. UTILITY EASEMENT
- IRF IRON ROD FOUND
- IRS IRON ROD SET
- ROW RIGHT-OF-WAY
- DRMCCT DEED RECORDS OF MCLENNAN COUNTY TEXAS

PHYLLIS FISK AND KAREN WORTHAM
REMAINDER 54.449 ACRES
TRACT TWO
DOC.# 2017008683, DRMCCT

MARSHALL RAMBURGER AND WIFE
ARLETTE RAMBURGER
VOL. 1862, PAGE 247, OPRMCT

0.013 ROW DEDICATION

EVERGREEN STREET
ASPHALT, APPROX. 17.6' WIDE

GENERAL INFORMATION:
OWNER:
FIKES WHOLESALÉ INC.
6261 CENTRAL POINTE PKWY
TEMPLE, TEXAS 76504

ENGINEER/SURVEYOR:
TURLEY ASSOCIATES, INC.
301 N. 3RD STREET
TEMPLE, TEXAS 76501

TOTAL ACREAGE:.....19.474 ACRES
NUMBER OF LOTS:.....3 LOTS
NUMBER OF BLOCKS:.....1 BLOCK
SURVEY: LEVI PREWITT SURVEY, ABSTRACT NO. 723
SUBMITTAL DATE: 5/1/2024

WATER PROVIDED BY: BRUCEVILLE-EDDY WSC, CCN#11285
SEWER PROVIDED BY: ON-SITE SEWAGE FACILITY
ELECTRIC PROVIDED BY: ONCOR
SCHOOL DISTRICT: BRUCEVILLE-EDDY ISD

LOT 2
10.124 ACRES

LOT 3
7.681 ACRES

LOT 1
1.656 ACRES

BRUCEVILLE-EDDY HS BALL PARK
CALLED 2.0 ACRES
VOLUME 871, PAGE 67, DRMCCT

MIRACLE LANE
ASPHALT, APPROX. 17.0' WIDE
(PRIVATE ROADWAY)
JOE F. FRERICH
3.2615 ACRES
VOLUME 1833, PAGE 300

THIS PROPERTY IS WITHIN THE SPECIAL FLOOD HAZARD AREA AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION MAP NUMBER 48309C0675C, DATED SEPTEMBER 26, 2008.

THIS PROJECT IS REFERENCED IN NAD 1983 CENTRAL TEXAS STATE PLANE. ALL DISTANCES ARE HORIZONTAL SURFACE DISTANCES UNLESS NOTED.

ALL BOUNDARY CORNERS ARE 1/2" IRON ROD WITH CAP MARKED "RPLS 2475" FOUND UNLESS NOTED OTHERWISE.

REASON FOR THIS PLAT: TO CREATE 3 LOTS FOR COMMERCIAL USE.

DRAINAGE EASEMENT RESTRICTION (DER) - NO CONSTRUCTION, OR FILLING WITHOUT WRITTEN APPROVAL OF THE CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS SHALL BE ALLOWED WITHIN DRAINAGE EASEMENT. NO OBSTRUCTION OF THE NATURAL FLOW OF WATER SHALL OCCUR. ALL OWNERS OF PROPERTY AFFECTED BY SUCH CONSTRUCTION OR FILLING SHALL BE A PARTY TO THE REQUEST.

UTILITY EASEMENTS (UE) - ANY PUBLIC UTILITY, INCLUDING THE CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS SHALL HAVE THE RIGHT TO MOVE AND KEEP MOVED ALL OR PART OF ANY BUILDING, FENCES, TREES, SHRUBS, OTHER GROWTHS OR IMPROVEMENTS WHICH IN ANY WAY ENDANGER OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE, OR EFFICIENCY OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE, OR EFFICIENCY [SIC] OF ITS RESPECTIVE SYSTEMS ON ANY OF THE EASEMENTS FOR THE PURPOSE OF CONSTRUCTION, RECONSTRUCTION, INSPECTION, PATROLLING[,] MAINTAINING AND ADDING TO OR REMOVING ALL OR PART OF ITS RESPECTIVE SYSTEMS WITHOUT THE NECESSITY AT ANY TIME OF PROCURING THE PERMISSION OF ANYONE.

FINAL PLAT:

CEFCO #0047 ADDITION
19.474 ACRES
3 LOTS, 1 BLOCK

SITUATED IN THE LEVI PREWITT SURVEY, ABSTRACT NO. 723
CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS.

Curve #	Length	Radius	Chord
C1	224.93'	24740.28'	S27°35'47"W 224.93'
C2	48.56'	145.00'	N49°10'39"E 48.33'
C3	72.00'	215.00'	N49°10'39"E 71.67'

Line #	Direction	Length
L1	S60°46'40"W	30.00
L2	N30°06'36"W	39.73
L3	N79°51'28"E	69.35
L4	N58°46'18"E	53.34
L5	S31°10'08"E	90.38
L6	S30°06'36"E	39.76
L7	N58°53'40"E	14.46
L8	N58°48'49"E	14.46

TURLEY ASSOCIATES, INC
301 N. 3RD ST.
TEMPLE, TEXAS 76501
WWW.TURLEY-INC.COM
254-773-2400
ENGINEERING FIRM NO. 1658
SURVEY FIRM NO. 10056000

BEING A 19.474 ACRE TRACT OF LAND SITUATED IN THE LEVI PREWITT SURVEY, ABSTRACT NO. 723, MCLENNAN COUNTY, TEXAS AND BEING A PART OR PORTION OF THAT CERTAIN 15.041 ACRE TRACT OF LAND DESCRIBED IN A SPECIAL WARRANTY DEED DATED MARCH 28, 2012 FROM NANCY CECILE DEVINEY AND ELIZABETH JANE MIRACLE TO FIKES WHOLESale, INC., A TEXAS CORPORATION AND BEING OF RECORD IN DOCUMENT NO. 2012009501, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS AND BEING A PART OR PORTION OF THOSE CERTAIN TRACTS OF LAND DESCRIBED AS TRACT SIX - TRACT ONE (1.23 ACRES), TRACT SIX - TRACT TWO (2.06 ACRES), AND TRACT SIX - TRACT FOUR (0.603 ACRES) AND BEING ALL OF THAT CERTAIN TRACT OF LAND DESCRIBED AS TRACT SIX - TRACT THREE (1.156 ACRES) IN A SPECIAL WARRANTY DEED DATED DECEMBER 20, 2000 FROM STAR MARKETERS ACCEPTANCE CORP, A DELAWARE NON-STOCK CORPORATION TO FIKES WHOLESale, INC., A TEXAS CORPORATION AND BEING OF RECORD IN DOCUMENT NO. 2000039327, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS AND BEING ALL OF THAT CERTAIN 0.951 ACRE TRACT OF LAND DESCRIBED IN A SPECIAL WARRANTY DEED DATED AUGUST 26, 2015 FROM NANCY CECILE DEVINEY, A WIDOW TO FIKES WHOLESale, INC., A TEXAS CORPORATION AND BEING OF RECORD IN DOCUMENT NO. 2015027332, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A 1/2" IRON ROD FOUND BEING IN THE SOUTHEAST BOUNDARY LINE OF THE SAID 15.041 ACRE TRACT AND BEING THE NORTHWEST CORNER OF THE SAID 2.06 ACRE TRACT OF LAND (TRACT SIX - TRACT TWO) AND BEING THE NORTHEAST CORNER OF THAT CERTAIN 1.389 ACRE TRACT OF LAND DESCRIBED IN A WARRANTY DEED DATED SEPTEMBER 7, 2019 FROM MELVA WILLIAMS TO NELSON TABAREZ AND BEING OF RECORD IN DOCUMENT NO. 2019030105, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS FOR CORNER;

THENCE S. 58° 53' 40" W., 397.47 FEET DEPARTING THE SAID 2.06 ACRE TRACT (TRACT SIX - TRACT TWO) AND WITH THE SAID SOUTHEASTERLY BOUNDARY LINE (CALLS S. 58° 53' 40" W., 547.22 FEET) AND WITH THE NORTHWEST BOUNDARY LINE OF THE SAID 1.389 ACRE TRACT AND CONTINUING WITH THE NORTHWEST BOUNDARY LINE OF THAT CERTAIN 0.30 ACRE TRACT OF LAND DESCRIBED IN A CORRECTION AFFIDAVIT AS TO RECORDED ORIGINAL INSTRUMENT DATED AUGUST 14, 2015 FROM MARVIN LAFRENTZ TO VIVIAN WILLIAMS AND BEING OF RECORD IN DOCUMENT NO. 2015025481, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND BEING A SOUTHWEST ELL CORNER OF THE SAID 15.041 ACRE TRACT AND BEING THE APPARENT NORTHWEST CORNER OF THE SAID WILLIAMS TRACT AND BEING IN THE EASTERLY RIGHT-OF-WAY LINE OF EVERGREEN STREET AS MONUMENTED, FENCED AND FURTHER EVIDENCED ON THE GROUND AND BEING THE MOST WESTERLY SOUTHWEST CORNER OF THE SAID 15.041 ACRE TRACT FOR CORNER;

THENCE N. 30° 06' 36" W., 39.73 FEET DEPARTING THE SAID WILLIAMS TRACT AND WITH THE SAID EAST RIGHT-OF-WAY LINE AND WITH THE SOUTHWESTERLY BOUNDARY LINE OF THE SAID 15.041 ACRE TRACT (CALLS N. 30° 06' 36" W., W., 40.01 FEET) TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND BEING A NORTHWESTERLY CORNER OF THE SAID 15.041 ACRE TRACT FOR CORNER;

THENCE N. 58° 48' 03" E., 154.22 FEET DEPARTING THE SAID EAST RIGHT-OF-WAY LINE AND WITH THE NORTHWEST BOUNDARY LINE OF THE SAID 15.041 ACRE TRACT (CALLS N. 58° 53' 40" E., 154.07 FEET) AND PARTWAY WITH THE SOUTHEAST BOUNDARY LINE OF THAT CERTAIN REMAINDER 54.449 ACRE TRACT OF LAND (TRACT TWO) DESCRIBED IN A SPECIAL WARRANTY DEED RESERVING ENHANCED LIFE ESTATE DATED MARCH 17, 2017 FROM NANCY DEVINEY TO PHYLLIS FISK AND KAREN WORTHAM AND BEING OF RECORD IN DOCUMENT NO. 2017008683, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS TO A 1/2" IRON ROD FOUND FOR CORNER;

THENCE CONTINUING WITH THE SAID NORTHWEST BOUNDARY LINE AND THE SAID SOUTHEAST BOUNDARY LINE THE FOLLOWING TWO (2) CALLS:

1)N. 28° 27' 10" E., 1388.21 FEET (CALLS N. 28° 27' 21" E., 1388.24 FEET) TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND FOR CORNER;

2)N. 79° 51' 28" E., 69.35 FEET (CALLS N. 79° 50' 44" E., 264.69 FEET) TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND BEING THE MOST WESTERLY CORNER OF THE SAID 0.951 ACRE TRACT (DOCUMENT NO. 2015027332) FOR CORNER;

THENCE DEPARTING THE SAID 15.041 ACRE TRACT AND WITH THE NORTHWEST BOUNDARY LINE OF THE SAID 0.951 ACRE TRACT AND CONTINUING WITH THE SOUTHEAST BOUNDARY LINE OF THE SAID REMAINDER 54.449 ACRE TRACT THE FOLLOWING FOUR (4) CALLS:

1)N. 58° 46' 35" E., 478.07 FEET (CALLS N. 58° 46' 18" E., 478.08 FEET) TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND BEING AT THE BEGINNING OF A CURVE TO THE LEFT HAVING A RADIUS EQUALS 145.00 FEET (CALLS 145.00 FEET), CHORD BEARING EQUALS N. 49° 10' 39" E., 48.33 FEET (CALLS N. 49° 10' 39" E., 48.33 FEET) FOR CORNER;

2)48.56 FEET ALONG THE ARC OF SAID CURVE TO THE LEFT (CALLS 48.56 FEET) TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND BEING AT THE BEGINNING OF A CURVE TO THE RIGHT HAVING A RADIUS EQUALS 215.00 FEET (CALLS 215.00 FEET), CHORD BEARING EQUALS N. 49° 10' 39" E., 71.67 FEET (CALLS N. 49° 10' 39" E., 71.67 FEET) FOR CORNER;

3)72.00 FEET ALONG THE ARC OF SAID CURVE TO THE RIGHT (CALLS 72.00 FEET) TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" FOUND FOR CORNER;

4)N. 58° 46' 18" E., 53.34 FEET (CALLS N. 58° 46' 18" E., 53.34 FEET) TO A 1/2" IRON ROD FOUND BEING THE SOUTHEAST CORNER OF THE SAID REMAINDER 54.449 ACRE TRACT AND BEING THE NORTHEAST CORNER OF THE SAID 0.951 ACRE TRACT AND BEING IN THE SOUTHWEST BOUNDARY LINE OF THAT CERTAIN CALLED 2.0 ACRE TRACT OF LAND DESCRIBED IN A DEED DATED MARCH 24, 1960 FROM CECIL MIRACLE AND WIFE, JOSEPHINE MIRACLE TO BRUCEVILLE-EDDY COUNTY LINE RURAL HIGH SCHOOL DISTRICT AND BEING OF RECORD IN VOLUME 871, PAGE 67, DEED RECORDS OF MCLENNAN COUNTY, TEXAS (DESCRIPTION IN SAID VOLUME 871, PAGE 67 DOES NOT FORM A MATHEMATICALLY CLOSED FIGURE) AND BEING IN THE APPARENT SOUTHWEST BOUNDARY LINE OF MIRACLE LANE (A PRIVATE ROADWAY) FOR CORNER;

THENCE S. 31° 10' 08" E., 90.38 FEET DEPARTING THE SAID REMAINDER 54.449 ACRE TRACT AND WITH THE NORTHEAST BOUNDARY LINE OF THE SAID 0.951 ACRE TRACT AND WITH THE SAID SOUTHWEST BOUNDARY LINE AND WITH THE APPARENT SOUTHWEST BOUNDARY LINE OF MIRACLE LANE TO A 1/2" IRON ROD FOUND BEING THE SOUTHEAST CORNER OF THE SAID 0.951 ACRE TRACT AND BEING AN ELL CORNER OF THE SAID CALLED 2.0 ACRE TRACT FOR CORNER;

THENCE S. 58° 49' 05" W., 467.99 FEET DEPARTING THE APPARENT SOUTHWEST BOUNDARY LINE OF MIRACLE LANE AND WITH THE SOUTHEAST BOUNDARY LINE OF THE SAID 0.951 ACRE TRACT AND WITH THE NORTHWESTERLY BOUNDARY LINE OF THE SAID CALLED 2.0 ACRE TRACT TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" SET BEING SOUTHWEST CORNER OF THE SAID 0.951 ACRE TRACT AND BEING THE NORTHWEST CORNER OF THE SAID CALLED 2.0 ACRE TRACT AND BEING AN EXTERIOR ANGLE POINT ON THE NORTHERLY BOUNDARY LINE OF THE SAID 15.041 ACRE TRACT FOR CORNER;

THENCE S. 31° 24' 29" E., 422.28 FEET DEPARTING THE SAID 0.951 ACRE TRACT AND WITH THE NORTHEAST BOUNDARY LINE OF THE SAID 15.041 ACRE TRACT AND WITH THE SOUTHWEST BOUNDARY LINE OF THE SAID CALLED 2.0 ACRE TRACT TO A TEXAS DEPARTMENT OF TRANSPORTATION BRASS CAP MONUMENT FOUND BEING IN THE NORTHWEST RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY NO. 35 AS DESCRIBED IN A DEED TO THE STATE OF TEXAS AND BEING OF RECORD IN DOCUMENT NO. 2013009471, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS AND BEING AT THE BEGINNING OF A CURVE TO THE LEFT HAVING A RADIUS EQUALS 24740.28 FEET, CHORD BEARING EQUALS S. 27° 35' 47" W., 224.93 FEET FOR CORNER;

THENCE 224.93 FEET ALONG THE ARC OF SAID CURVE TO THE LEFT DEPARTING THE SAID CALLED 2.0 ACRE TRACT AND THE SAID NORTHEAST BOUNDARY LINE AND WITH THE SAID NORTHWEST RIGHT-OF-WAY LINE AND OVER AND ACROSS THE SAID 15.041 ACRE TRACT TO A TEXAS DEPARTMENT OF TRANSPORTATION BRASS CAP MONUMENT FOUND FOR CORNER;

THENCE S. 27° 51' 07" W., 1153.84 FEET CONTINUING OVER AND ACROSS THE SAID 15.041 ACRE TRACT AND CONTINUING OVER AND ACROSS THE SAID 0.603 ACRE TRACT (TRACT SIX - TRACT FOUR) AND CONTINUING OVER AND ACROSS THE SAID 1.23 ACRE TRACT (TRACT SIX - TRACT ONE) AND CONTINUING OVER AND ACROSS THE SAID 2.06 ACRE TRACT (TRACT SIX - TRACT TWO) AND WITH THE SAID NORTHWEST RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY NO. 35 (DOCUMENT NO. 2013009471 AND ALSO AS DESCRIBED IN A DEED TO THE STATE OF TEXAS AND BEING OF RECORD IN DOCUMENT NO. 2015012385, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS) TO A TEXAS DEPARTMENT OF TRANSPORTATION BRASS CAP MONUMENT FOUND BEING IN THE SOUTHWEST BOUNDARY LINE OF THE SAID 2.06 ACRE TRACT (TRACT SIX - TRACT TWO) AND BEING THE APPARENT SOUTHEAST CORNER OF THAT CERTAIN TRACT OF LAND DESCRIBED AS LOT 1, BLOCK 21, HARRIS EXTENSION IN THE AFOREMENTIONED DOCUMENT NO. 2019030105, OFFICIAL PUBLIC RECORDS OF MCLENNAN COUNTY, TEXAS FOR CORNER;

THENCE DEPARTING THE SAID NORTHWEST RIGHT-OF-WAY LINE AND WITH THE SOUTHWESTERLY BOUNDARY LINE OF THE SAID 2.06 ACRE TRACT (TRACT SIX - TRACT TWO) THE FOLLOWING THREE (3) CALLS:

1)N. 30° 27' 09" W., 230.88 FEET TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" SET BEING THE NORTHEASTERLY CORNER OF THE SAID LOT 1, BLOCK 21, HARRIS EXTENSION AND BEING AN INTERIOR ELL CORNER OF THE SAID 2.06 ACRE TRACT (TRACT SIX - TRACT TWO) FOR CORNER;

2)S. 60° 46' 40" W., 30.00 FEET WITH THE NORTHWEST BOUNDARY LINE OF THE SAID LOT 1, BLOCK 21, HARRIS EXTENSION TO A 1/2" IRON ROD WITH CAP STAMPED "RPLS 2475" SET BEING AN EXTERIOR ELL CORNER OF THE SAID 2.06 ACRE TRACT (TRACT SIX - TRACT TWO) AND BEING THE SOUTHEASTERLY CORNER OF THE AFOREMENTIONED 1.389 ACRE TRACT (DOCUMENT NO. 2019030105) FOR CORNER;

N. 29° 57' 20" W., 253.45 FEET DEPARTING THE SAID LOT 1, BLOCK 21, HARRIS EXTENSION AND WITH THE NORTHEASTERLY BOUNDARY LINE OF THE SAID 1.389 ACRE TRACT TO THE POINT OF BEGINNING AND CONTAINING 19.474 ACRES OF LAND.

KNOW ALL MEN BY THESE PRESENTS:

THAT I, MICHAEL E. ALVIS, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT AND THE FIELD NOTES MADE A PART THEREOF FROM AN ACTUAL AND ACCURATE SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH THE SUBDIVISION REGULATIONS OF THE CITY OF BRUCEVILLE-EDDY, TEXAS.

Michael E. Alvis
5/2/2024
MICHAEL E. ALVIS
R.P.L.S. NO. 5402



STATE OF TEXAS §
COUNTY OF _____ §

THAT FIKES WHOLESale, INC., A TEXAS CORPORATION BEING THE OWNER OF THE PROPERTY DESCRIBED HEREON AND WISHING TO SUBDIVIDE SAME INTO LOT(S) AND BLOCK(S), DO HEREBY ADOPT THIS PLAT ATTACHED HERETO AND TITLED "CEFCO #0047 ADDITION" TO THE CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS, AS OUR LEGAL SUBDIVISION OF SAME AND DO HEREBY DEDICATE ALL RIGHTS-OF-WAY AND EASEMENTS SHOWN HEREON TO THE USE OF THE PUBLIC FOREVER. ANY PRIVATE IMPROVEMENTS PLACED IN SAID RIGHTS-OF-WAY AND EASEMENTS SHALL BE PLACED AT NO RISK OR OBLIGATION TO THE PUBLIC AND MCLENNAN COUNTY AND THE COUNTY SHALL HAVE NO RESPONSIBILITY TO REPAIR OR REPLACE SUCH IMPROVEMENTS IF THEY ARE DAMAGED OR DESTROYED IN THE UTILIZATION OF THESE RIGHTS-OF-WAY OR EASEMENTS. THE SALE OF THE LOT(S) SHOWN ON THIS PLAT SHALL BE MADE IN ACCORDANCE THEREWITH, SUBJECT TO ALL RESTRICTIONS AND CONDITIONS RECORDED IN MCLENNAN COUNTY, TEXAS REAL PROPERTY RECORDS PERTAINING TO SAID SUBDIVISION.

FIKES WHOLESale, INC.
A TEXAS CORPORATION

RAYMOND W. SMITH, PRESIDENT

STATE OF TEXAS §
COUNTY OF _____ §

BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS, ON THIS DAY PERSONALLY APPEARED RAYMOND W. SMITH, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND HE ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSE AND CONSIDERATION THEREIN EXPRESSED, IN HIS CAPACITY AS PRESIDENT OF FIKES WHOLESale, INC., A TEXAS CORPORATION, ON BEHALF OF SAID COMPANY.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE ____ DAY OF _____, 2024.

NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
COUNTY OF MCLENNAN §

I HEREBY CERTIFY THAT THE ATTACHED AND FOREGOING PLAT OF CEFCO #0047 ADDITION WAS APPROVED BY THE CITY ON THIS ____ DAY OF _____, 2024.

LINDA OWENS,
MAYOR, CITY OF BRUCEVILLE-EDDY, TEXAS

ATTEST:

PAM COMBS
CITY SECRETARY, CITY OF BRUCEVILLE-EDDY, TEXAS

ON-SITE SEWAGE FACILITY (OSSF) CERTIFICATION:

THE FOLLOWING STATEMENT CERTIFIES THAT PLANNING MATERIALS AND SITE SUITABILITY REPORT PREPARED BY WATERENGINEERS, INC. ON THE 8TH DAY OF MAY 2024, HAS BEEN SUBMITTED AND ACCEPTED FOR THIS SUBDIVISION PLAT. INDIVIDUAL ON-SITE SEWAGE FACILITY DESIGNS MUST BE SUBMITTED FOR APPROVAL FOR EACH LOT AND BUILT TO TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS PRIOR TO OCCUPATION OF THE RESIDENCE.

THIS SUBDIVISION PLAT APPROVED AND ACCEPTED ON THIS THE ____ DAY OF _____, 2024.

BY: _____
DESIGNATED REPRESENTATIVE FOR AND
ON BEHALF OF MCLENNAN COUNTY

FINAL PLAT:

CEFCO #0047 ADDITION
19.474 ACRES
3 LOTS, 1 BLOCK

SITUATED IN THE LEVI PREWITT SURVEY, ABSTRACT NO. 723
CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS.

**TURLEY**
ENGINEERING & SURVEYING

TURLEY ASSOCIATES, INC
301 N. 3RD ST.
TEMPLE, TEXAS 76501
WWW.TURLEY-INC.COM
254-773-2400
ENGINEERING FIRM NO. 1658
SURVEY FIRM NO. 10194869

23-132 PRELIMINARY PLAT, 1/31/2024
REF: 20-2804

May 14, 2024

Mr. Kent Manton
City of Bruceville-Eddy
143 Wilcox Drive
Eddy, TX 76524

**RE: CEFCO #0047 ADDITION FINAL PLAT
MRB PROJECT No.: 0218.23000**

Dear Mr. Manton:

MRB Group has completed our review of the referenced project and offers the following comments. Please contact me if you have any concerns or questions about this letter.

1. The certificate of ownership (Pg. 2/2 top right) indicates ANY PRIVATE IMPROVEMENTS PLACED IN SAID RIGHTS-OF-WAY AND EASEMENTS SHALL BE PLACED AT NO RISK OR OBLIGATION TO THE PUBLIC AND MCLENNAN COUNTY AND THE COUNTY SHALL HAVE NO RESPONSIBILITY TO REPAIR OR REPLACE SUCH IMPROVEMENTS IF THEY ARE DAMAGED OR DESTROYED IN THE UTILIZATION OF THESE RIGHTS-OF-WAY OR EASEMENTS.

Please indicate ANY PRIVATE IMPROVEMENTS PLACED IN SAID RIGHTS-OF-WAY AND EASEMENTS SHALL BE PLACED AT NO RISK OR OBLIGATION TO THE PUBLIC, THE CITY OF BRUCEVILLE-EDDY, AND MCLENNAN COUNTY AND THE CITY AND COUNTY SHALL HAVE NO RESPONSIBILITY TO REPAIR OR REPLACE SUCH IMPROVEMENTS IF THEY ARE DAMAGED OR DESTROYED IN THE UTILIZATION OF THESE RIGHTS-OF-WAY OR EASEMENTS.

(Underline added for clarity, not applicable to plat.)

Sincerely,



Lee Lingenfelter, PE, CFM
Project Manager

N:\0218.23000.000\Plan & Plat Review\2024-02-09 CEFCO\Final Plat 1st Submittal\2024-05-1 _CEFCO Review
Comments.docx

CEFCO STORE#: 0047



CEFCO STORE#: 0047

C-STORE - F250.1-B SERIES (RIGHT FACING)

I-35 FRONTAGE ROAD

EDDY, TX 76524

BRUCEVILLE - EDDY CITY LIMITS

McLENNAN COUNTY

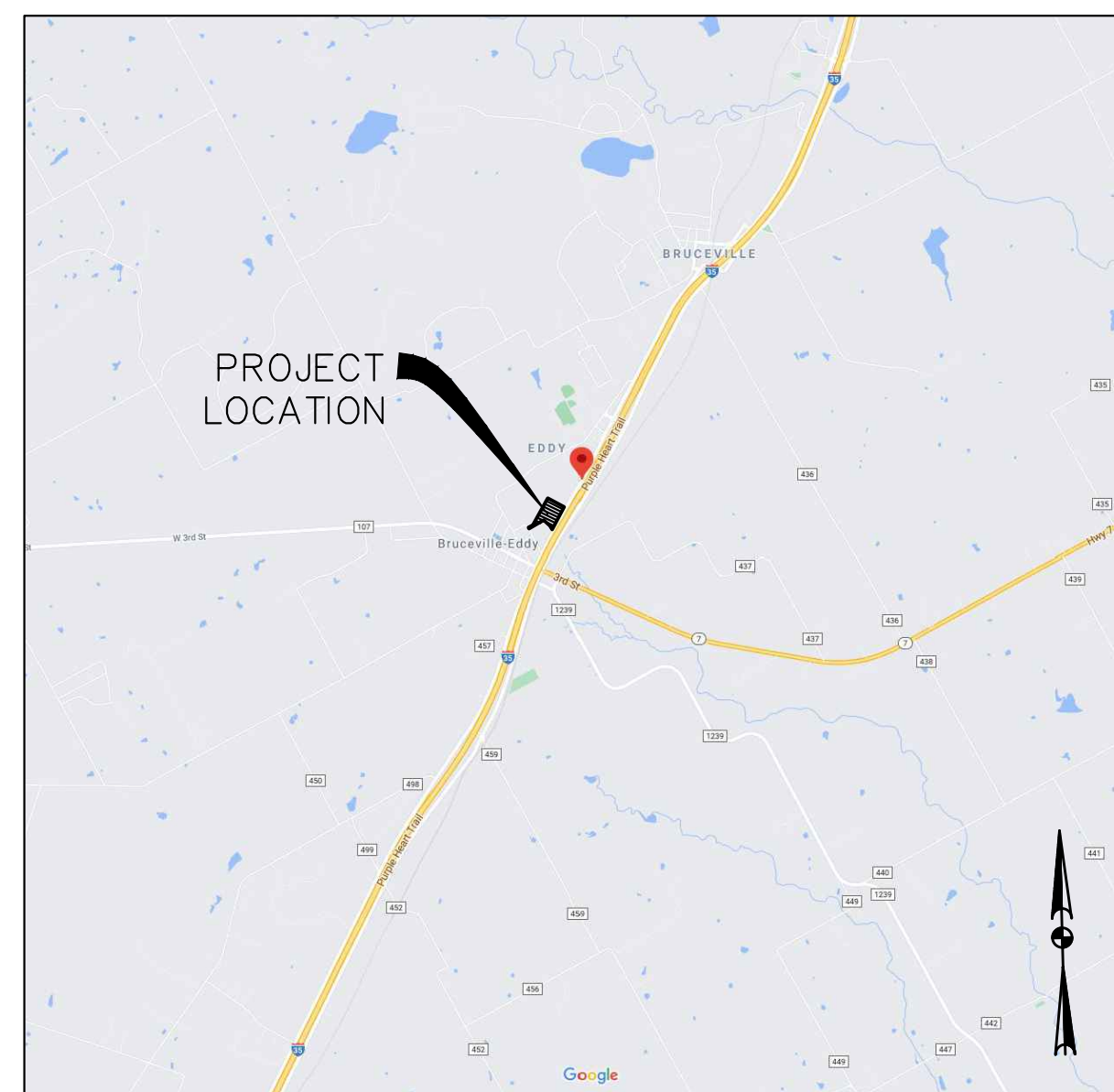
CONSTRUCTION DOCUMENTS FOR CITY OF

EDDY PERMIT SUBMITTAL

DATE: 03-28-2024

FIKES WHOLESAL, INC.

OWNER - 6261 CENTRAL POINTE PARKWAY, TEMPLE, TX, 76504



VICINITY MAP
N.T.S.

PROPOSED USE:
NEW SITE DEVELOPMENT, NEW
CONVENIENCE STORE, AND NEW
FUEL CANOPIES.

SIGNAGE NOTES:
ALL SIGNAGE (INDOOR AND OUTDOOR) WILL BE
PERMITTED THROUGH SIGNS ADMINISTRATION AND ARE
NOT PART OF THESE DRAWINGS.

PROJECT ANALYSIS

RETAIL BUILDINGS AREA:

CEFCO FOOD MART	-	5,974 SQ. FT.
RETAIL FUEL CANOPY	-	8,512 SQ. FT.
TRUCKER FUEL CANOPY	-	4,620 SQ. FT.

OCCUPANCY :

RETAIL CENTER	-	GROUP M	-	MERCANTILE
RETAIL FUEL CANOPY	-	GROUP M	-	MERCANTILE

OCCUPANCY LOAD (PER 2021 IBC):

CONVENIENCE STORE				
60 S.F./PERSON	-	GRADE FLOOR AREAS	-	3,205 / 60 = 54 OCCUPANTS
300 S.F./PERSON	-	CASHIER AREA, WALK-IN COOLER/FREEZER, OFFICE, DELI/PREP AREA, UTILITIES, STORAGE, STOCK, ETC	-	2,769 / 300 = 10 OCCUPANTS
TOTAL				= 64 OCCUPANTS

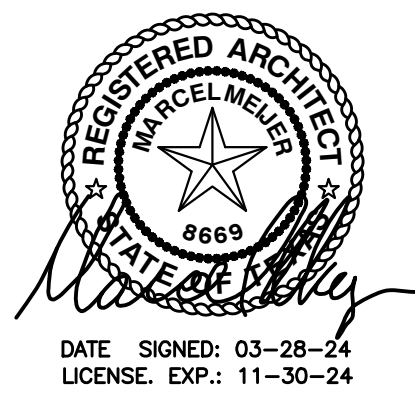
ALLOWED HEIGHT:	3-STORY - 55 FT.
ACTUAL:	1-STORY - 22'-2" (CEFCO CONVENIENCE STORE)
ALLOWED AREA:	12,500 SQ. FT.
ACTUAL GROSS SQ.FT:	5,974 SQ. FT. (CEFCO CONVENIENCE STORE)

APPLICABLE CODES

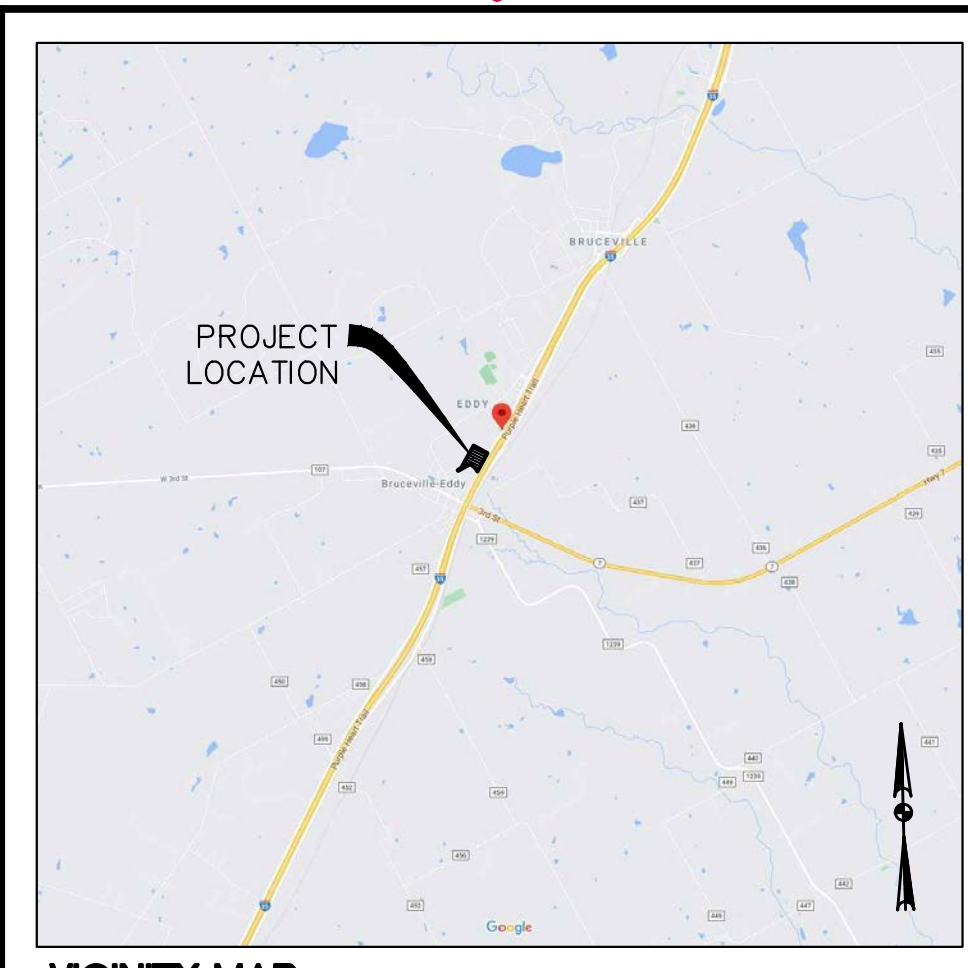
- 2021 - INTERNATIONAL BUILDING CODE OR LATEST ISSUE
- 2021 - INTERNATIONAL MECHANICAL CODE OR LATEST ISSUE
- 2021 - INTERNATIONAL PLUMBING CODE OR LATEST ISSUE
- 2005 - NATIONAL ELECTRICAL CODE OR LATEST ISSUE
- 2021 - IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
- 2021 - INTERNATIONAL FIRE CODE LOCAL FIRE CODE & NFPA
- 2021 - FUEL NFPA - CHAPTER 13 OR LATEST ISSUE
- 2012 - STATE OF TEXAS ACCESSIBILITY STANDARDS LATEST AMERICANS WITH DISABILITIES ACT
[HTTPS://WWW.TDLR.TEXAS.GOV/AB/2012TAS/2012TASCOMPLETE.PDF](https://www.tdlr.texas.gov/ab/2012tas/2012tascomplete.pdf)

TYPE OF CONSTRUCTION: TYPE II B

ARCHITECTS INTERPLAN ARCHITECTS INC.
 SOIL ENGINEERING PROFESSIONAL SERVICE INDUSTRIES, INC.
 CIVIL ENGINEERING TURLEY
 STRUCTURAL ENGINEER STRUCTURAL ENGINEERING SERVICE PLUS
 MEP ENGINEER BIRRIEL ENGINEERING
 FUEL CANOPY ENGINEER JIMCO
 GENERAL CONTRACTOR FIKES WHOLESAL, INC.



DATE SIGNED: 03-28-24
LICENSE. EXP: 11-30-24



VICINITY MAP
N.T.S.

PLANNING AND DEVELOPMENT

- OFF-STREET PARKING REQUIREMENTS
- A) PROPOSED LAND USE **CONVENIENCE STORE**
 - B) PREVIOUS LAND USE **CONVENIENCE STORE**
 - C) 1. GROSS FLOOR AREA OF PROPOSED DEVELOPMENT **5,974 SQ. FT.**
 - 2. NUMBER OF SEATS
 - D) NO. OF PARKING SPACES REQUIRED FOR THE PROPOSED DEVELOPMENT PER CODE OF ORDINANCES **1 SPACE PER 200 SQ. FT. OF FLOOR AREA 30 SPACES REQUIRED**
 - E) NO. OF PROPOSED PARKING SPACES PROVIDED ON-SITE **53**
 - F) NO. OF PROPOSED PARKING SPACES PROVIDED OFF-SITE **N/A** (F APPLICABLE)

LANDSCAPE REQUIREMENTS:

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE, AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION, AND INSTALLATION OF MATERIALS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, TV, ETC.) AND ALL OVERHEAD UTILITY EASEMENTS PRIOR TO START OF ANY PLANTING WORKS.
3. ALL PLANT MATERIALS SHALL POSSESS THE FOLLOWING MINIMUM QUALITIES:
 - a. PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT FOR AT LEAST TWELVE MONTHS.
 - b. ALL PLANTS SHALL BE HEAVY, SYMMETRICAL, TIGHTLY KNIT, SO TRAINED OR FAVORED FOR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS, AND SYMMETRY.
 - c. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECTS, PESTS, EGGS, OR LARVAE.
 - d. ALL PLANTS SHALL BE TRUE OF SPECIES AND VARIETY AND SHALL CONFORM TO MEASUREMENTS (CALIPER SIZE, TRUNK HEIGHTS, SPREAD) AS SPECIFIED ON THE DRAWINGS.
 - e. CONTAINER GROWN STOCK WHEN SPECIFIED SHALL HAVE GROWN IN THE CONTAINER IN WHICH DELIVERED FOR AT LEAST SIX MONTHS, BUT NOT OVER TWO YEARS. SAMPLES MUST PROVE NO ROOTBOUND CONDITIONS EXIST.
 - f. CALIPER MEASUREMENTS SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE NATURAL GROUND LINE FOR TREES UP TO FOUR INCHES (4") IN CALIPER.
 - g. ALL TREES SHALL BE STAKED BY A MINIMUM OF TWO METAL "T" STAKES FOR SINGLE TRUNK TREES AND THREE STAKES FOR ALL MULTI-TRUNK TREES.
4. PLANTING MIX SHALL BE THOROUGHLY MIXED IN THE FOLLOWING PROPORTIONS:
 - a. PREPARED SOIL AS BACKFILL FOR SHADE AND ORNAMENTAL TREES SHALL BE 5 PART CLAY LOAM TOPSOIL + 2 PART COMPOST + 1 PART SHARP SAND + 4 LBS. COMMERCIAL FERTILIZER PER CY OR 10 LBS. ORGANIC FERTILIZER.
 - b. PREPARED SOIL AS BACKFILL FOR SHRUBS AND GROUNDCOVERS AND SEASONAL COLORERS SHALL BE: 1 PART ENRICHED MULCH + 1 PART COMPOST BARK MULCH + 1 PART ENRICHED TOPSOIL + 1 PART NO. 1 BARK SAND + 3 LBS. TIME-RELEASED FERTILIZER, 14-14-14 PER CY OR 8 LBS. ORGANIC FERTILIZER.
5. EXCAVATION WORK AND SURFACE DRAINAGE WORKS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - a. TEST DRAINAGE OF PLANT BEDS AND PLANT PITS BY FILLING WITH WATER TWICE IN SUCCESSION, CONDITIONS PERMITTING THE RETENTION OF WATER FOR MORE THAN 24 HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.
 - b. WORK SHALL INCLUDE THE FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS, ANY OBSTRUCTIONS ON THE SITE, OR PRIOR WORK DONE BY ANOTHER PARTY, WHICH PRECLUDES ESTABLISHING PROPER DRAINAGE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IN WRITING.
 - c. EXCAVATE EACH TREE HOLE 18" DEEP PLUS THE DEPTH OF THE TREE CONTAINER SIZE (15 GAL OR 30 GAL OR 65 GAL OR 100 GAL).
 - d. EXCAVATE ENTIRE SHRUB BED TO A DEPTH OF 8" PLUS THE DEPTH OF THE SHRUB CONTAINER SIZE (5 GAL) UNLESS NOTED AS BEING PIT PLANTED ON LANDSCAPE LEGEND.
 - e. EXCAVATE ENTIRE GROUNDCOVER BED TO A DEPTH OF 6" PLUS THE DEPTH OF THE GROUNDCOVER CONTAINER SIZE (4" POT OR 1 GAL).
6. ADDITIONAL WORK REQUIREMENTS ON LANDSCAPE AREAS:
 - a. PRIOR TO INSTALLATION OF ANY PLANTING WORKS (TREES, SHRUBS, GROUNDCOVER AND GRASS WORKS), APPLY "ROUND UP" IN ALL PLANTING AREAS TO ERADICATE ALL WEED GROWTHS ON SITE.
 - b. ADD ALTERNATE: INSTALL WEED CONTROL BARRIERS IN ALL TREES, SHRUB AND GROUNDCOVER PLANTING AREAS. WEED BARRIER FABRIC SHALL BE BLACK POLYPROPYLENE SHEET 27 MILS. THICK, 4 OZ./SQ. YD. TENSILE STRENGTH PER ASTM D-4832 90 LBS. MACHINE DIRECTION) 50 LBS. (CROSS MACHINE DIRECTION). PROVIDE DEMIT "WEED BARRIER" OR APPROVED SUBSTITUTE.
 - c. USE "SHOVEL EDGE" TO SEPARATE ALL PLANT BEDS FROM GRASS AREAS.
 - d. SPREAD A MINIMUM TWO INCH LAYER OF PINE BARK MULCH OVERALL SHRUB AND GROUNDCOVER BED AREAS.
7. LANDSCAPE MAINTENANCE WORK BY THE LANDSCAPE CONTRACTOR AFTER FINAL ACCEPTANCE SHALL INCLUDE THE FOLLOWING:
 - A. THE MAINTENANCE PERIOD SHALL COMMENCE UPON INSPECTION AND APPROVAL AT FINAL ACCEPTANCE AND SHALL BE FOR A PERIOD OF SIXTY DAYS (60).
 - B. THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE WATERING PROGRAM FOR ALL THE LANDSCAPE WORK WITH THE OWNER.
8. MAINTENANCE OF NEW PLANTINGS SHALL CONSIST OF WATERING, CULTIVATING, WEEDING, MULDING, RESTAKING, TIGHTENING AND REPAIR OF GUSKETS, RESETTING PLANTS FOR PROPER GRADES OR UPRIGHT POSITION, AND FURNISHING AND APPLICATION OF PESTICIDES/HERBICIDES, SPRAYS, AND INNOVATIONS AS ARE NECESSARY TO KEEP PLANTINGS FREE OF INSECTS AND DISEASE AND IN A THRIVING CONDITION.
9. WARRANTY PERIODS, PLANT GUARANTEES, AND REPLACEMENTS:
 - a. PLANTING SUPPLIED SHALL BE WARRANTED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWELVE MONTHS (12) AFTER THE DATE OF FINAL ACCEPTANCE BY OWNER. PLANTS IN AN IMPAIRED, DEAD, OR DYING CONDITION AFTER INITIAL ACCEPTANCE OR WITHIN 12 MONTHS SHALL BE REMOVED AND REPLACED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.

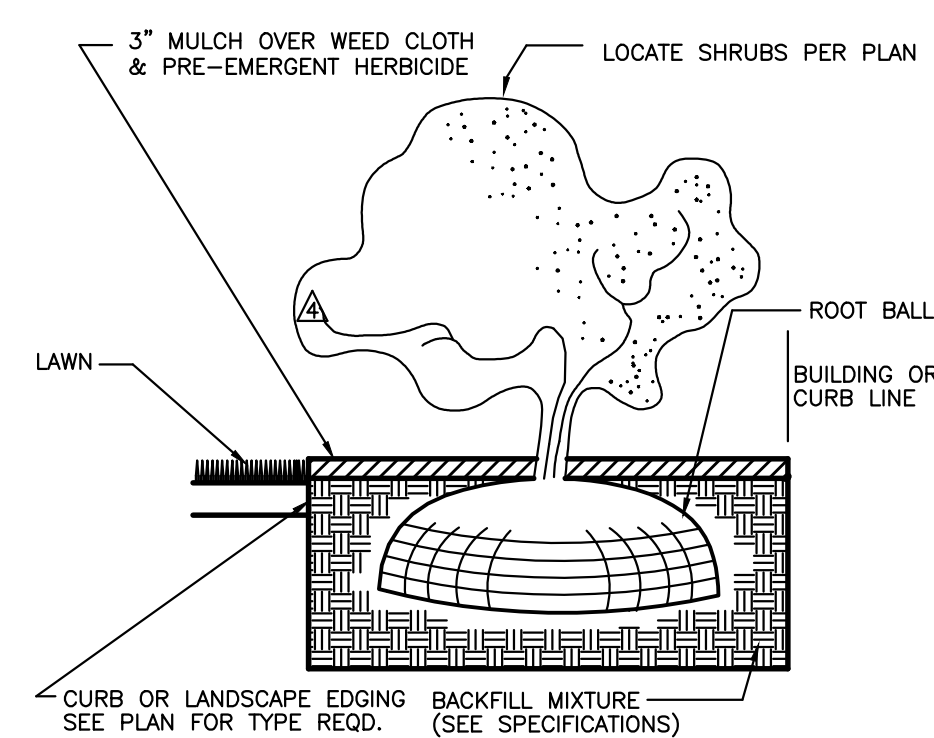
KEY NOTES:

1. PROPOSED DUMPSTER ENCLOSURE, RE: SO3A.
2. 3 UNDERGROUND FUEL STORAGE TANKS, BY WATCO TANKS INC. AND XERXES
 - (1) 40,000 GAL. TANK FOR DIESEL (WATCO)
 - (1) 40,000 GAL. TANK DIVIDED AT 26,000 REGULAR, 8,000 PREMIUM AND 6,000 ETHANOL (WATCO)
 - (1) 8,000 GAL. TANK FOR DEF (XERXES)
3. PROPOSED CONC. SIDEWALK WITH BROOM FINISH AND TOOLED EDGES. MATCH EXISTING CONC. SIDEWALK. RAMPS TO BE INTEGRALLY STAINED WITH KEMI-CO COLA.
4. I.D. SIGN. ALL SIGNAGE SHALL BE ON PRIVATE PROPERTY ONLY AND MUST BE PERMITTED SEPARATELY BY A SIGN CONTRACTOR.

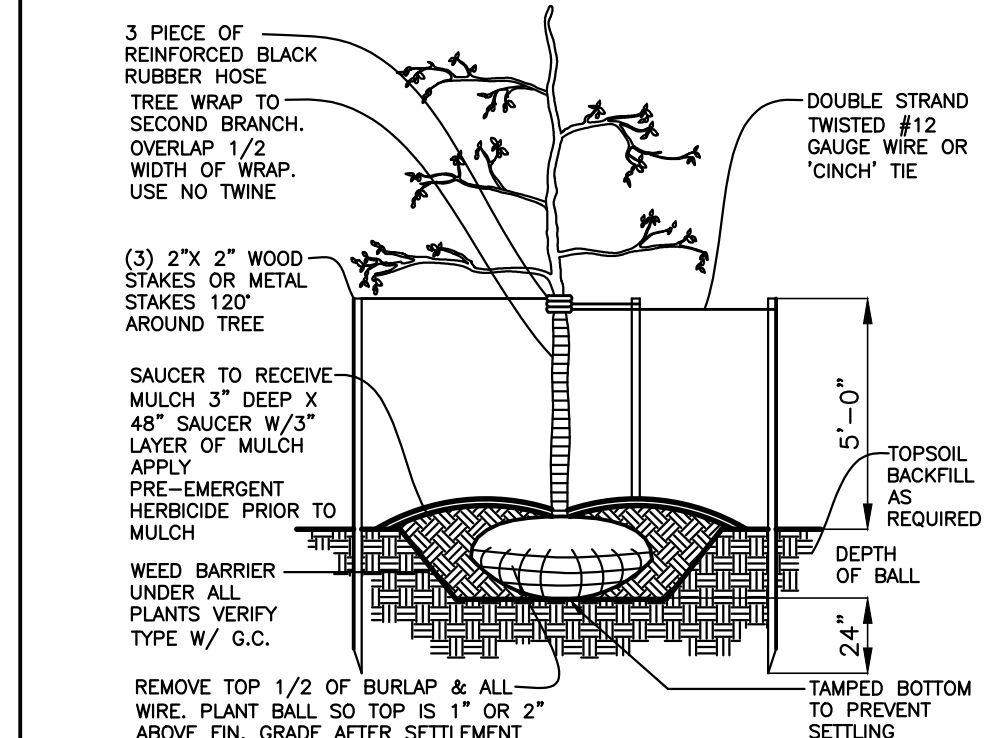
- PROPOSED XERISCAPE- CRUSHED GRANITE BED
- PROPOSED XERISCAPE- RIVER ROCK
- PROPOSED BERMUDA GRASS

- NOTE:**
LANDSCAPING CONTRACTOR TO SELECT (WITH OWNER APPROVAL) ALL PLANT SELECTIONS, INCLUDING SCRUBS.
- NOTE:**
LANDSCAPING CONTRACTOR TO SUBMIT FINAL LANDSCAPING PROPOSAL TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- NOTE:**
IF THE PLANTING PLAN DOES NOT MATCH THE PLANT LIST, THE QUANTITIES INDICATED GRAPHICALLY ON THE PLANTING PLAN SHALL GOVERN.
- NOTE:**
IRRIGATION EQUIPMENT AND AIR/WATER UNIT SCREENED WITH LANDSCAPING I.E. - DOUBLE ROW OF SHRUBS
- NOTE:**
- ALL EXISTING TREES AND LANDSCAPING TO REMAIN AS IS, UNLESS NOTED OTHERWISE.
GENERAL CONTRACTOR TO TRIM LOWER BRANCHES AND TREES ALONG STREET FRONTS. RE: DEVP
- IRRIGATION CONTROL NOTE:**
CONTRACTOR TO PLACE IRRIGATION CONTROLS ON PYLON LEG (CLOSEST TO THE ROAD ON THE SIDE THAT FACES THE STORE).

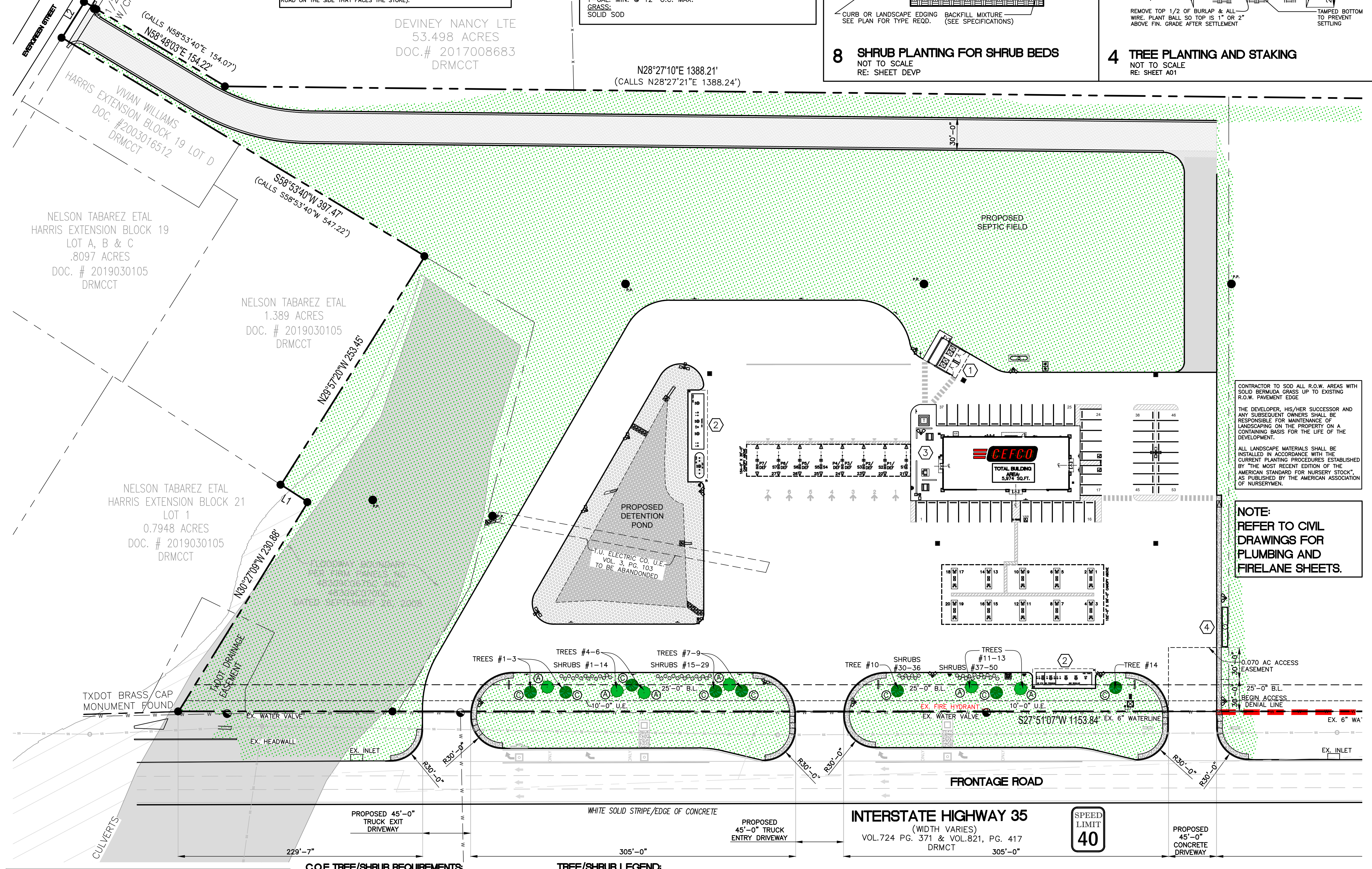
- NOTE (TYPICAL):**
ALL TREES SHOWN ARE LIVE OAK UNLESS NOTED OTHERWISE
- | COMMON NAME | BOTANICAL NAME |
|------------------------------|---------------------|
| TREE - LIVE OAK | QUERCUS VIRGINIANA |
| SHRUBS - A. INDIAN HAWTHORNE | RAPHIOLEPIS INDICA |
| - B. WAXLEAF LIGUSTRUM | LIGUSTRUM JAPONICUM |
- TREES:**
4" CALIPER AND SHALL BE SPACED AT MINIMUM OF 50'-0" O.C.
FLOWERING TREES:
10'-0" TO 12'-0" HEIGHT MIN. (MULTI-TRUNK, MIN. 3 TRUNKS), 2" TO 2 1/2" CALIPER (SINGLE TRUNK TREES) /30 GAL. MIN. AND SHALL BE SPACED AT MINIMUM OF 10'-0" O.C.
SHRUBS FOR SCREENING AND BUFFERING:
7 GAL. @ 36" O.C. MAX. & 30" HIGH MIN. @ PLANTING.
HERBACEOUS PERENNIALS:
1-GAL. MIN. @ 12" O.C. MAX.
GROUND COVERS:
1-GAL. MIN. @ 12" O.C. MAX.
SEASONAL COLOR (ANNUALS) - TWO CHANGE OUTS PER YEAR:
4" POT MIN. @ 9" O.C. MAX.
VINES:
1-GAL. MIN. @ 12" O.C. MAX.
GRASSES:
SOLID SOD



8 SHRUB PLANTING FOR SHRUB BEDS
NOT TO SCALE
RE: SHEET DEVP



4 TREE PLANTING AND STAKING
NOT TO SCALE
RE: SHEET A01



LEGEND SAMPLE (TYPICAL)

TREES	SMALL TREES/SHRUBS	ANNUALS - SPRING	PERENNIALS
⊙ LIVE OAK	⊙ WAX LIGUSTRUM	⊙ MARIGOLDS	⊙ SHASTA DASY
⊙ WATER OAK	⊙ PERIWINKLE	⊙ JAPANESE CLEYERA	⊙ GRASS
⊙ GRAPE MYRTLE	⊙ YAPUNION HOLLY	⊙ VARIATED PRIVET	⊙ SOLID BERMUDA SOD
⊙ SOUTHERN MAGNOLIA	⊙ LIRIOPE	⊙ ENGLISH WY	
⊙ LONGLEAF PINE	⊙ PILOTSPORUM	⊙ PURPLE JAPANESE HONEYSUCKLE	
⊙ LOBBLY PINN	⊙ INDIAN HAWTHORN	⊙ MONKEY GRASS	
	⊙ AZALEA	⊙ ASIAN JASMINE	

C.O.E TREE/SHRUB REQUIREMENTS

TREES	SHRUBS
AT LEAST ONE (1) TREE, TWO INCHES (2") IN CALIPER IS REQUIRED TO BE PLANTED IN THE LANDSCAPED AREA OR PARKING LOT FOR EACH FORTY FEET (40'), OR FRACTION THEREOF, OF LINEAR STREET FRONTAGE.	AS AN ALTERNATIVE TO SATISFYING THE REQUIREMENT ABOVE FOR ONE TREE PER FORTY (40') FEET, THREE (3) SHRUBS, A MINIMUM OF FIVE (5) GALLONS EACH IN SIZE, MAY BE SUBSTITUTED.
TREES PROVIDED: 14 TREES, 29-14= 15 LEFTOVER TREES SUBSTITUTE SHRUBS: 15 X 3 = 45 TOTAL SHRUBS REQUIRED	TREES PROVIDED: 14 TREES, 29-14= 15 LEFTOVER TREES SUBSTITUTE SHRUBS: 15 X 3 = 45 TOTAL SHRUBS REQUIRED

TREE/SHRUB LEGEND:

SYMBOLS	DESCRIPTION	AMOUNT PROVIDED
⊙	PROPOSED GRAY MYRTLE TREE	8
⊙	PROPOSED LIVE OAK TREES	6
⊙	PROPOSED SHRUBS	50
⊙	TOTAL PROPOSED TREES	14
⊙	TOTAL PROPOSED SHRUBS	50

NOTE:
FINAL TO BE DECIDED BY LICENSED LANDSCAPE/IRRIGATION PROFESSIONAL.

SITE PLAN - LANDSCAPING LAYOUT
SCALE: 1:50
RE: SURVEY
TOTAL LAND AREA: 10.124 ACRES (441,000 SQ. FT.)

GENERAL NOTE:
COORDINATE SITE DRAWINGS WITH CIVIL DRAWINGS.

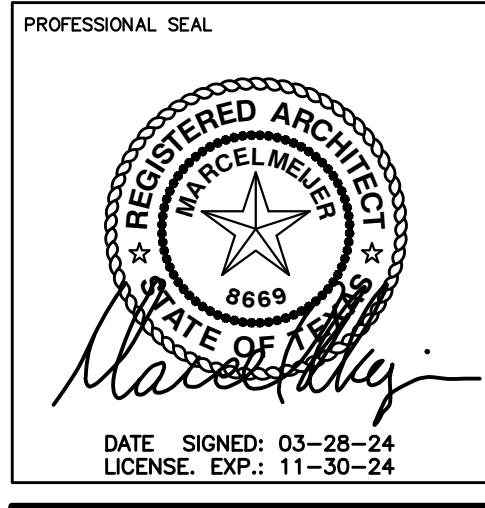


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-SIT.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

DATE	DESCRIPTION
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated as described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

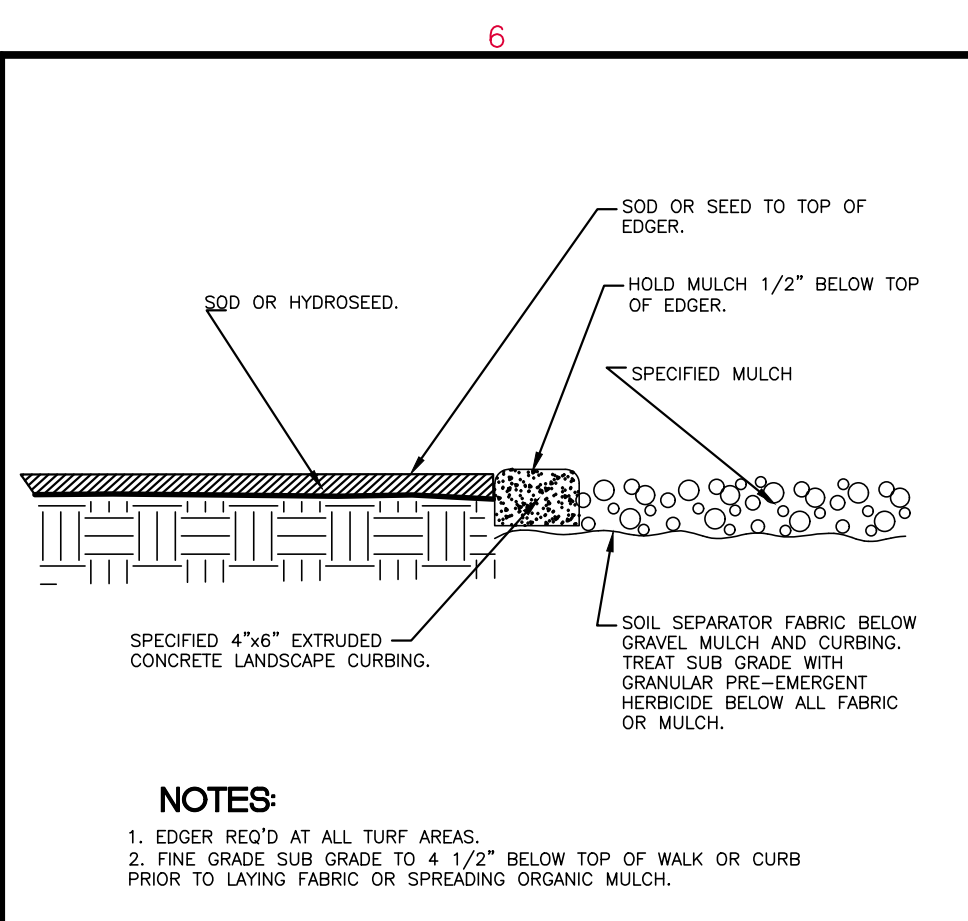
REVISIONS

NO.	DATE	DESCRIPTION

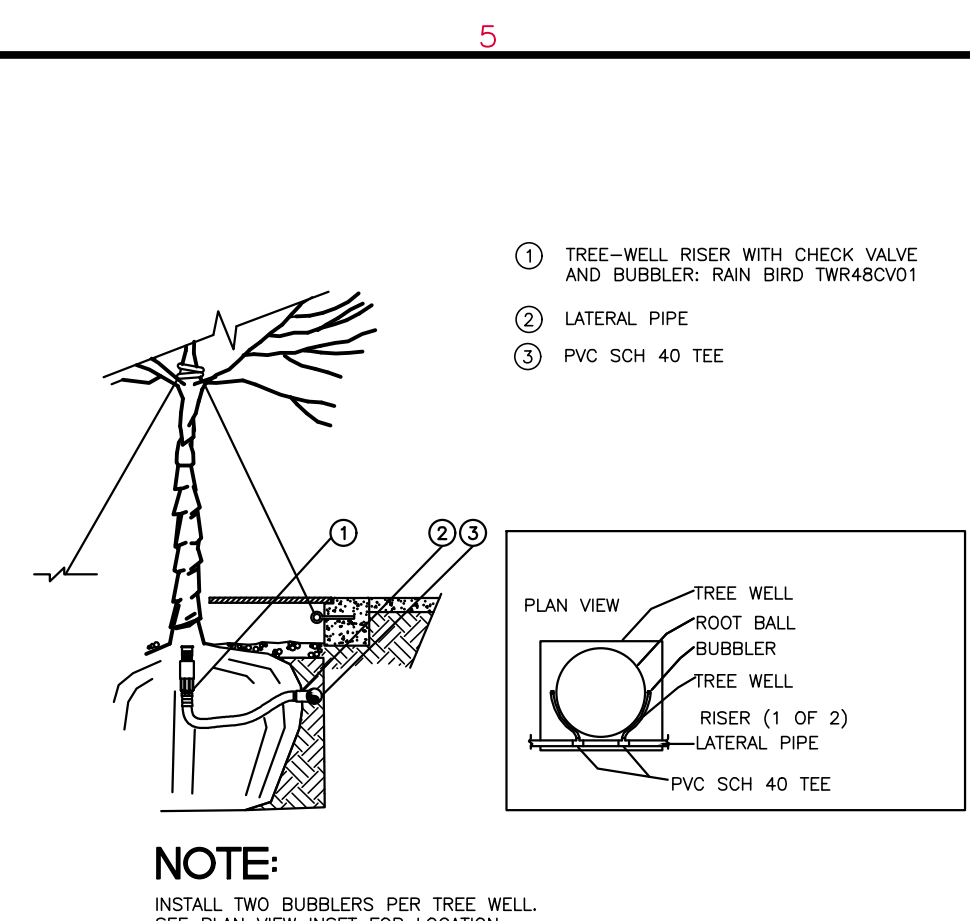
DRAWN BY: CHECKED BY: DATE

SHEET TITLE
DEVP

DRAWING NUMBER SHEET NO.



24 EDGE TREATMENT
NOT TO SCALE
RE:

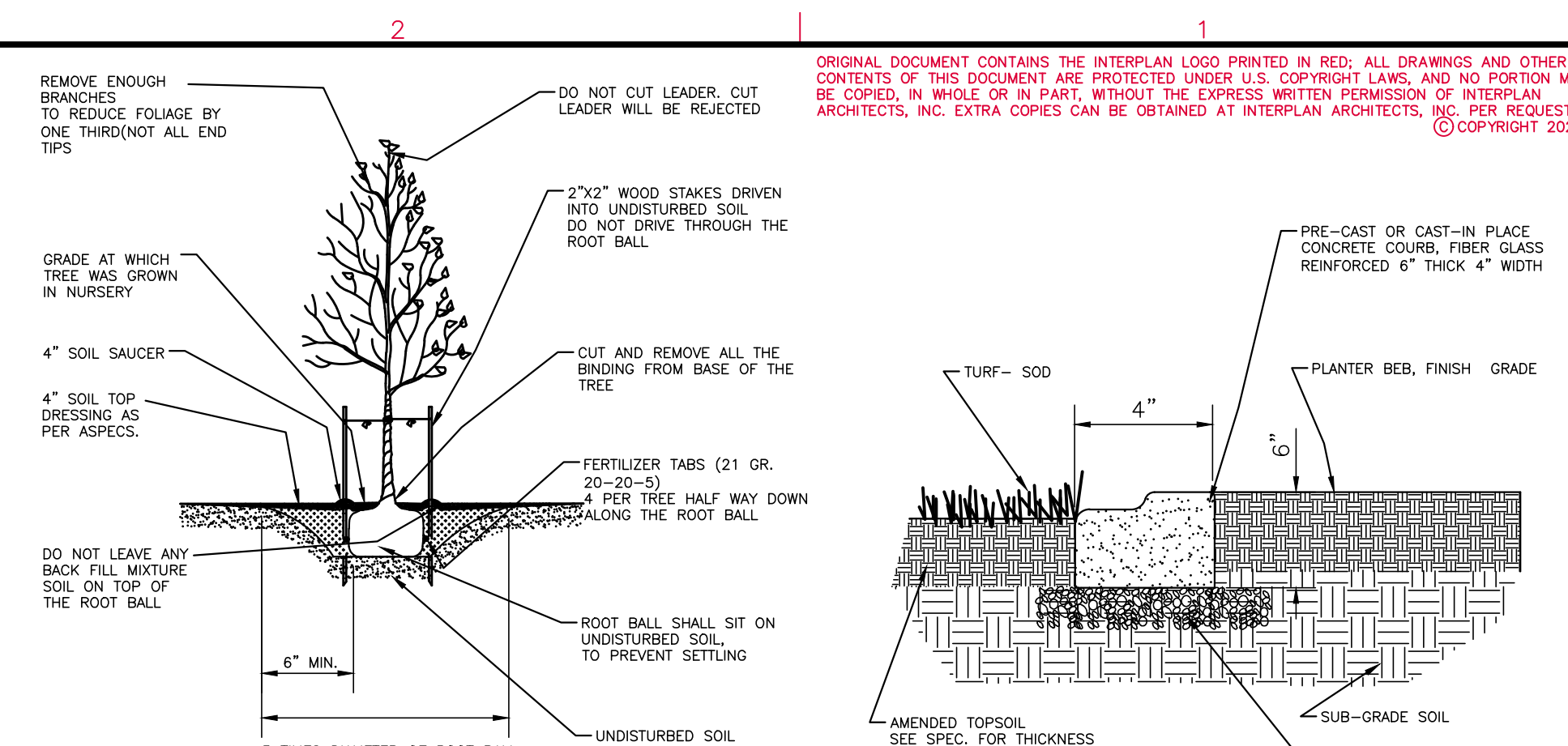


20 TREE WELL RISER TWR SERIES
NOT TO SCALE
RE:

16 SYMBOL LEGEND PLANTING
NOT TO SCALE
RE:

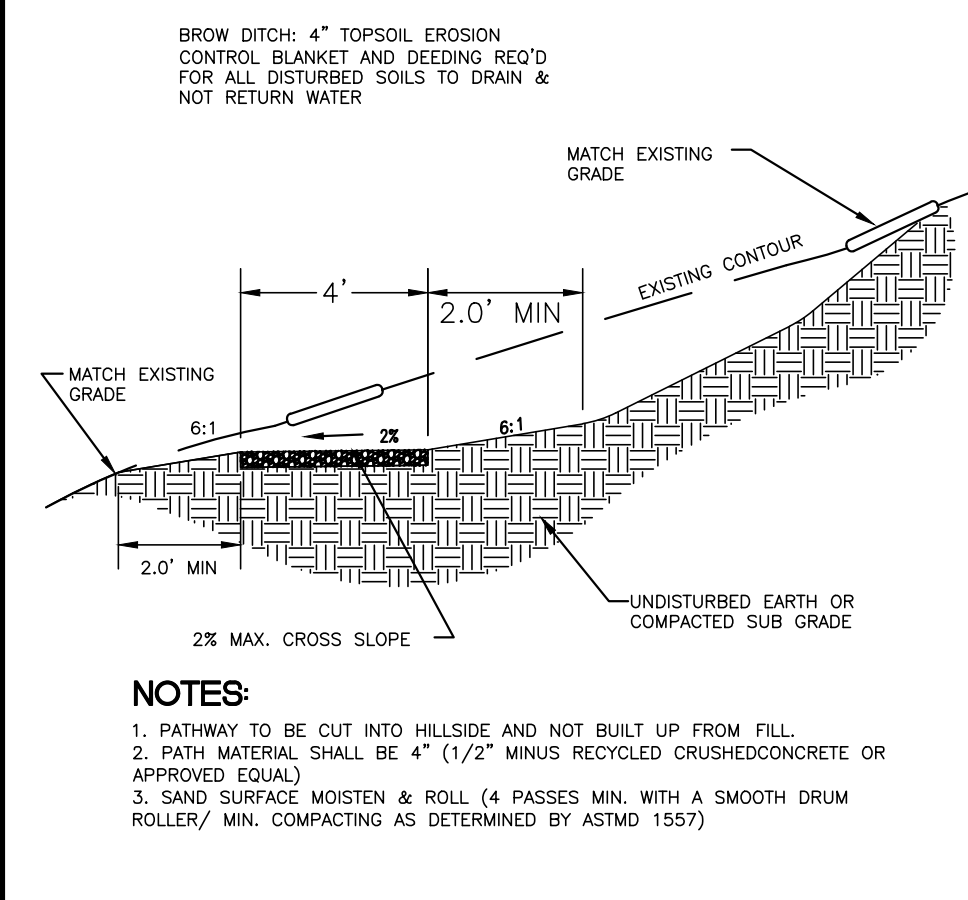
PLT-1	PLT-13	PLT-25	PLT-41	PLT-7	PLT-7	PLT-19A	PLT-33	PLT-50
PLT-2	PLT-13A	PLT-26	PLT-42	PLT-7A	PLT-7A	PLT-20	PLT-33A	PLT-51
PLT-2A	PLT-14	PLT-26A	PLT-43	PLT-8	PLT-8	PLT-20A	PLT-34	PLT-52
PLT-3	PLT-15	PLT-27	PLT-44	PLT-9	PLT-9	PLT-21	PLT-35	PLT-53
PLT-4	PLT-15A	PLT-28	PLT-45	PLT-10	PLT-10	PLT-22	PLT-36	PLT-54
PLT-5	PLT-16	PLT-29	PLT-46	PLT-11	PLT-11	PLT-22A	PLT-37	PLT-55
PLT-5A	PLT-17	PLT-30	PLT-47	PLT-11A	PLT-11A	PLT-23	PLT-38	PLT-56
PLT-6	PLT-18	PLT-31	PLT-48	PLT-12	PLT-12	PLT-23A	PLT-39	PLT-57
PLT-6A	PLT-19	PLT-32	PLT-49	PLT-12A	PLT-12A	PLT-24	PLT-40	

16 SYMBOL LEGEND PLANTING
NOT TO SCALE
RE:

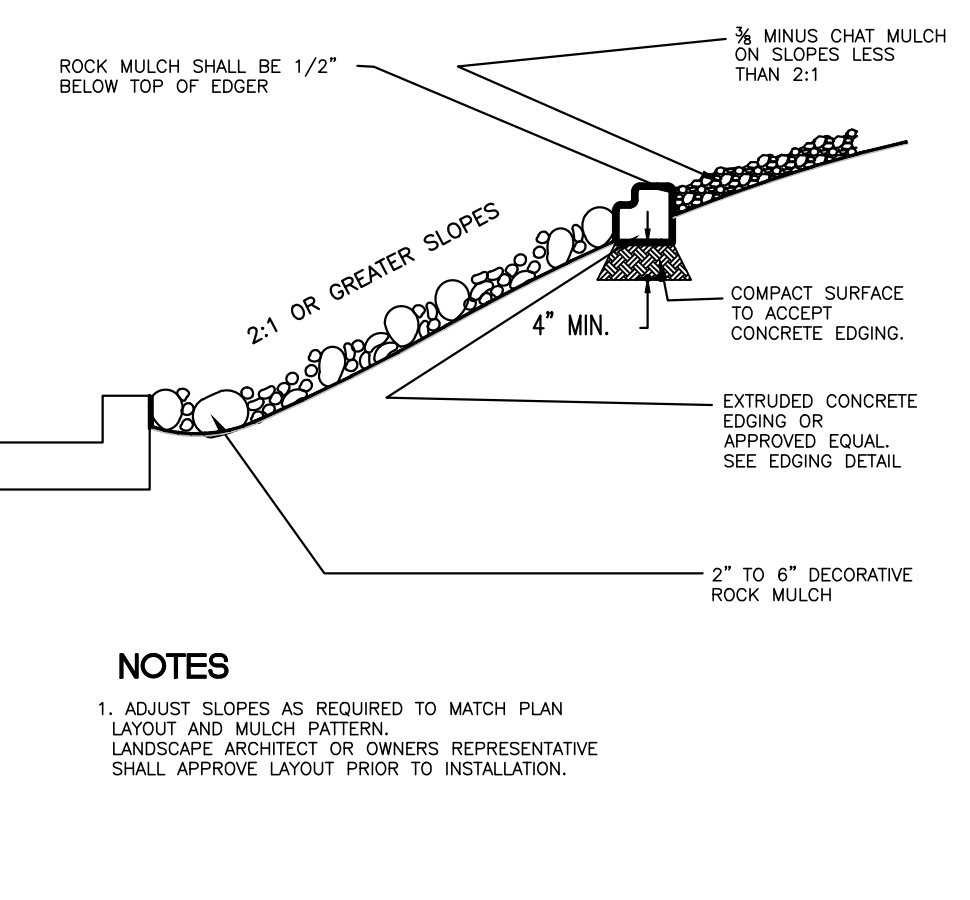


8 TREE PLANTING DETAIL
NOT TO SCALE
RE:

CONCRETE ENDING DETAIL
NOT TO SCALE
RE:



23 PATH ALONG SLOPE
NOT TO SCALE
RE:



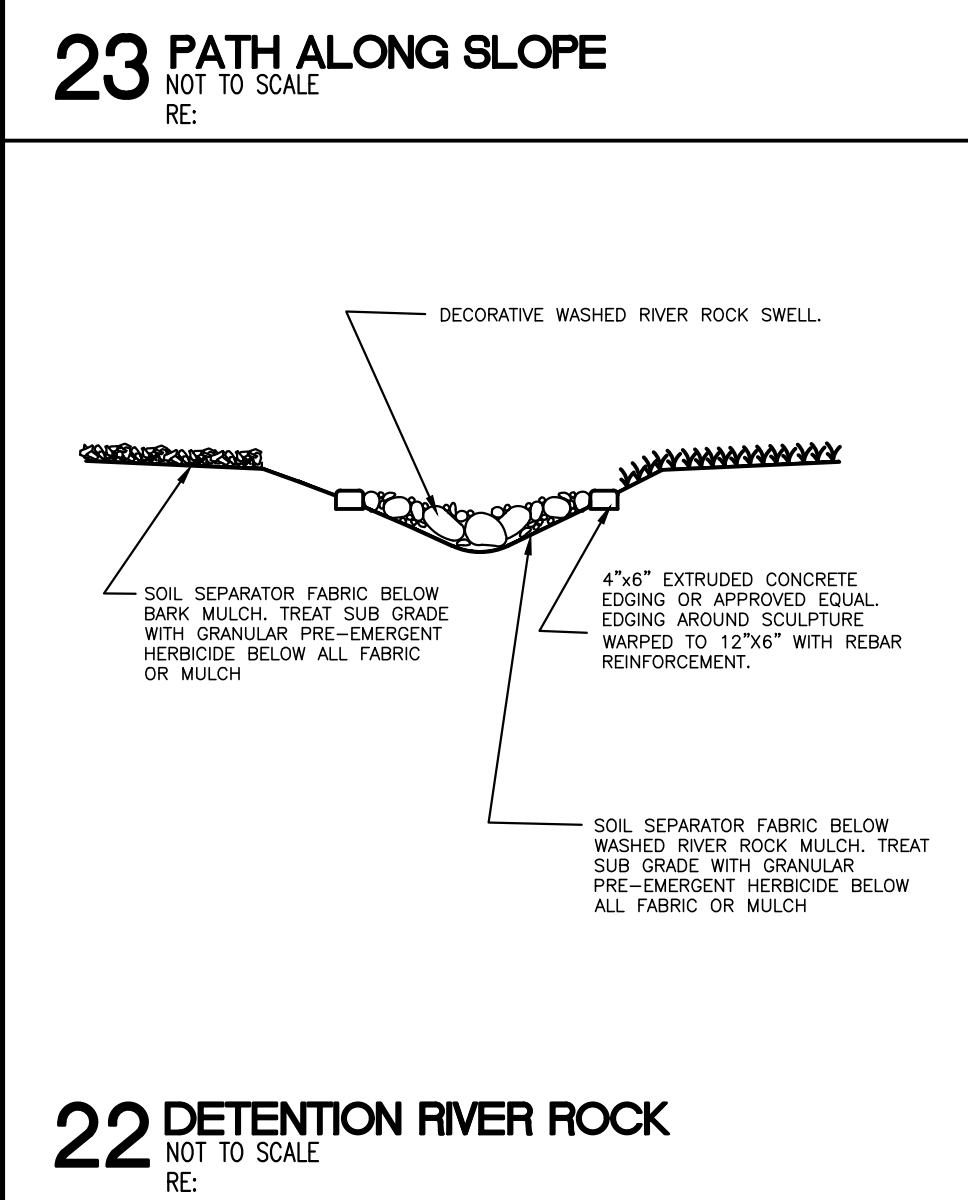
19 SLOPED MULCHED AREAS
NOT TO SCALE
RE:

NOTES:
ALL SLOPES THAT EXCEED 2:1 SLOPE SHALL HAVE A REINFORCEMENT MAT INSTALLED. (GREEN FIX AMERICA CFS 072R) STRAW/COCONUT FABRIC (LAST 2-3 SEASONS) OR APPROVED EQUAL. SEE GRADING PLANS FOR DESIGN SLOPES, FIELD OBSERVATION IS ALSO REQUIRED FOR AS-BUILT SLOPE RATIO.
SLOPE SEED MIX SHALL BE USED TO RE-VEGETATE THE SLOPES THROUGHOUT THE PROJECT. IT WILL BE APPLIED AT A RATE OF 47.1 LBS PLS PER ACRE.
THE SEED MIX WILL BE HYDRO-SEEDED ONTO ALL DISTURBED SLOPES THROUGHOUT THE PROJECT AREA AFTER THE GRADING IS COMPLETED AND WILL BE DEPENDENT ON THE SEASONALLY OF THE PLANTING AT ABOVE RATE.
FOR ALL UNDISTURBED SLOPES SEEDING SHALL BE BROADCAST AT ABOVE RATE.
FOR ALL DISTURBED SLOPES EXCEEDING 2:1 SEEDING SHALL BE BROADCAST BELOW AND ABOVE ALL EROSION CONTROL MAT IN LIEU OF HYDRO-SEEDED HOWEVER RATE SHALL BE INCREASED TO ENSURE GERMINATION IN SUCH CASE.
CONTRACTOR IS PERMITTED TO SUBSTITUTE EROSION CONTROL MAT INSTEAD OF HYDRO-SEEDED. THIS MAY BE DELAYED AFTER CONSTRUCTION UNTIL AN OPTIMAL SEASON FOR PLANTING. THESE GRASSES AND FORBS WILL PROVIDE SLOPE STABILITY, SOME UPLAND HABITAT. A SILT FENCE AT TOE OF SLOPE IS TO REMAIN INTACT AND MAINTAINED UNTIL LANDSCAPE HAS BEEN 100% INSTALLED (SODDED, MULCHED, HYDRO-SEEDED OR EROSION CONTROL MAT HAS BEEN PLACED).
SPECIES PLANTING RATE (PLS. #'S/ACRE) CRESTED WHEAT GRASS (AGROPYRON CRISTATUM), 4.5. SMOOTH BRUME (BROMUS INTERMEZZI), 3.5. INTERMEDIATE WHEAT GRASS (AGROPYRON INTERMEDIA), 4.5. GREAT BASIN WILD RYE (ELYMUS CINEREUS), 3.5. RUSSIAN WILD RYE (ELYMUS JUNGEUS), 3.5. WESTERN WHEAT GRASS (AGROPYRON SMITHII), 2.0. INDIAN RICE GRASS, 3.0. SAND DROP SEED (SPOROBIOLUS CRYPTANDRUS), 1.0. CANADA WILD RYE (ELYMUS CANADENSIS), 1.0. SLENDER WHEAT GRASS (AGROPYRON TRACHYCAULUM), 5.0. YARROW (ACHILLEA MILLEFOLIUM), 1.0. BLUE FLAX (LINUM LEWISII), 2.5. PALMER PENSTEMON (PENSTEMON PALMERII), 1.0. CALIFORNIA POPPY (ESCHSCHULTZIA CALIFORNICA), 1.0. MOUNTAIN BIG SAGE (ARTEMESIA TRIDENTATA VASEYANA), 0.1. QUICKGUARD STERILE (TRITOSECALE), 10.0. TOTAL 47.1

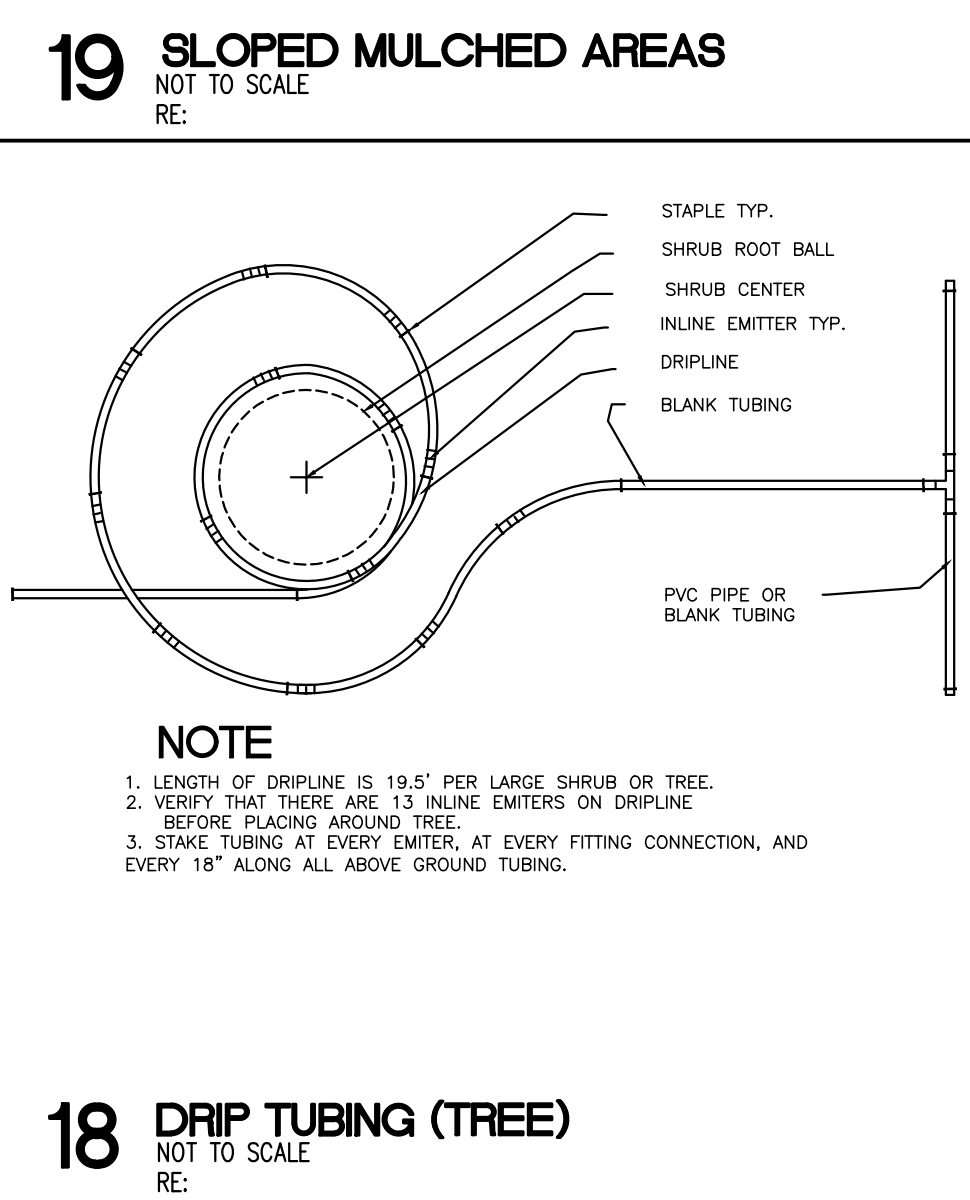
16 SYMBOL LEGEND PLANTING
NOT TO SCALE
RE:

LANDSCAPE NOTES

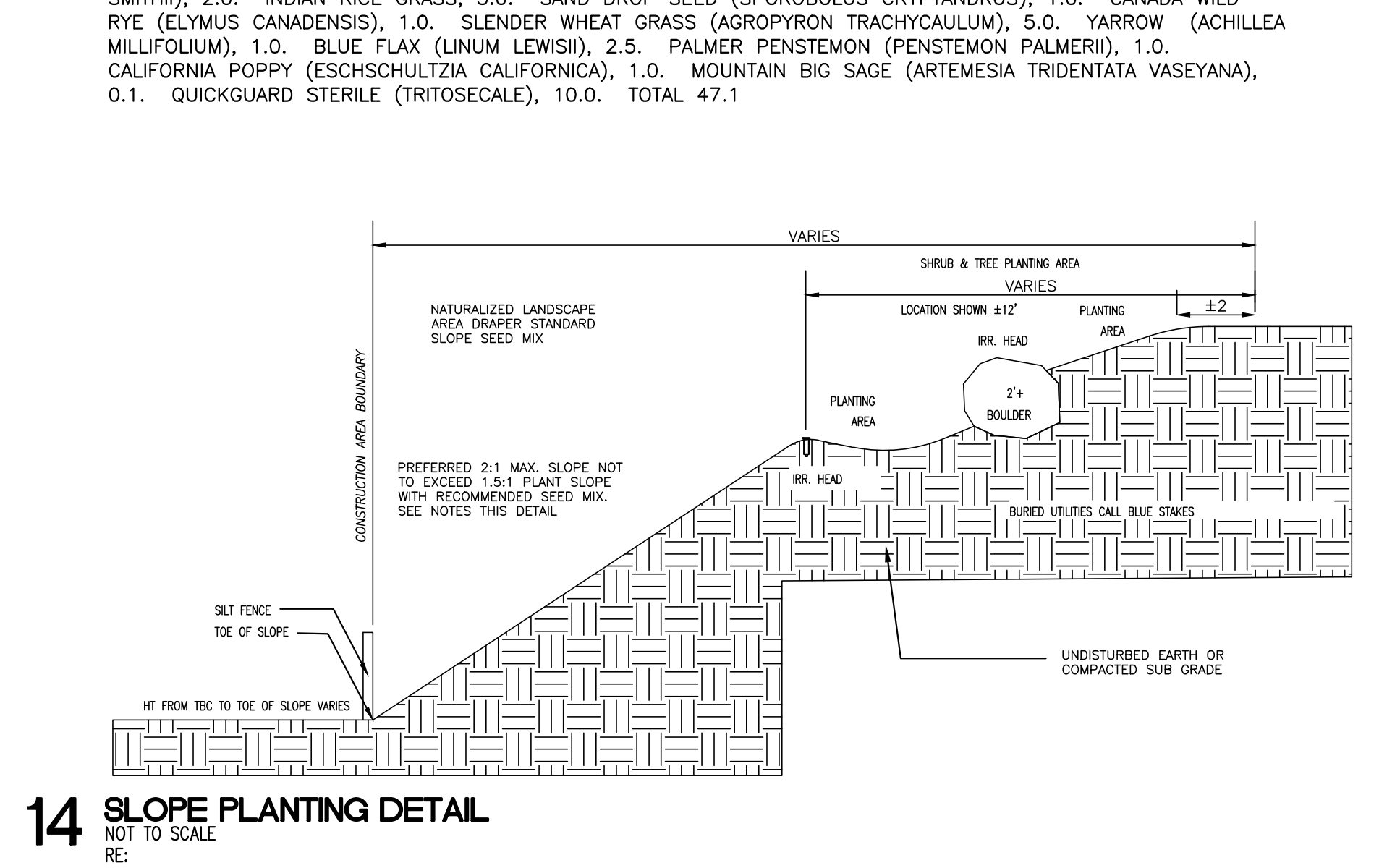
- IT THE INTENTION OF THE OWNER AND THE LANDSCAPE ARCHITECT TO HAVE CONSTRUCTED UNDER THE CONSTRUCTION CONTRACT, A COMPLETE LANDSCAPE PROJECT READY FOR OCCUPANCY AND USE. THE GENERAL CONTRACTOR AND HIS SUB CONTRACTORS SHALL VIEW THESE DOCUMENTS ACCORDINGLY. ANY APPARENT QUESTION, INCOMPLETE AREA, AREAS OF DISCREPANCY OR CONTRADICTION IN THESE DOCUMENTS ARE TO BE BROUGHT TO THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO SIGNING THE CONTRACT FOR CONSTRUCTION BY SUBMITTING A BID ON THIS PROJECT BIDDER CERTIFY THAT HE HAS FULLY INFORMED HIMSELF OF THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS AS THEY RELATE TO THE WORK AND HAVE READ AND UNDERSTAND THE NOTES AND SPECIFICATIONS, WORKING DRAWINGS AND SPECIFICATIONS. THE CONSTRUCTION DOCUMENTS SHALL BE USED TOGETHER AS ONE DOCUMENT. ANY CONFLICTS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
- INSPECTION AND CONSTRUCTION PROGRESS, VISITS OF THE LANDSCAPE ARCHITECTS WILL BE MADE DURING THE COURSE OF INSTALLATION ON A PERIODIC BASIS AS DIRECTED. OBSERVATIONS OR VISITS TO THE JOB SITE, ARE NOT TO BE CONSTRUED OR COMPREHENSIVE. THE VISIT INCLUDE INSPECTION OR SCRUTINY OF CONSTRUCTION METHODS OR SAFETY CONDITIONS OF THE WORK SITE.
- WILLFULLY INSTALL THIS WORK WHEN IT IS OBVIOUS JOB/SITE CONDITIONS EXIST THAT SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE REQUIRING REMEDIAL WORK WILL BE BACK CHARGED TO THE CONTRACTOR, THE CONTRACTOR ASSUME RESPONSIBILITY TO CORRECT THE WORK AT HIS EXPENSE, IF HE FAILS TO GIVE THE REQUIRED NOTIFICATION BEFORE STARTING.
- FIELD SURVEY, STAKES, AND STRING, THE LAYOUT AND LOCATION OF SITE CONSTRUCTION FEATURES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE THE ACTUAL CONSTRUCTION. THE LAYOUT SHALL CONFORM THE EXACT LOCATIONS, AND GRADE OF THE INTENDED WORK TO BE DONE. FAILING TO THE FIELD SURVEY, STAKES, STRINGS AND HAVE THE LAYOUTS APPROVED, THE CONTRACTOR GIVES UNCONTESTED CONSENT TO REMOVE OR ALL WORK WITHOUT DISCUSSION, IF DIRECTED TO DO SO BY THE LANDSCAPE ARCHITECT.
- COORDINATE ALL THE ASPECTS OF THE PLANTING PLANS WITH THE IRRIGATION SYSTEM AND CALL THE ATTENTION OF THE LANDSCAPE ARCHITECT TO ANY CONFLICTS IN PLACEMENTS OF PLANTS IN RELATION TO SPRINKLERS HEADS, LINES AND VALVES AT THE TIME OF THE INSTALLATION PHASE TAKES PLACE.
- FINISH GRADE OF SOIL IN LAWN AREAS, SHALL BE 2" BELOW PADS, WALKS, PAVING, HEADERS AND CURBS TO ACCOMMODATE SOIL GRADE IN AREAS WHEN SEEDED SHALL BE 1" LOWER THAN ADJACENT EDGE.
- FACE EACH SHRUB TO GIVE THE MOST PLEASING LOOK AS SEEM FROM A LINE PERPENDICULAR TO THE WALL OR WALK TO /FROM WHICH IS VIEWED. PRESERVE ALL THE NURSERY LABELS INTACT UNTIL AFTER ACCEPTANCE BY THE LANDSCAPE ARCHITECT, THEN REMOVE THEM BEFORE THE FINAL INSPECTION.
- LAWN EDGES SHALL BE CONSTRUCTED OF ALUMINUM, STEEL, OR CONCRETE TO THE PATTERN SHOWN ON THE PLAN TO SEPARATE SHRUB BEDS FROM THE GRASS. CONCRETE EDGING SHALL BE FIBER GLASS REINFORCED AND EITHER CAST IN PLACE OR PRE CAST, PROVIDE AND LOCALIZE THE LOW SPOTS IN NOW STRIP TO FACILITATE POSITIVE DRAINAGE.
- SHRUB BEDS SHALL DRAIN PROPERLY TO PREVENT STANDING WATER FROM OCCURRING CALL IMPROPERLY DRAINING PLANTERS OR PLANTING BEDS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BEFORE PLANTING. PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND WALLS. SLOPE LANDSCAPE AREAS 2% WHERE POSSIBLE.
- PLACE DISCOMPOSED GRANITE DESERT GOLD 4" DEEP IN THE SHRUB BEDS AS TOP DRESSING, UNLESS OTHERWISE NOTED. AN APPROVED WEED BARRIER SHALL BE INSTALLED UNDER ALL TOP DRESSED SHRUB BEDS.
- NO SUBSTITUTION SHALL BE MADE WITHOUT THE LANDSCAPE ARCHITECT APPROVAL BEFORE THE BIDDING PROCESS, SEE SPECIFICATIONS.
- SOIL AMENDMENT SHALL BE BY VOLUME AT 6 PARTS TOP SOIL 1 PART COMPOSTED MANURE, AND 1 PART SAND, TILL 4" OF AMENDED TOP SOIL 8" DEEP IN ALL PLANTER BEDS, VERIFY PROPER DRAINAGE WHEN FINISH GRADING PLANTER BEDS, INCLUDING SLOPING AWAY FROM ALL STRUCTURES



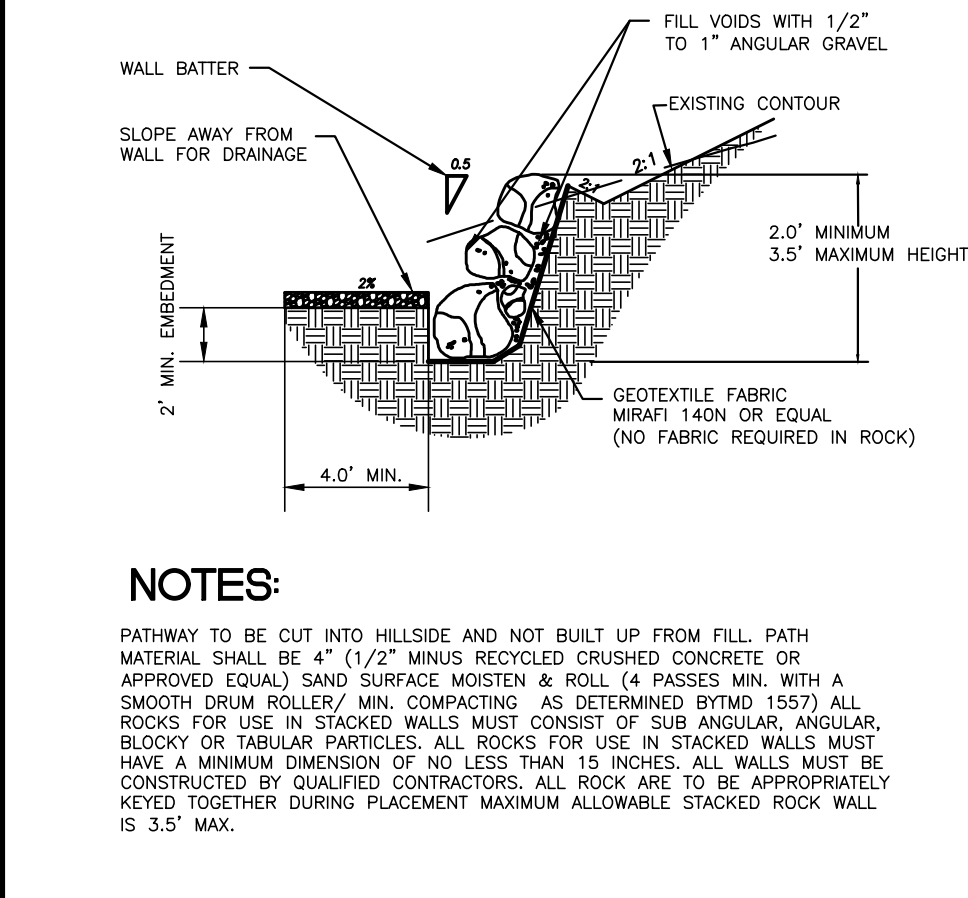
22 DETENTION RIVER ROCK
NOT TO SCALE
RE:



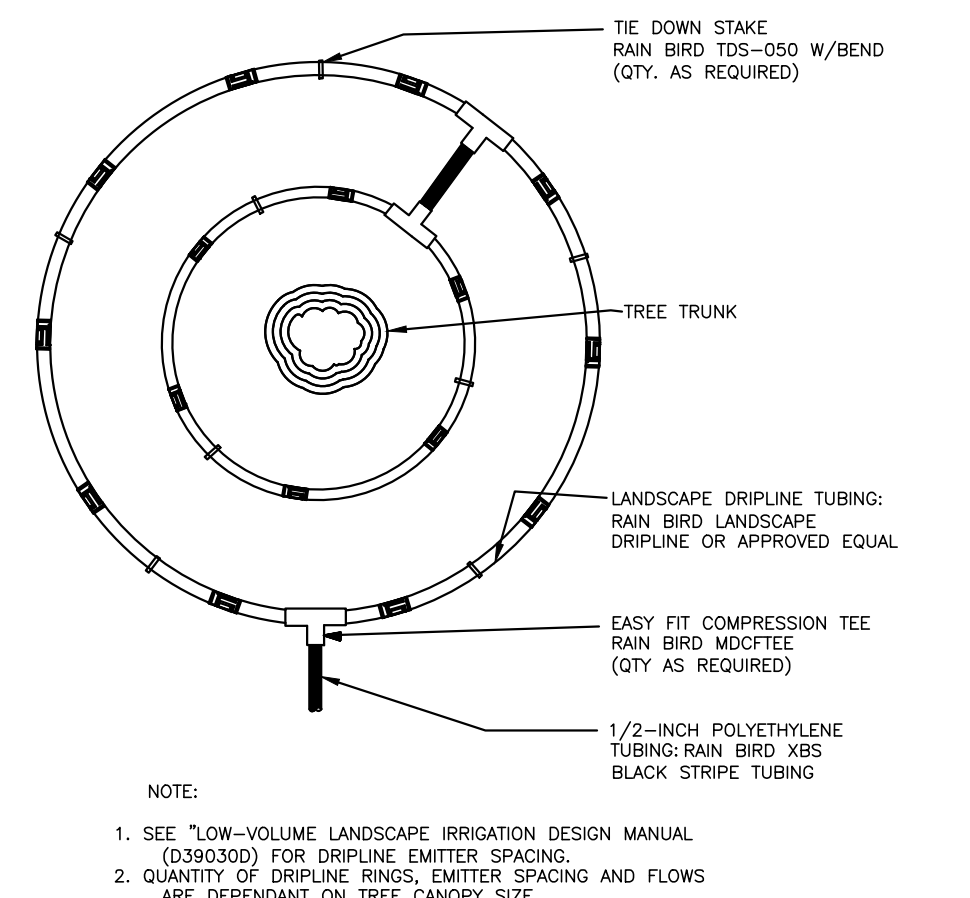
18 DRIP TUBING (TREE)
NOT TO SCALE
RE:



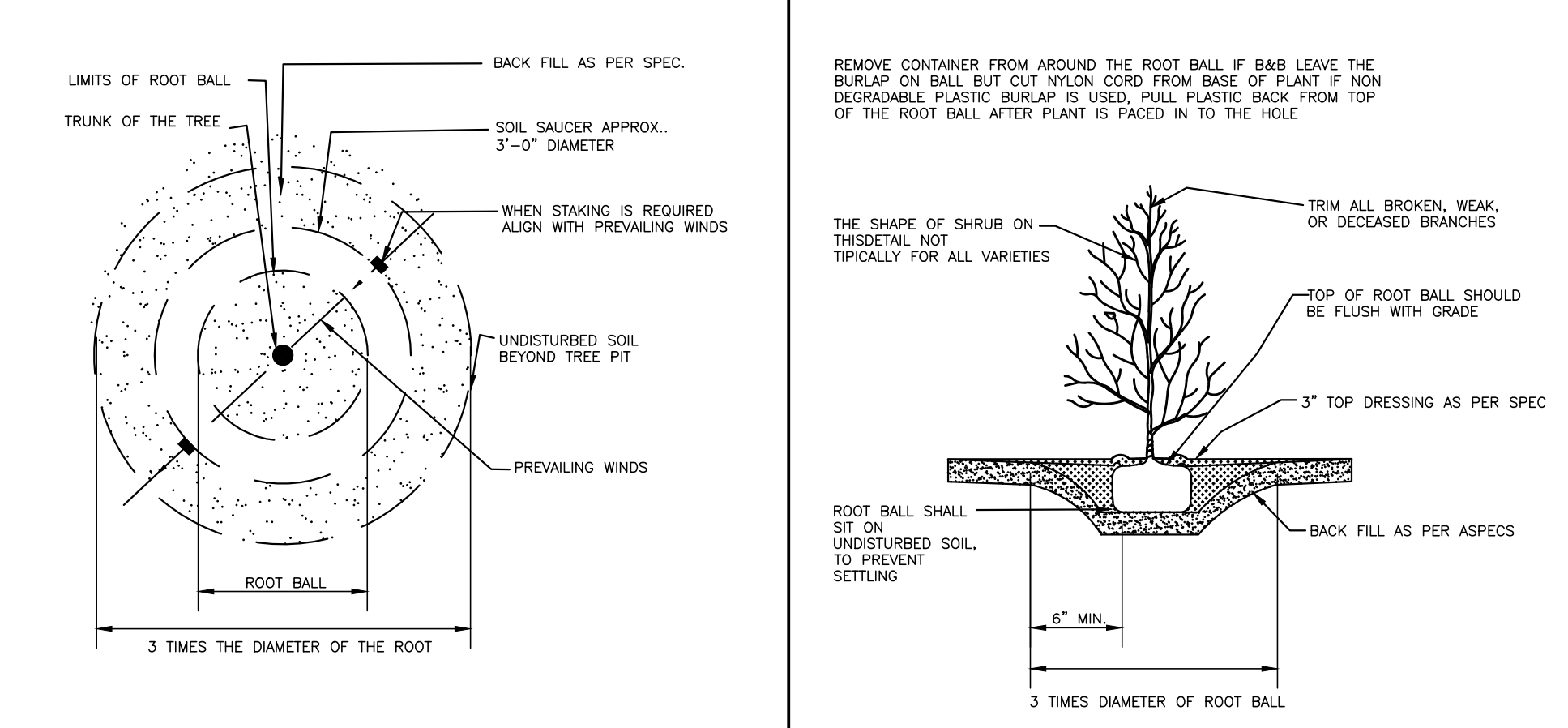
14 SLOPE PLANTING DETAIL
NOT TO SCALE
RE:



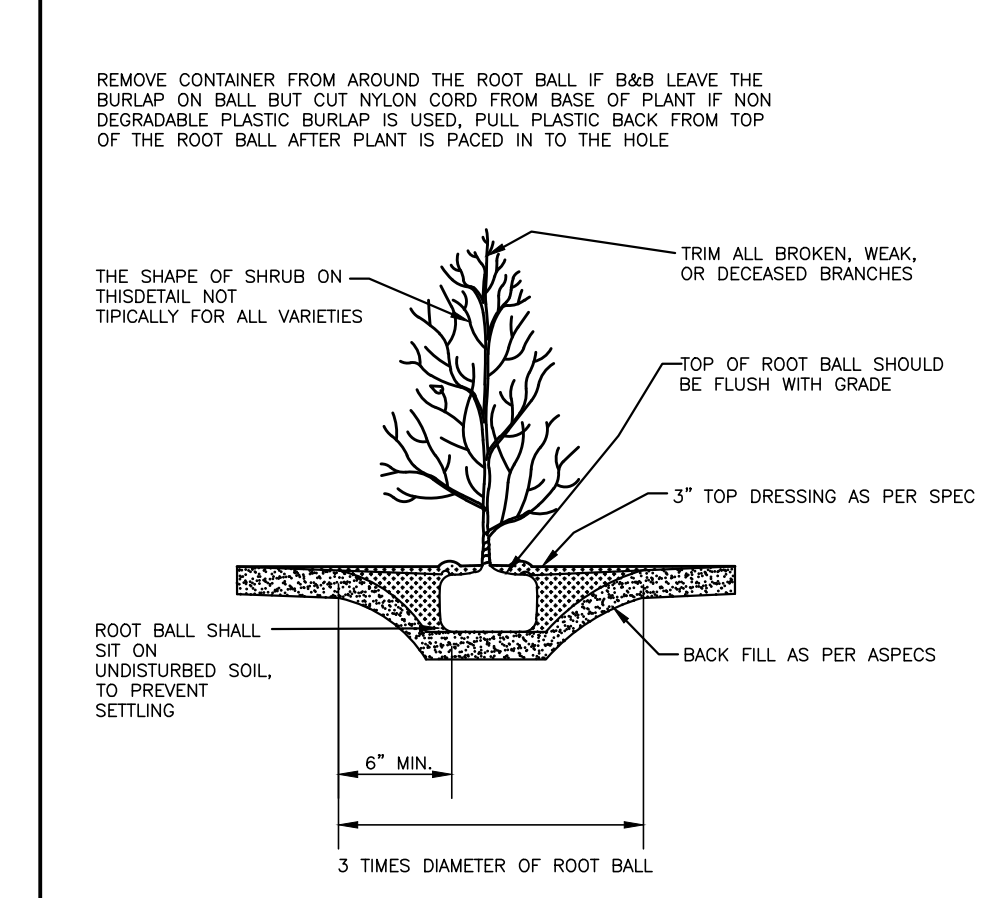
21 PATH ALONG SLOPE
NOT TO SCALE
RE:



17 DRIP LINE AROUND TREE
NOT TO SCALE
RE:



13 TREE PLANTING PIT DETAIL
NOT TO SCALE
RE:



9 SHRUBS PLANTING DETAIL
NOT TO SCALE
RE:

QTY.	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
	●	SHEPHERDIA ARGENTEA	SILVER BUFFALO BERRY	5 GAL.	AS SHOWN	
	●	DASYLIRION WHEELERI	DESERT SPOON	5 GAL.	AS SHOWN	
	●	EPHEDRA VIRIDIS	MORMON TEA	5 GAL.	AS SHOWN	
	●	YUCCA HARRIMANIAE	HARRIMAN YUCCA	5 GAL.	AS SHOWN	
	●	PAROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	5 GAL.	AS SHOWN	
	●	CARYOPTERIS X CLANDONENSIS	DARK KNITH BLUE MIST	5 GAL.	AS SHOWN	
	●	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL.	AS SHOWN	
	●	SALVIA DORRIL	DORR SAGE	5 GAL.	AS SHOWN	
	●	LAVANDULLA LATIFOLLA	ENGLISH LAVENDER	5 GAL.	AS SHOWN	

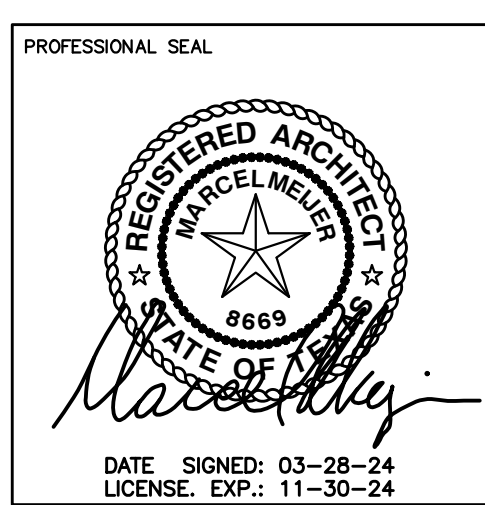


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEVP1.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
LICENSE, EXP: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
LANDSCAPING DETAILS AND SPECIFICATION

DRAWING NUMBER
DEVP1

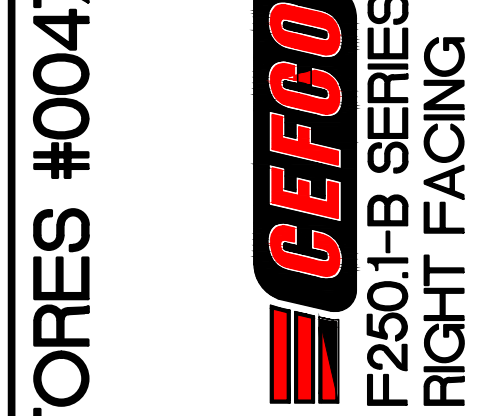
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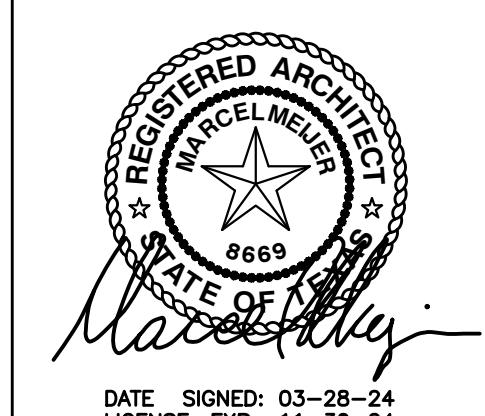
PROJECT NUMBER
CEF22-DEVP2.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047



CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
McLENNAN COUNTY
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FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



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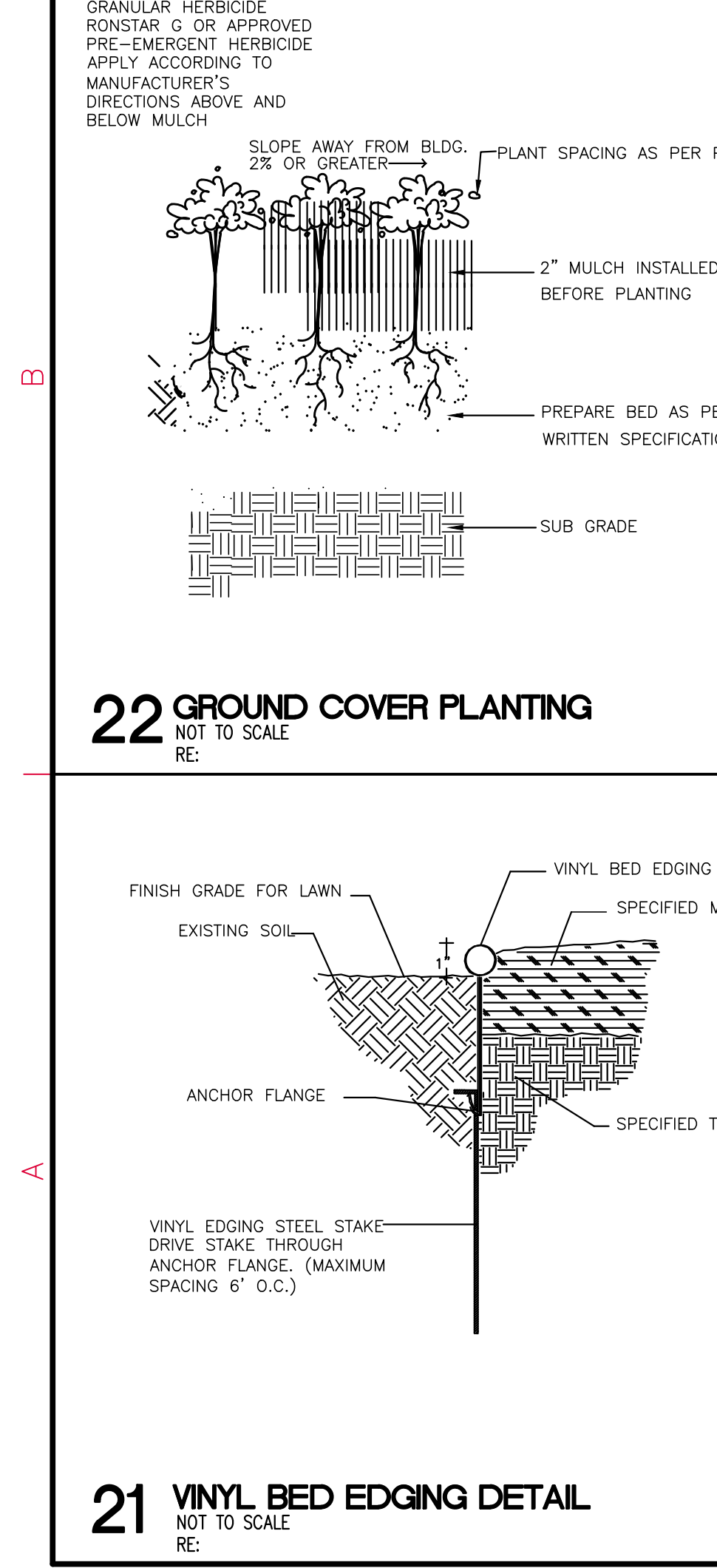
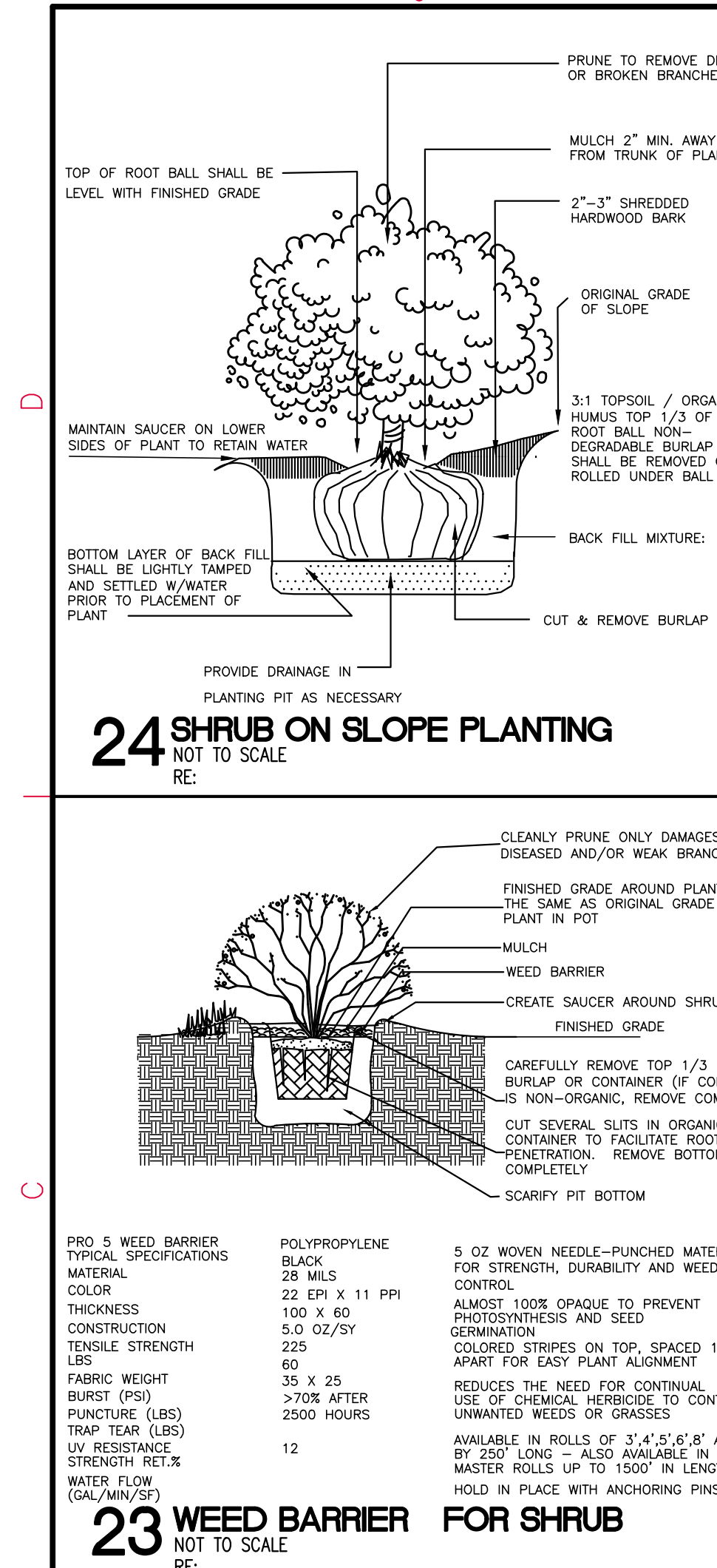
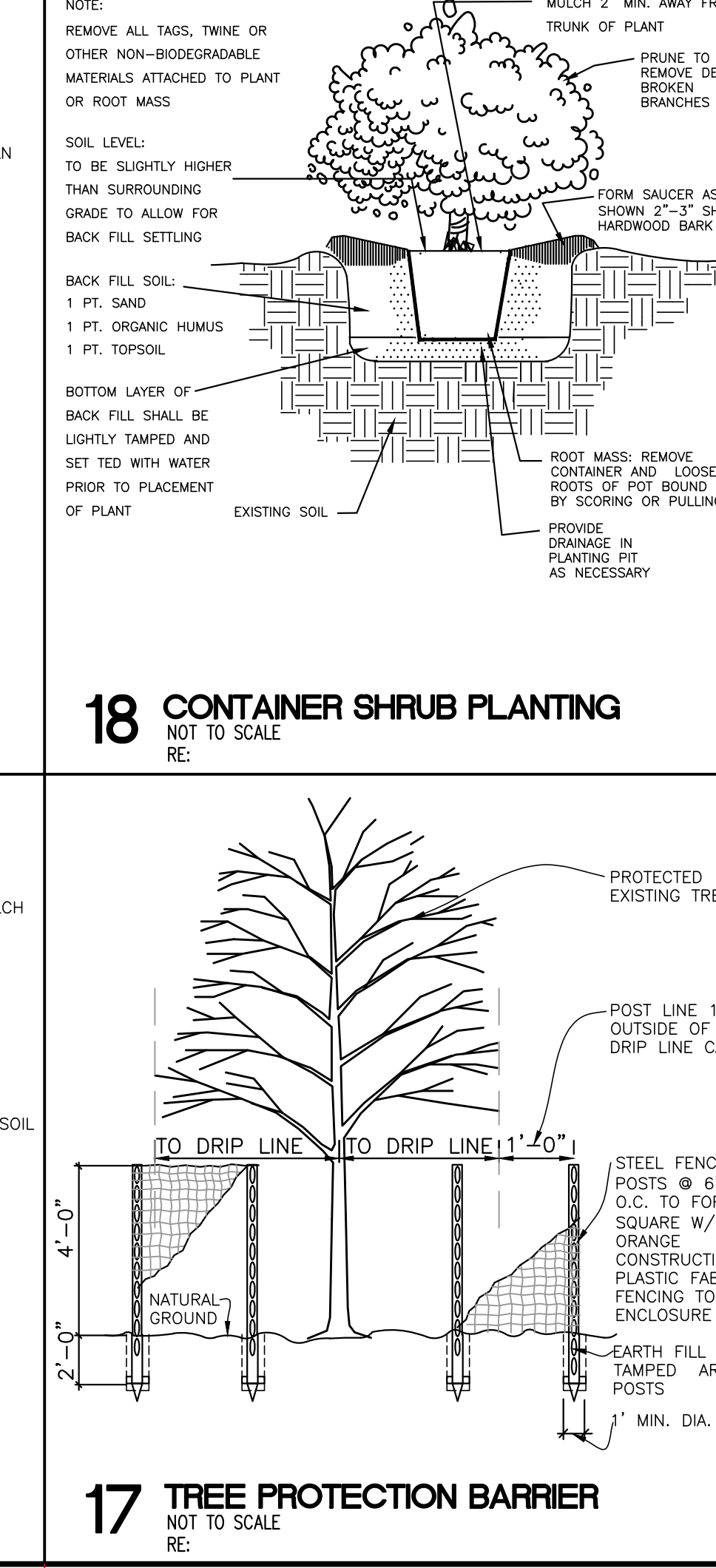
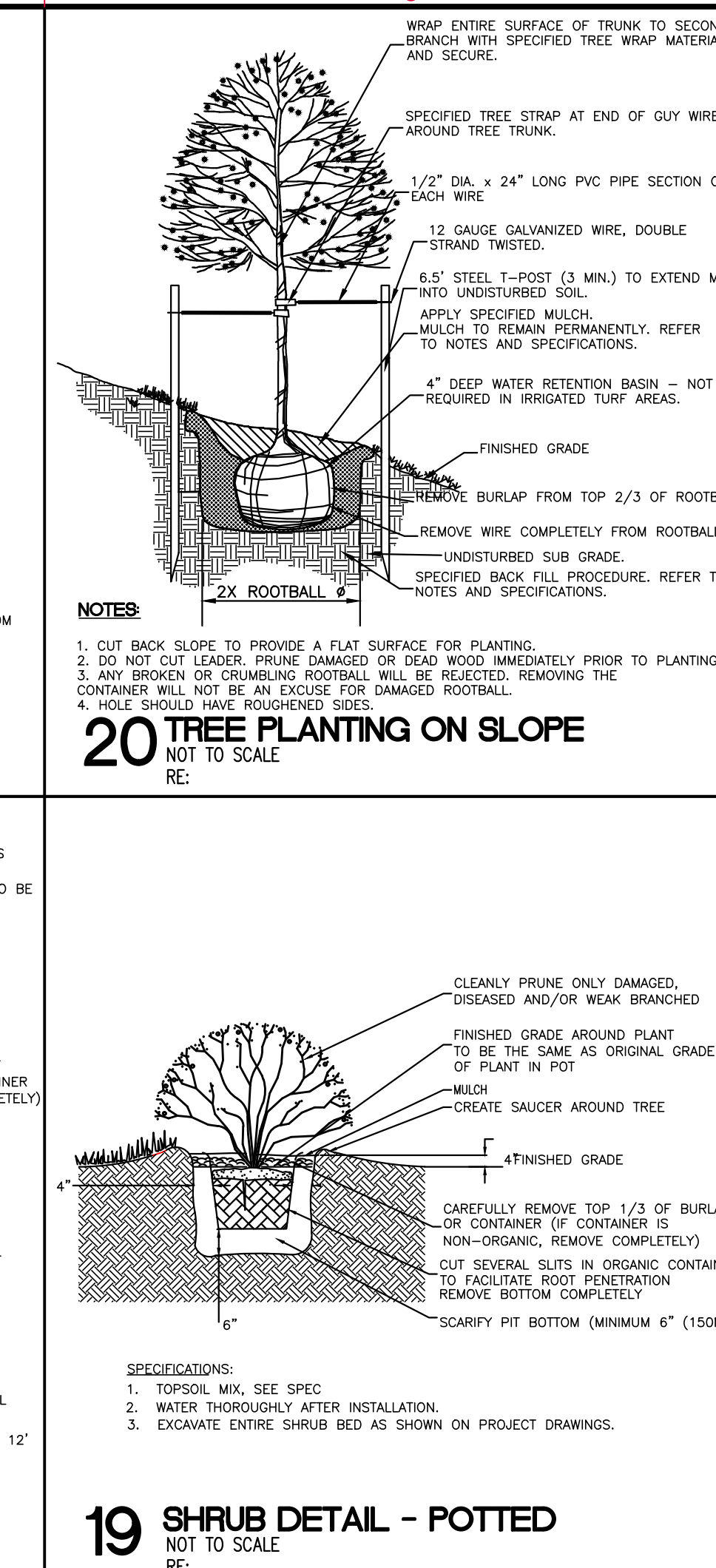
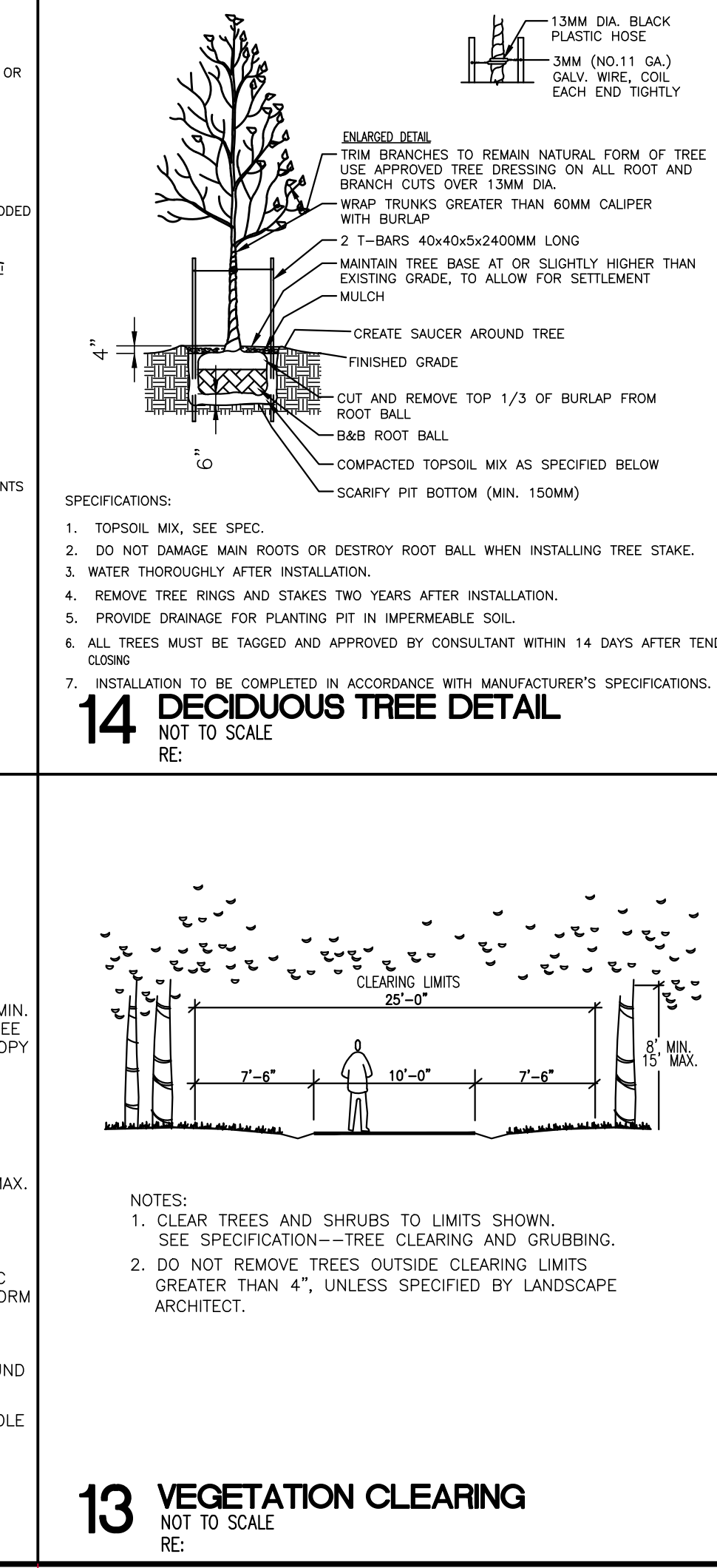
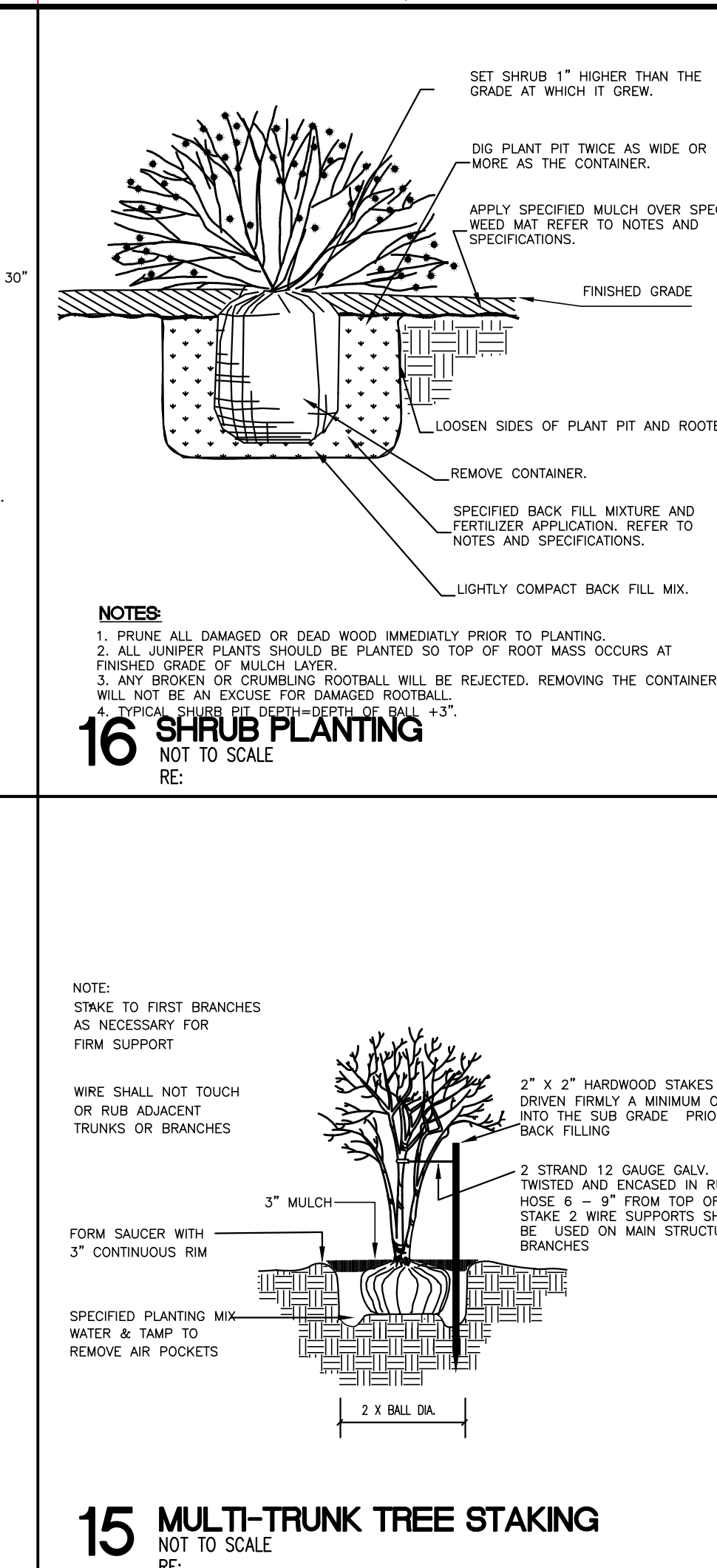
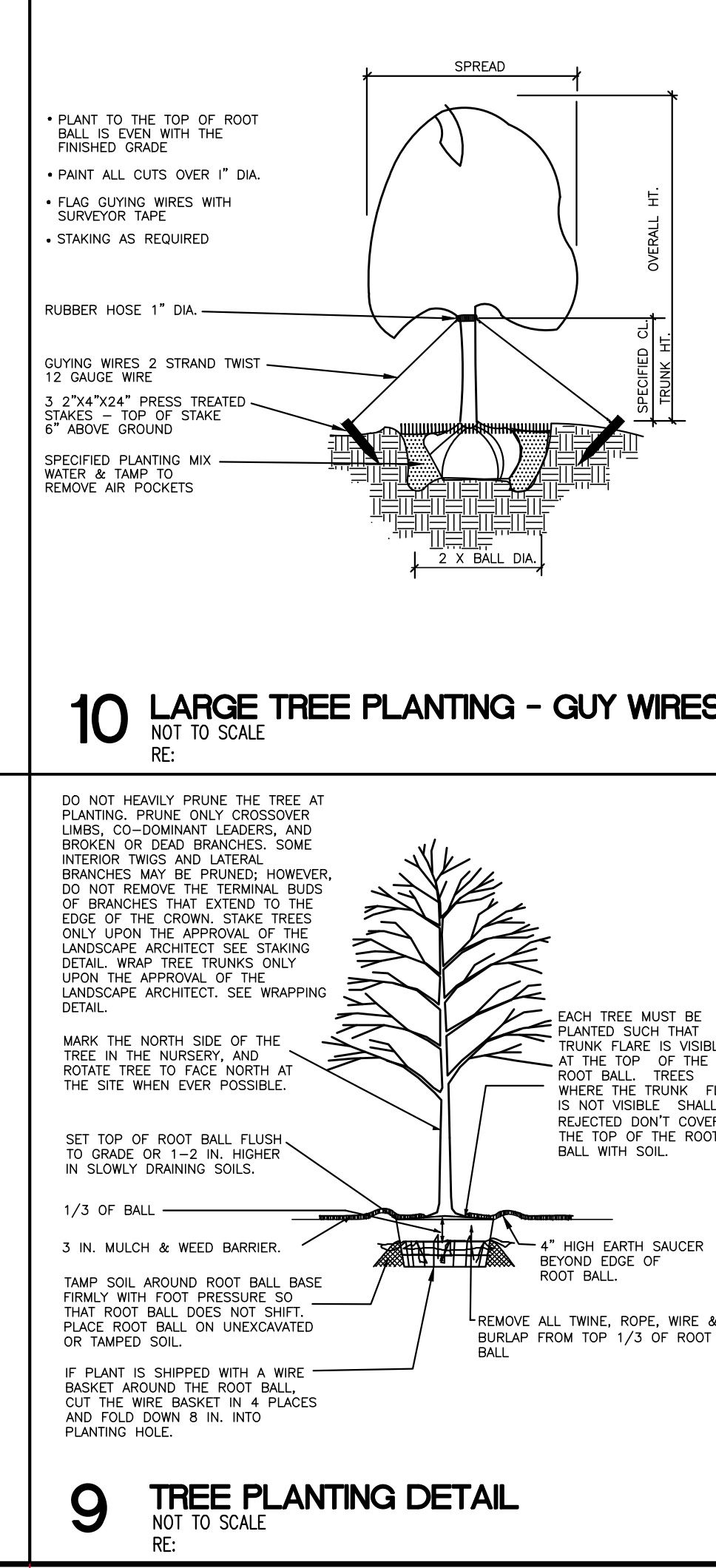
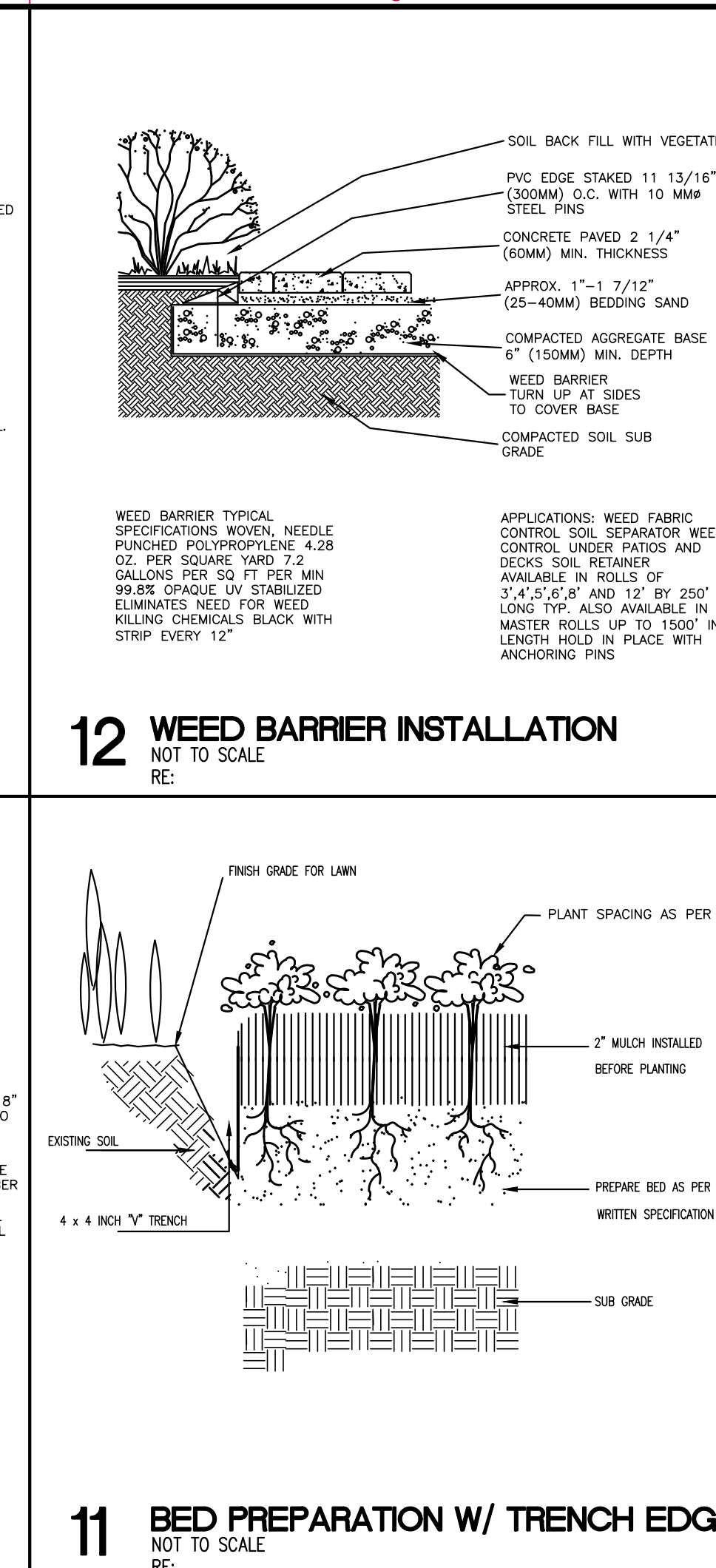
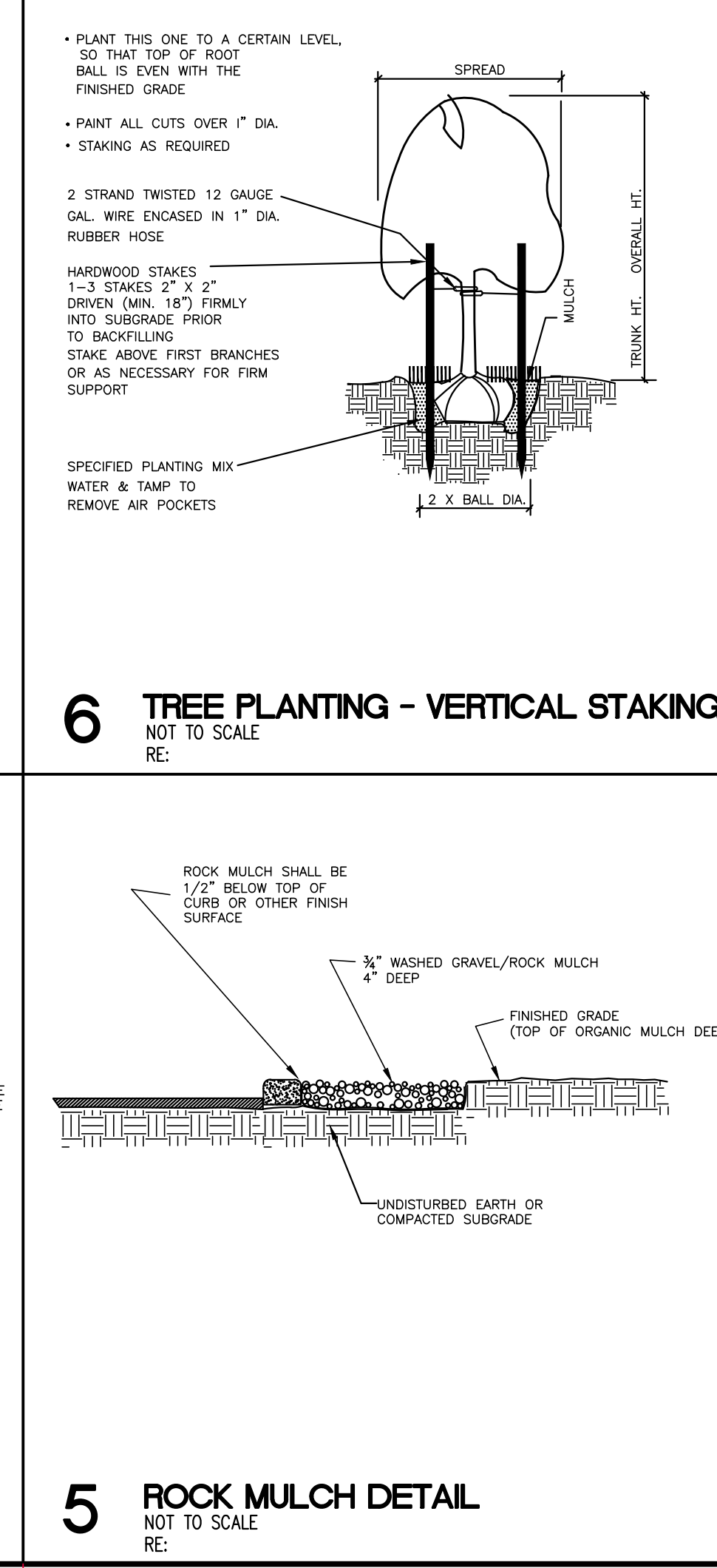
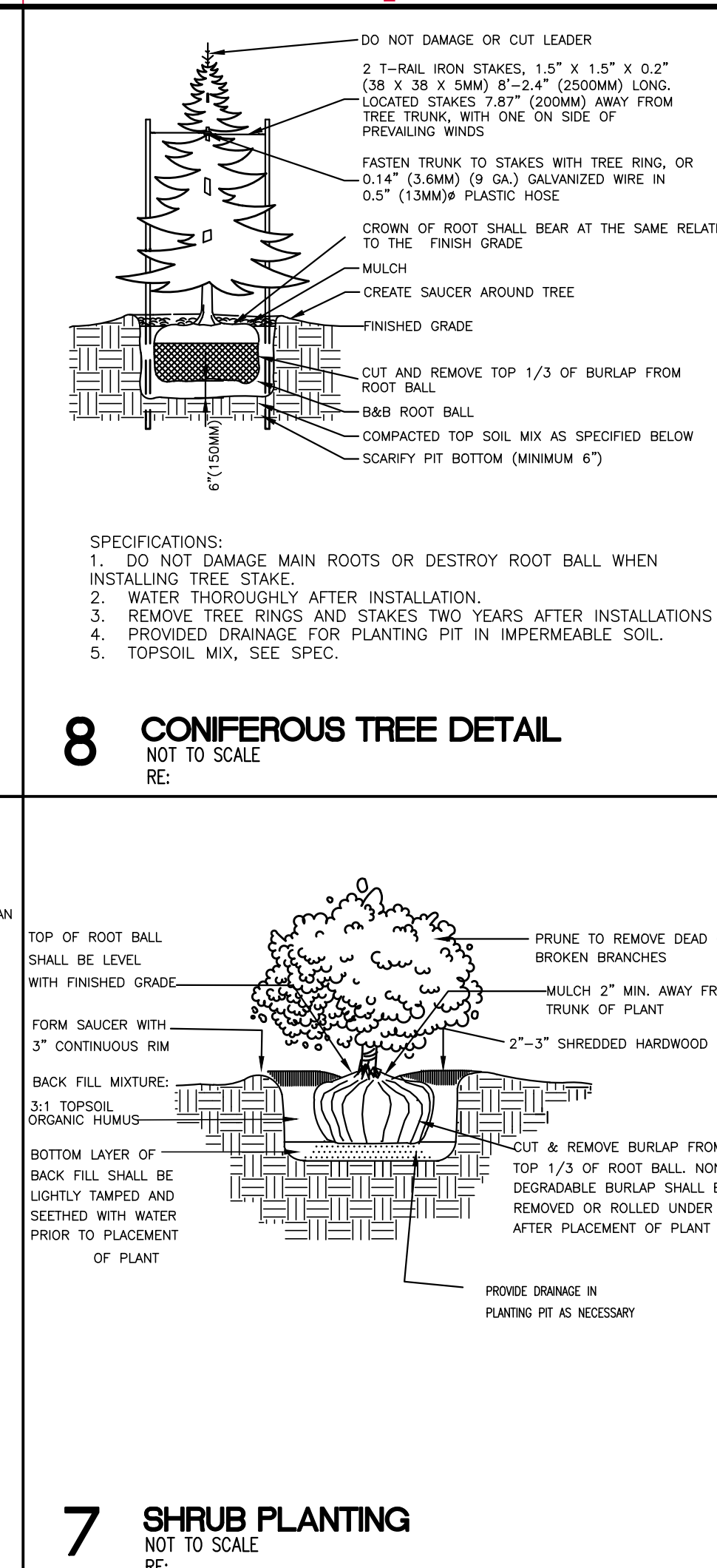
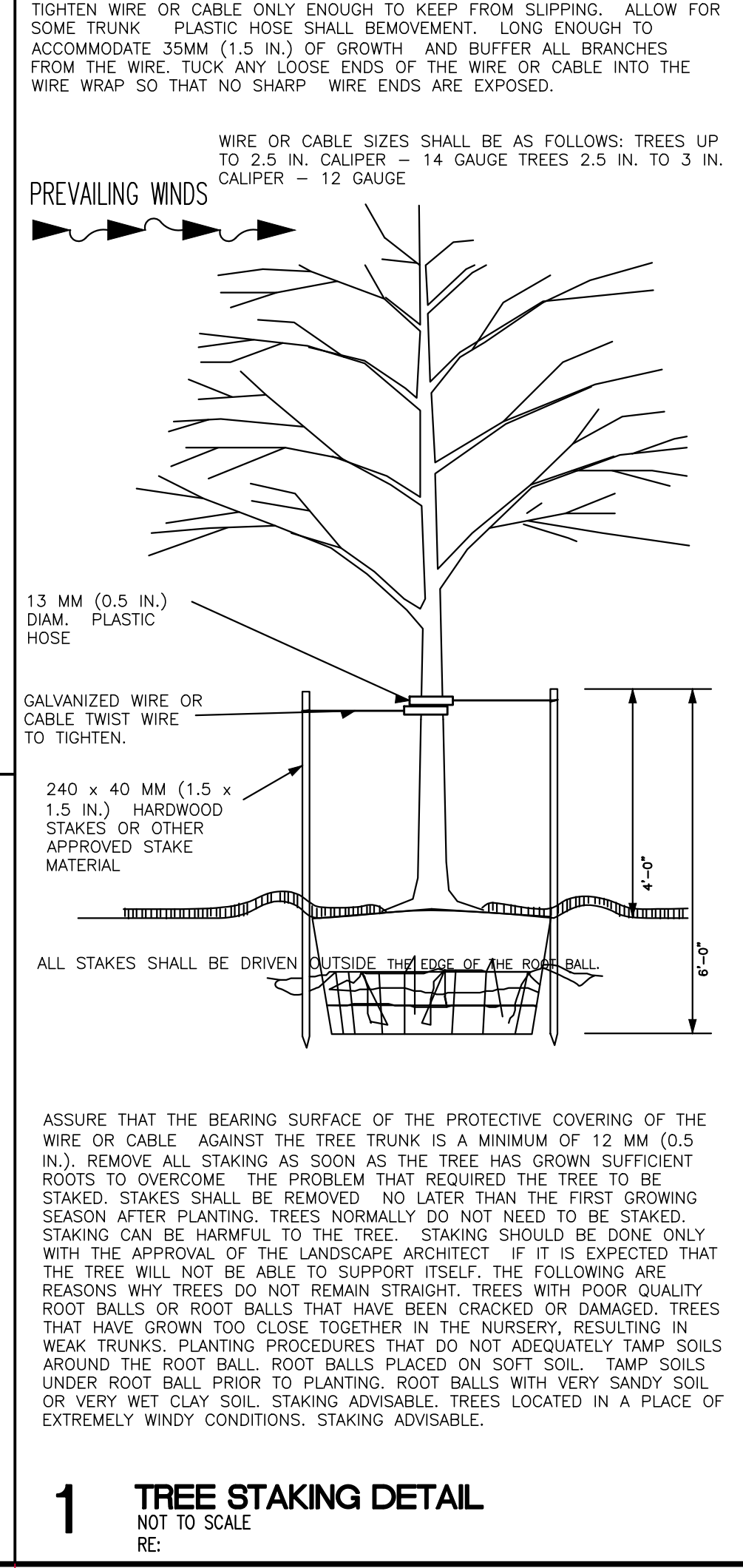
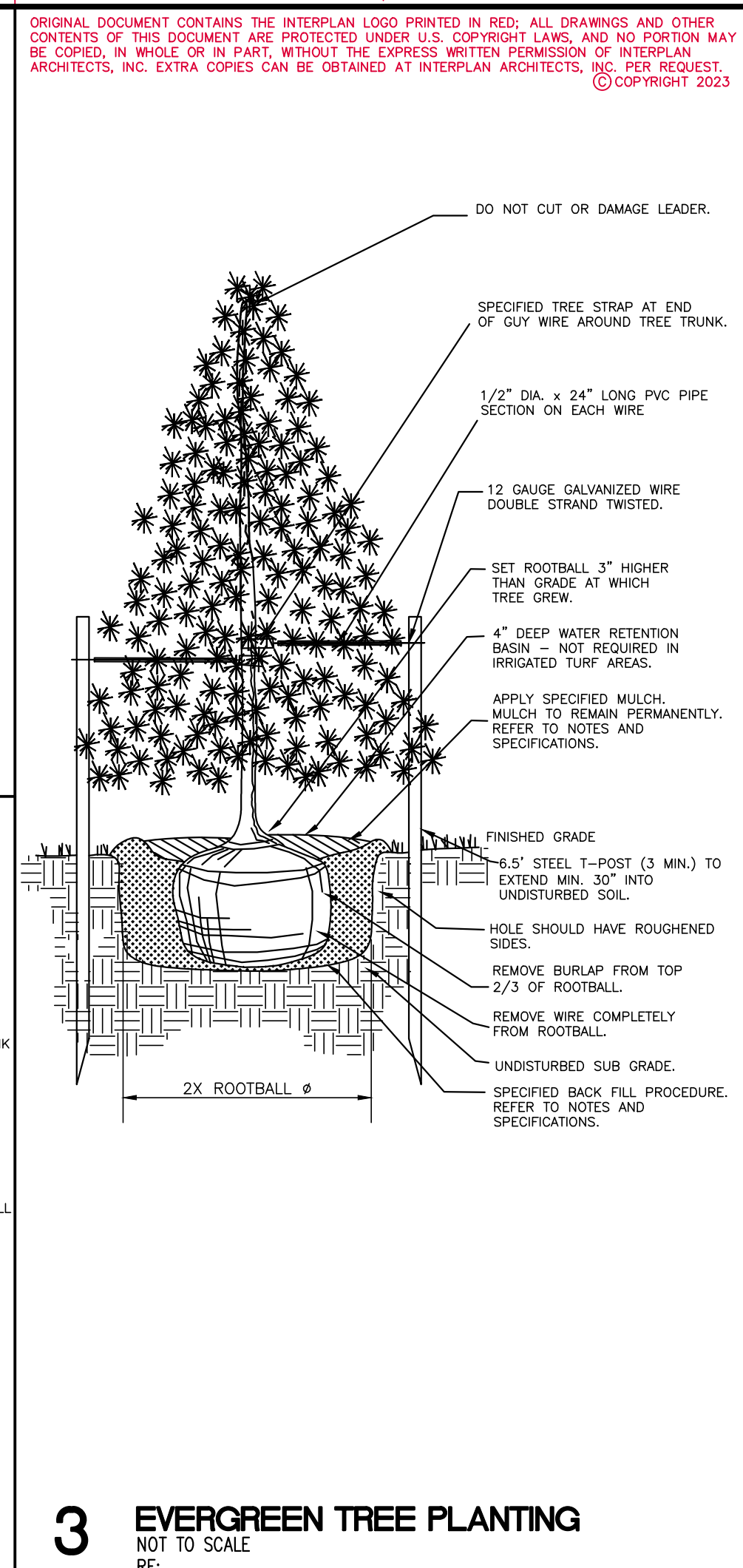
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
LANDSCAPING DETAILS AND SPECIFICATIONS

DRAWING NUMBER
DEVP2



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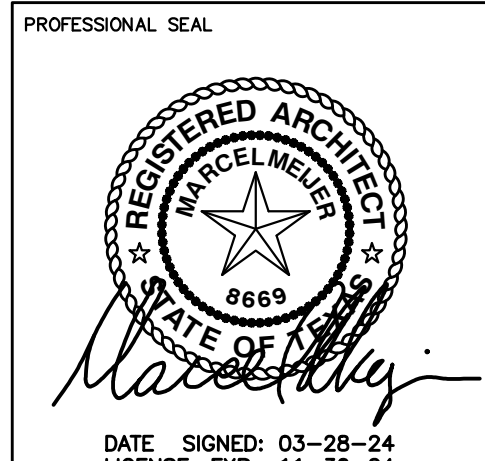
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEf22-IRR.DWG

PROJECT TITLE

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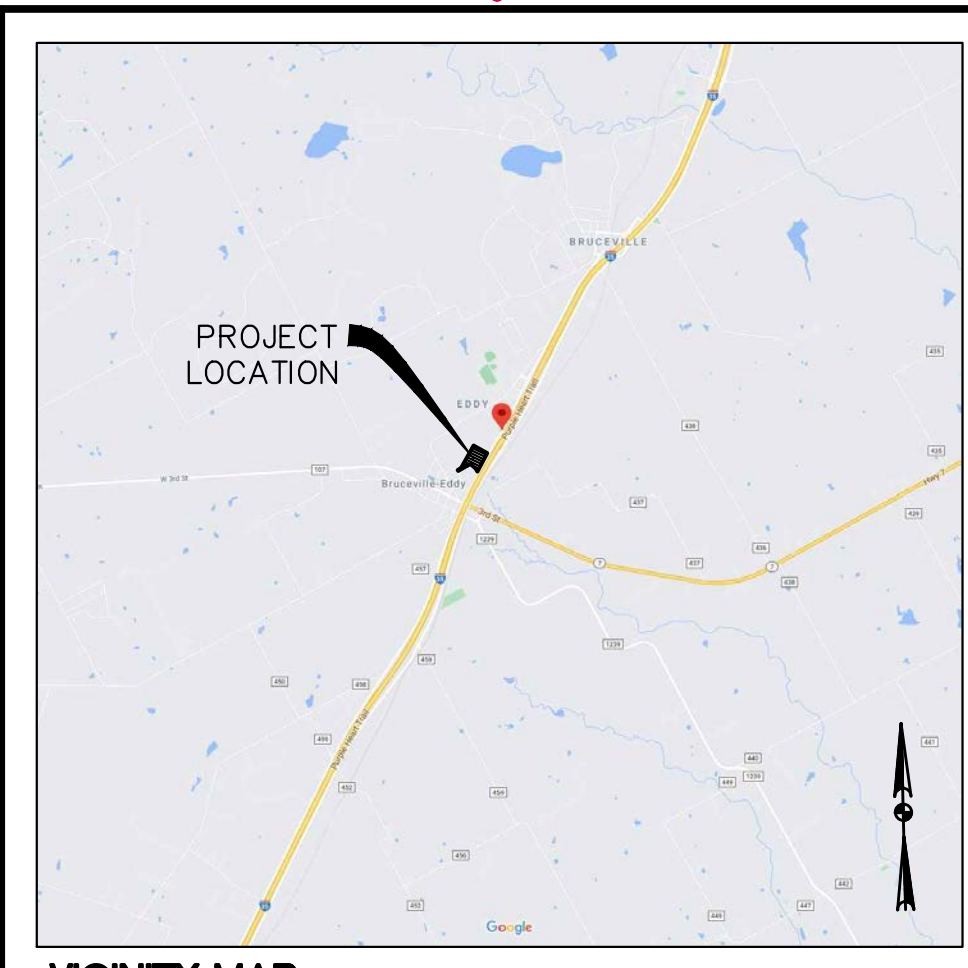
REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE
PRELIMINARY LANDSCAPING SPRINKLER LAYOUT PLAN

DRAWING NUMBER SHEET NO.
IRR



VICINITY MAP
N.T.S.

IRRIGATION SYSTEM NOTES:

1. ALL LANDSCAPING RESTORATION WITHIN PUBLIC ROAD RIGHTS OF WAY MUST BE COORDINATED.

LEGEND

SPRINKLER LEGEND

ZONE VALVE	△ (SEE ZONE LABEL)
SPRINKLER HEAD	●
MAIN LINE/LATERAL LINE	—
BRANCH LINE	---
RAIN SENSOR	R

1. DOMESTIC WATER METER IN ACCORDANCE W/ LOCAL CODE WITH A REFER TO CIVIL DRAWINGS FOR DETAILS.
2. IRRIGATION METER AND CONTROL VALVE BOX FOR LANDSCAPING IN SETBACK AREAS. BACKFLOW PREVENTOR BY SPRINKLER INSTALLER. BACKFLOW PREVENTOR MUST BE A PRESSURE VACUUM BREAKER TYPE. REFER TO CIVIL DRAWINGS FOR DETAILS.
3. PROPOSED RAIN/FREEZE SENSOR TO BE INSTALLED PER LOCAL CODE BY LICENSED IRRIGATION CONTRACTOR.

IRRIGATION ZONE LABEL

ZONE No.	VALVE SIZE	ZONE TYPE	HEAD TYPE	No. OF HEADS	TOTAL GPM	ZONE PSI
1	1"	TURF/TREES	ROTOR/SPRAY	23	2.50	30 PSI
2	1"	TURF/TREES	ROTOR/SPRAY	22	2.50	30 PSI
3	1"	TURF/TREES	ROTOR/SPRAY	12	2.50	30 PSI

GENERAL NOTES:

1. PLACEMENT OF VALVES AND PIPES ARE DIAGRAMMATIC.
2. PLACEMENT OF IRRIGATION COMPONENTS (EXCLUDING HEADS AND LATERALS) SHALL BE INSTALLED WITHIN PROPERTY LIMITS

IRRIGATION EQUIPMENT TABLE

SYMBOL & PART	EQUIPMENT
SEE IRR. ZONE TABLE	ZONE VALVE
[C] RAINBIRD ESP-28MC	HYBRID CONTROLLER
[R] RAINBIRD RSD-BE-X	RAIN SENSOR
RAINBIRD - 33DLRC	3/4" QUICK COUPLE VALVE

DRIP IRRIGATION EQUIPMENT & QUANTITIES SHALL BE DETERMINED BY THE IRRIGATION CONTRACTOR

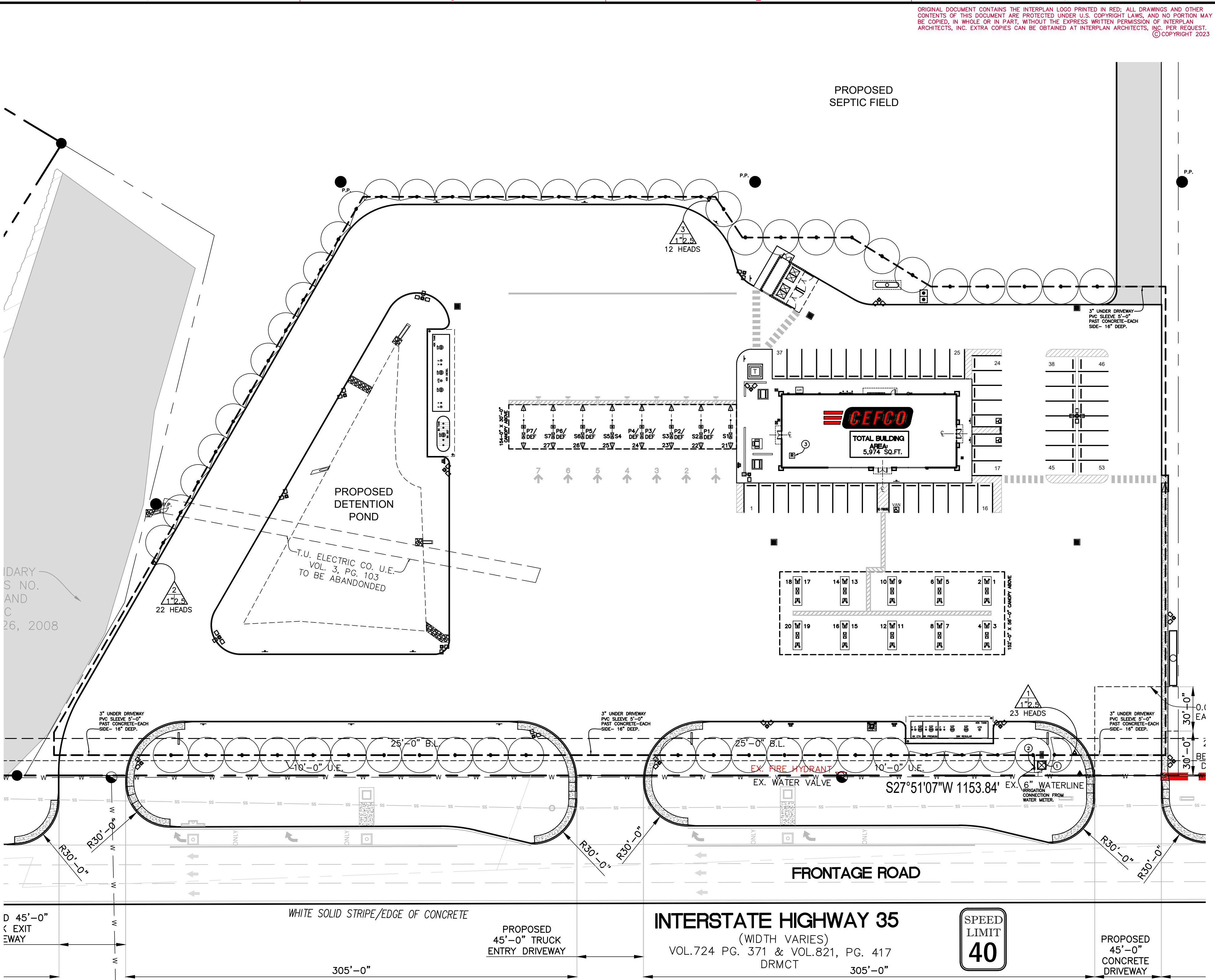
IRRIGATION HEADS TABLE

PART No.	PSI	SPRINKLER HEAD
RW5-B-C-G	30	RAINBIRD RW5 - ROOT WATERING SYSTEM 1401 BUBBLER W/ACV-050 CHECK VALVE
3504-PC-SAM-0.75	30	RAINBIRD 3500 SERIES ROTORS 0.75 NOZZLE ADJ
3504-PC-SAM-1.0	30	RAINBIRD 3500 SERIES ROTORS 1.0 NOZZLE ADJ
3504-PC-SAM-1.5	30	RAINBIRD 3500 SERIES ROTORS 1.5 NOZZLE ADJ
1804-SAM-PRS-5H-B	30	RAINBIRD 1800 SERIES MPR 5 SERIES STREAM BUBBLERS (GRAY) 180
1804-SAM-PRS-5F-B	30	RAINBIRD 1800 SERIES MPR 5 SERIES STREAM BUBBLERS (GRAY) 360
1804-SAM-PRS-5Q	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (RED) 090
1804-SAM-PRS-5H	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (RED) 180
1804-SAM-PRS-5F	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (RED) 360
1804-SAM-PRS-8Q	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (GREEN) 090
1804-SAM-PRS-8H	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (GREEN) 180
1804-SAM-PRS-8F	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (GREEN) 360
1804-SAM-PRS-10Q	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BLUE) 090
1804-SAM-PRS-10H	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BLUE) 180
1804-SAM-PRS-10F	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BLUE) 360
1804-SAM-PRS-12Q	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BROWN) 090
1804-SAM-PRS-12T	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BROWN) 120
1804-SAM-PRS-12H	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BROWN) 180
1804-SAM-PRS-12TT	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BROWN) 270
1804-SAM-PRS-12F	30	RAINBIRD 1800 SERIES MPR 5 SERIES PRS (BROWN) 360

DRIP IRRIGATION EQUIPMENT & QUANTITIES SHALL BE DETERMINED BY THE IRRIGATION CONTRACTOR

IRRIGATION NOTES

1. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO ALL APPLICABLE STATE OF TEXAS, CITY AND COUNTY CODES.
2. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS PRIOR TO ACTUAL WORK ON SITE.
3. THE INTENT OF THE 100% COVERAGE OF ALL LANDSCAPE AREAS.
4. PRIOR TO COMMENCEMENT OF WORK, THE IRRIGATION CONTRACTOR SHALL CONTACT THE OWNER TO COORDINATE ALL REQUIRED INSPECTIONS.
5. EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITY EASEMENTS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UTILITY LOCATIONS (TELEPHONE, TV, GAS, ELECTRICAL, WATER, CABLE, ETC.). THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INFLICTED ON ANY AND ALL UTILITY LINES.
6. THE IRRIGATION CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL RECEIPT OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION FROM THE OWNER.
7. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST THE SYSTEM FOR OPTIMUM PERFORMANCE. THIS SHALL INCLUDE REGULATING THE PRESSURE AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
8. USE GLUE JOINTS IN MAINLINE PASSING THROUGH SLEEVES UNDER PAVEMENT. PVC SLEEVES SHALL BE SCHEDULE 40 AND SHALL EXTEND 24" OUT OF THE NEAREST EXISTING PAVEMENT AREAS FOR EASY LOCATION. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE ALL SLEEVE LOCATIONS ON THE PROJECT SITE WITH THE OWNER AND/OR GENERAL CONTRACTOR.
9. THE IRRIGATION CONTRACTOR SHALL ALSO COMPLY TO THESE ADDITIONAL SPECIAL REQUIREMENTS TO THE IRRIGATION SYSTEM SHALL INCLUDE THE FOLLOWING:
 - a. ALL MAINLINES SHALL HAVE A MINIMUM OF 18" OF COVER (SCH. 40 PVC PIPE).
 - b. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER (SCH. 40 PVC PIPE).
 - c. NO ROCKS, BOULDERS OR OTHER EXTRANEOUS MATERIALS SHALL BE USED FOR BACKFILLING OF TRENCHES.
 - d. ALL PIPES TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
 - e. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
 - f. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF ANY SPRINKLER HEADS.
 - g. SPRINKLER AND RELATED EQUIPMENTS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION.
 - h. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
 - i. ALL 24 VOLT WIRE SHALL BE NO. 12UF/UL FOR COMMON WIRE AND NO. 14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL SHALL BE SOLID COPPER.
 - j. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE IRRIGATED, I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES OR SIZING DOWN SPRINKLER HEADS TO AVOID EXCESSIVE OVERTHROW.
 - k. THE IRRIGATION CONTRACTOR SHALL REFER TO LANDSCAPE PLANTING PLAN TO KEEP SPRINKLER EQUIPMENTS AND ACCESSORY MATERIALS FROM INTERFERING WITH PROPER PLANTING; I.E. VERIFY ROOTBALL SIZE FOR PLANTING; CONFIGURATION OF SHRUB/GROUND COVER BEDS, ETC.
 - l. THE IRRIGATION CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
 - m. THE IRRIGATION CONTRACTOR SHALL UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
 - n. ALL SPRINKLER HEADS SHALL BE MOUNTED ON SWING JOINTS UNLESS OTHERWISE NOTED.
 - o. THE IRRIGATION CONTRACTOR SHALL INSTALL A SEPARATE COMMON FOR EACH CONTROLLER.
 - p. 24 VOLT WIRE SHALL BE COLOR CODED: COMMON SHALL BE WHITE AND CONTROL RED.
 - q. THE IRRIGATION CONTRACTOR SHALL INSTALL MANUFACTURER'S RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH (2) 5/8" COPPER CLAD GROUND RODS.
 - r. THE IRRIGATION CONTRACTOR SHALL INSTALL MANUFACTURER'S RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
 - s. THE IRRIGATION CONTRACTOR SHALL FURNISH THE OWNER WITH THE FOLLOWING: 2 WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVES + 2 KEYS FOR THE AUTOMATIC CONTROLLER + 2 QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
 - t. THE IRRIGATION CONTRACTOR SHALL ADD EXTENSION RISERS TO POP UP SPRINKLERS WHEN NEEDED FOR PROPER COVERAGE. COORDINATE WITH LANDSCAPE CONTRACTOR AS TO WHERE RISERS FOR SPRINKLER HEADS ARE REQUIRED.
 - u. THE IRRIGATION CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENTS 12" FROM ALL BUILDINGS FOUNDATIONS AND INSTALL SPRINKLERS 4" FROM ANY CURBS OR WALKWAYS.
 - v. THE IRRIGATION BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED WITHIN AREAS OF PROPOSED SHRUB PLANTINGS. THE PURPOSE OF THIS IS TO KEEP THE DEVICE SCREENED FROM VIEW.
9. THE ENTIRE IRRIGATION SYSTEM (LABOR AND MATERIALS) SHALL BE GUARANTEED AND WARRANTED FOR A PERIOD OF ONE YEAR. THE WARRANTY PERIOD SHALL COMMENCED UPON FINAL ACCEPTANCE BY OWNER OF ALL LANDSCAPE AND IRRIGATION WORKS.
10. THE IRRIGATION CONTRACTOR FOR THE PROJECT MUST BE LICENSED TO DO BUSINESS WITHIN THE STATE OF TEXAS, AS REQUIRED BY TCEQ.
11. THIS IRRIGATION PLAN IS DIAGRAMMATIC ONLY. IRRIGATION CONTRACTOR SHALL PROVIDE FINAL IRRIGATION DESIGN LAYOUT PLAN COMPLETE WITH LICENSED IRRIGATOR'S SEAL AND SIGNATURE. ALL APPLICABLE DESIGN CALCULATIONS SHALL BE SHOWN ON THIS IRRIGATION PLAN TO COMPLY WITH ALL TCEQ REQUIREMENTS.



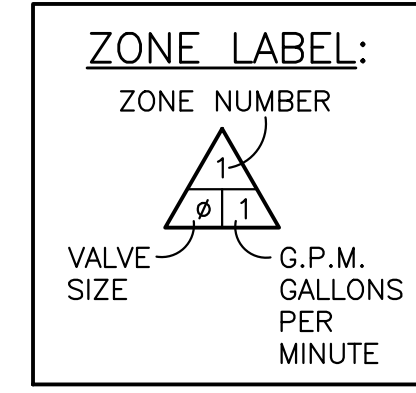
IRRIGATION PIPE TABLE

LENGHT	PIPE
2,070'	1" SCHEDULE 40 PVC PIPE

DRIP IRRIGATION EQUIPMENT & QUANTITIES SHALL BE DETERMINED BY THE IRRIGATION CONTRACTOR

NOTE: CONTRACTOR TO INSTALL BACKFLOW PREVENTOR TO IRRIGATION AND DOMESTIC WATER METER.

NOTE: ALL MONUMENT SIGNS ARE SHOWN FOR REFERENCE ONLY AND NEED TO BE SUBMITTED AND PERMITTED SEPARATELY BY THE SIGNAGE CONTRACTOR.



NOTE: CONTRACTOR TO ENSURE INSTALLATION OF BACKFLOW PREVENTOR BETWEEN METER AND BACKFLOW.

NOTE: SPRAY WILL NOT BE ALLOWED ON ANY IMPERVIOUS SURFACES.

NOTE: AREAS OF LESS THAN 48" SHALL HAVE NO ABOVE GROUND SPRAY.

NOTE: FOR DRIP IRRIGATION ZONES RE: IRRIGATION NOTES

NOTE:
FINAL TO BE DETERMINED BY LICENSED LANDSCAPE/IRRIGATION PROFESSIONAL.

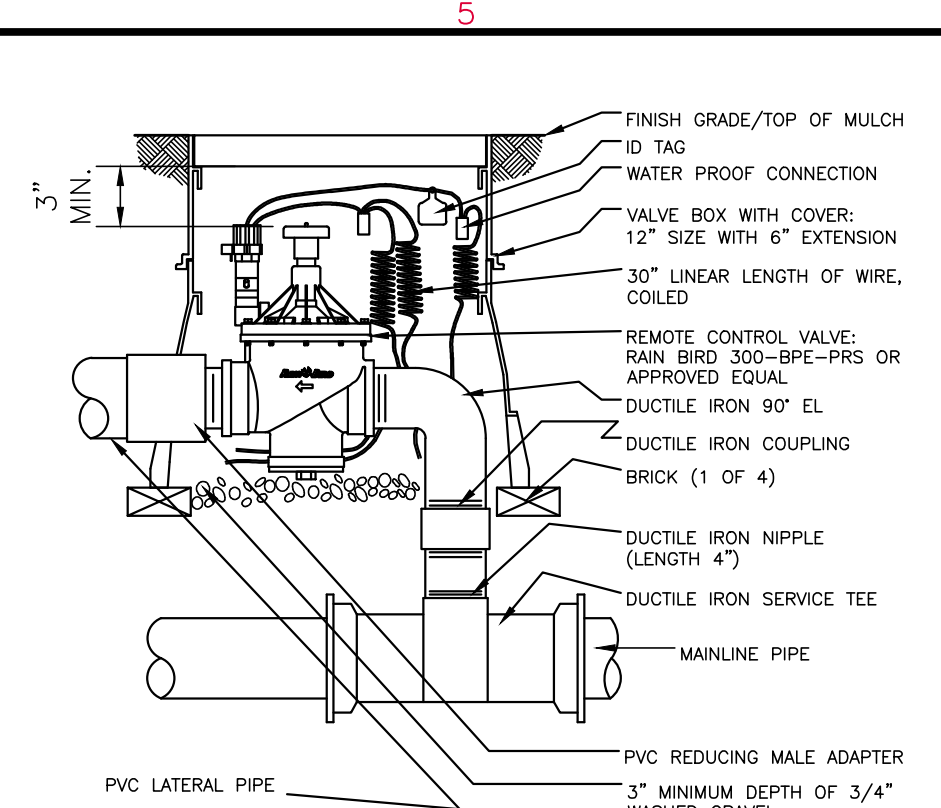
- IRRIGATION STANDARD:**
- A. ALL LANDSCAPED AREAS, INCLUDING THE LANDSCAPED SETBACK, WILL HAVE AN AUTOMATICALLY CONTROLLED UNDERGROUND IRRIGATION SYSTEM.
 - B. IRRIGATION LOCATED IN THE MAJOR THOROUGHFARE SETBACK MUST HAVE A SEPARATE METER AND CONTROLLER FROM THE IRRIGATION SYSTEM SERVING THE INTERNAL TRACT.
 - C. SYSTEMS MUST BE INSTALLED IN ACCORDANCE WITH ANY AND ALL FEDERAL, STATE AND LOCAL REGULATIONS.
 - D. THERE MUST BE 100% COVERAGE OF ALL PLANTED MATERIALS.
 - E. SPRAY PATTERNS SHALL BE DISTRIBUTED SO THAT WATER IS NOT THROWN ONTO STREETS, PARKING AREAS, OR ADJACENT TRACTS.
 - F. ALL IRRIGATION LINES SHALL HAVE A MINIMUM DEPTH OF EIGHTEEN INCHES (18").
 - G. CONTROLLERS, VACUUM BREAKERS, AND METER BOXES MUST BE LOCATED OUT OF PUBLIC VIEW OR SCREENED.

DESIGN DISCLAIMER:

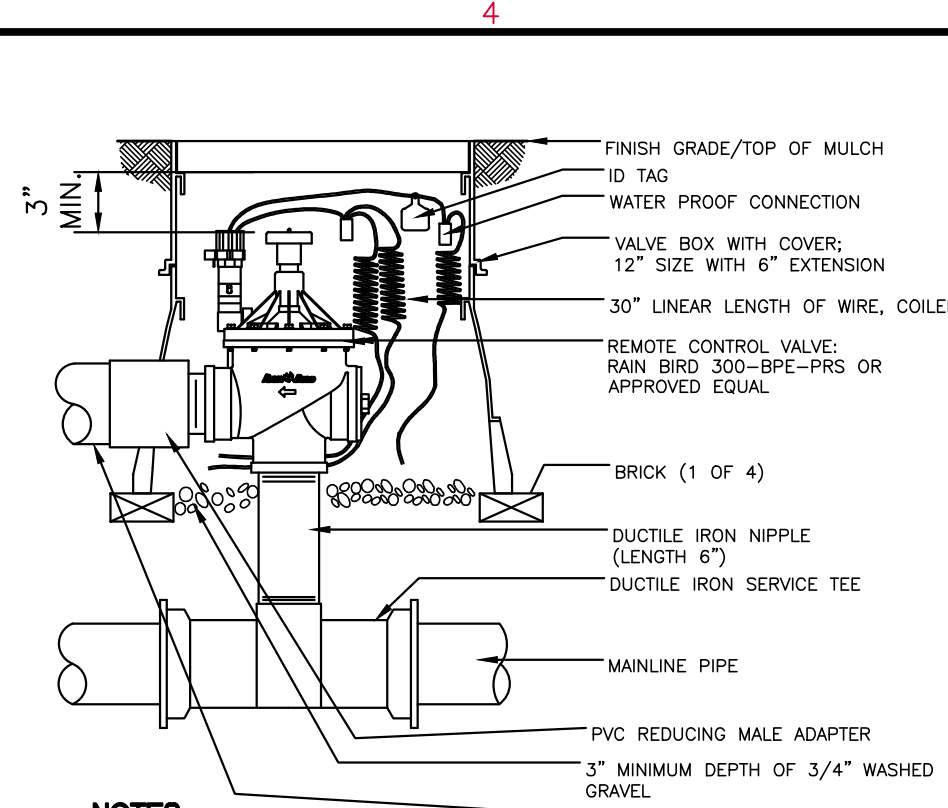
THIS IRRIGATION DRAWING IS A PRELIMINARY LAYOUT. IT IS A DIAGRAMMATIC REPRESENTATION FOR PURPOSE OF PROVIDING A BASIC DEPICTION OF THE SCOPE OF COVERAGE, INITIAL VALVE ZONING, WITH HEAD TYPE AND PLACEMENT. THE IRRIGATION DRAWING DOES NOT PROVIDE NECESSARY ZONE FLOW, HYDRAULIC CALCULATIONS TO DETERMINE DESIGN PRESSURE. THESE ARE DEFINED IN TEXAS ADMINISTRATIVE CODE MINIMUM STANDARDS FOR DESIGN OF THE IRRIGATION PLAN, AND REQUIRED BY THE T.C.E.Q FOR A COMPLETE IRRIGATION PLAN AND FOR PERMIT AND CONSTRUCTION. IT WILL BE THE RESPONSIBILITY OF THE INSTALLING LICENSED IRRIGATOR OR IRRIGATOR-IN-CHARGE, TO USE INFORMATION PROVIDED ON THIS PRELIMINARY IRRIGATION DRAWING, TO PROVIDE A FINAL IRRIGATION PLAN MEETING ALL STANDARDS AS REQUIRED BY T.C.E.Q, SIGNED AND SEALED.

INTERPLAN ARCHITECTS, INC. SHALL NOT BE RESPONSIBLE AND ACCEPTS NO LIABILITY FOR DESIGN FAILURE, INACCURATE HEAD LAYOUT, INCORRECT ZONING, PIPE SIZING, ZONE FLOW OR HYDRAULIC CALCULATIONS, IRRIGATION EQUIPMENT, OR ASPECTS OF THE PRELIMINARY DESIGN DRAWING NOT IN COMPLIANCE WITH LOCAL IRRIGATION REGULATIONS. THE IRRIGATION CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR THE FINAL DESIGN, INSTALLATION AND PROPER OPERATION OF THE IRRIGATION SYSTEM.

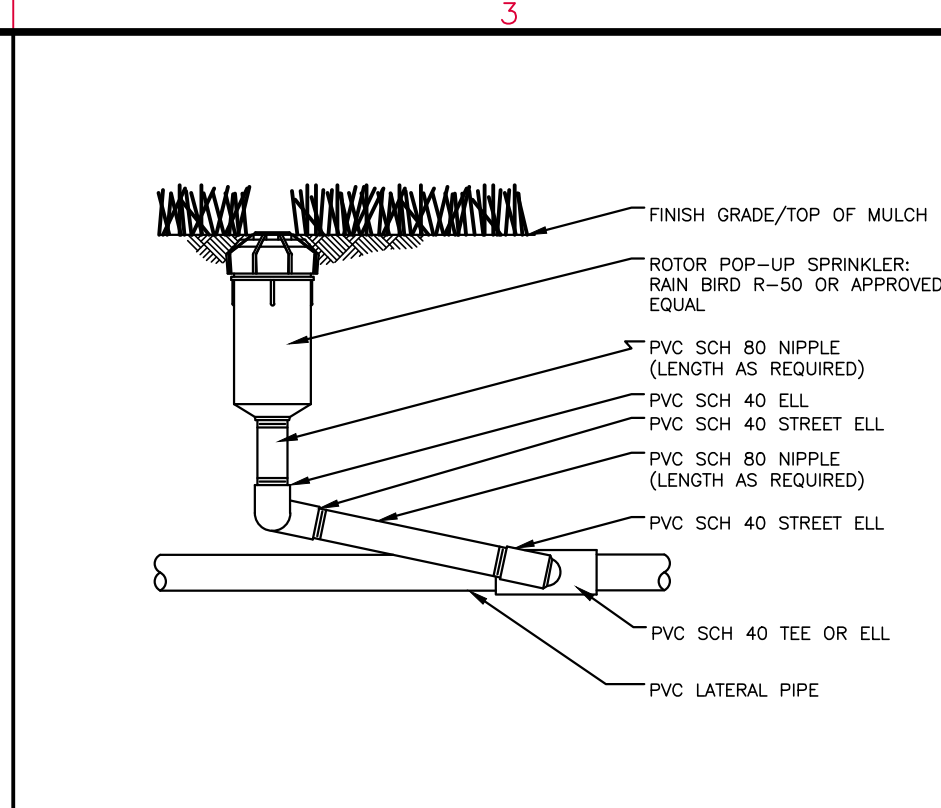
SITE PLAN - PRELIMINARY LANDSCAPING SPRINKLER LAYOUT
SCALE: 1:50
RE: SURVEY
TOTAL LAND AREA: 10.124 ACRES (441,000 SQ. FT.)



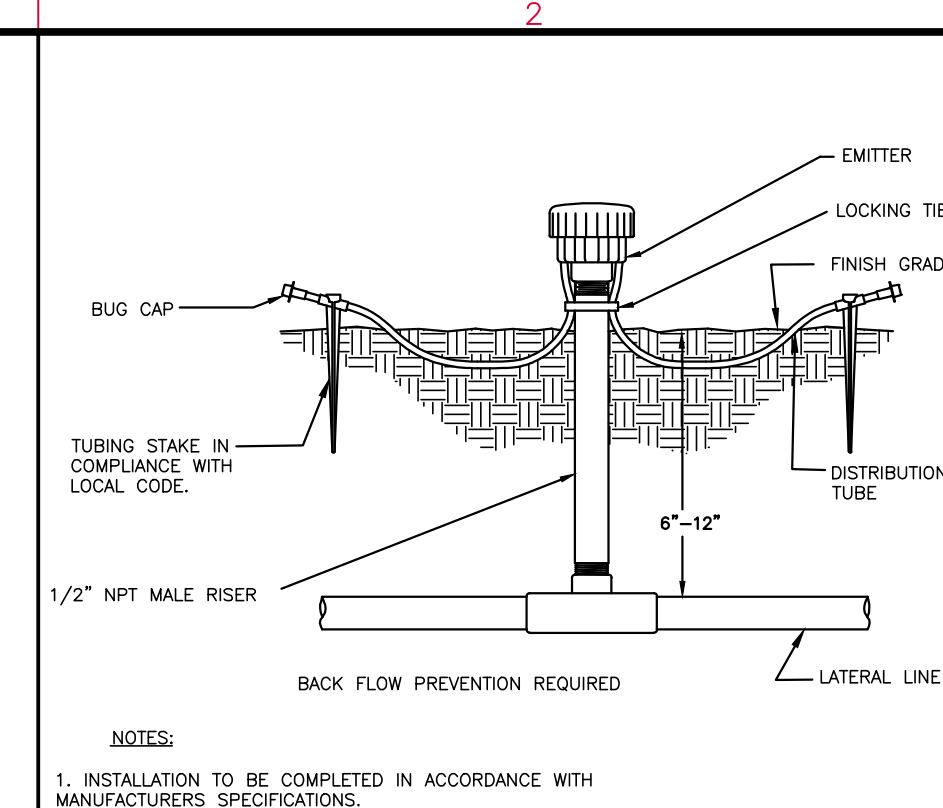
20 300 BPE REMOTE CONTROL VALVE
NOT TO SCALE
RE:



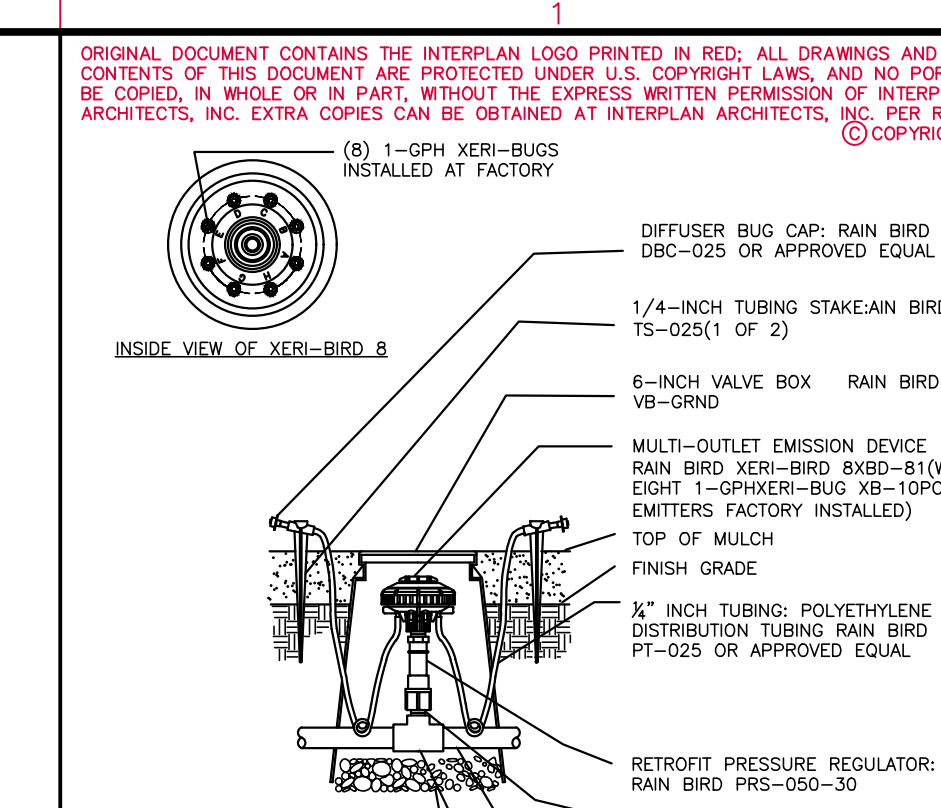
16 300 BPEBI REMOTE CONTROL VALVE
NOT TO SCALE
RE:



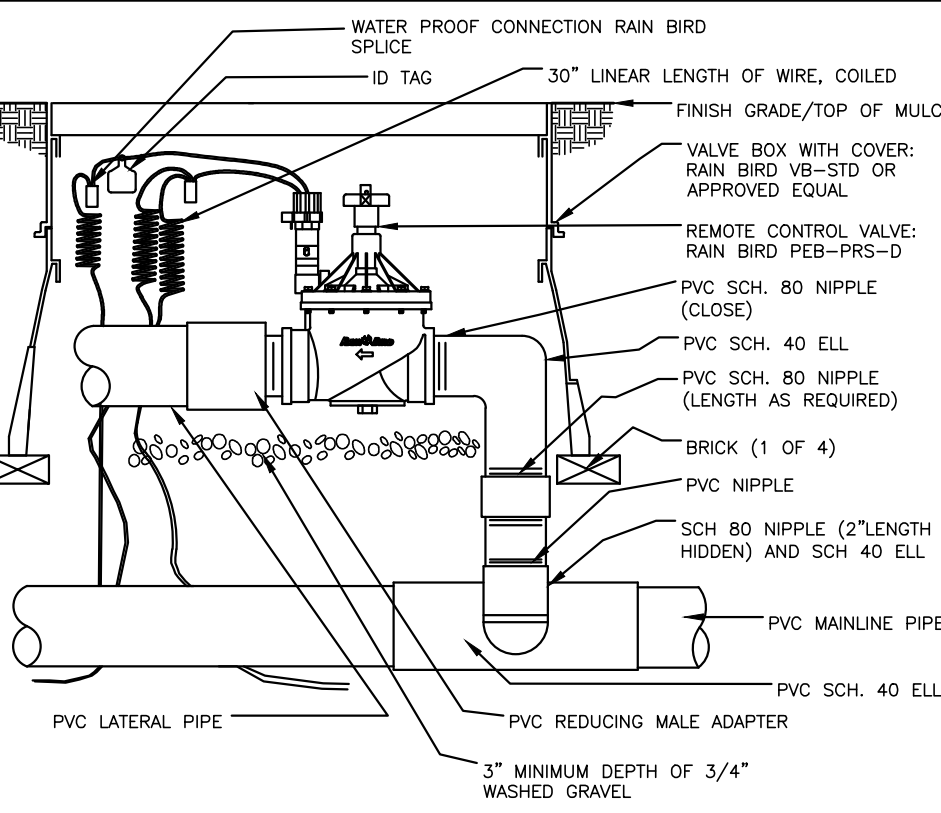
12 R-50 ROTOR POP-UP SPRINKLER
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RE:



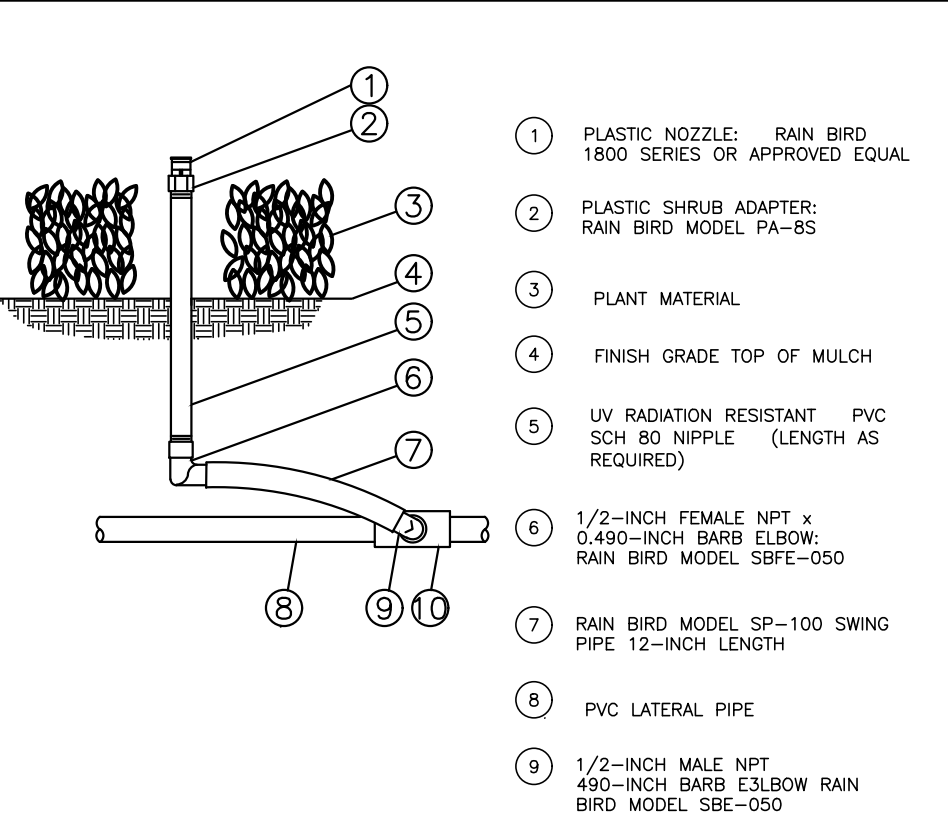
8 TYP. EMITTER SPRINKLER ASSEMBLY
NOT TO SCALE
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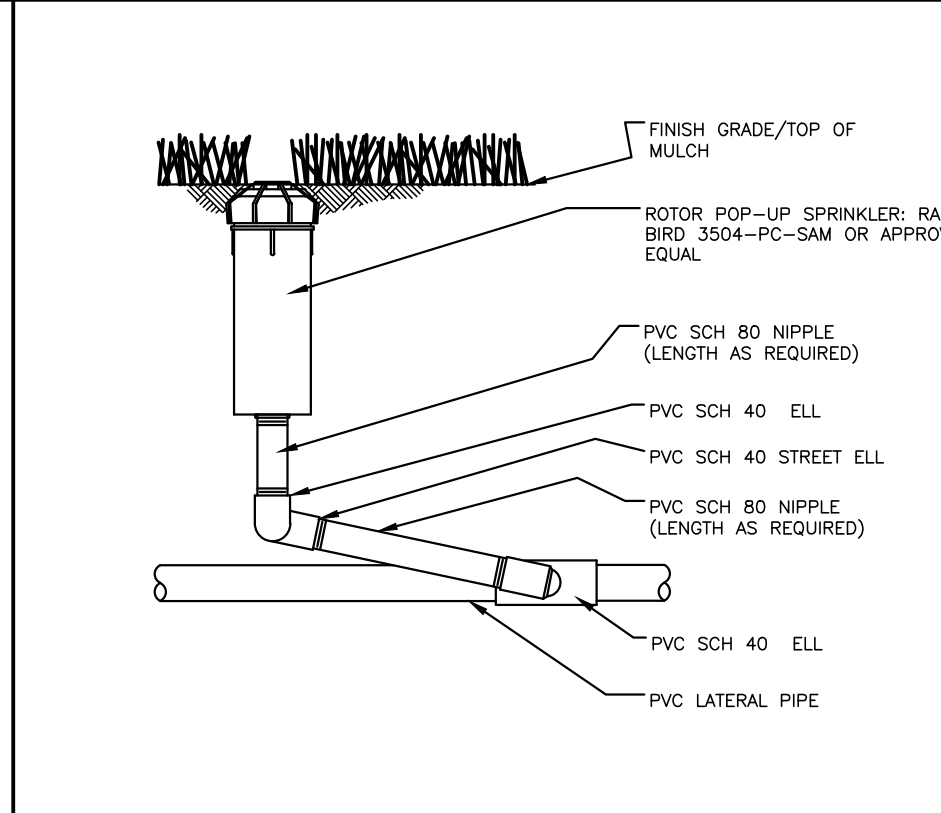
4 EIGHT PC EMITTERS IN VALVE BOX
NOT TO SCALE
RE:



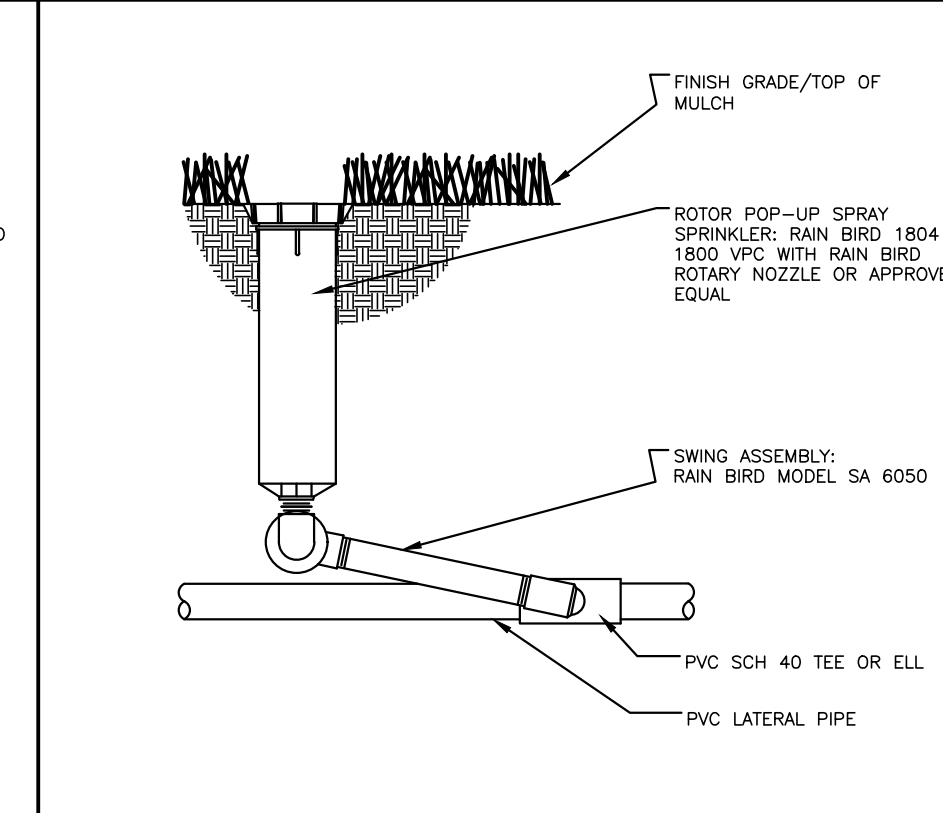
19 RAIN BIRD PEB-PRS-D VALVE DETAIL
NOT TO SCALE
RE:



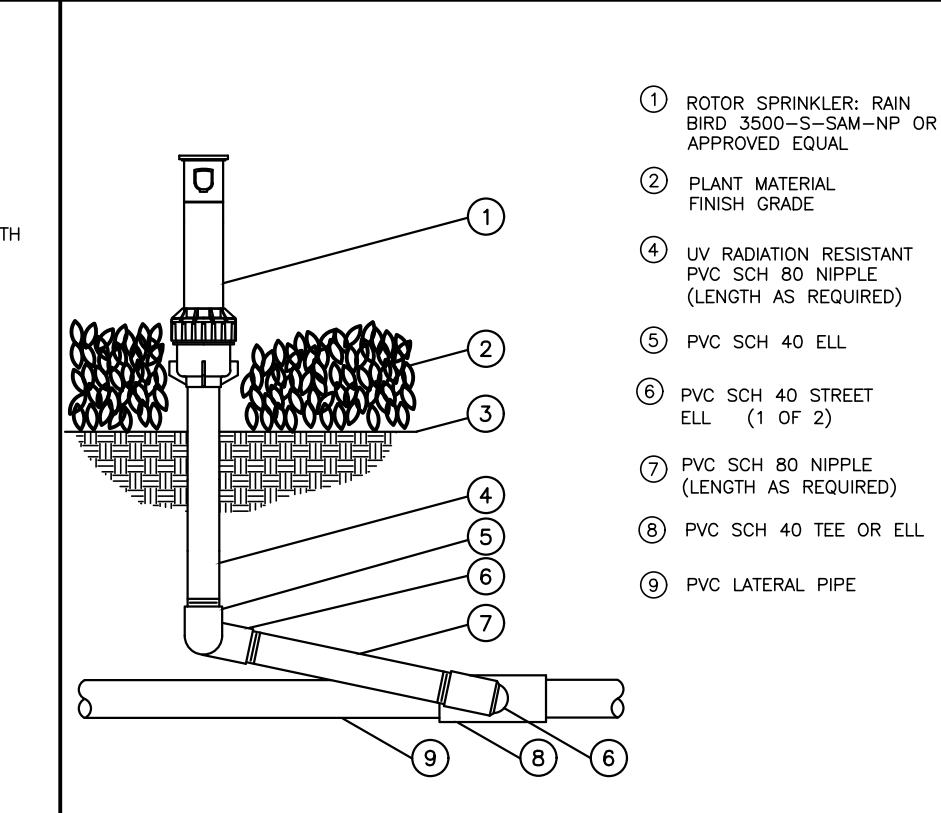
15 NOZZLE ON RISER WITH SWING PIPE
NOT TO SCALE
RE:



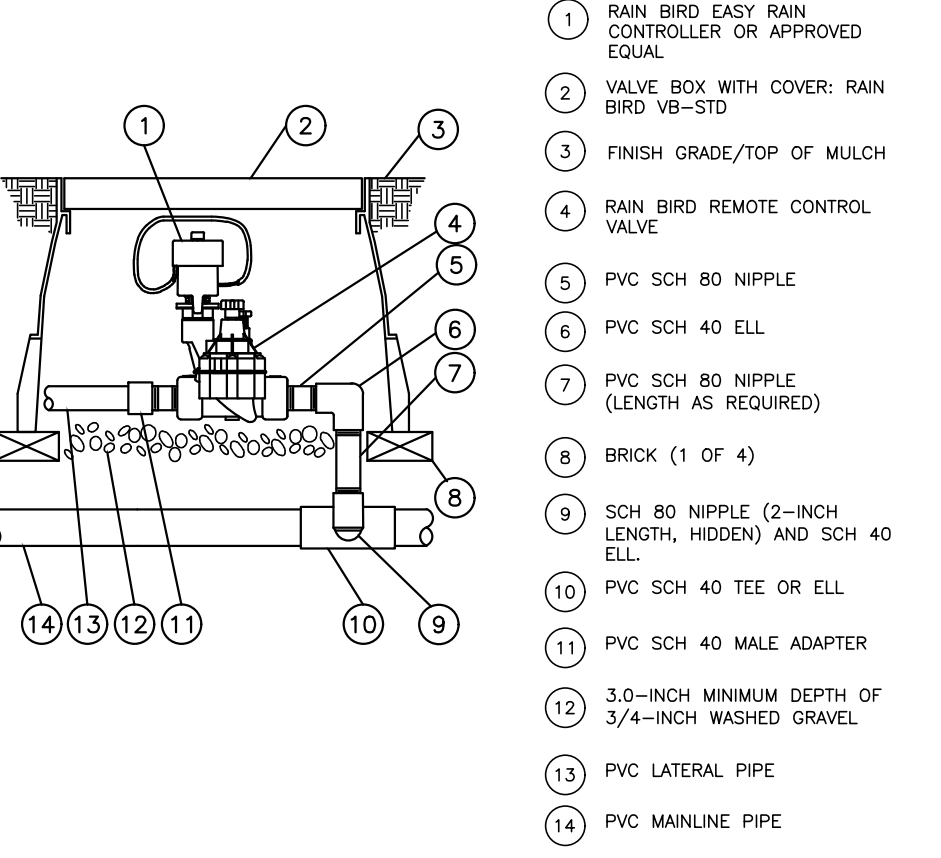
11 3500 SERIES DETAIL
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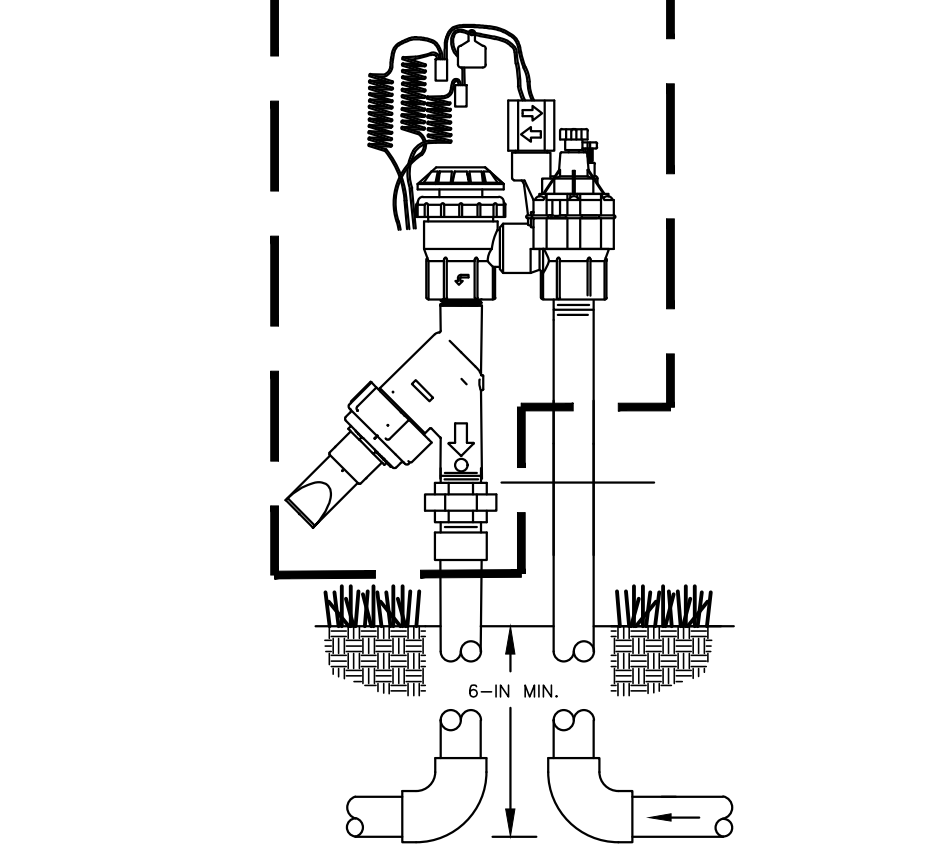
7 1800 SERIES DETAIL
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RE:



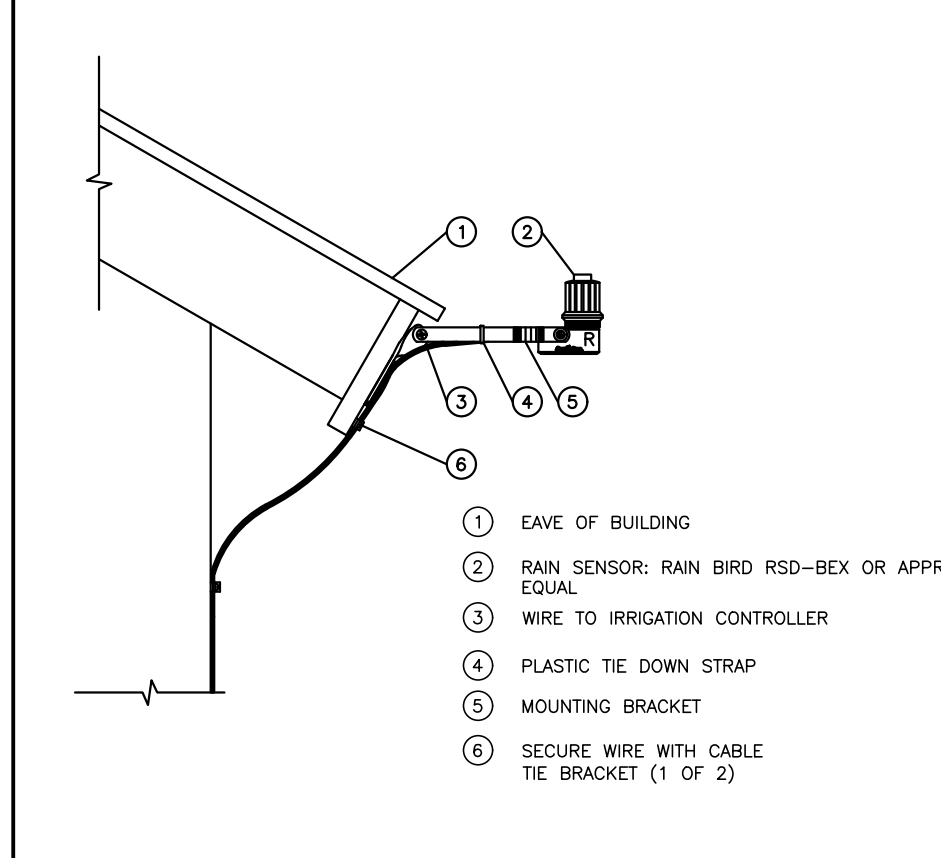
3 ROTOR PUP-UP SPRINKLER SHRUB
NOT TO SCALE
RE:



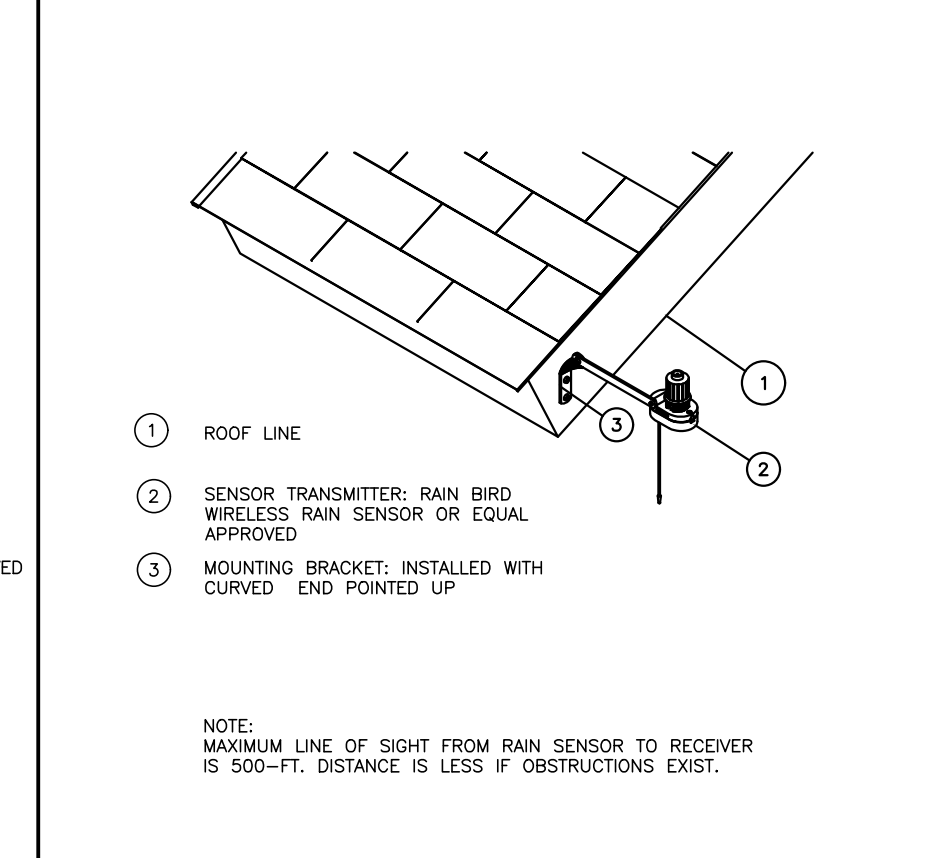
18 SINGLE VALVE BATTERY CONTROL
NOT TO SCALE
RE:



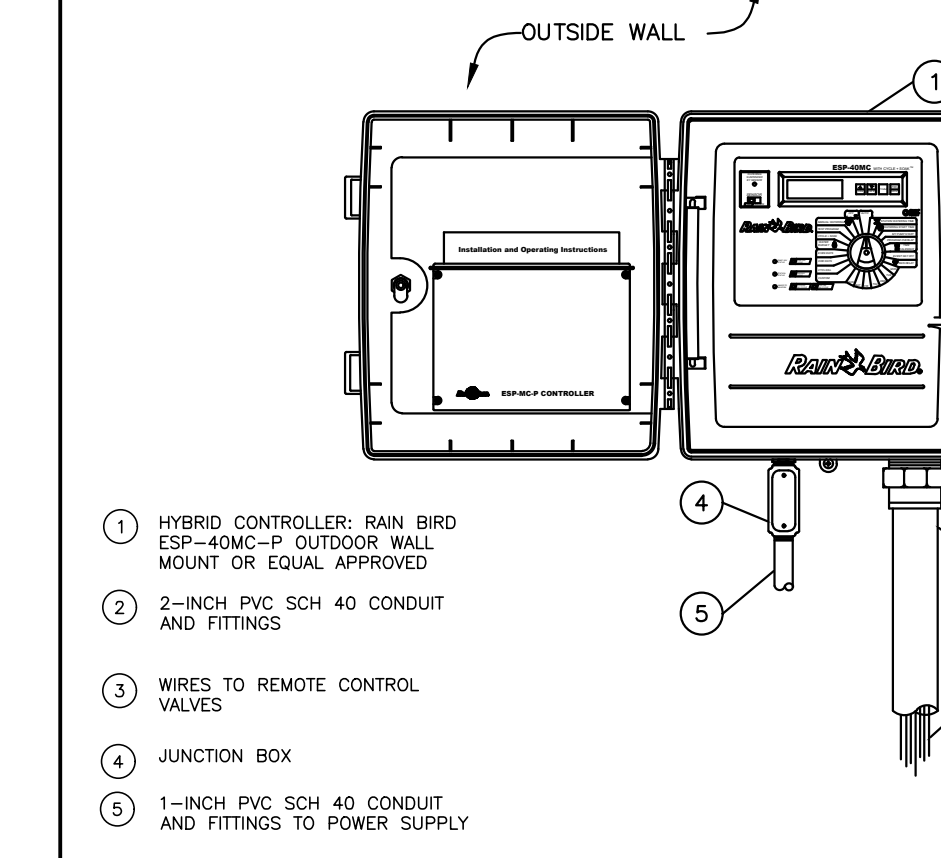
14 ANTI SIPHON CONTROL REGULATOR
NOT TO SCALE
RE:



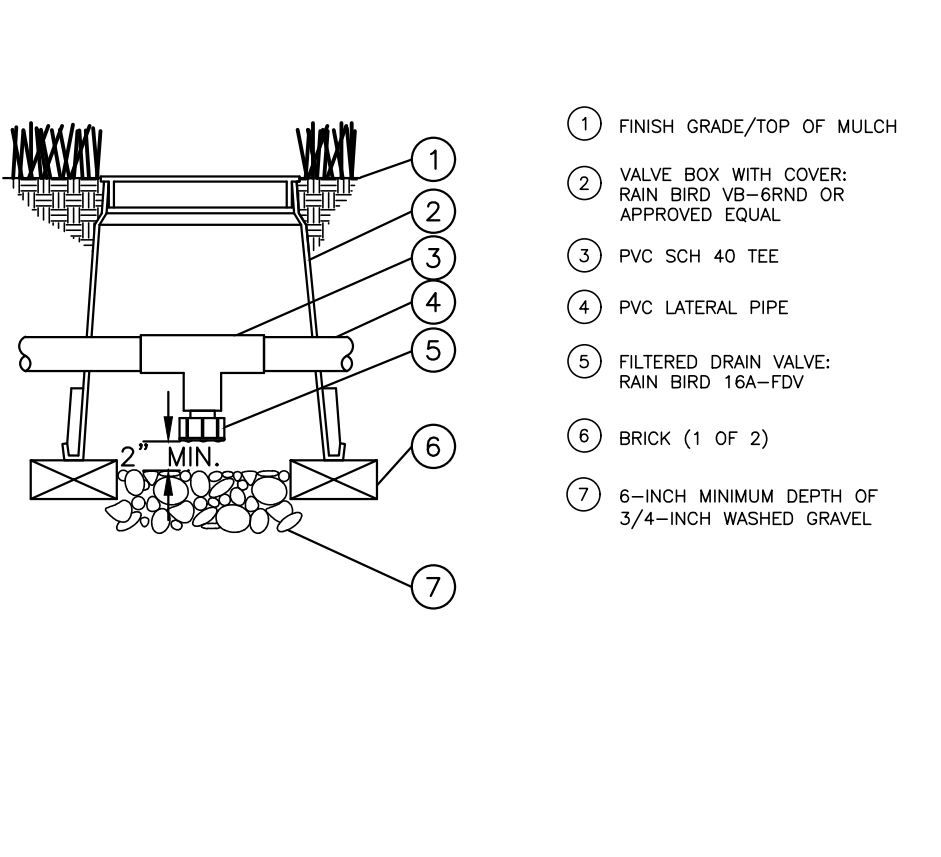
10 RAIN SENSOR DEVICE DETAIL
NOT TO SCALE
RE:



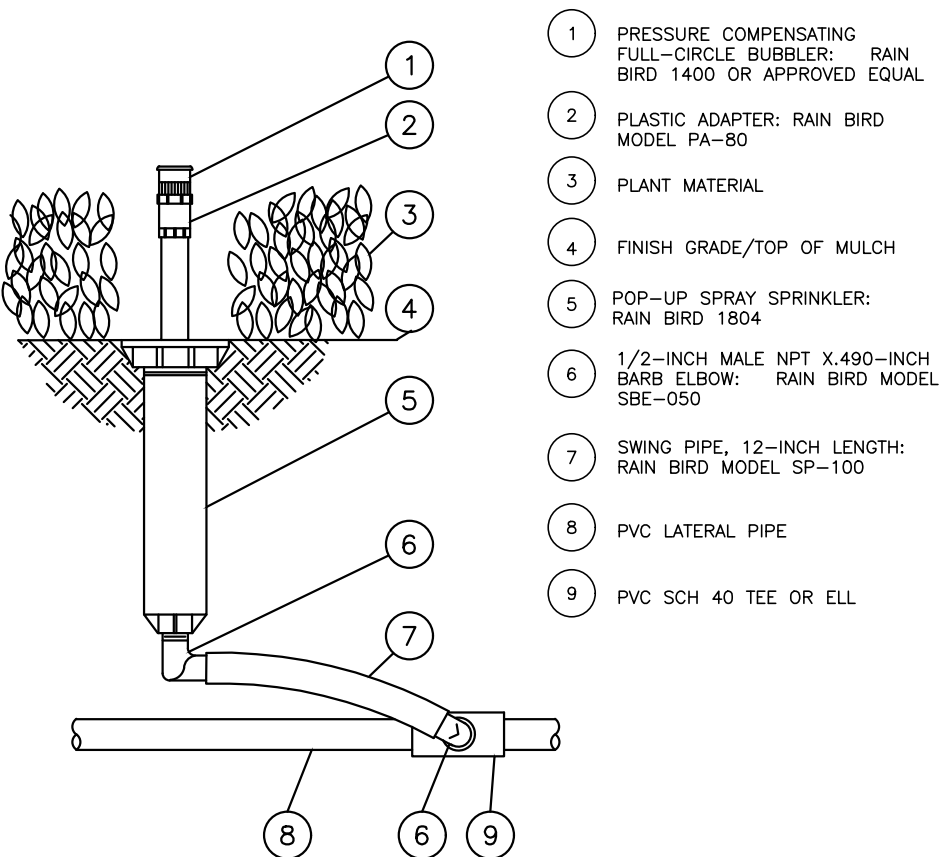
6 WIRELESS RAIN SENSOR
NOT TO SCALE
RE:



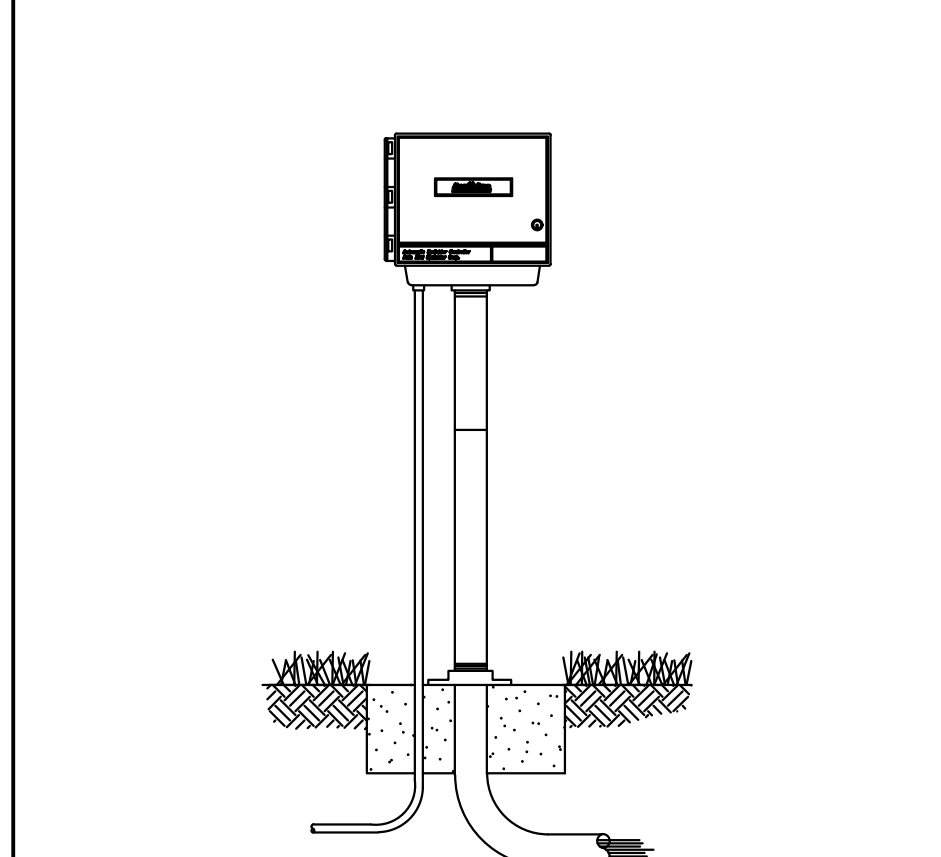
2 HYBRID CONTROLLER DETAIL
NOT TO SCALE
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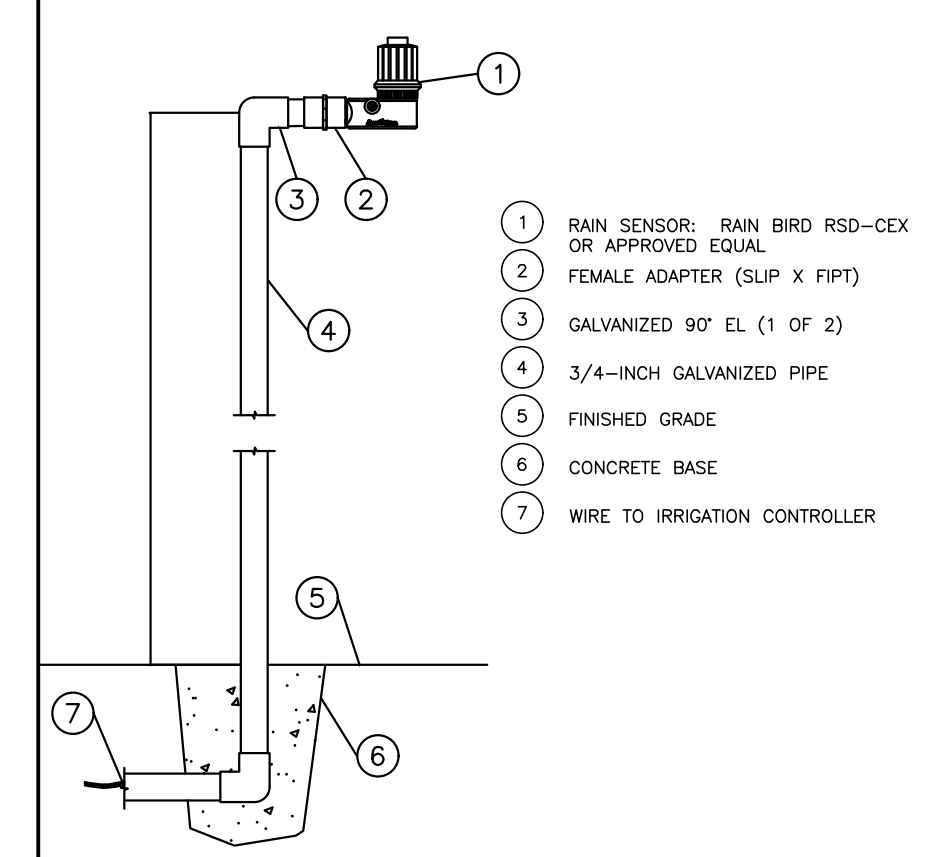
17 DRAIN VALVE 16 A-FDV
NOT TO SCALE
RE:



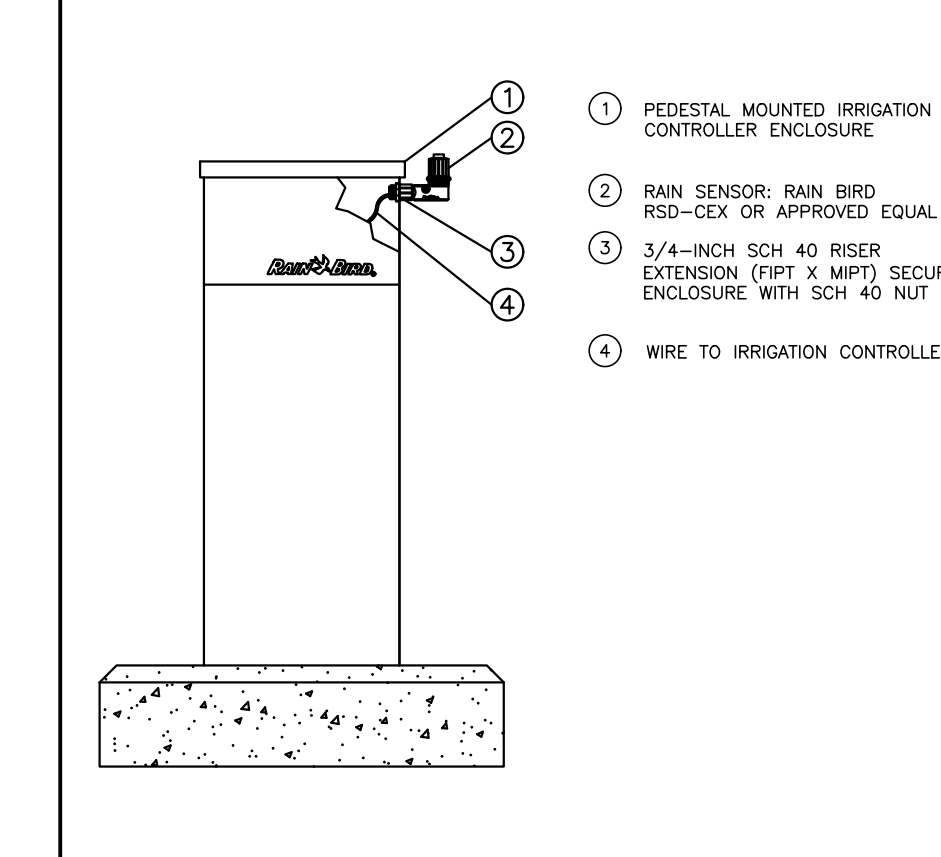
13 FULL PRESSURE CIRCLE BUBBLER
NOT TO SCALE
RE:



9 ELECTRO MECHANICAL CONTROL
NOT TO SCALE
RE:

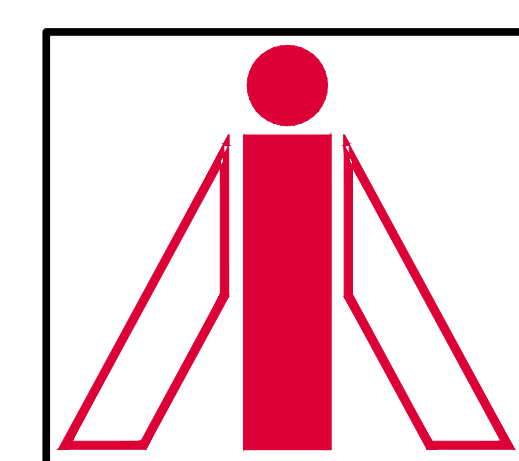


5 RAIN SENSOR POLE MOUNT
NOT TO SCALE
RE:



1 RAIN SENSOR PEDESTAL MOUNT
NOT TO SCALE
RE:

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-IRR1.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
REGISTERED ARCHITECT
STATE OF TEXAS
8669
DATE SIGNED: 03-28-24
LICENSE: EXP: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____
SHEET TITLE
DEVELOPMENT AND LANDSCAPE IRRIGATION

DRAWING NUMBER
IRR1
SHEET NO.



Know what's below.
Call before you dig.



SITE DEVELOPMENT PLAN

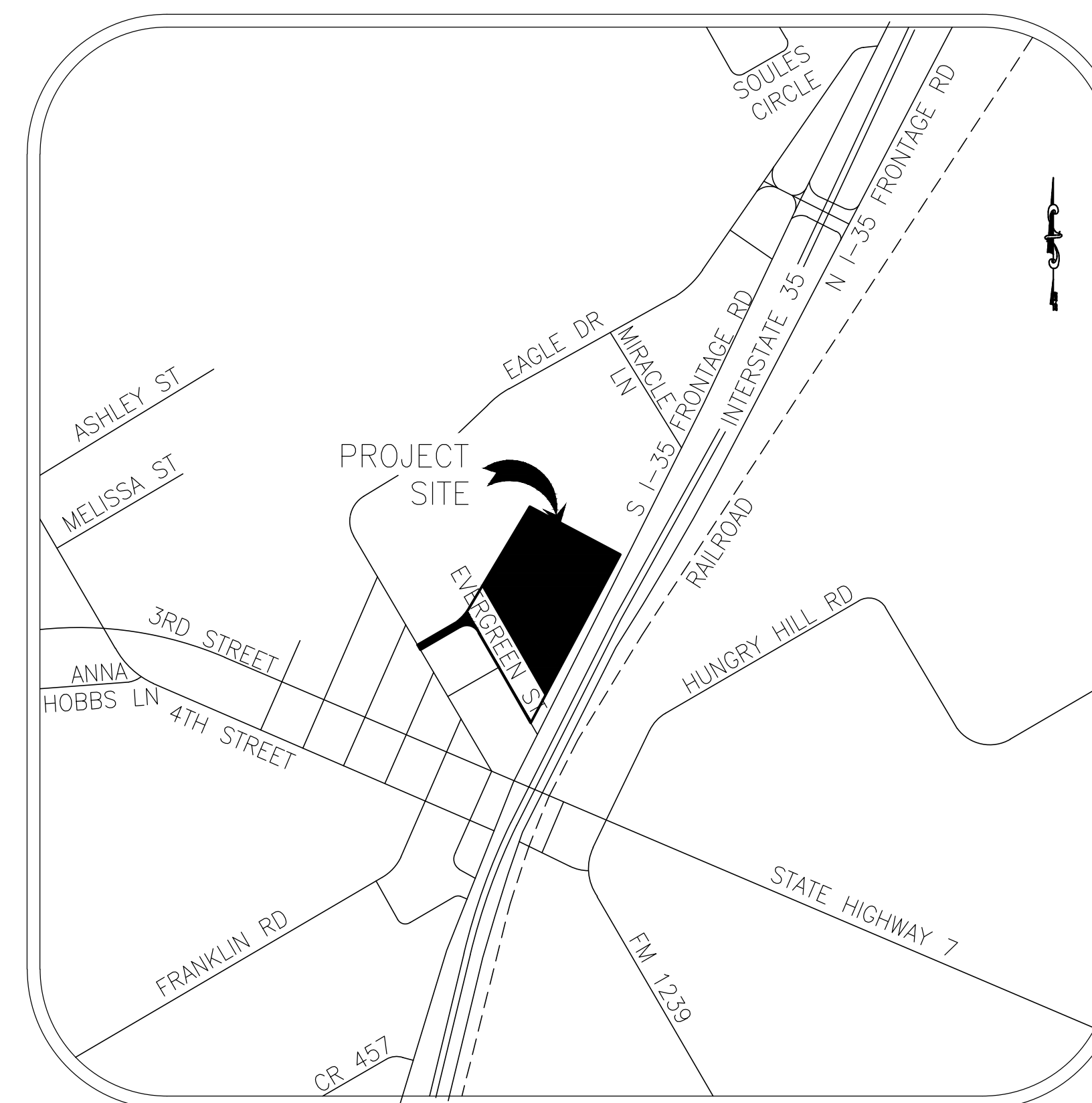
CEFCO #0047

1-35 FRONTAGE ROAD

BRUCEVILLE-EDDY, TEXAS 76524

McLENNAN COUNTY

LOT 2, BLOCK, CEFCO #0047 ADDITION



VICINITY MAP
(NTS)

UTILITY CONTACTS

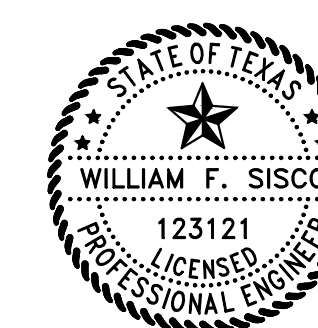
TEXAS ONE CALL	1-800-245-4545
TEXAS EXCAVATION SAFETY SYSTEM	1-800-344-8377
ONCOR ELECTRIC DELIVERY	1-888-313-4747
CITY OF BRUCEVILLE-EDDY, TX	1-254-859-5700
ATMOS	1-888-286-6700
SPECTRUM	1-866-874-2399
HERITAGE BROADBAND	1-512-548-6932
AT&T	1-800-252-1133
TIME WARNER CABLE	1-800-892-4357

REVISIONS	DATE	DESCRIPTION
-	3.27.24	IFP

Sheet List Table

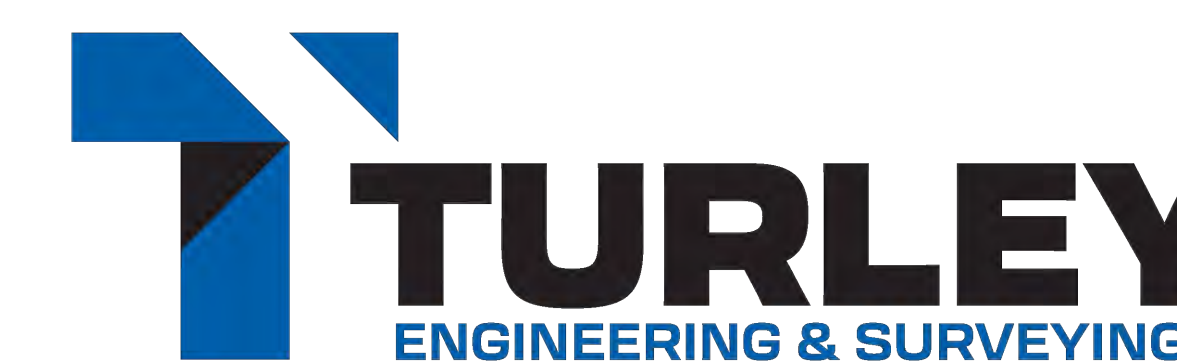
	Sheet Title	Revisions
1	Cover	
2	Plat	
3	General Notes	
4	Erosion Control Plan	
5	Erosion Control Details	
6	Demo Plan	
7	Overall Site Plan	
8	Dimensional Site Plan 1	
9	Dimensional Site Plan 2	
10	Utility Plan 1	
11	Utility Plan 2	
12	Storm Drain Plan 1	
13	Storm Drain Plan 2	
14	Overall Grading Plan	
15	Grading Plan 1	
16	Grading Plan 2	
17	Channel 1 Grading Plan	
18	Channel 2 Grading Plan	
19	Channel 3 Grading Plan	
20	Channel 3 Cross Sections	
21	Paving Plan 1	
22	Paving Plan 2	
23	Add Alternate Culvert Profile & Road Cross Section	
24	Add Alternate 1	
25	Add Alternate 2	
26	Add Alternate 3	
27	On-Site Pre-Development Drainage Analysis	
28	On-Site Post-Development Drainage Analysis	
29	Off-Site Drainage Analysis	
30	Channel & Culvert Design	
31	Site Details	
32	Site Details 2	
33	Ramp Details	
34	Utility Details 1	
35	Utility Details 2	
36	Utility Details 3	
37	Storm Water Details 1	
38	Storm Water Details 2	
39	Storm Water Details 3	

I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY, THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN TO THESE PLANS:



WILLIAM F. SISCO, P.E.
NO. 123121

3/27/2024
DATE

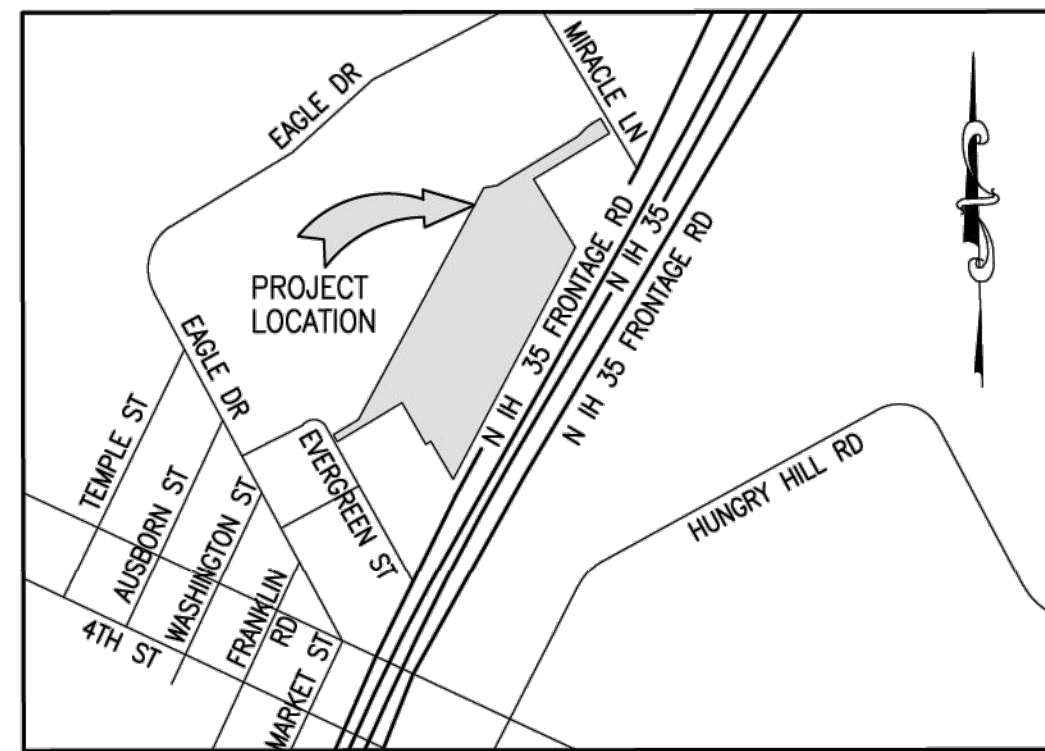


301 N. 3rd Street
Temple, TX 76501

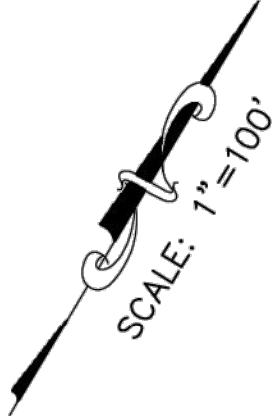
office 254.773.2400
www.turley-inc.com
TBPE No. F-1658, TBPLS No. 10194869

23-132
23132-D

CEFCO #0047, 1-35 FRONTAGE ROAD, EDDY, TEXAS 76524



VICINITY MAP (SCALE 1:1,000)



LEGEND:

- P.O.B. POINT OF BEGINNING
- B.L. BUILDING LINE
- AC ACRES
- VOL. VOLUME
- PG. PAGE
- DOC. DOCUMENT
- U.E. UTILITY EASEMENT
- IRF IRON ROD FOUND
- IRS IRON ROD SET
- ROW RIGHT-OF-WAY
- DRMCCT DEED RECORDS OF MCLENNAN COUNTY TEXAS

0.013 ROW DEDICATION

EVERGREEN STREET
ASPHALT, APPROX. 17.6' WIDE

GENERAL INFORMATION:

OWNER:
FIKES WHOLESALE INC.
6261 CENTRAL POINTE PKWY
TEMPLE, TEXAS 76504

ENGINEER/SURVEYOR:
TURLEY ASSOCIATES, INC.
301 N. 3RD STREET
TEMPLE, TEXAS 76501

TOTAL ACREAGE:.....19.474 ACRES
NUMBER OF LOTS:.....3 LOTS
NUMBER OF BLOCKS:.....1 BLOCK
SURVEY: LEVI PREWITT SURVEY, ABSTRACT NO. 723
SUBMITTAL DATE: 1/6/2024

WATER PROVIDED BY: BRUCEVILLE-EDDY WSC, CCN#11285
SEWER PROVIDED BY: ON-SITE SEWAGE FACILITY
ELECTRIC PROVIDED BY: ONCOR
SCHOOL DISTRICT: BRUCEVILLE-EDDY ISD

PHYLLIS FISK AND KAREN WORTHAM
REMAINDER 54.499 ACRES
TRACT TWO
DOC.# 2017008683, DRMCCT

(CALLS N28°27'21"E 1388.24'
N28°27'10"E 1386.21'

LOT 2
10.124 ACRES

LOT 3
7.681 ACRES

LOT 1
1.656 ACRES

Curve #	Length	Radius	Chord
C1	224.93'	24740.28'	S27°35'47"W 224.93'
C2	48.56'	145.00'	N49°10'39"E 48.33'
C3	72.00'	215.00'	N49°10'39"E 71.67'

Line #	Direction	Length
L1	S60°46'40"W	30.00
L2	N30°06'36"W	39.73
L3	N79°51'28"E	69.35
L4	N58°46'18"E	53.34
L5	S31°10'08"E	90.38
L6	S30°06'36"E	39.75
L7	N58°53'40"E	14.46
L8	N58°48'49"E	14.46

1/2" IRF W/CAP "RPLS 2475"
S58°49'05"W 467.99'
(CALLS N61°E 286.7)

BRUCEVILLE-EDDY HS BALL PARK
CALLED 2.0 ACRES
VOLUME 871, PAGE 67, DRMCCT

THIS PROPERTY IS WITHIN THE SPECIAL FLOOD HAZARD AREA AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION MAP NUMBER 48309C0675C, DATED SEPTEMBER 26, 2008.

THIS PROJECT IS REFERENCED IN NAD 1983 CENTRAL TEXAS STATE PLANE. ALL DISTANCES ARE HORIZONTAL SURFACE DISTANCES UNLESS NOTED.

ALL BOUNDARY CORNERS ARE 1/2" IRON ROD WITH CAP MARKED "RPLS 2475" FOUND UNLESS NOTED OTHERWISE.

REASON FOR THIS PLAT: TO CREATE 3 LOTS FOR COMMERCIAL USE.

DRAINAGE EASEMENT RESTRICTION (DER) - NO CONSTRUCTION, OR FILLING WITHOUT WRITTEN APPROVAL OF THE CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS SHALL BE ALLOWED WITHIN DRAINAGE EASEMENT. NO OBSTRUCTION OF THE NATURAL FLOW OF WATER SHALL OCCUR. ALL OWNERS OF PROPERTY AFFECTED BY SUCH CONSTRUCTION OR FILLING SHALL BE A PARTY TO THE REQUEST.

UTILITY EASEMENTS (UE) - ANY PUBLIC UTILITY, INCLUDING THE CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS SHALL HAVE THE RIGHT TO MOVE AND KEEP MOVED ALL OR PART OF ANY BUILDING, FENCES, TREES, SHRUBS, OTHER GROWTHS OR IMPROVEMENTS WHICH IN ANY WAY ENDANGER OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE, OR EFFICIENCY [SIC] OF ITS RESPECTIVE SYSTEMS ON ANY OF THE EASEMENTS FOR THE PURPOSE OF CONSTRUCTION, RECONSTRUCTION, INSPECTION, PATROLLING, MAINTAINING AND ADDING TO OR REMOVING ALL OR PART OF ITS RESPECTIVE SYSTEMS WITHOUT THE NECESSITY AT ANY TIME OF PROCURING THE PERMISSION OF ANYONE.

PRELIMINARY PLAT-FOR REVIEW ONLY:

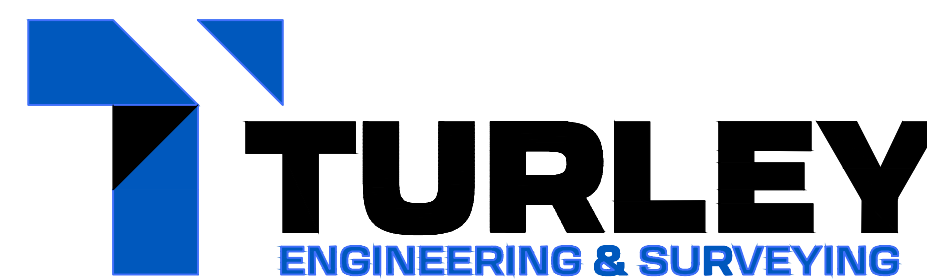
CEFCO #0047 ADDITION
19.474 ACRES
3 LOTS, 1 BLOCK

SITUATED IN THE LEVI PREWITT SURVEY, ABSTRACT NO. 723
CITY OF BRUCEVILLE-EDDY, MCLENNAN COUNTY, TEXAS.

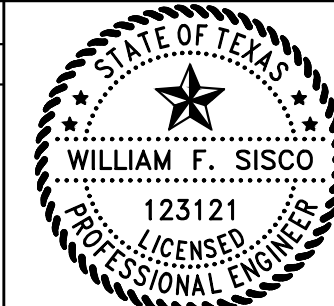
TURLEY ASSOCIATES, INC.
301 N. 3RD ST.
TEMPLE, TEXAS 76501
WWW.TURLEY-INC.COM
254-773-2400
ENGINEERING FIRM NO. 1658
SURVEY FIRM NO. 10056000

REVISIONS	DATE	DESCRIPTION	DFTR.

TURLEY ASSOCIATES, INC.
WWW.TURLEY-INC.COM
254-773-2400
301 N. 3RD ST.
TEMPLE, TEXAS 76501
ENGINEERING FIRM NO. 1658
SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
DESIGNER: MEB
ENGINEER: *[Signature]*
DATE: 3/27/2024



PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
FILE NAME: 23-132 SDP.dwg
REF. DWG(S):

TITLE: Plat
JOB#: 23-132
PAGE#: 2

GENERAL PROJECT & SITE NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF BRUCEVILLE-EDDY SUBDIVISION ORDINANCES, CODES, STANDARDS AND SPECIFICATIONS, WHETHER PROVIDED HEREIN OR OTHERWISE.
- ALL CONSTRUCTION SHALL COMPLY WITH O.S.H.A. STANDARDS. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR IN PERFORMANCE OF WORK. THE SEAL HERE-ON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY BE INCORPORATED IN THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH STATE LAWS AND FEDERAL REGULATIONS RELATING TO TRENCH SAFETY. THE CONTRACTOR IS ADVISED THAT FEDERAL REGULATIONS 29 C.F.R. 1926.650-1926.652 HAVE BEEN, IN THEIR MOST RECENT VERSION AMENDED, IN EFFECT SINCE JANUARY 2, 1990. CONTRACTOR SHALL FULLY COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) REGULATIONS PERTAINING TO EXCAVATIONS, TRENCHING, AND SHORING AND SHALL PROVIDE AND FAMILIARIZE ITS EMPLOYEES INVOLVED IN EXCAVATION AND TRENCHING WITH THE PROVISIONS IN O.S.H.A. PAMPHLET NUMBER 2226, EXCAVATING AND TRENCHING OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE OWNER/CITY AN ACCEPTABLE TRENCH SAFETY PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER QUALIFIED TO DO SUCH WORK AND LICENSED/REGISTERED IN THE STATE OF TEXAS. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AN APPROPRIATE METHOD OF PROVIDING TRENCH SAFETY AFTER DUE CONSIDERATION OF THE JOB CONDITIONS, LOCATION OF UTILITIES, PAVEMENT CONDITIONS AND OTHER RELEVANT FACTORS. SLOPE-BACK METHODS WHICH MAY RESULT IN UNNECESSARY DISPLACEMENT OF UTILITIES AND/OR PAVEMENT SHALL NOT BE USED WITHOUT PERMISSION FROM THE OWNER/CITY. PLANS FOR DEVICES USED TO PROVIDE TRENCH SAFETY SUCH AS TRENCH SHIELDS AND SHORING SYSTEMS WILL BE LIKELIHOOD CERTIFIED BY PROFESSIONAL ENGINEERS LICENSED/REGISTERED IN THE STATE OF TEXAS OR BY A PROFESSIONAL ENGINEER LICENSED/REGISTERED IN THE STATE OF MANUFACTURE OF THE SHIELD OR SHORING SYSTEM.
- CONTRACTOR SHALL MAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGES TO EXISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION OPERATIONS ARE TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN HERE IN CAN BE CONSTRUCTED.
- CONTRACTOR SHALL CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES.
- CONTRACTOR SHALL REMOVE BUILT UP MATERIAL ON ADJACENT PUBLIC ROADWAYS RESULTING FROM CONSTRUCTION OPERATIONS AT LEAST ONCE PER DAY.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALK DAMAGED OR REMOVED BY THE CONTRACTOR THAT ARE NOT A PART OF THIS CONTRACT ARE TO BE REPAIRED BY THE CONTRACTOR.
- ALL WORK AREAS SHALL BE LEFT IN A CONDITION EQUAL TO OR BETTER THAN THE CURRENT CONDITION.
- ALL DISTURBED AREAS SHALL BE SEED WITH SEED MIXES SUITABLE TO LOCAL CONDITIONS AND IRRIGATED UNTIL GRASS IS ESTABLISHED.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT OR TEMPORARY STABILIZATION WITHIN 2-WEEKS OF DISTURBANCE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STABILIZATION THROUGHOUT CONSTRUCTION AND CORRECTING ANY EROSION AND/OR SEDIMENTATION ISSUES PRIOR TO PROJECT COMPLETION. CONSULT EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION REGARDING ESTABLISHMENT OF VEGETATION.
- THE PROCUREMENT AND TRANSPORTATION OF WATER REQUIRED FOR CONSTRUCTION OPERATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY CONTACT THE CITY OF BRUCEVILLE-EDDY FOR THE AVAILABILITY OF WATER METERS FOR FIRE HYDRANT CONNECTION.
- THE PLANS SHOW PROPOSED ELEVATIONS, SLOPES AND DIMENSIONS THAT ARE INTENDED FOR ACTUAL PLACEMENT; HOWEVER, THERE MAY BE SOME INSTANCES WHERE EXISTING CONDITIONS MAKE IT

- CONTRACTOR SHALL DEVELOP AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN FOR THIS SITE AND COMPLY WITH ALL REQUIREMENTS OF THE TCEQ FOR THE STORMWATER POLLUTION PREVENTION PLAN.
- AFTER PERMANENT EROSION CONTROL HAS BEEN ESTABLISHED CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD FOR CONSIDERATION.
- ALL SIDEWALKS AND ACCESSIBLE PATHS SHALL MEET A.D.A ACCESSIBILITY STANDARDS. CONTRACTOR SHALL VERIFY COMPLIANCE PRIOR TO CONCRETE PLACEMENTS.
- SITE DIMENSIONS ARE TYPICALLY TO FACE OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. THIS INCLUDES ALL CURBED RADII.
- ACCESSIBLE PARKING STALLS SHALL BE DIMENSIONED AS NOTED. CONTRACTOR SHALL VERIFY COMPLIANCE WITH A.D.A. ACCESSIBILITY STANDARDS PRIOR TO STRIPING.
- THE CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE CURB STOPS AS INDICATED ON THE PLANS.
- SOME PROJECT COMPONENTS SUCH AS THE GATES REQUIRE CAREFUL COORDINATION WITH OUTSIDE INSTALLERS PRIOR TO CONSTRUCTION OF FLATWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COMPONENT INTEGRATIONS (I.E. ENSURING ADEQUATE POWER AT THE GATES, CONDUIT FOR IRRIGATION, ETC.)
- FUEL TANK
24.1 CONTRACTOR SHALL FURNISH AND INSTALL CLAY CAP WITHIN 10' OF THE BACK OF CURB AT THE FUEL TANKS. CLAY CAP SHALL BE 2' DEEP AND CONSIST OF COHESIVE CLAY WITH A PLASTICITY INDEX (PI) BETWEEN 20 TO 35 PERCENT, AT LEAST 70 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE AND NO MORE THAN 15 PERCENT BY WEIGHT RETAINED IN THE NO. 4 SIEVE. CLAY SOILS SHOULD BE COMPACTED TO A DRY DENSITY BETWEEN 95 AND 100 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE COMPACTED MOISTURE CONTENT OF THE CLAYS DURING PLACEMENT SHOULD BE WITHIN THE RANGE OF 0 TO 4 PERCENTAGE POINTS ABOVE OPTIMUM. CLAYEY MATERIALS USED AS FILL SHOULD BE PROCESSED AND THE LARGEST PARTICLE OR CLOD SHOULD BE LESS THE 6 INCHES PRIOR TO COMPACTION.

GRADING & PAVING NOTES:

- EXISTING GRADE CONTOUR INTERVALS ARE SHOWN AT 1 FOOT.
- PROPOSED GRADE CONTOUR INTERVALS ARE SHOWN AT 1 FOOT.
- WHERE EXISTING PAVEMENT ADJOINS NEW PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAWED TO A NEAT TRANSVERSE LINE TO PERMIT ADEQUATE JOINING.
- THE PLANS SHOW PROPOSED ELEVATIONS, SLOPES AND DIMENSIONS THAT ARE INTENDED FOR ACTUAL PLACEMENT; HOWEVER, THERE MAY BE SOME INSTANCES WHERE EXISTING CONDITIONS MAKE IT IMPRACTICAL TO ACHIEVE THE IDEAL IN THOSE INSTANCES. THE ENGINEER WILL ASSIST THE CONTRACTOR IN MAKING PROPER FIELD CHANGES TO BETTER ACCOUNT FOR FIELD CONDITIONS.
- THE PLANS SHOW PROPOSED DESIGN ELEVATIONS FOR CONCRETE PAVEMENT AND SLAB FOUNDATIONS ON GRADE; HOWEVER, THESE PLANS DO NOT EXTEND TO ANY SUCH STRUCTURAL DESIGN OF SAID CONCRETE PAVEMENT AND SLAB FOUNDATIONS. THE SEAL HERE-ON DOES NOT EXTEND TO ANY SUCH STRUCTURAL DESIGNS THAT MAY BE INCORPORATED IN THE WORK.
- CONTRACTOR SHALL CONFIRM DRIVE TIE-IN ELEVATIONS AS NECESSARY AND CONSULT ENGINEER IF ANY MODIFICATIONS ARE WARRANTED TO ENSURE PROPOSED PAVEMENT GRADES.
- ALL ELEVATIONS ARE TO TOP OF PAVEMENT OR FINISHED GROUND, UNLESS OTHERWISE NOTED.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER, UNLESS OTHERWISE NOTED (6:1 IN TXDOT ROW).
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND FOUNDATIONS FOR ALL NATURAL AND PAVED AREAS.
- PROVIDE STANDARD OR INDIRECT FLOW CURB & GUTTER PER DETAILS AS DICTATED BY THE PROPOSED GRADES.
- ALL SIDEWALKS, ACCESSIBLE PATHS AND PARKING SPOTS SHALL MEET A.D.A ACCESSIBILITY STANDARDS. CONTRACTOR SHALL VERIFY COMPLIANCE PRIOR TO CONCRETE PLACEMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
11.1. 5'X5' LANDINGS WITH LESS THAN 2% SLOPE IN ALL DIRECTIONS AT SIDEWALK TURNS, RAMP TOPS/BOTTOMS, ETC.
11.2. MAX SIDEWALK CROSS SLOPE OF 2%

- MAX RAMP SLOPE OF 8.33%
- MAX SIDEWALK RUNNING SLOPE OF 5%
- ACCESSIBLE PARKING SPOTS WITH LESS THAN 2% SLOPE IN ALL DIRECTIONS
- PAVEMENT SHALL BE CONSTRUCTED ACCORDING TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING REPORT. ALL RECOMMENDATIONS FOR PAVEMENT CONSTRUCTION SHALL BE FOLLOWED.
- EXCAVATION, PLACEMENT OF FILL, COMPACTION OF FILL MATERIAL, SUBGRADE PREPARATION, CONCRETE REINFORCING, FLATWORK RECOMMENDATIONS, ETC. SHALL BE ACCORDING TO THE RECOMMENDATIONS PROVIDED IN THE PREVIOUSLY NOTED GEOTECHNICAL REPORT.
- TESTING AND INSPECTIONS SHALL BE PROVIDED ACCORDING TO THE RECOMMENDATIONS PROVIDED IN THE PREVIOUSLY NOTED GEOTECHNICAL REPORT.
- ALL CONCRETE SHALL BE GIVEN A BROOM FINISH, UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE REQUIREMENTS OF TXDOT ITEM 526 "MEMBRANE CURING".
- CONCRETE JOINTS SHALL BE PROVIDED IN ACCORDANCE WITH ACI 330R-08 "GUIDE FOR THE DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS", UNLESS OTHERWISE NOTED.

UTILITY NOTES:

- ALL UTILITY CONSTRUCTION SHALL COMPLY WITH T.C.E.Q. REGULATIONS AND APPLICABLE BUILDING CODES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARD TO MATERIALS AND INSTALLATION OF THE WATER, SEWER AND GAS LINES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- WATER AND SEWER TAP PERMITS ARE REQUIRED AND SHALL BE OBTAINED BY THE CONTRACTOR.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN HEREIN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF ALL EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDINGS.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD FOR CONSIDERATION.
- CONTRACTOR SHALL VERIFY ALL PROPOSED UTILITY LOCATIONS WITH ARCHITECTURAL AND M.E.P. PLANS
- UNDERGROUND LINES SHALL BE INSPECTED BEFORE BACKFILLING.
- BACKFILL FOR UTILITY TRENCHES SHALL BE PER THE ATTACHED EMBEDMENT DETAILS. BANKS OF MULTIPLE CONDUITS SHALL BE BACKFILLED WITH MATERIAL THAT IS EASY TO COMPACT.
- ALL FILL MATERIALS SHALL BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM SEPARATION DISTANCES BETWEEN ALL UTILITY IMPROVEMENTS AND THE MINIMUM COVER ON ALL LINES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES.
- CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH ALL APPLICABLE UTILITY COMPANIES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
- WATER:
21.1. DOMESTIC WATER SERVICES & MAINS SHALL BE AS FOLLOWS:
21.1.1. 2" AND BELOW-HDPE DR 9 (OR APPROVED EQUIVALENT)
21.1.2. 3"-PVC SDR 21 (OR APPROVED EQUIVALENT)
21.1.3. 4" AND ABOVE-PVC C900 DR18 (OR APPROVED EQUIVALENT)
21.2. CONTRACTOR SHALL MAINTAIN A MINIMUM 3' OF COVER ON ALL WATER LINES.
21.3. ALL WATER LINE FITTINGS SHALL BE MECHANICAL JOINTS WITH

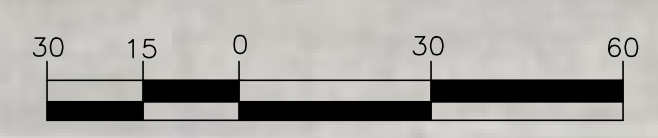
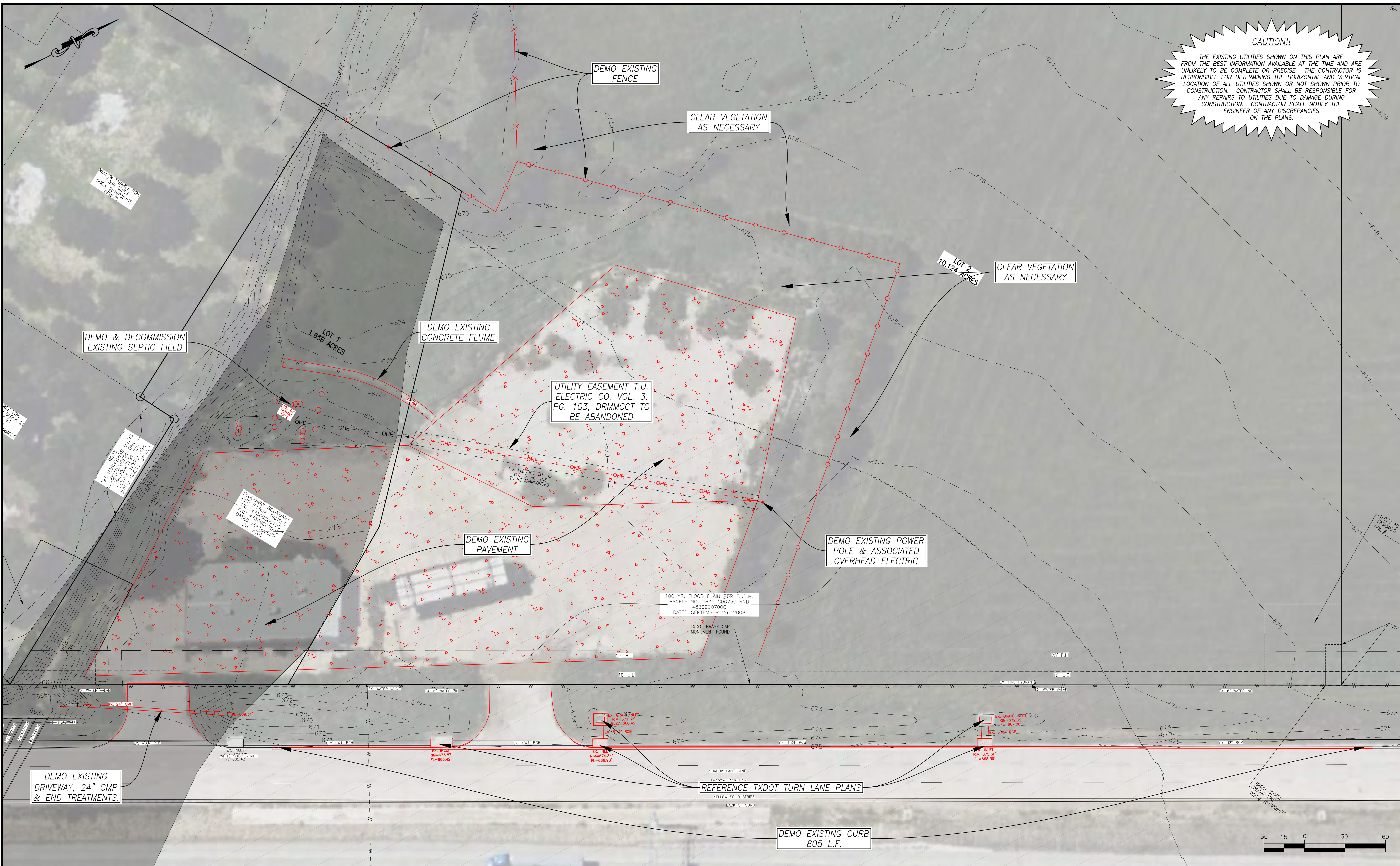
- THRUST BLOCKING AS REQUIRED.
- ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE PROVIDED VIA WET TAPPING SLEEVE AND VALVE SIZED OF THE EXISTING WATERLINE. THE CONNECTION SHALL INCLUDE ALL INCIDENTAL EQUIPMENT AND MATERIALS AS REQUIRED TO PERFORM THE TAP. CONTRACTOR SHALL THE CITY OF BRUCEVILLE-EDDY INSPECTOR AND ENSURE INSPECTOR IS PRESENT FOR TAP. CONCRETE BLOCKING SHALL BE PLACED WITHIN 24 HOURS.
- METERS SHALL BE LOCATED AT EASEMENT OR R.O.W. BOUNDARIES AS SHOWN.
- PROVIDE METERS IN VAULTS PER DETAILS OR EQUIVALENT APPROVED BY THE CITY OF BRUCEVILLE-EDDY. VAULTS LOCATED IN PAVED AREAS SHALL BE TRAFFIC RATED.
- PROVIDE A REDUCED PRESSURE BACKFLOW PREVENTER PER DETAILS OR EQUIVALENT APPROVED BY THE CITY OF BRUCEVILLE-EDDY. VERIFY BACKFLOW REQUIREMENTS WITH M.E.P. PLANS.
- BACKFLOW DEVICES SHALL INSTALLED AND TESTED BY A STATE LICENSED B.P.A.T.
- CONTRACTOR SHALL PROVIDE AN IRRIGATION PLAN BY A LICENSED IRRIGATOR TO THE CITY OF BRUCEVILLE-EDDY UNDER SEPARATE COVER PRIOR TO IMPLEMENTATION OF THE LANDSCAPE PLAN PROVIDED HERE-IN.
- SANITARY SEWER:
22.1. SANITARY SEWER LINE SHALL BE PER OSSF PLANS BY OTHERS:
22.2. CONTRACTOR SHALL VERIFY ALL SEWER FLOW LINE ELEVATIONS WITH PLUMBING PLANS PRIOR TO INSTALLATION.
22.3. PROVIDE CLEANOUTS PER PLUMBING CODES AND AS NOTED. CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC RATED.
- ELECTRIC/LIGHTING:
23.1. CONTRACTOR SHALL COORDINATE ELECTRIC SERVICE CONDUIT AND CONNECTIONS WITH THE LOCAL PROVIDER.
23.2. VERIFY CIRCUIT LAYOUTS/REQUIREMENT AND CONDUIT SIZES WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT. ADJUST CONDUIT RUNS AS NECESSARY TO DISTRIBUTE ADEQUATE POWER FOR ALL SITE LIGHTING AND EQUIPMENT.
23.3. PROVIDE IN GROUND JUNCTION BOXES AT ALL CONDUIT CHANGES OF DIRECTION AND EVERY 500' ON STRAIGHT RUNS. JUNCTION BOXES IN PAVED AREAS SHALL BE TRAFFIC RATED.

STORM DRAIN NOTES:

- THE PLANS SHOW PROPOSED ELEVATIONS, SLOPES AND DIMENSIONS THAT ARE INTENDED FOR ACTUAL PLACEMENT; HOWEVER, THERE MAY BE SOME INSTANCES WHERE EXISTING CONDITIONS MAKE IT IMPRACTICAL TO ACHIEVE THE IDEAL IN THOSE INSTANCES. THE ENGINEER WILL ASSIST THE CONTRACTOR IN MAKING PROPER FIELD CHANGES TO BETTER ACCOUNT FOR FIELD CONDITIONS..
- HDPE PIPES SHALL BE DUAL WALL (SMOOTH INTERIOR) STORM PIPE WITH WATER TIGHT FITTINGS (ADS N-12 OR EQUIVALENT).
- ALL STORMWATER CONNECTIONS AT PIPE JOINTS, STRUCTURES, ETC. SHALL BE WATERTIGHT JOINTS PER MANUFACTURER SPECIFICATIONS.
- CONTRACTOR MAY SUBSTITUTE PIPE MATERIALS, WITH ENGINEER APPROVAL, TO IMPROVE STORM SYSTEM CONNECTIVITY AND SIMPLICITY OF CONSTRUCTION.
- MATCH CROWNS AT STRUCTURES/FITTINGS UNLESS OTHERWISE NOTED.
- ALL PROVIDED SLOPES ARE MINIMUMS.
- PROVIDE REDUCTION FITTINGS AS REQUIRED FOR CHANGES IN PIPE SIZES.
- ALL STORMWATER FITTINGS (WYES, BENDS, ETC.) SHALL BE OF LIKE MATERIAL AND SHALL BE PREFABRICATED BY THE PIPE MANUFACTURER TO ENSURE PROPER CONNECTIONS.
- ALL STORMWATER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE HEAVY DUTY TRAFFIC BEARING RINGS AND COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISHED GRADE UNLESS LID IS ALSO A GRATE INLET. GRATE INLETS IN PAVED AREAS SHALL BE ¼" BELOW ADJACENT FINISHED PAVEMENT.
- ALL STORM DRAIN LIDS SHALL BE LABELED "STORM SEWER".
- ALL STORMWATER STRUCTURES SHALL HAVE A SMOOTH UNIFORM Poured MORTAR INVERT FROM FLOW LINE IN TO FLOW OUT.
- PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION. PROVIDE SUBMITTALS TO ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL ENSURE THAT DRAINAGE OF STORMWATER RUNOFF IS MAINTAINED THROUGHOUT CONSTRUCTION.
- PRIOR TO FINAL ACCEPTANCE, ALL NEW STORMWATER STRUCTURES SHALL BE CLEANED OUT BY THE CONTRACTOR.

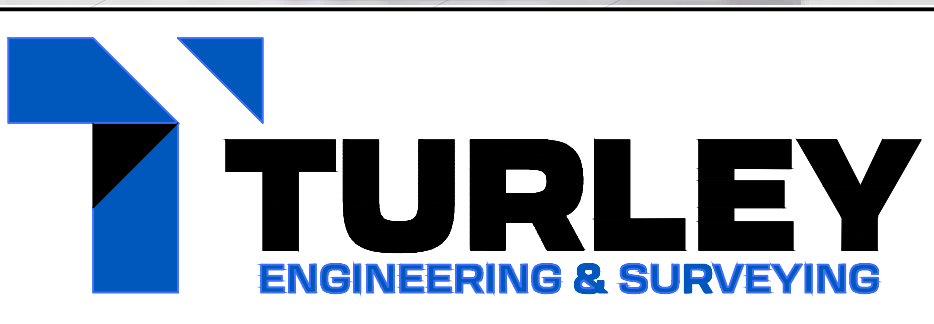
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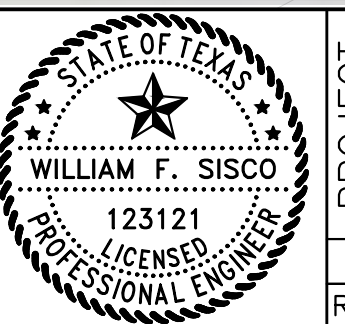


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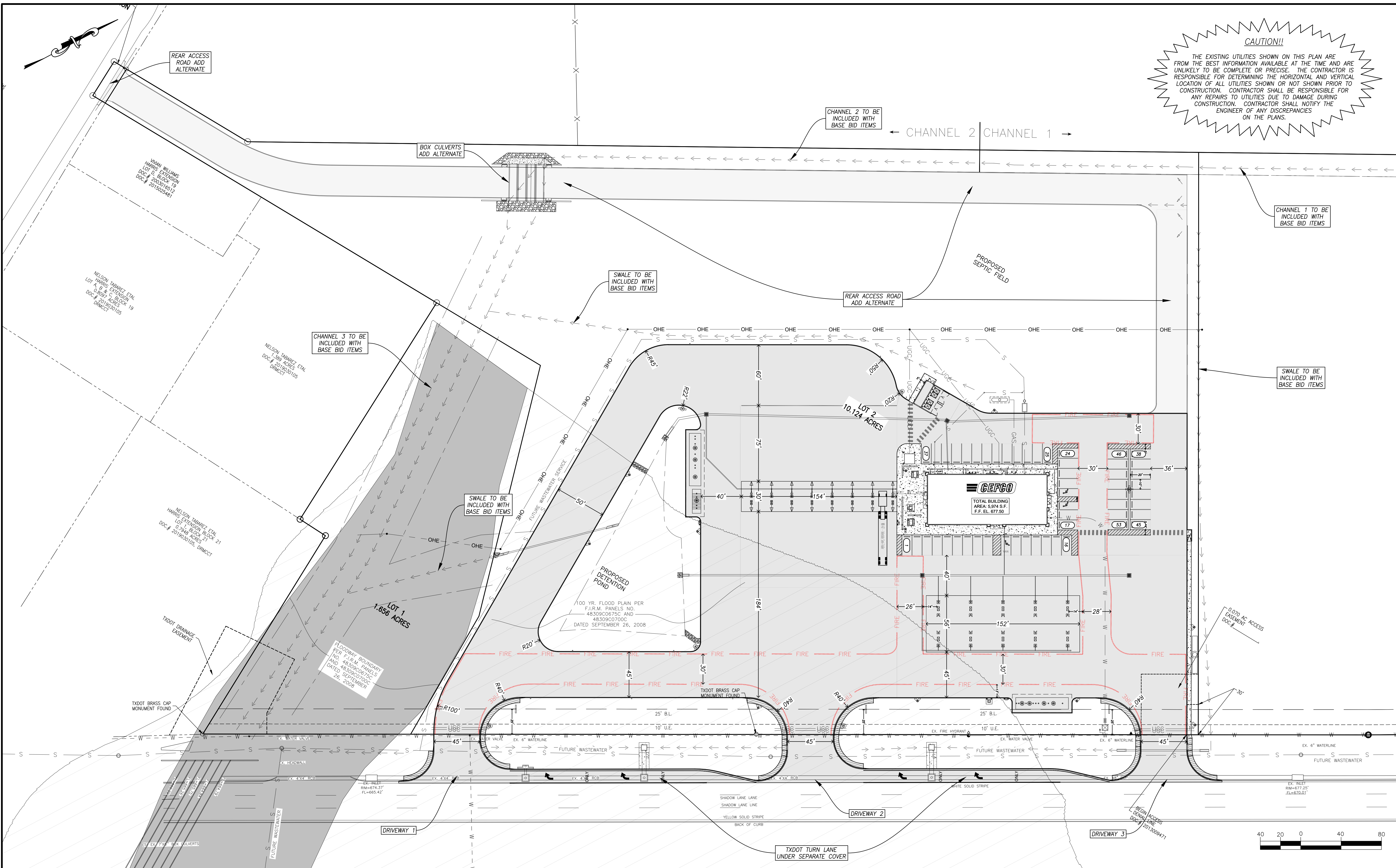
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PROJECT: CEFCO
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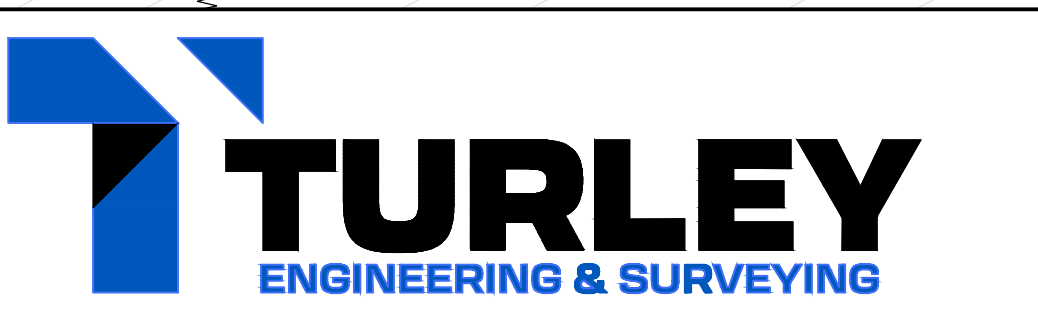
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 PAGE#: 6

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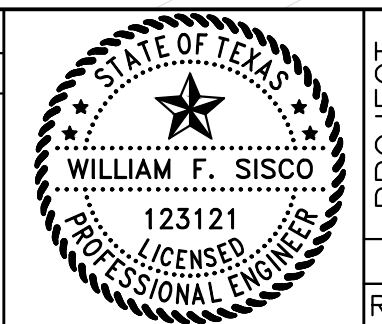


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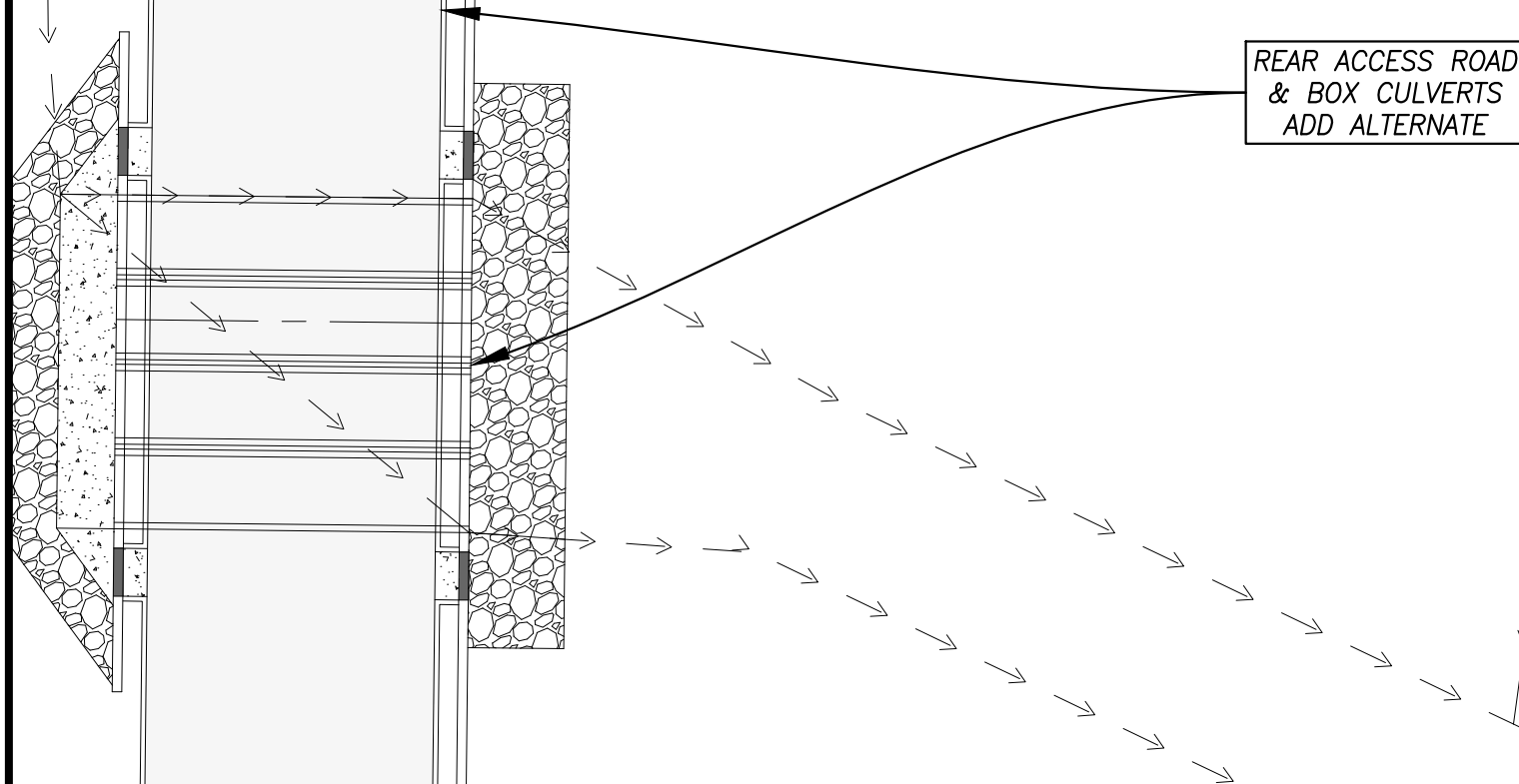
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 JOB#: 23-132
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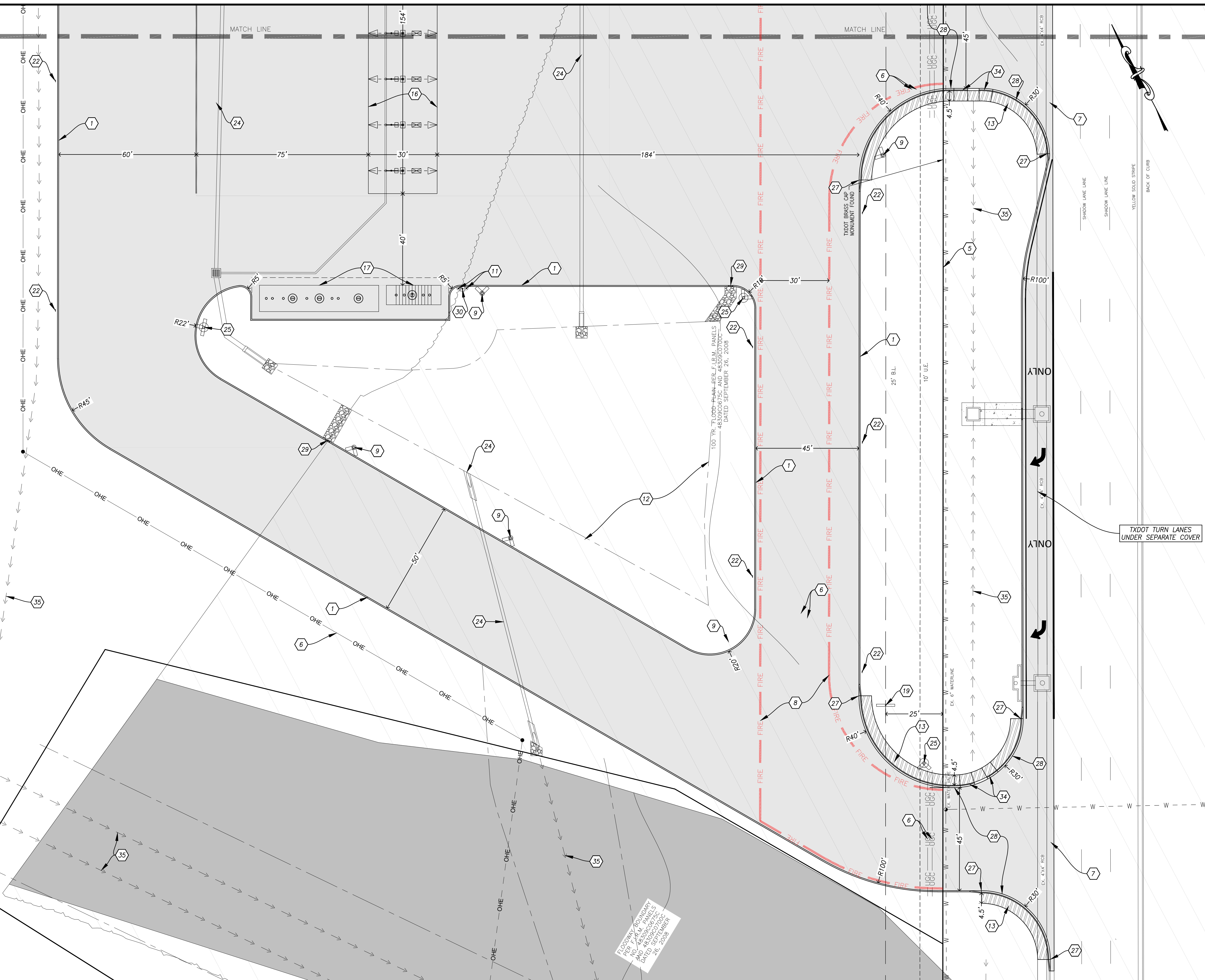
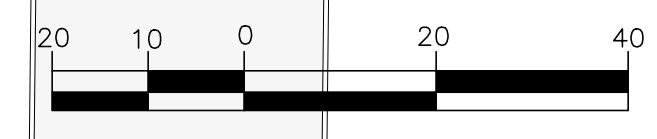


SITE PLAN KEYED NOTES

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2	CURB STOP (TYPICAL)
3	STRIPED GORE
4	ADA RESERVED PARKING TO INCLUDE PAVEMENT MARKINGS & SIGNAGE (CONSTRUCT ACCORDING TO ACCESSIBILITY STANDARDS) (REF: SITE DETAILS)
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6	SEE UTILITY PLAN
7	CONNECT TO EXISTING ASPHALT PAVEMENT (REF: PAVING PLAN)
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10	TRASH ENCLOSURE (REF: S03B & S03B) (REF: PAVING PLAN FOR CONCRETE SPECIFICATIONS)
11	6" BOLLARD TYPICAL (REF: S03B/#5) (COORDINATE BOLLARD LOCATION WITH ARCHITECTURAL PLANS)
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17	F&I: FUEL TANKS WITH CLAY CAP WITHIN 10' OF BACK OF CURB AT 2' DEEP (REF: FUEL PRODUCT SHEETS) (REF: GENERAL NOTES)
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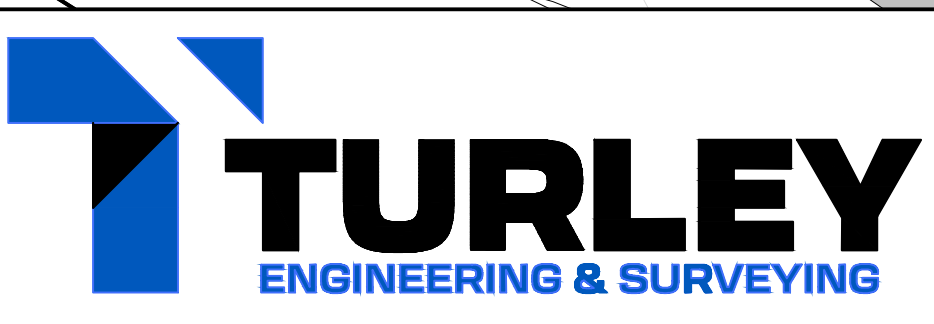


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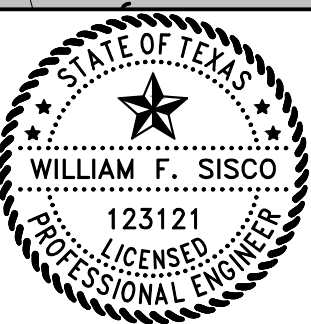


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PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
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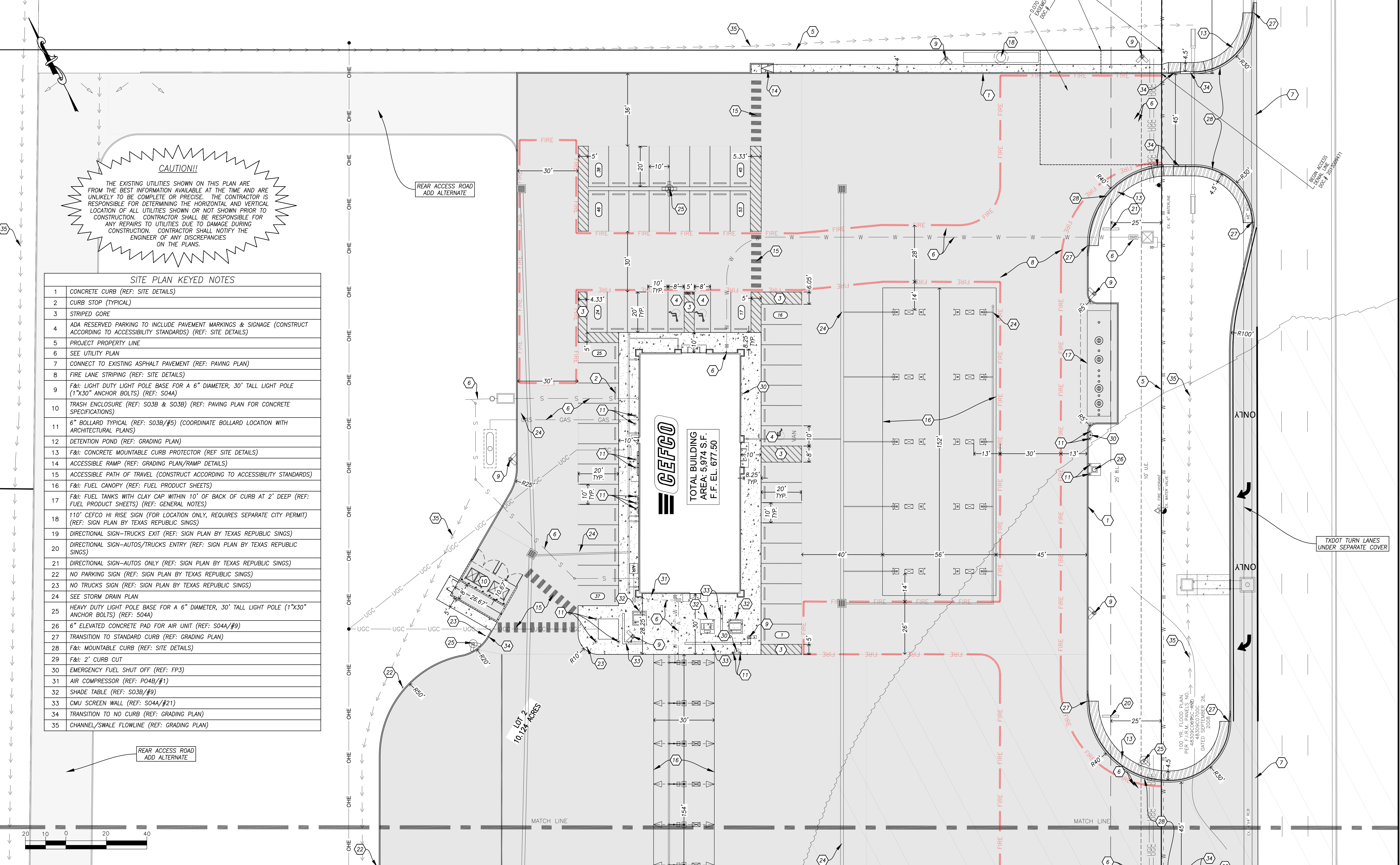
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 PAGE#: 8

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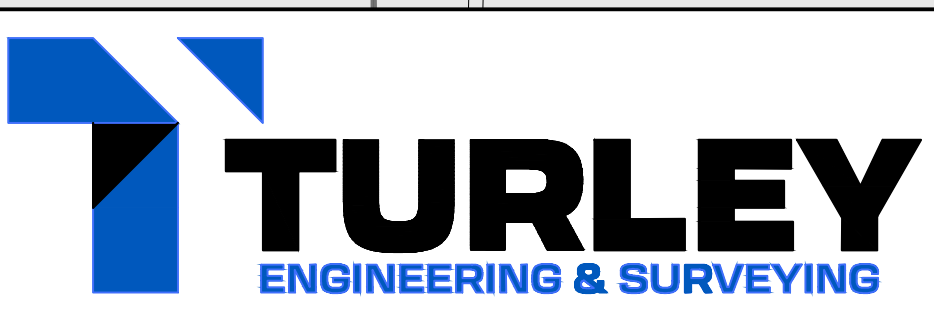
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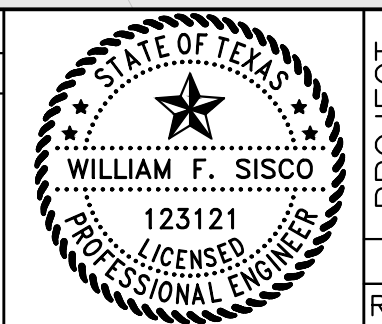


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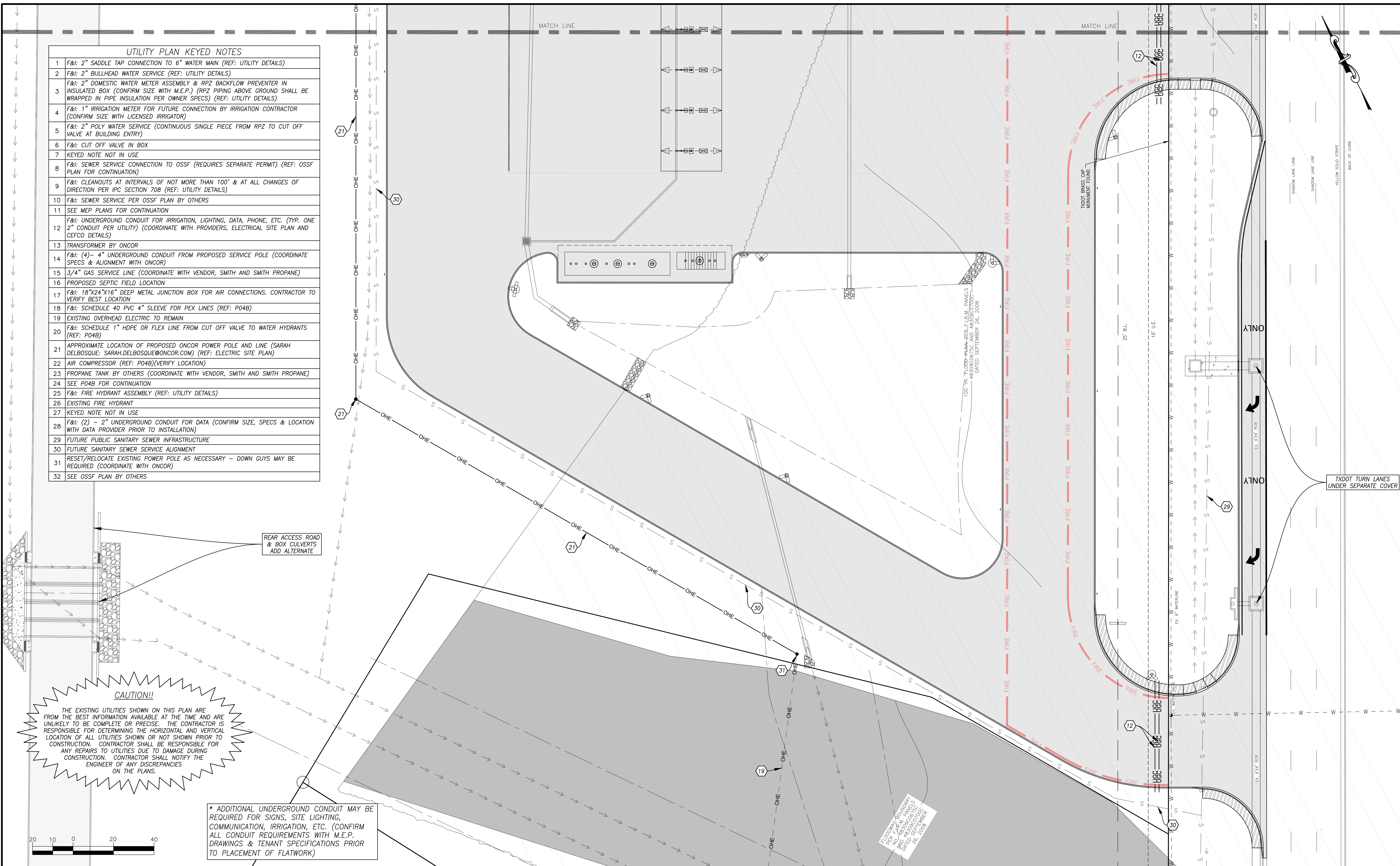
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PROJECT	CEFCO BRUCEVILLE-EDDY, TEXAS	TITLE	Dimensional Site Plan 2
FILE NAME:	23-132 SDP.dwg	JOB#	23-132
REF. DWG(s):		PAGE#	9

UTILITY PLAN KEYED NOTES

- 1 F&I: 2" SADDLE TAP CONNECTION TO 6" WATER MAIN (REF: UTILITY DETAILS)
- 2 F&I: 2" BULLHEAD WATER SERVICE (REF: UTILITY DETAILS)
- 3 F&I: 2" DOMESTIC WATER METER ASSEMBLY & RPZ BACKFLOW PREVENTER IN INSULATED BOX (CONFIRM SIZE WITH M.E.P.) (RPZ PIPING ABOVE GROUND SHALL BE WRAPPED IN PIPE INSULATION PER OWNER SPECS) (REF: UTILITY DETAILS)
- 4 F&I: 1" IRRIGATION METER FOR FUTURE CONNECTION BY IRRIGATION CONTRACTOR (CONFIRM SIZE WITH LICENSED IRRIGATOR)
- 5 F&I: 2" POLY WATER SERVICE (CONTINUOUS SINGLE PIECE FROM RPZ TO CUT OFF VALVE AT BUILDING ENTRY)
- 6 F&I: CUT OFF VALVE IN BOX
- 7 KEYED NOTE NOT IN USE
- 8 F&I: SEWER SERVICE CONNECTION TO OSSF (REQUIRES SEPARATE PERMIT) (REF: OSSF PLAN FOR CONTINUATION)
- 9 F&I: CLEANOUTS AT INTERVALS OF NOT MORE THAN 100' & AT ALL CHANGES OF DIRECTION PER IPC SECTION 708 (REF: UTILITY DETAILS)
- 10 F&I: SEWER SERVICE PER OSSF PLAN BY OTHERS
- 11 SEE MEP PLANS FOR CONTINUATION
- 12 F&I: UNDERGROUND CONDUIT FOR IRRIGATION, LIGHTING, DATA, PHONE, ETC. (TYP. ONE 2" CONDUIT PER UTILITY) (COORDINATE WITH PROVIDERS, ELECTRICAL SITE PLAN AND CEFCO DETAILS)
- 13 TRANSFORMER BY ONCOR
- 14 F&I: (4) - 4" UNDERGROUND CONDUIT FROM PROPOSED SERVICE POLE (COORDINATE SPECS & ALIGNMENT WITH ONCOR)
- 15 3/4" GAS SERVICE LINE (COORDINATE WITH VENDOR, SMITH AND SMITH PROPANE)
- 16 PROPOSED SEPTIC FIELD LOCATION
- 17 F&I: 18"x24"x16" DEEP METAL JUNCTION BOX FOR AIR CONNECTIONS. CONTRACTOR TO VERIFY BEST LOCATION
- 18 F&I: SCHEDULE 40 PVC 4" SLEEVE FOR PEX LINES (REF: P04B)
- 19 EXISTING OVERHEAD ELECTRIC TO REMAIN
- 20 F&I: SCHEDULE 1" HDPE OR FLEX LINE FROM CUT OFF VALVE TO WATER HYDRANTS (REF: P04B)
- 21 APPROXIMATE LOCATION OF PROPOSED ONCOR POWER POLE AND LINE (SARAH DELBOSQUE: SARAH.DELBOSQUE@ONCOR.COM) (REF: ELECTRIC SITE PLAN)
- 22 AIR COMPRESSOR (REF: P04B)(VERIFY LOCATION)
- 23 PROPANE TANK BY OTHERS (COORDINATE WITH VENDOR, SMITH AND SMITH PROPANE)
- 24 SEE P04B FOR CONTINUATION
- 25 F&I: FIRE HYDRANT ASSEMBLY (REF: UTILITY DETAILS)
- 26 EXISTING FIRE HYDRANT
- 27 KEYED NOTE NOT IN USE
- 28 F&I: (2) - 2" UNDERGROUND CONDUIT FOR DATA (CONFIRM SIZE, SPECS & LOCATION WITH DATA PROVIDER PRIOR TO INSTALLATION)
- 29 FUTURE PUBLIC SANITARY SEWER INFRASTRUCTURE
- 30 FUTURE SANITARY SEWER SERVICE ALIGNMENT
- 31 RESET/RELOCATE EXISTING POWER POLE AS NECESSARY - DOWN GUYS MAY BE REQUIRED (COORDINATE WITH ONCOR)
- 32 SEE OSSF PLAN BY OTHERS

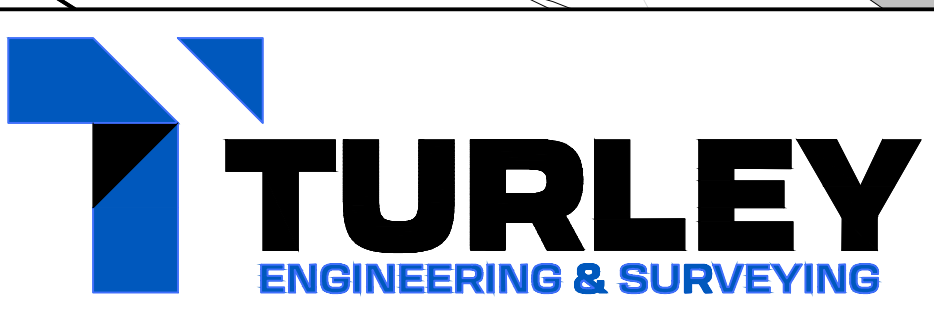


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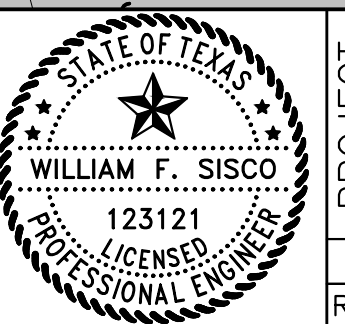
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REVISIONS	DATE	DESCRIPTION	DFTR.

TURLEY ASSOCIATES, INC.
 WWW.TURLEY-INC.COM
 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



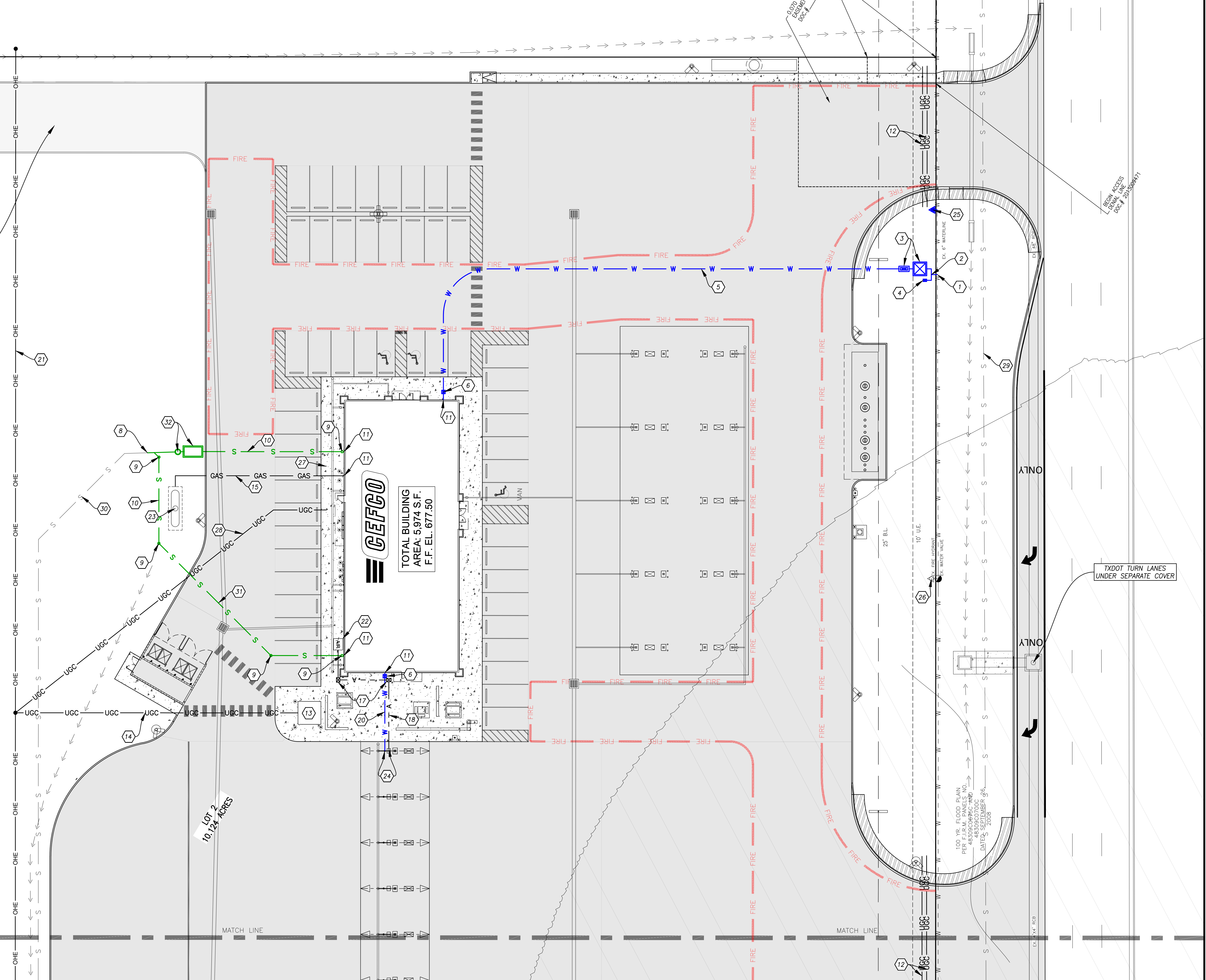
PROJECT: CEFCO
 BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

TITLE: Utility Plan 1
 JOB#: 23-132
 PAGE#: 10

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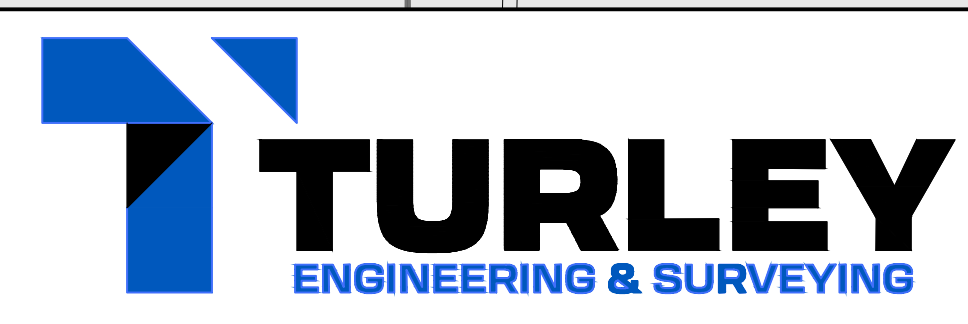
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UTILITY PLAN KEYED NOTES	
1	F&I: 2" SADDLE TAP CONNECTION TO 6" WATER MAIN (REF: UTILITY DETAILS)
2	F&I: 2" BULLHEAD WATER SERVICE (REF: UTILITY DETAILS)
3	F&I: 2" DOMESTIC WATER METER ASSEMBLY & RPZ BACKFLOW PREVENTER IN INSULATED BOX (CONFIRM SIZE WITH M.E.P.) (RPZ PIPING ABOVE GROUND SHALL BE WRAPPED IN PIPE INSULATION PER OWNER SPECS) (REF: UTILITY DETAILS)
4	F&I: 1" IRRIGATION METER FOR FUTURE CONNECTION BY IRRIGATION CONTRACTOR (CONFIRM SIZE WITH LICENSED IRRIGATOR)
5	F&I: 2" POLY WATER SERVICE (CONTINUOUS SINGLE PIECE FROM RPZ TO CUT OFF VALVE AT BUILDING ENTRY)
6	F&I: CUT OFF VALVE IN BOX
7	KEYED NOTE NOT IN USE
8	F&I: SEWER SERVICE CONNECTION TO OSSF (REQUIRES SEPARATE PERMIT) (REF: OSSF PLAN FOR CONTINUATION)
9	F&I: CLEANOUTS AT INTERVALS OF NOT MORE THAN 100' & AT ALL CHANGES OF DIRECTION PER IPC SECTION 708 (REF: UTILITY DETAILS)
10	F&I: SEWER SERVICE PER OSSF PLAN BY OTHERS
11	SEE MEP PLANS FOR CONTINUATION
12	F&I: UNDERGROUND CONDUIT FOR IRRIGATION, LIGHTING, DATA, PHONE, ETC. (TYP. ONE 2" CONDUIT PER UTILITY) (COORDINATE WITH PROVIDERS, ELECTRICAL SITE PLAN AND CEFCO DETAILS)
13	TRANSFORMER BY ONCOR
14	F&I: (4) - 4" UNDERGROUND CONDUIT FROM PROPOSED SERVICE POLE (COORDINATE SPECS & ALIGNMENT WITH ONCOR)
15	3/4" GAS SERVICE LINE (COORDINATE WITH VENDOR, SMITH AND SMITH PROPANE)
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22	AIR COMPRESSOR (REF: P04B)(VERIFY LOCATION)
23	PROPANE TANK BY OTHERS (COORDINATE WITH VENDOR, SMITH AND SMITH PROPANE)
24	SEE P04B FOR CONTINUATION
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26	EXISTING FIRE HYDRANT
27	KEYED NOTE NOT IN USE
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29	FUTURE PUBLIC SANITARY SEWER INFRASTRUCTURE
30	FUTURE SANITARY SEWER SERVICE ALIGNMENT
31	RESET/RELOCATE EXISTING POWER POLE AS NECESSARY - DOWN GUYS MAY BE REQUIRED (COORDINATE WITH ONCOR)
32	SEE OSSF PLAN BY OTHERS

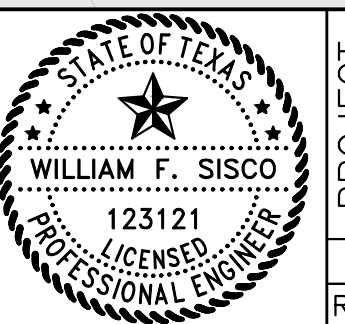


REV.	DATE	DESCRIPTION	DFTR.

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 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



PROJECT	CEFCO BRUCEVILLE-EDDY, TEXAS	TITLE	Utility Plan 2
FILE NAME:	23-132 SDP.dwg	JOB#	23-132
REF. DWG(S):		PAGE#	11

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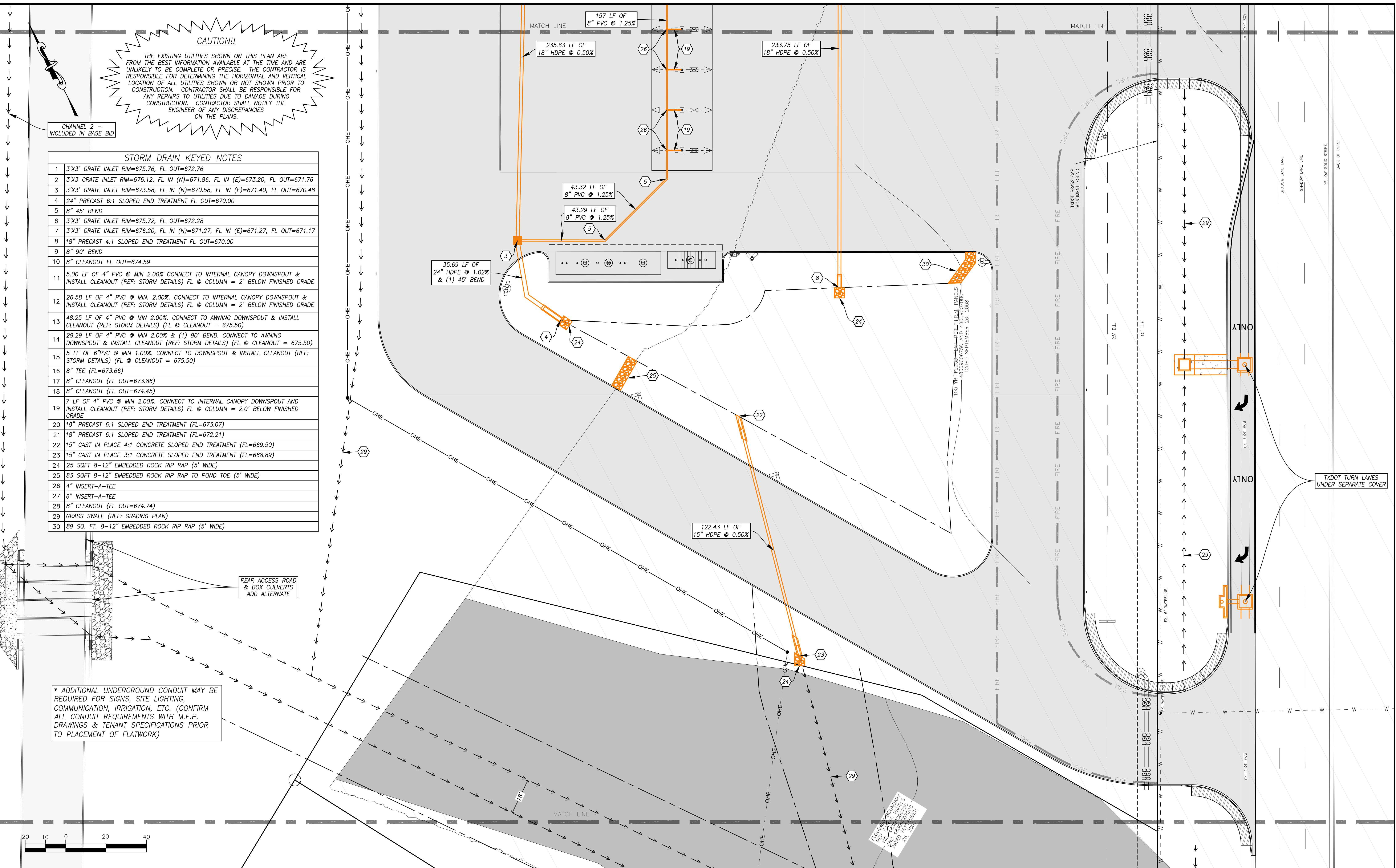
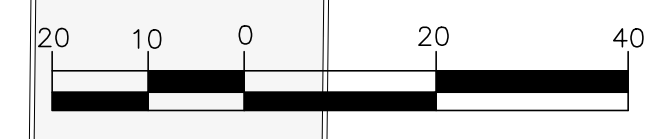
CHANNEL 2 - INCLUDED IN BASE BID

STORM DRAIN KEYED NOTES

1	3'X3' GRATE INLET RIM=675.76, FL OUT=672.76
2	3'X3' GRATE INLET RIM=676.12, FL IN (N)=671.86, FL IN (E)=673.20, FL OUT=671.76
3	3'X3' GRATE INLET RIM=673.58, FL IN (N)=670.58, FL IN (E)=671.40, FL OUT=670.48
4	24" PRECAST 6:1 SLOPED END TREATMENT FL OUT=670.00
5	8" 45° BEND
6	3'X3' GRATE INLET RIM=675.72, FL OUT=672.28
7	3'X3' GRATE INLET RIM=676.20, FL IN (N)=671.27, FL IN (E)=671.27, FL OUT=671.17
8	18" PRECAST 4:1 SLOPED END TREATMENT FL OUT=670.00
9	8" 90° BEND
10	8" CLEANOUT FL OUT=674.59
11	5.00 LF OF 4" PVC @ MIN 2.00% CONNECT TO INTERNAL CANOPY DOWNSPOUT & INSTALL CLEANOUT (REF: STORM DETAILS) FL @ COLUMN = 2' BELOW FINISHED GRADE
12	26.58 LF OF 4" PVC @ MIN. 2.00%. CONNECT TO INTERNAL CANOPY DOWNSPOUT & INSTALL CLEANOUT (REF: STORM DETAILS) FL @ COLUMN = 2' BELOW FINISHED GRADE
13	48.25 LF OF 4" PVC @ MIN 2.00%. CONNECT TO AWNING DOWNSPOUT & INSTALL CLEANOUT (REF: STORM DETAILS) (FL @ CLEANOUT = 675.50)
14	29.29 LF OF 4" PVC @ MIN 2.00% & (1) 90° BEND. CONNECT TO AWNING DOWNSPOUT & INSTALL CLEANOUT (REF: STORM DETAILS) (FL @ CLEANOUT = 675.50)
15	5 LF OF 6" PVC @ MIN 1.00%. CONNECT TO DOWNSPOUT & INSTALL CLEANOUT (REF: STORM DETAILS) (FL @ CLEANOUT = 675.50)
16	8" TEE (FL=673.66)
17	8" CLEANOUT (FL OUT=673.86)
18	8" CLEANOUT (FL OUT=674.45)
19	7 LF OF 4" PVC @ MIN 2.00%. CONNECT TO INTERNAL CANOPY DOWNSPOUT AND INSTALL CLEANOUT (REF: STORM DETAILS) FL @ COLUMN = 2.0' BELOW FINISHED GRADE
20	18" PRECAST 6:1 SLOPED END TREATMENT (FL=673.07)
21	18" PRECAST 6:1 SLOPED END TREATMENT (FL=672.21)
22	15" CAST IN PLACE 4:1 CONCRETE SLOPED END TREATMENT (FL=669.50)
23	15" CAST IN PLACE 3:1 CONCRETE SLOPED END TREATMENT (FL=668.89)
24	25 SQFT 8-12" EMBEDDED ROCK RIP RAP (5' WIDE)
25	83 SQFT 8-12" EMBEDDED ROCK RIP RAP TO POND TOE (5' WIDE)
26	4" INSERT-A-TEE
27	6" INSERT-A-TEE
28	8" CLEANOUT (FL OUT=674.74)
29	GRASS SWALE (REF: GRADING PLAN)
30	89 SQ. FT. 8-12" EMBEDDED ROCK RIP RAP (5' WIDE)

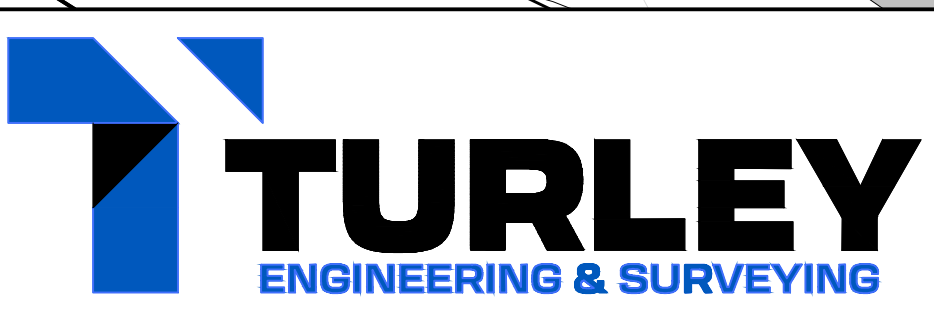
REAR ACCESS ROAD & BOX CULVERTS ADD ALTERNATE

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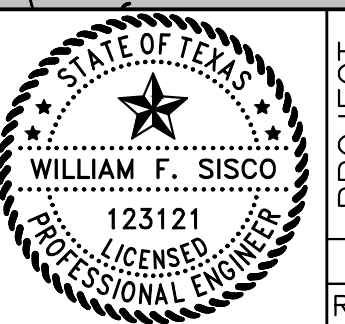


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 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
 TITLE: Storm Drain Plan 1
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

JOB# 23-132
 PAGE# 12

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REAR ACCESS ROAD
ADD ALTERNATE

STORM DRAIN KEYED NOTES

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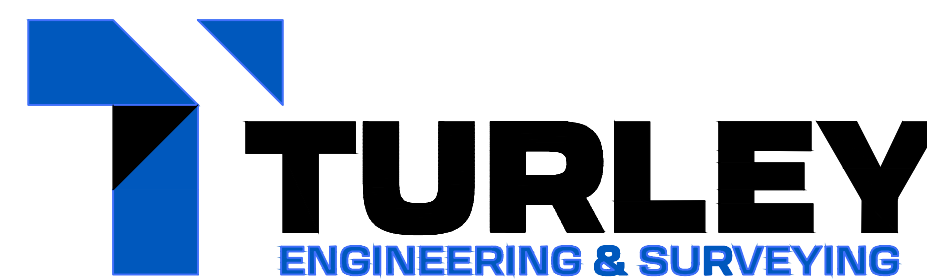
CHANNEL 2 -
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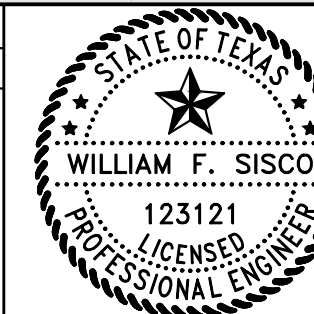


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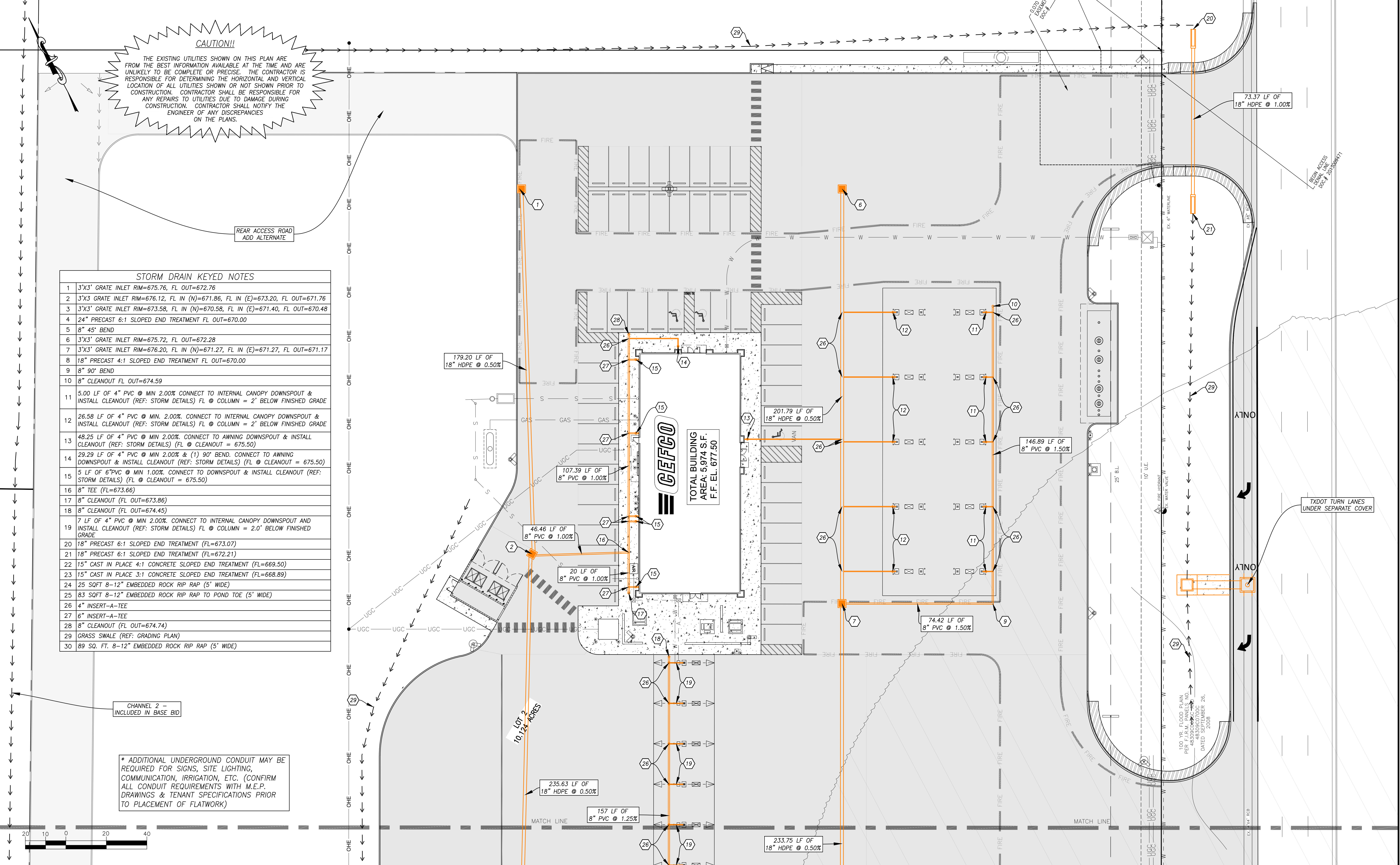


DRAFTSMAN: LJC
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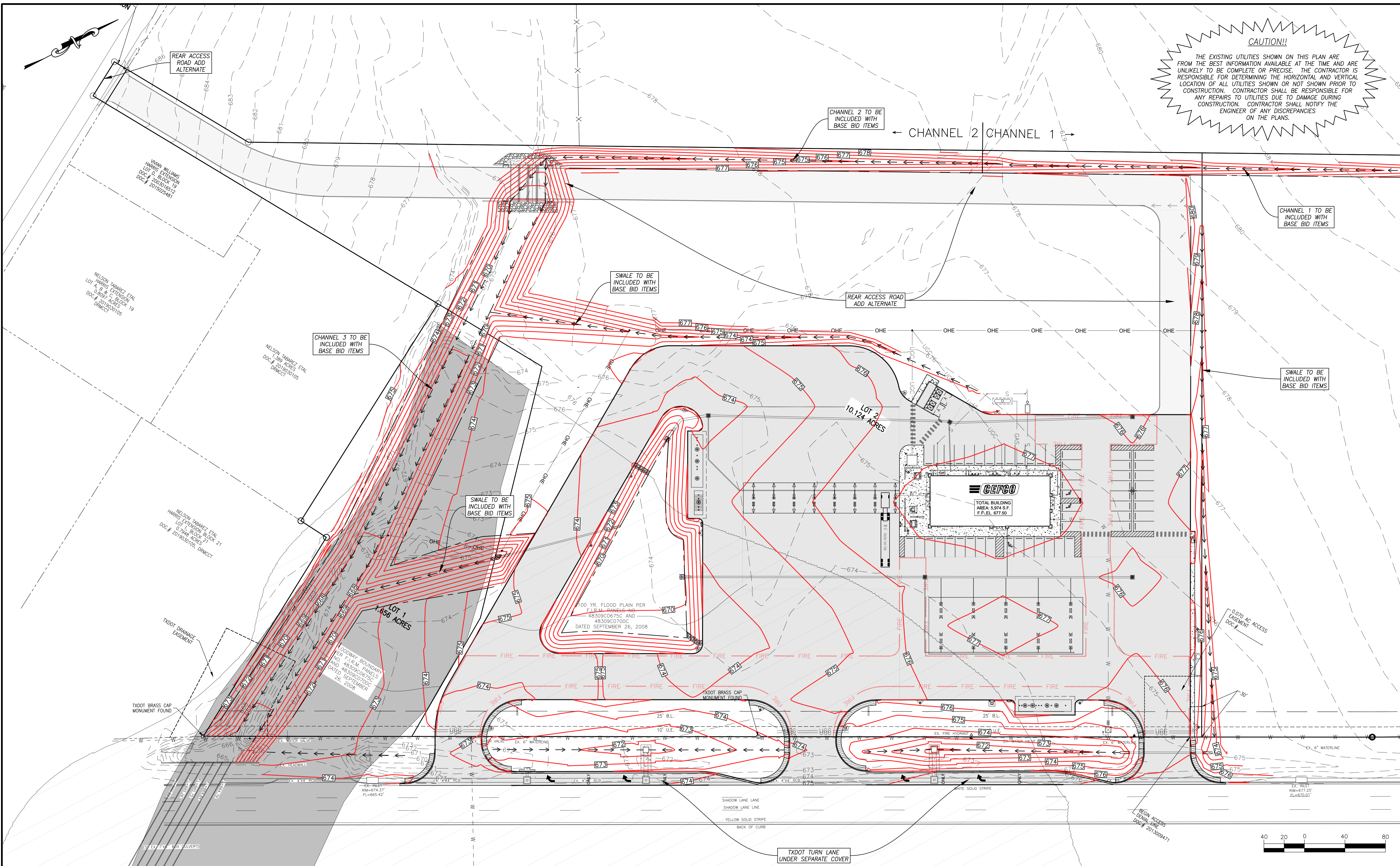


PROJECT: CEFCO
BRUCEVILLE-EDDY, TEXAS
FILE NAME: 23-132 SDP.dwg
REF. DWG(S):

TITLE: Storm Drain Plan 2
JOB#: 23-132
PAGE#: 13



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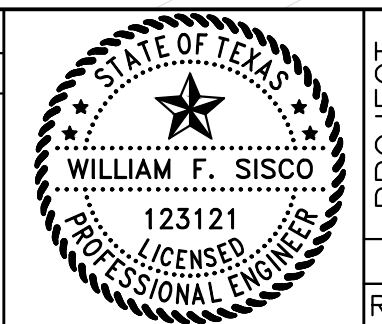


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PROJECT: CEFCO
 BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

TITLE: Overall Grading Plan
 JOB#: 23-132
 PAGE#: 14

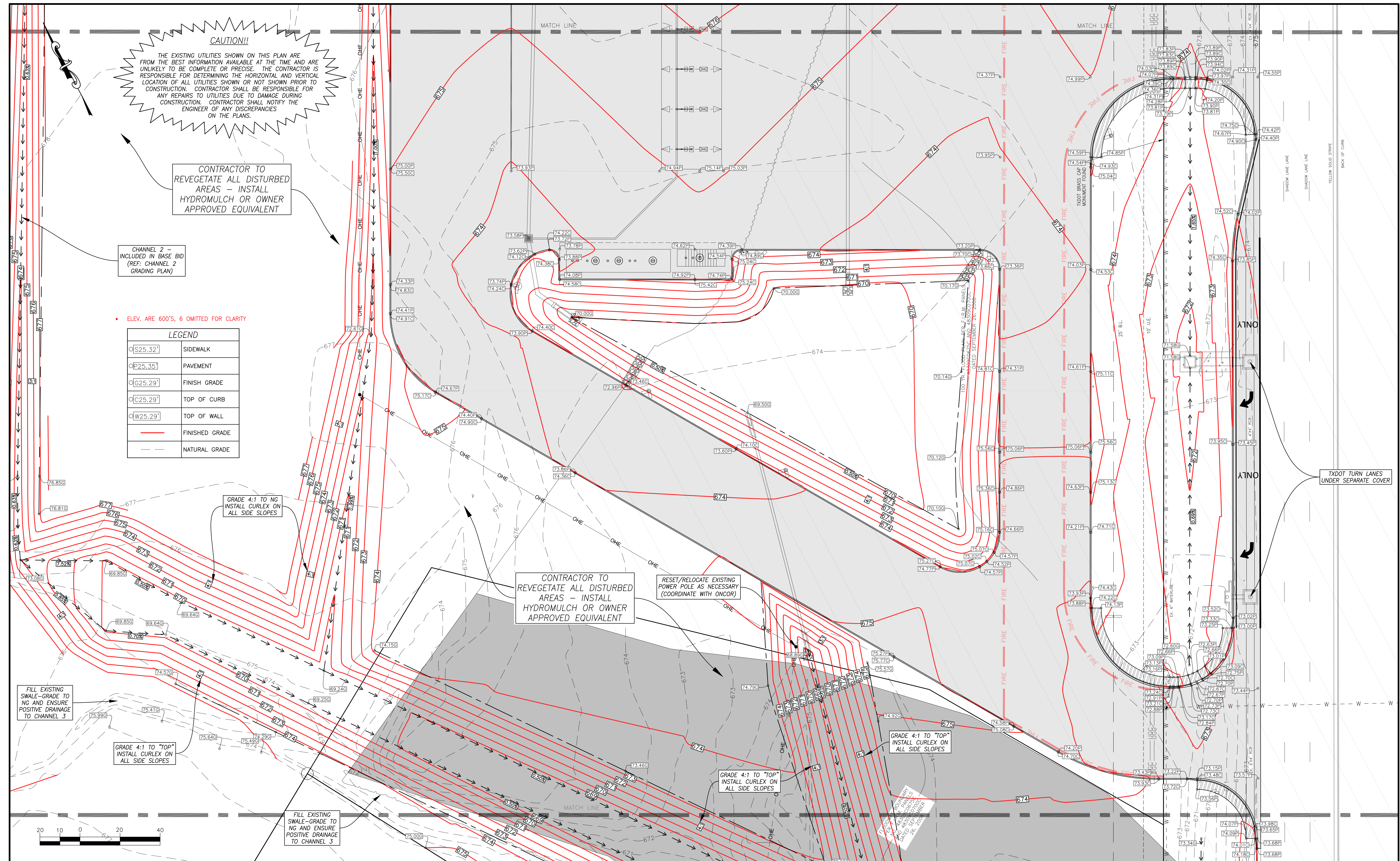
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CONTRACTOR TO REVEGETATE ALL DISTURBED AREAS - INSTALL HYDROMULCH OR OWNER APPROVED EQUIVALENT

CHANNEL 2 - INCLUDED IN BASE BID (REF: CHANNEL 2 GRADING PLAN)

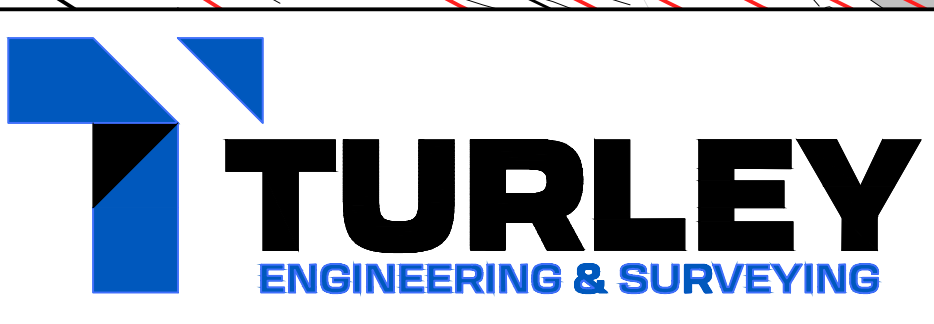
ELEV. ARE 600'S, 6 OMITTED FOR CLARITY

LEGEND	
	SIDEWALK
	PAVEMENT
	FINISH GRADE
	TOP OF CURB
	TOP OF WALL
	FINISHED GRADE
	NATURAL GRADE

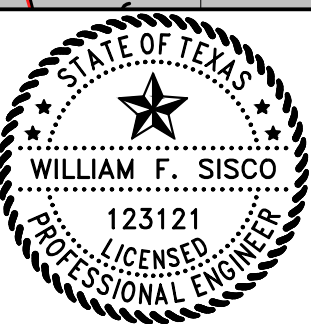


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 ENGINEER: *[Signature]*
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PROJECT	CEFCO BRUCEVILLE-EDDY, TEXAS	TITLE	Grading Plan 1
FILE NAME:	23-132 SDP.dwg	JOB#	23-132
REF. DWG(S):		PAGE#	15

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• ELEV. ARE 600'S, 6 OMITTED FOR CLARITY

LEGEND	
○S25.32'	SIDEWALK
○P25.35'	PAVEMENT
○G25.29'	FINISH GRADE
○C25.29'	TOP OF CURB
○W25.29'	TOP OF WALL
—	FINISHED GRADE
- - -	NATURAL GRADE

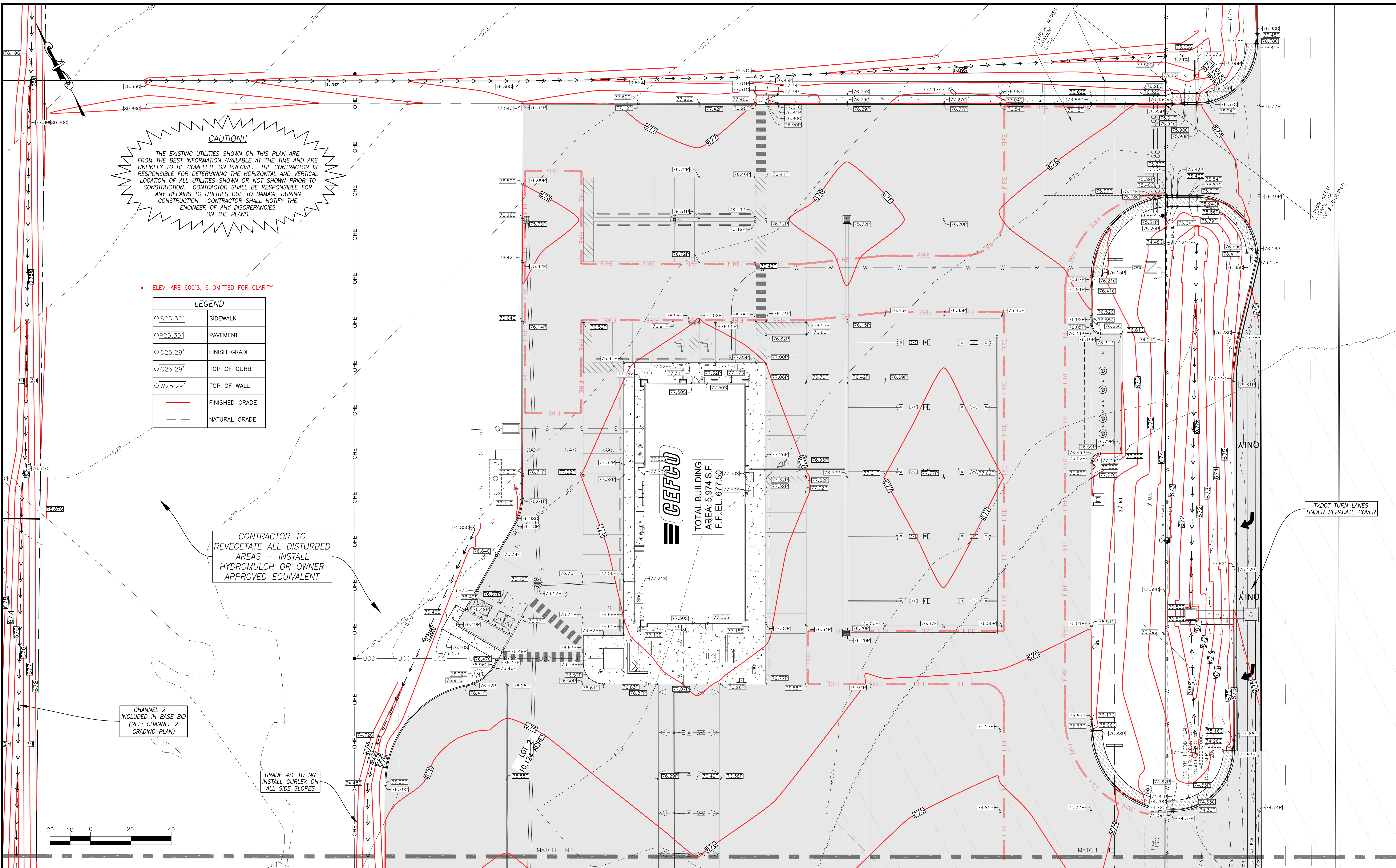
CONTRACTOR TO REVEGETATE ALL DISTURBED AREAS - INSTALL HYDROMULCH OR OWNER APPROVED EQUIVALENT

CHANNEL 2 - INCLUDED IN BASE BID (REF: CHANNEL 2 GRADING PLAN)

GRADE 4:1 TO NG INSTALL CURLEX ON ALL SIDE SLOPES

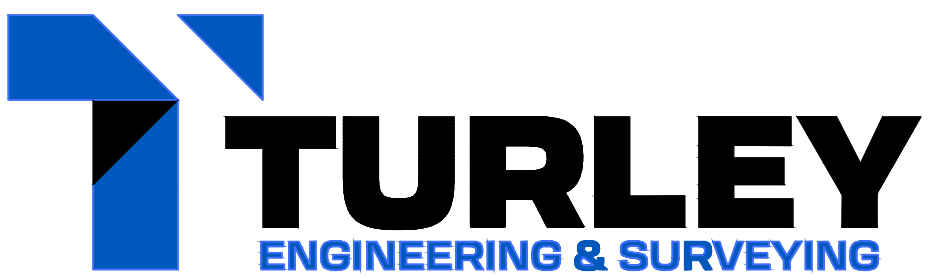


CEFCO
 TOTAL BUILDING AREA: 5974 S.F.
 F.F. EL. 677.50

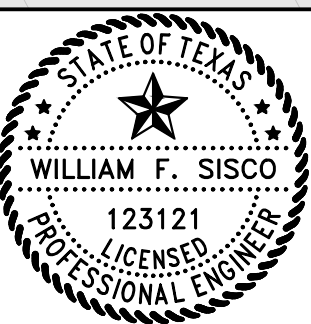


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 DATE: 3/27/2024



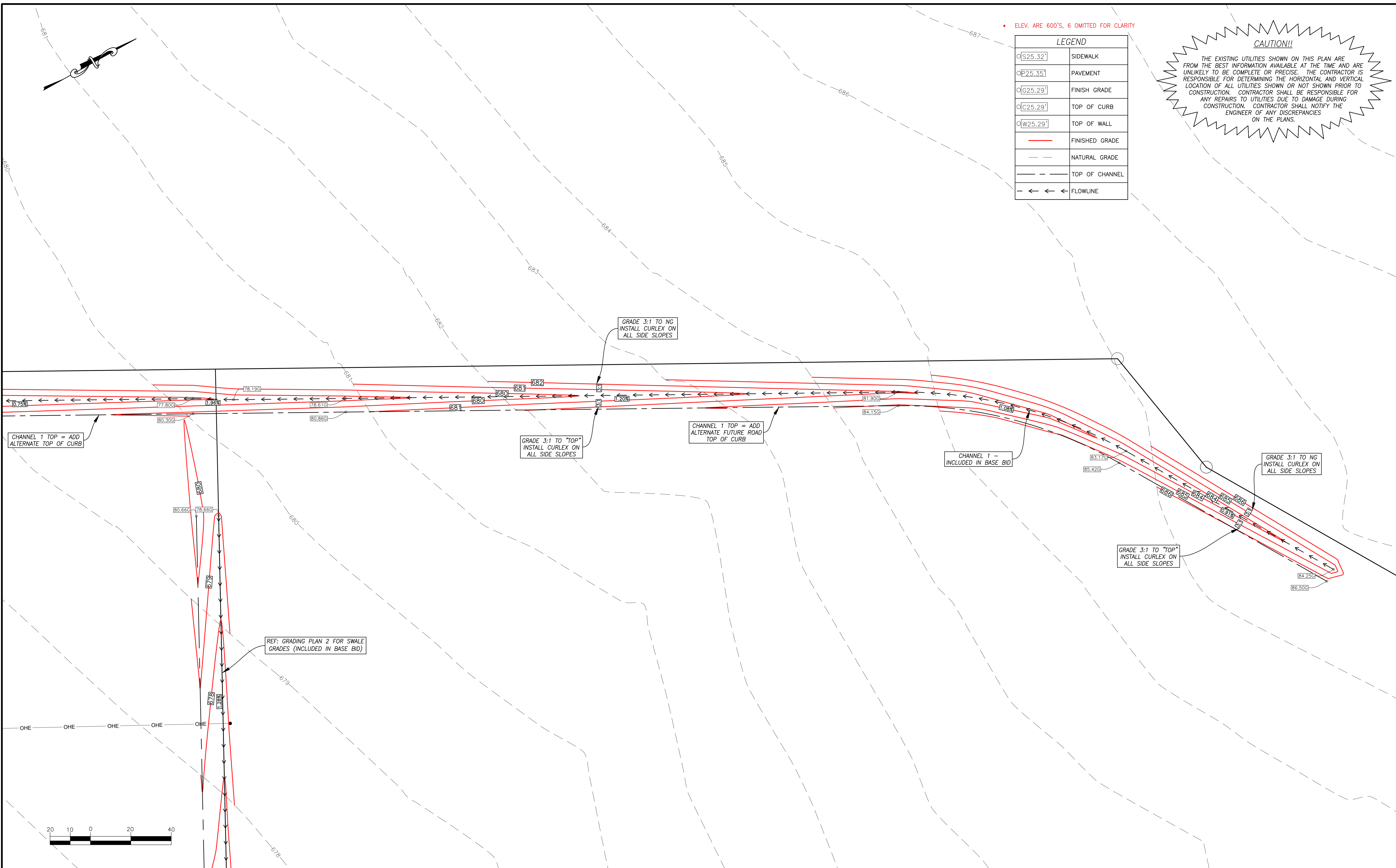
PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
 TITLE: Grading Plan 2
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(s):

JOB# 23-132
 PAGE# 16

• ELEV. ARE 600'S, 6 OMITTED FOR CLARITY

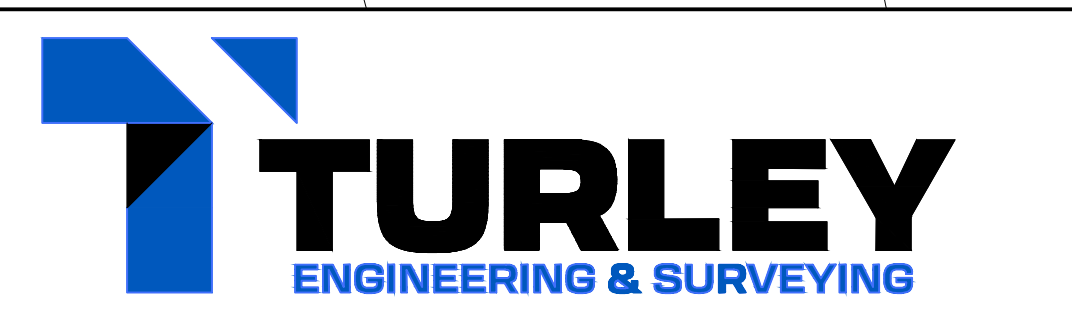
LEGEND	
○S25.32'	SIDEWALK
○P25.35'	PAVEMENT
○G25.29'	FINISH GRADE
○C25.29'	TOP OF CURB
○W25.29'	TOP OF WALL
—	FINISHED GRADE
- - -	NATURAL GRADE
— — —	TOP OF CHANNEL
← ← ←	FLOWLINE

CAUTION!!
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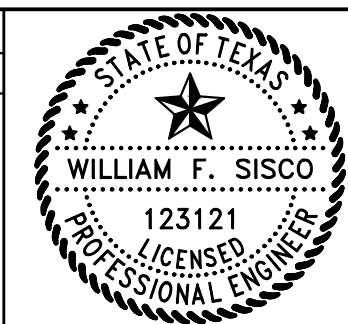
REVISIONS	DATE	DESCRIPTION	DFTR.

TURLEY ASSOCIATES, INC.
 WWW.TURLEY-INC.COM
 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*

DATE: 3/27/2024



PROJECT: CEFCO
 BRUCEVILLE-EDDY, TEXAS

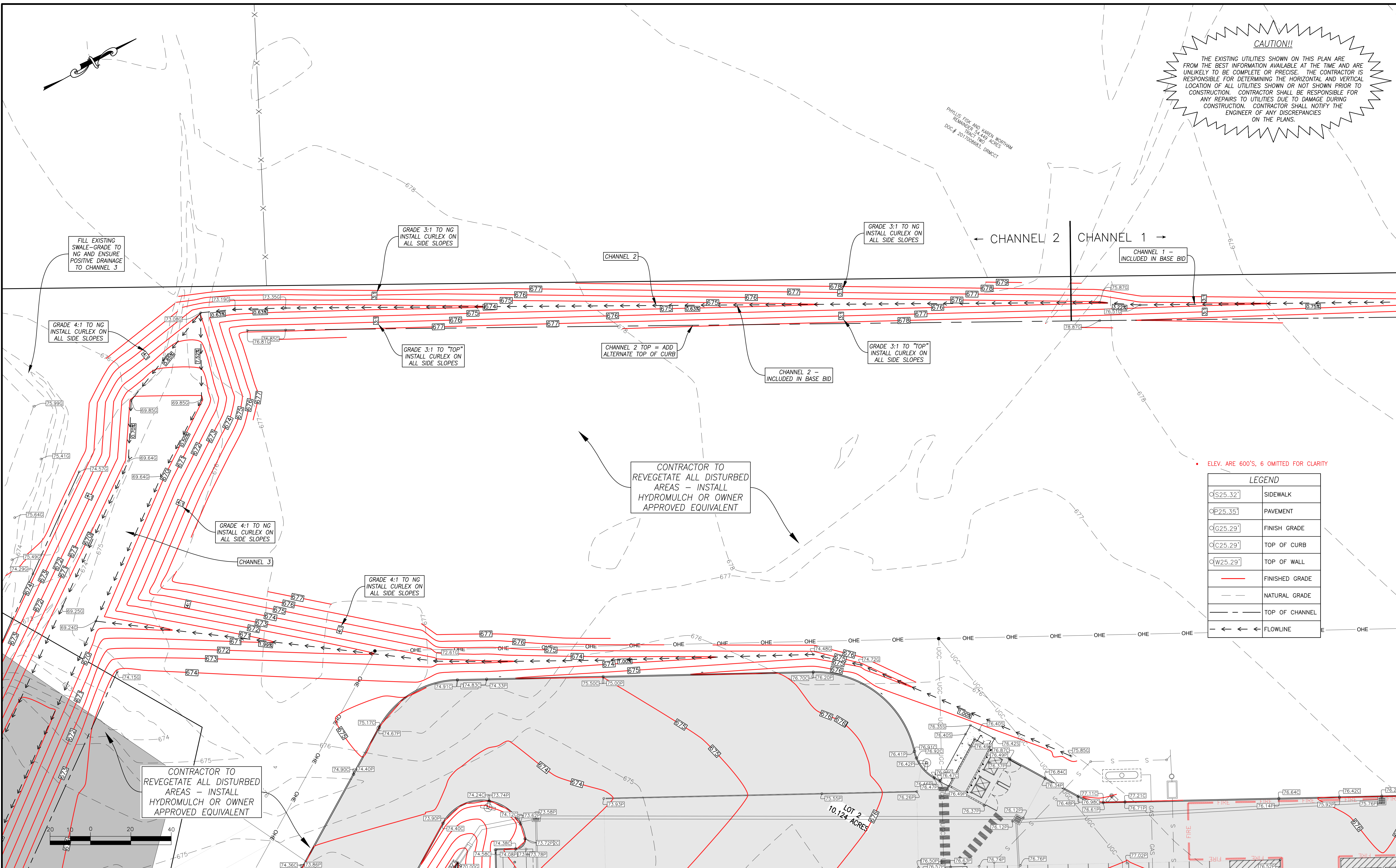
FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

TITLE: Channel 1 Grading Plan

JOB#: 23-132
 PAGE#: 17

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PHYLLIS FISK AND KAREN WORTHAM
 REMAINDER 54.448 ACRES
 DOC # 2017080883, DRMCCT

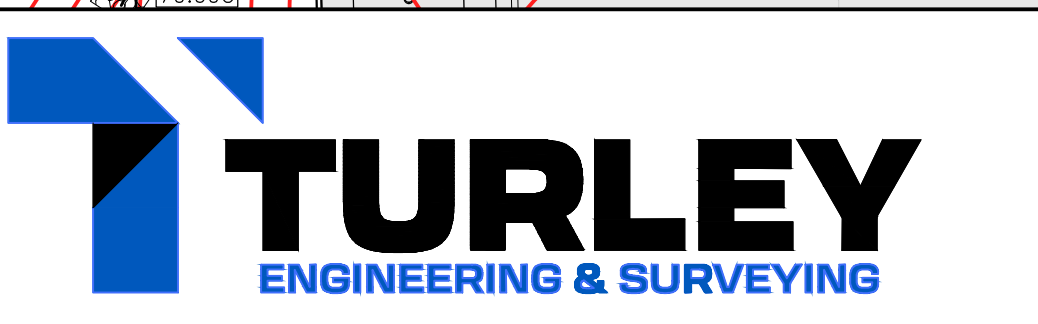


ELEV. ARE 600'S, 6 OMITTED FOR CLARITY

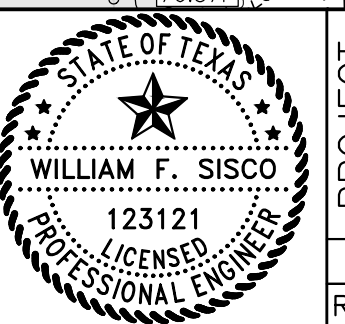
LEGEND	
○S25.32'	SIDEWALK
○P25.35'	PAVEMENT
○G25.29'	FINISH GRADE
○C25.29'	TOP OF CURB
○W25.29'	TOP OF WALL
—	FINISHED GRADE
- - -	NATURAL GRADE
- - -	TOP OF CHANNEL
← ← ←	FLOWLINE

REVISIONS	DATE	DESCRIPTION	DFTR.

TURLEY ASSOCIATES, INC.
 WWW.TURLEY-INC.COM
 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869

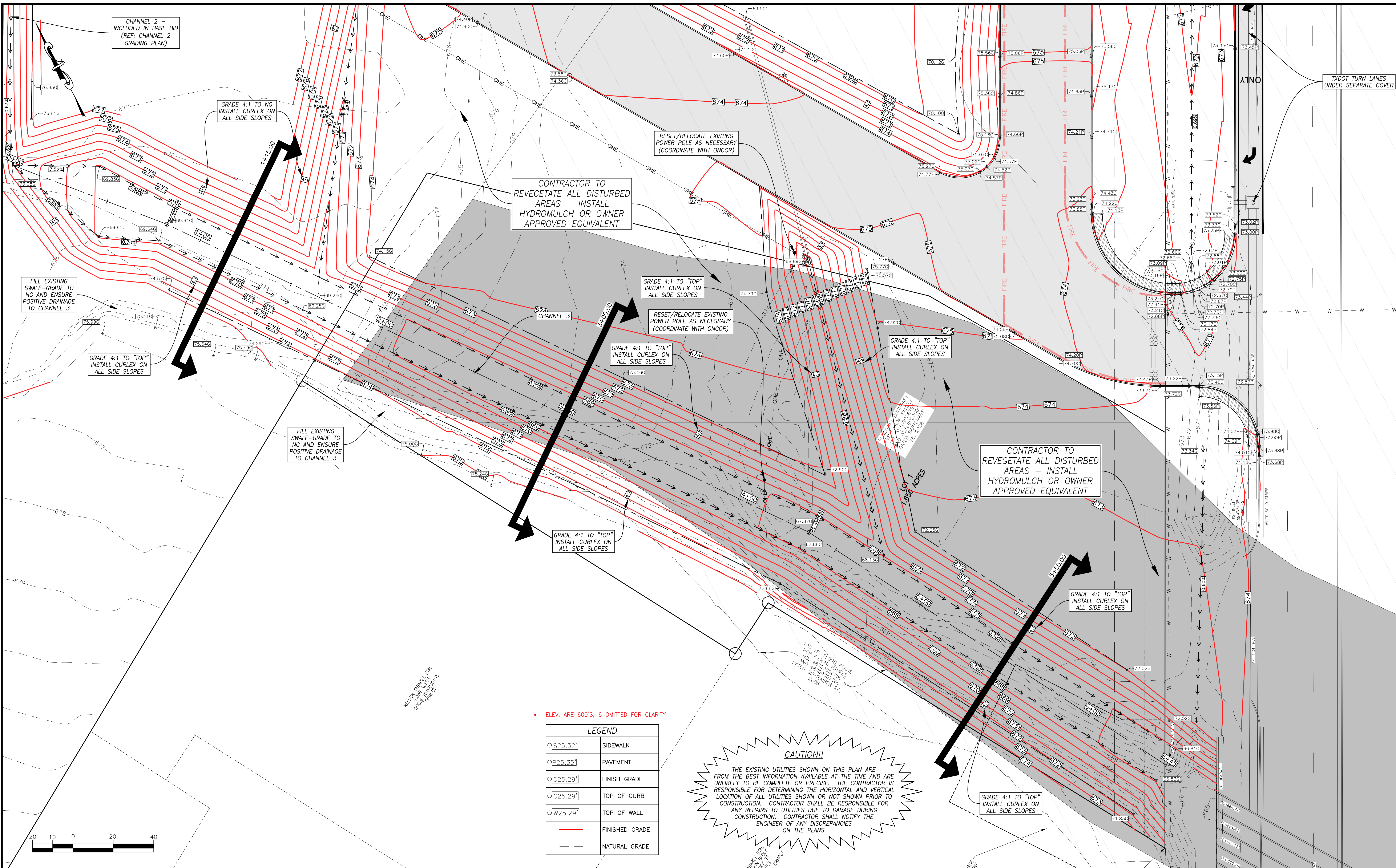


DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



PROJECT: CEFCO
 BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

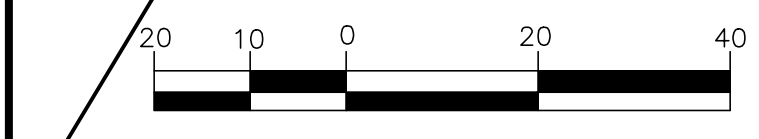
TITLE: Channel 2 Grading Plan
 JOB#: 23-132
 PAGE#: 18



• ELEV. ARE 600'S, 6 OMITTED FOR CLARITY

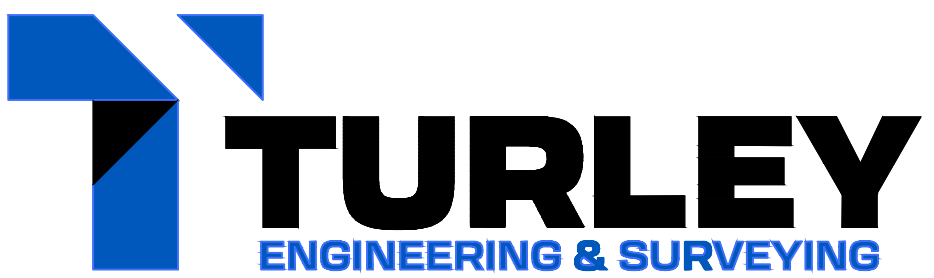
LEGEND	
○S25.32'	SIDEWALK
○P25.35'	PAVEMENT
○C25.29'	FINISH GRADE
○C25.29'	TOP OF CURB
○W25.29'	TOP OF WALL
—	FINISHED GRADE
- - -	NATURAL GRADE

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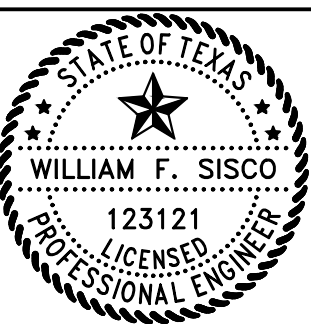


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TURLEY ASSOCIATES, INC.
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 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



PROJECT: CEFCO
 BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

TITLE: Channel 3 Grading Plan
 JOB#: 23-132
 PAGE#: 19

Channel Report

CHANNEL 3 -100-YR

Hydrow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Thursday, Mar 7 2024

CHANNEL 3 - 100-YEAR

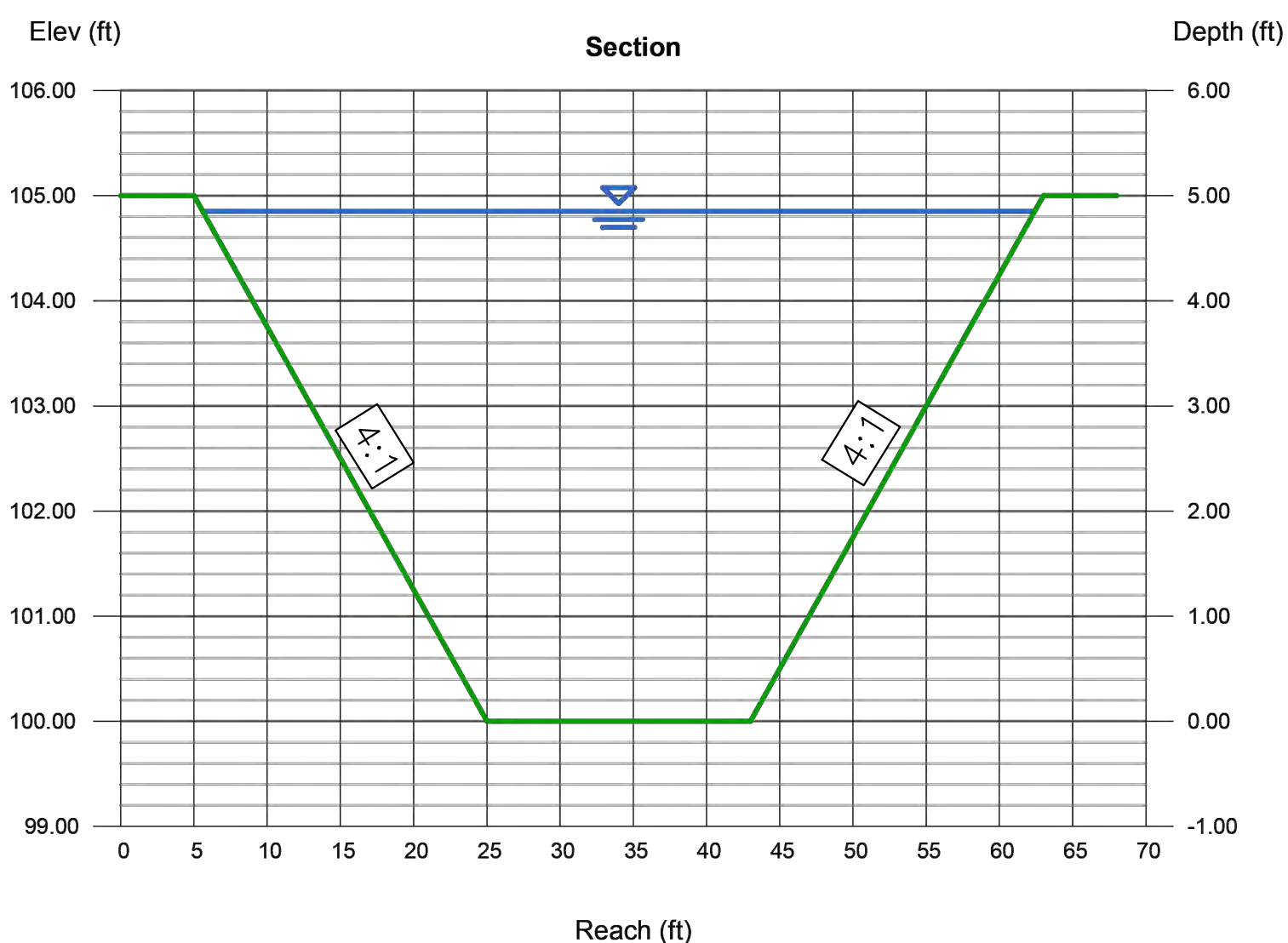
Trapezoidal
 Bottom Width (ft) = 18.00
 Side Slopes (z:1) = 4.00, 4.00
 Total Depth (ft) = 5.00
 Invert Elev (ft) = 100.00
 Slope (%) = 0.50
 N-Value = 0.030

Highlighted
 Depth (ft) = 4.85
 Q (cfs) = 1,354
 Area (sqft) = 181.39
 Velocity (ft/s) = 7.46
 Wetted Perim (ft) = 57.99
 Crit Depth, Yc (ft) = 4.14
 Top Width (ft) = 56.80
 EGL (ft) = 5.72

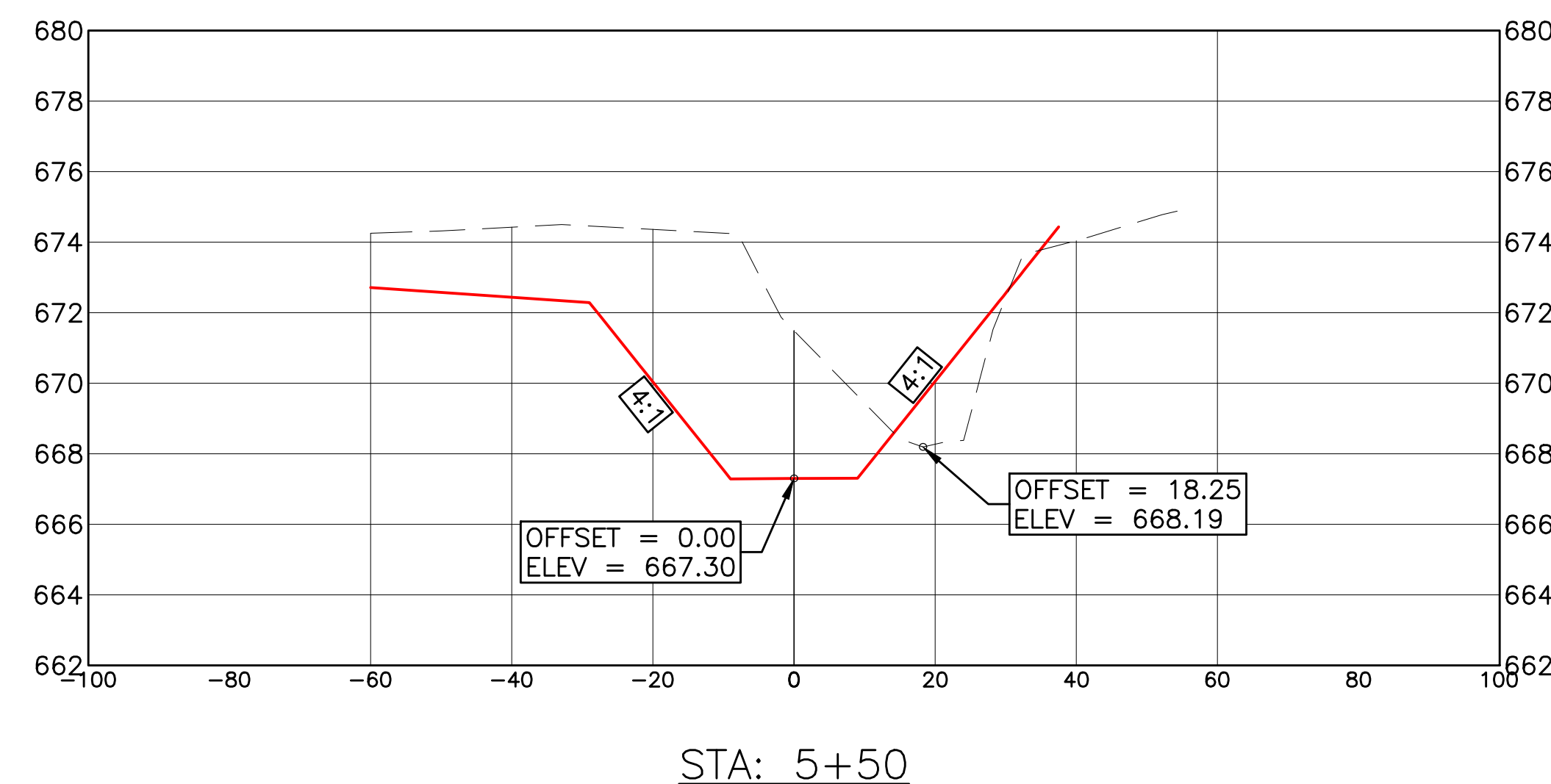
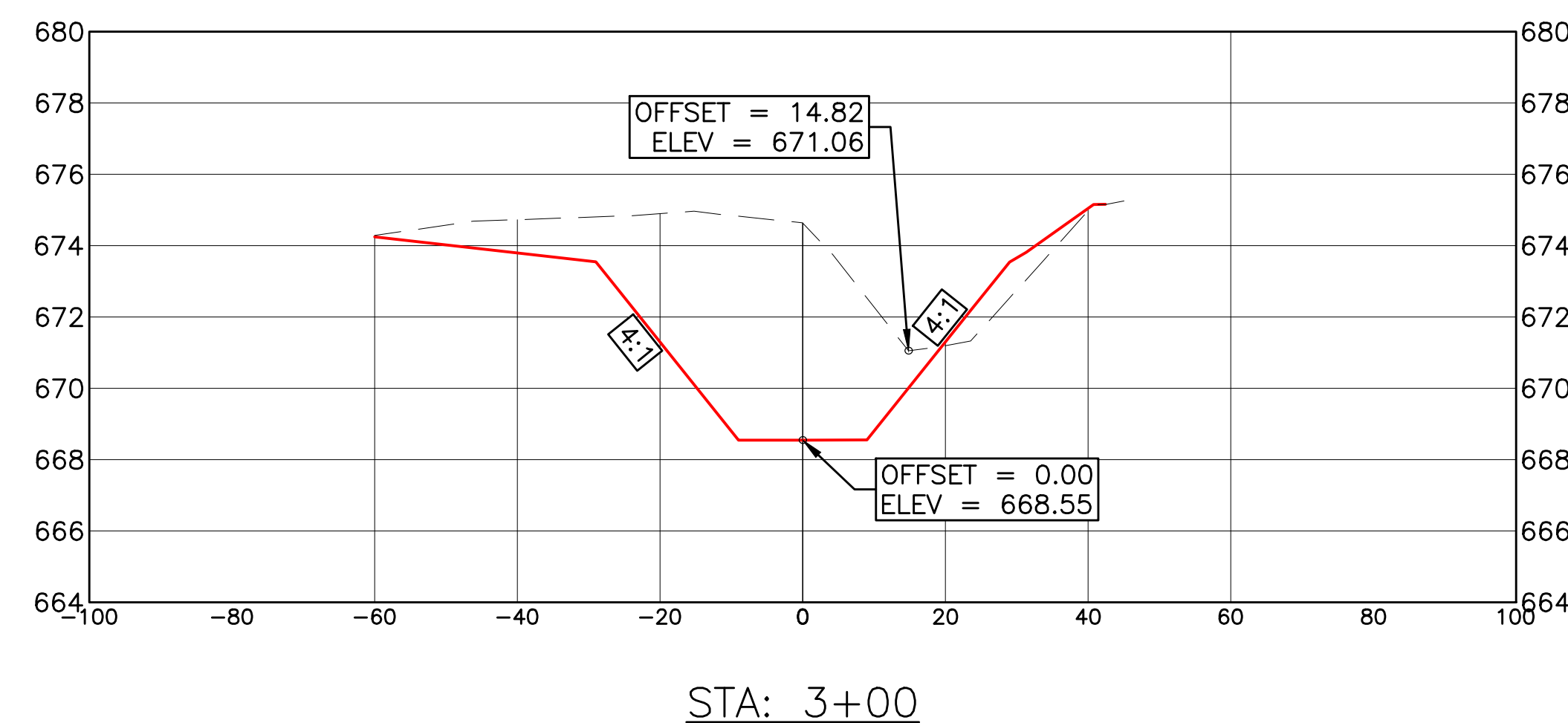
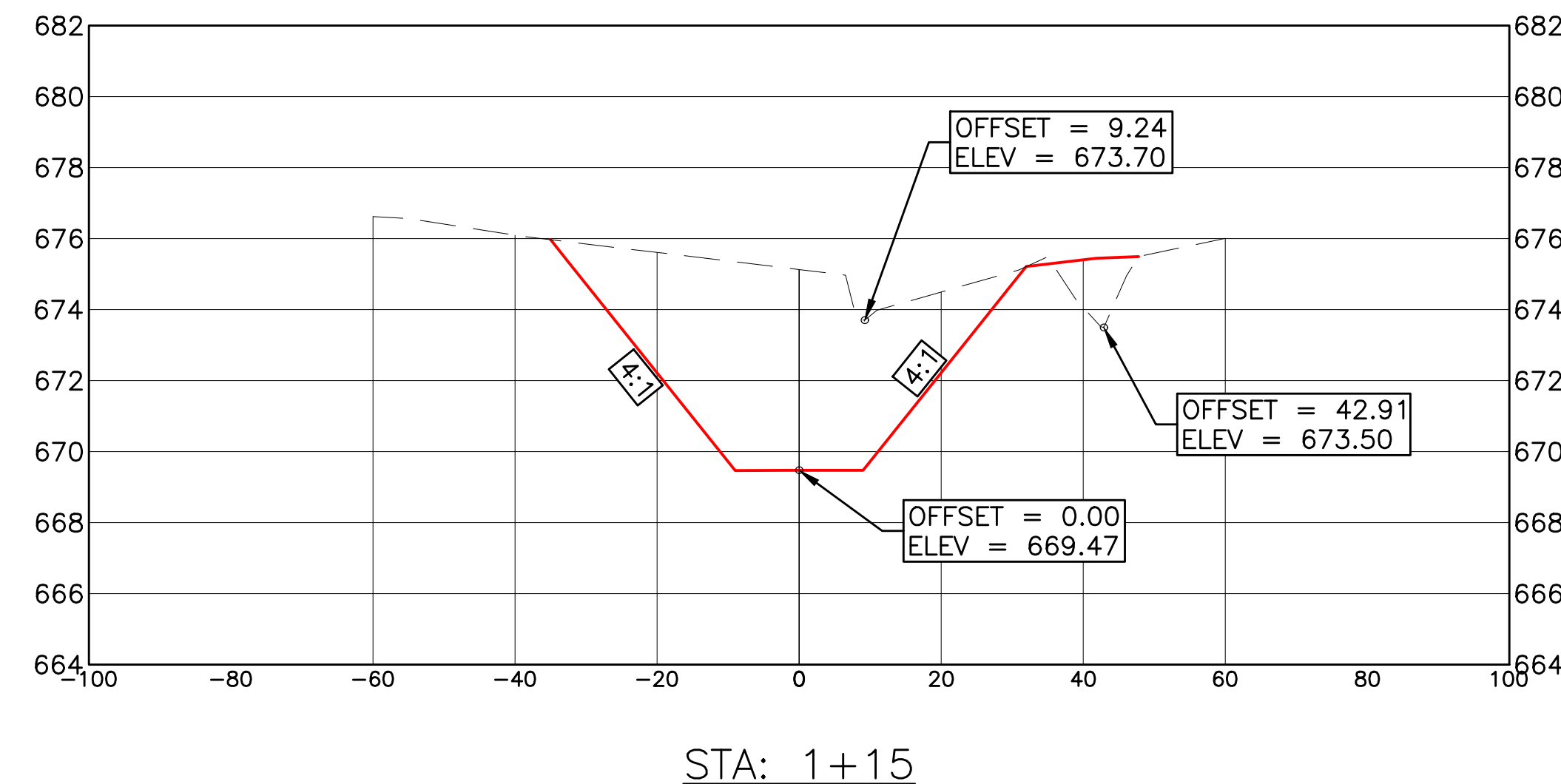
Calculations
 Compute by: Known Q
 Known Q (cfs) = 1353.83

BOTTOM WIDTH = 18.00'
 MIN. DEPTH = 5.00'
 MIN. SLOPE = 0.50%

FINISHED GRADE (FG) ————
 NATURAL GROUND (NG) - - - - -
 SCALES:
 1"=20'HOR
 1"=5'VER



CHANNEL 3 CROSS SECTIONS
 (REF: CHANNEL 3 GRADING PLAN FOR
 ALIGNMENT AND SAMPLE LINE LOCATIONS)



Cut/Fill Report

Generated: 2024-03-21 14:42:46
By user: mbuckley
Drawing: T:\Projects (With Job Number)\2023\Engineering\23-132 CEFCO Bruceville Eddy, Sensato\CAD\T\Projects (With Job Number)\2023\Engineering\23-132 CEFCO Bruceville Eddy, Sensato\CAD\23-132 GRADING CUT FILL 90%.dwg

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
CUT FILL 90	fill	1.000	1.000	203715.74	7597.17	4761.04	2836.13<Cut>

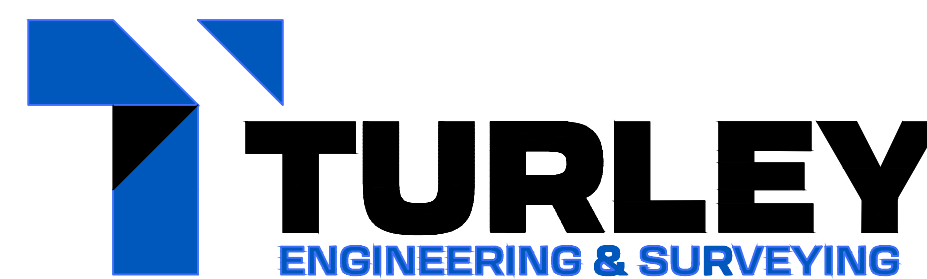
Totals				
	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	203715.74	7597.17	4761.04	2836.13<Cut>

* Value adjusted by cut or fill factor other than 1.0

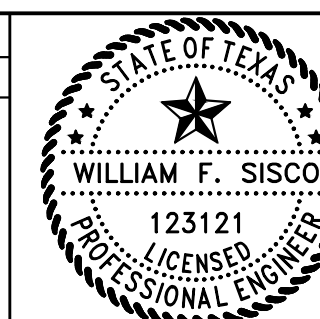
CUT/FILL REPORT
 REFLECTS FINISHED GRADE
 WITHIN THE FLOODPLAIN

REVISIONS	DATE	DESCRIPTION	DFTR.

TURLEY ASSOCIATES, INC.
 WWW.TURLEY-INC.COM
 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: [Signature]
 DATE: 3/27/2024



PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(S):

TITLE: Channel 3 Cross Sections
 JOB#: 23-132
 PAGE#: 20

CAUTION!!
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LEGEND:

- PROPOSED MEDIUM DUTY CONCRETE
- PROPOSED LIGHT DUTY CONCRETE
- PROPOSED HEAVY DUTY CONCRETE (MIN. 10" THICK)
- PROPOSED ON SITE SIDEWALK (REF: SITE DETAILS)
- PROPOSED 5' WIDE CONCRETE MOUNTABLE CURB PROTECTION (REF: SITE DETAILS)
- PROPOSED EXPANSION JOINT (REF: SITE DETAILS)
- THICKENED EDGE (REF: SITE DETAILS)
- CLAY CAP BEHIND FUEL TANKS (REF: FUEL PRODUCT SHEETS)
- KEYED CONSTRUCTION JOINT (REF: SITE DETAILS)
- CONTROL JOINT (REF: SITE DETAILS)

PAVING PLAN NOTES

- REFERENCE GEOTECHNICAL REPORT PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED FEBRUARY 29, 2012 FOR ADDITIONAL PAVING & SOIL PREPARATION NOTES.
- REFERENCE DIMENSIONAL SITE PLAN SHEET 5 FOR CURB RADII AND LAYOUT INFORMATION.
- REFERENCE IRRIGATION, MEP PLANS, & UTILITY PLAN FOR CONDUIT SIZES AND LOCATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
- EXPANSION/ISOLATION JOINTS SHALL BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT, E.G., LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, OR MANHOLES. PROVIDE ADDITIONAL REBAR AS SHOWN ON FIXED STRUCTURE DETAIL.
- EXISTING MANHOLE LIDS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- MAXIMUM CONTROL JOINT SPACING SHALL NOT EXCEED 15' FOR 6" OR THICKER PAVEMENTS.
- KEYED CONSTRUCTION JOINT TO SURROUND BELOW CANOPY SLAB (TYPICAL) EDGE OF SLAB/KEYED JOINT SHALL EXTEND 1' BEYOND CANOPY DRIP LINE.

CONCRETE SEPARATE POUR NOTES

- ALL STORM AND SANITARY STRUCTURES ARE TO BE CONSTRUCTED WITH TYPICAL CONCRETE APRON.
- HANDICAP PARKING TO BE A SEPARATE POUR.
- BUILDING SIDEWALK, PARKING AREAS, CANOPY SLAB, TANK SLAB AND VEHICULAR USE AREAS ARE TO BE SEPARATE POURS.

TAS NOTE

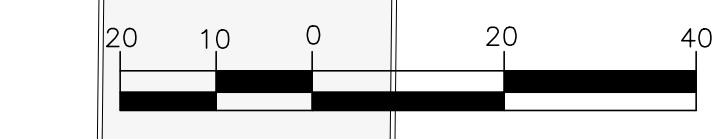
GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP-RESISTANT, AND SHALL COMPLY WITH SECTION 302 OF THE TEXAS ACCESSIBILITY STANDARDS.

CONTROL JOINT NOTE

ALL CONTROL JOINT DEPTH MUST BE A MINIMUM OF 25% OF THE OVERALL SLAB DEPTH AND BE PERFORMED WITHIN 6-12 HOURS OF POUR TYPICAL ALL CONTROL JOINTS SHALL CONTINUE INTO CURBING.

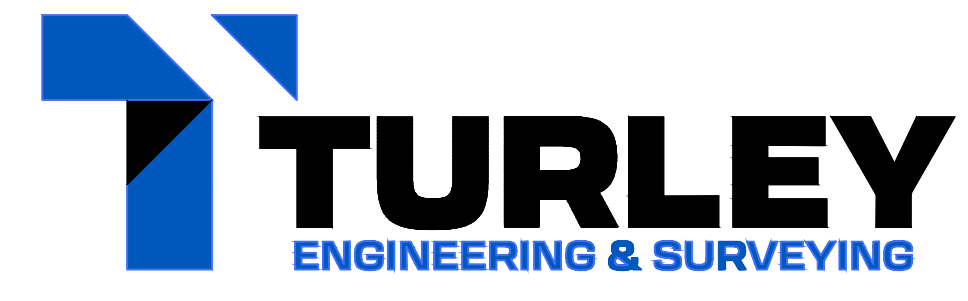
PAVING PLAN KEYED NOTES

1	KEYED NOTE NOT IN USE
2	REF: TANK PLANS FOR TANK TOP JOINT SPACING
3	CONTROL JOINT (REF: CANOPY PLANS)

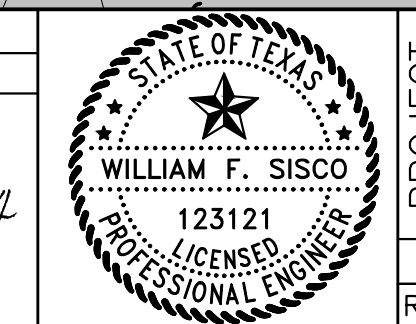


REVISIONS	DATE	DESCRIPTION	DFTR.

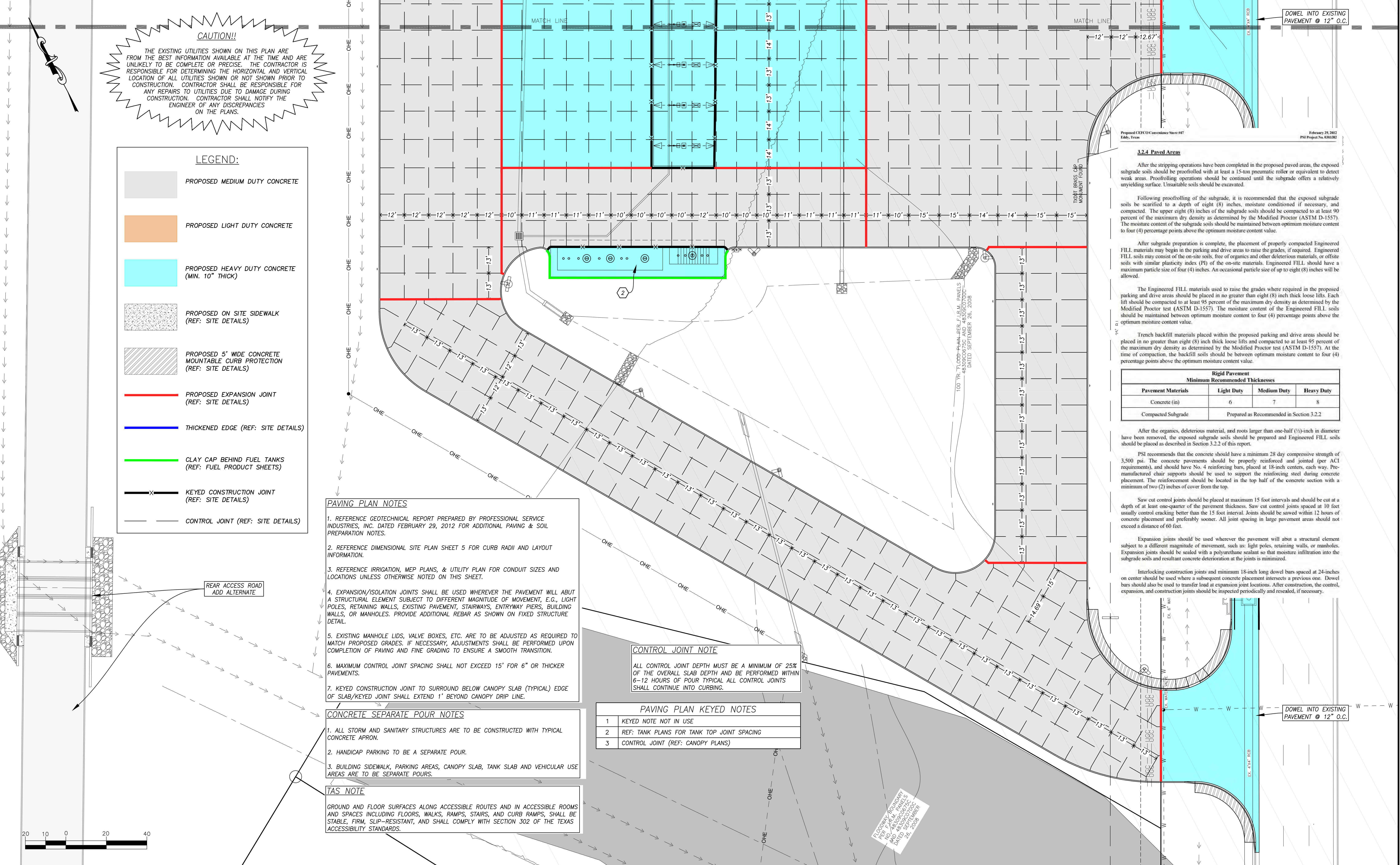
TURLEY ASSOCIATES, INC.
 WWW.TURLEY-INC.COM
 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



PROJECT	CEFCO BRUCEVILLE-EDDY, TEXAS	TITLE	Paving Plan 1
FILE NAME:	23-132 SDP.dwg	JOB#	23-132
REF. DWG(S):		PAGE#	21



3.2.4 Paved Areas

After the stripping operations have been completed in the proposed paved areas, the exposed subgrade soils should be proofrolled with at least a 15-ton pneumatic roller or equivalent to detect weak areas. Proofrolling operations should be continued until the subgrade offers a relatively unyielding surface. Unsuitable soils should be excavated.

Following proofrolling of the subgrade, it is recommended that the exposed subgrade soils be scarified to a depth of eight (8) inches, moisture conditioned if necessary, and compacted. The upper eight (8) inches of the subgrade soils should be compacted to at least 90 percent of the maximum dry density as determined by the Modified Proctor (ASTM D-1557). The moisture content of the subgrade soils should be maintained between optimum moisture content to four (4) percentage points above the optimum moisture content value.

After subgrade preparation is complete, the placement of properly compacted Engineered FILL materials may begin in the parking and drive areas to raise the grades, if required. Engineered FILL soils may consist of the on-site soils, free of organics and other deleterious materials, or off-site soils with similar plasticity index (PI) of the on-site materials. Engineered FILL should have a maximum particle size of four (4) inches. An occasional particle size of up to eight (8) inches will be allowed.

The Engineered FILL materials used to raise the grades where required in the proposed parking and drive areas should be placed in no greater than eight (8) inch thick loose lifts. Each lift should be compacted to the maximum dry density as determined by the Modified Proctor test (ASTM D-1557). The moisture content of the Engineered FILL soils should be maintained between optimum moisture content to four (4) percentage points above the optimum moisture content value.

Trench backfill materials placed within the proposed parking and drive areas should be placed in no greater than eight (8) inch thick loose lifts and compacted to at least 95 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D-1557). At the time of compaction, the backfill soils should be between optimum moisture content to four (4) percentage points above the optimum moisture content value.

Rigid Pavement Minimum Recommended Thicknesses

Pavement Materials	Light Duty	Medium Duty	Heavy Duty
Concrete (in)	6	7	8
Compacted Subgrade	Prepared as Recommended in Section 3.2.2		

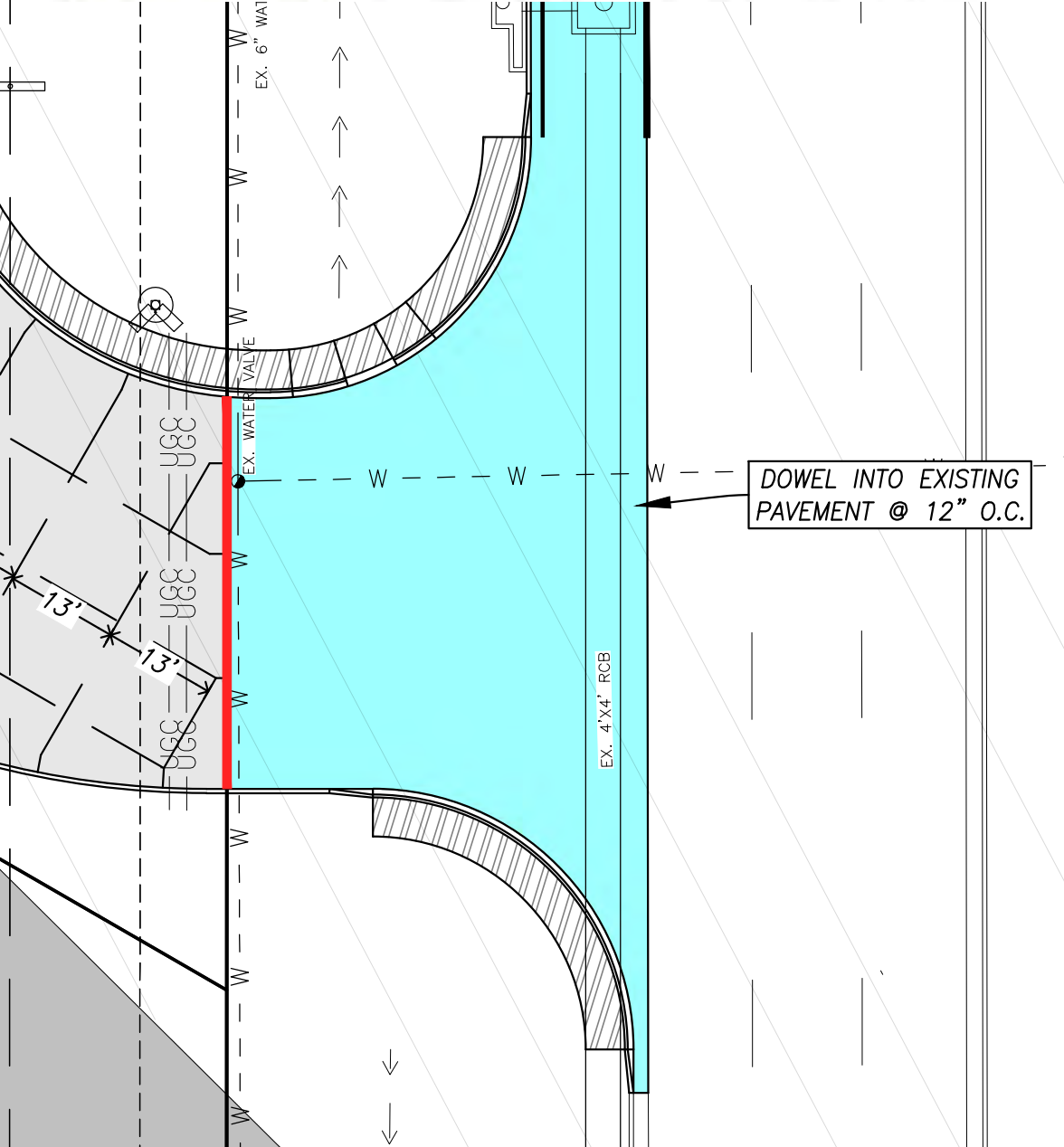
After the organics, deleterious material, and roots larger than one-half (1/2)-inch in diameter have been removed, the exposed subgrade soils should be prepared and Engineered FILL soils should be placed as described in Section 3.2.2 of this report.

PSI recommends that the concrete should have a minimum 28 day compressive strength of 3,500 psi. The concrete pavements should be properly reinforced and jointed (per ACI requirements), and should have No. 4 reinforcing bars, placed at 18-inch centers, each way. Pre-manufactured chair supports should be used to support the reinforcing steel during concrete placement. The reinforcement should be located in the top half of the concrete section with a minimum of two (2) inches of cover from the top.

Saw cut control joints should be placed at maximum 15 foot intervals and should be cut at a depth of at least one-quarter of the pavement thickness. Saw cut control joints spaced at 10 feet usually control cracking better than the 15 foot interval. Joints should be sawed within 12 hours of concrete placement and preferably sooner. All joint spacing in large pavement areas should not exceed a distance of 60 feet.

Expansion joints should be used wherever the pavement will abut a structural element subject to a different magnitude of movement, such as light poles, retaining walls, or manholes. Expansion joints should be sealed with a polyurethane sealant so that moisture infiltration into the subgrade soils and resultant concrete deterioration at the joints is minimized.

Interlocking construction joints and minimum 18-inch long dowel bars spaced at 24-inches on center should be used where a subsequent concrete placement intersects a previous one. Dowel bars should also be used to transfer load at expansion joint locations. After construction, the control, expansion, and construction joints should be inspected periodically and resealed, if necessary.



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- LEGEND:**
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 - PROPOSED LIGHT DUTY CONCRETE
 - PROPOSED HEAVY DUTY CONCRETE (MIN. 10" THICK)
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 - PROPOSED 5" WIDE CONCRETE MOUNTABLE CURB PROTECTION (REF: SITE DETAILS)
 - PROPOSED EXPANSION JOINT (REF: SITE DETAILS)
 - THICKENED EDGE (REF: SITE DETAILS)
 - CLAY CAP BEHIND FUEL TANKS (REF: FUEL PRODUCT SHEETS)
 - KEYED CONSTRUCTION JOINT (REF: SITE DETAILS)
 - CONTROL JOINT (REF: SITE DETAILS)

- PAVING PLAN NOTES**
- REFERENCE GEOTECHNICAL REPORT PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED FEBRUARY 29, 2012 FOR ADDITIONAL PAVING & SOIL PREPARATION NOTES.
 - REFERENCE DIMENSIONAL SITE PLAN SHEET 5 FOR CURB RADII AND LAYOUT INFORMATION.
 - REFERENCE IRRIGATION, MEP PLANS, & UTILITY PLAN FOR CONDUIT SIZES AND LOCATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
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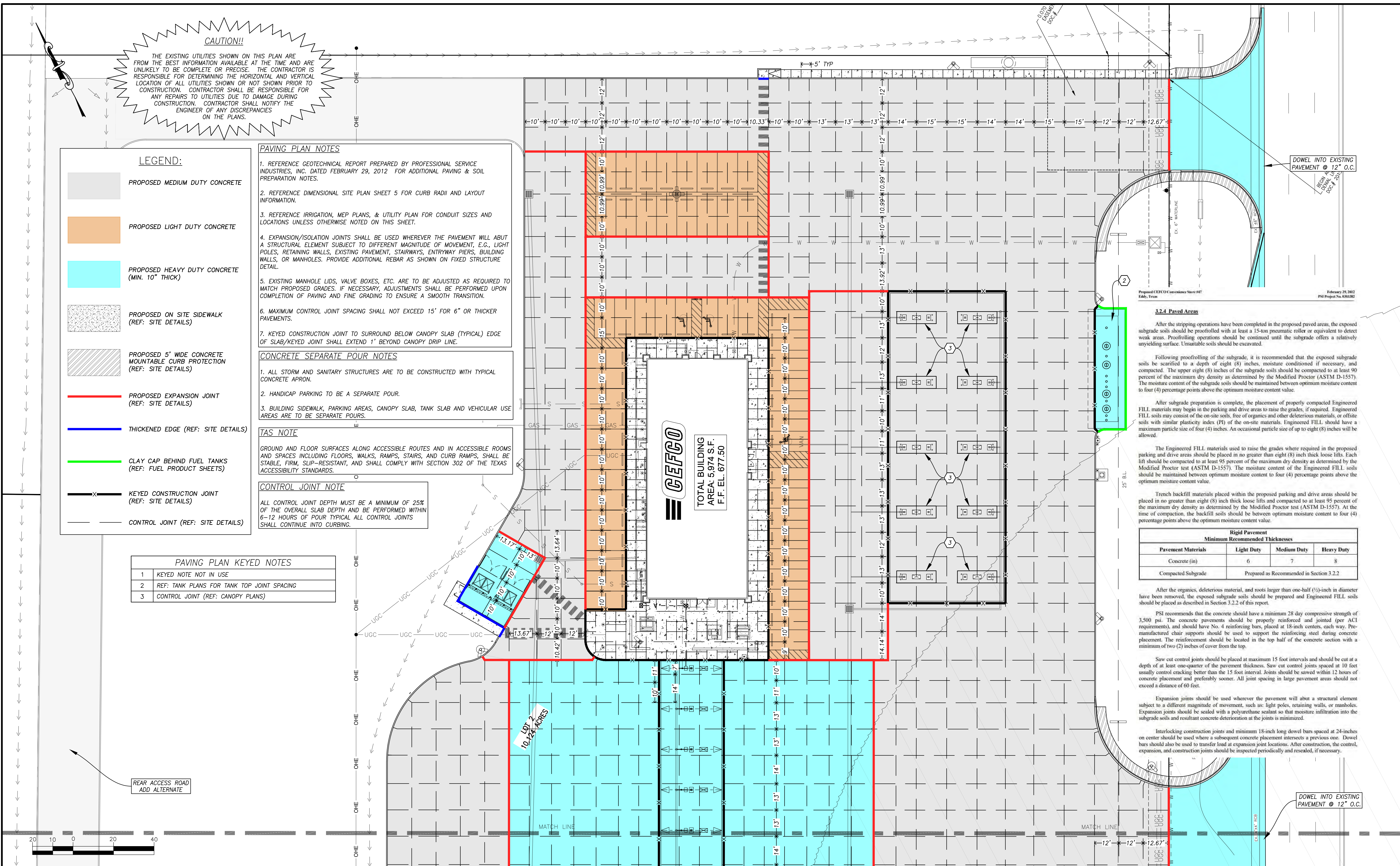
- CONCRETE SEPARATE POUR NOTES**
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 - HANDICAP PARKING TO BE A SEPARATE POUR.
 - BUILDING SIDEWALK, PARKING AREAS, CANOPY SLAB, TANK SLAB AND VEHICULAR USE AREAS ARE TO BE SEPARATE POURS.

TAS NOTE
 GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP-RESISTANT, AND SHALL COMPLY WITH SECTION 302 OF THE TEXAS ACCESSIBILITY STANDARDS.

CONTROL JOINT NOTE
 ALL CONTROL JOINT DEPTH MUST BE A MINIMUM OF 25% OF THE OVERALL SLAB DEPTH AND BE PERFORMED WITHIN 6-12 HOURS OF POUR TYPICAL ALL CONTROL JOINTS SHALL CONTINUE INTO CURBING.

PAVING PLAN KEYED NOTES

1	KEYED NOTE NOT IN USE
2	REF: TANK PLANS FOR TANK TOP JOINT SPACING
3	CONTROL JOINT (REF: CANOPY PLANS)



3.2.4 Paved Areas
 After the stripping operations have been completed in the proposed paved areas, the exposed subgrade soils should be proofrolled with at least a 15-ton pneumatic roller or equivalent to detect weak areas. Proofrolling operations should be continued until the subgrade offers a relatively unyielding surface. Unsuitable soils should be excavated.

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Rigid Pavement Minimum Recommended Thicknesses			
Pavement Materials	Light Duty	Medium Duty	Heavy Duty
Concrete (in)	6	7	8
Compacted Subgrade	Prepared as Recommended in Section 3.2.2		

After the organics, deleterious material, and roots larger than one-half (1/2)-inch in diameter have been removed, the exposed subgrade soils should be prepared and Engineered FILL soils should be placed as described in Section 3.2.2 of this report.

PSI recommends that the concrete should have a minimum 28 day compressive strength of 3,500 psi. The concrete pavements should be properly reinforced and jointed (per ACI requirements) and should have No. 4 reinforcing bars, placed at 18-inch centers, each way. Pre-manufactured chair supports should be used to support the reinforcing steel during concrete placement. The reinforcement should be located in the top half of the concrete section with a minimum of two (2) inches of cover from the top.

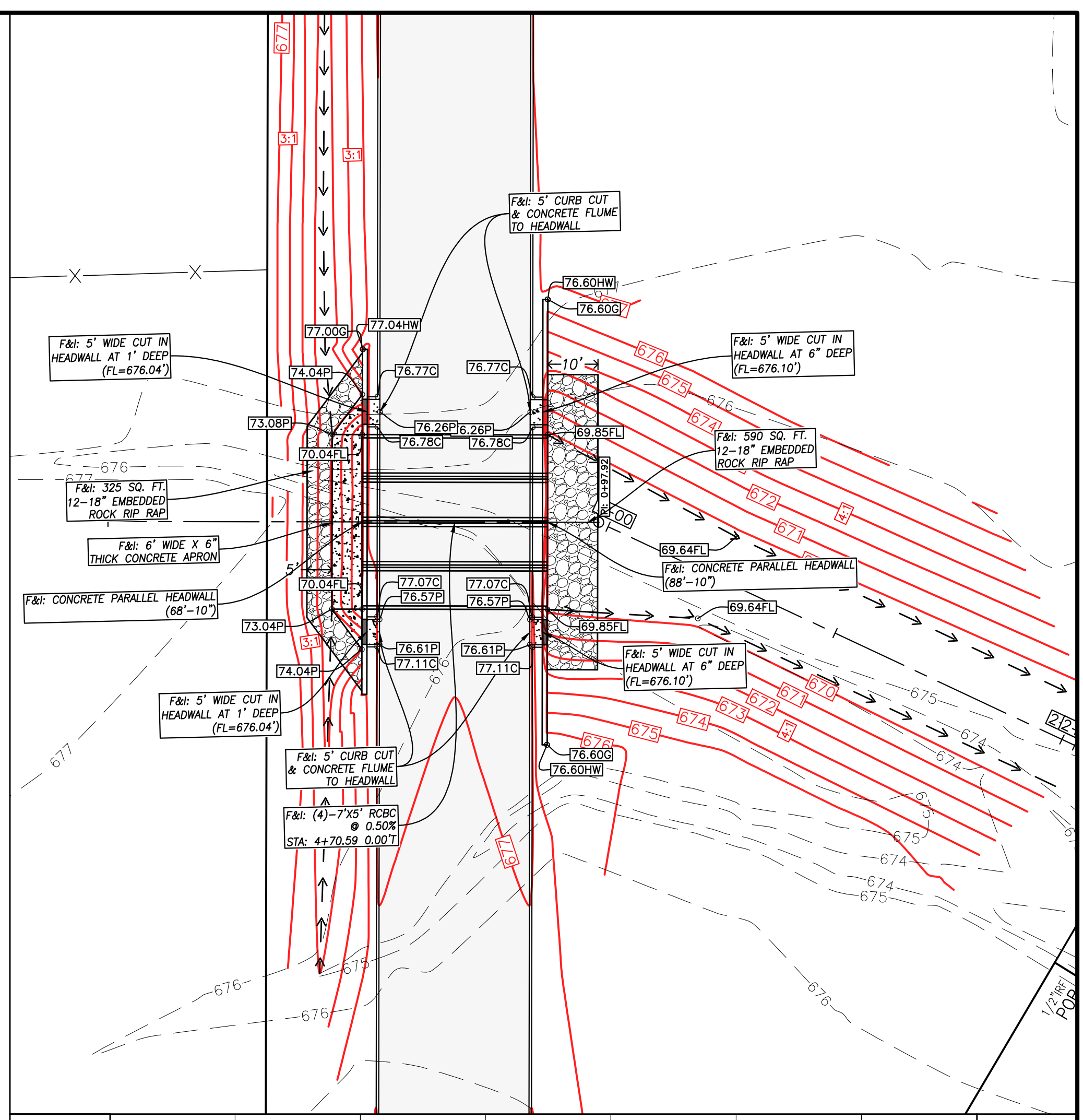
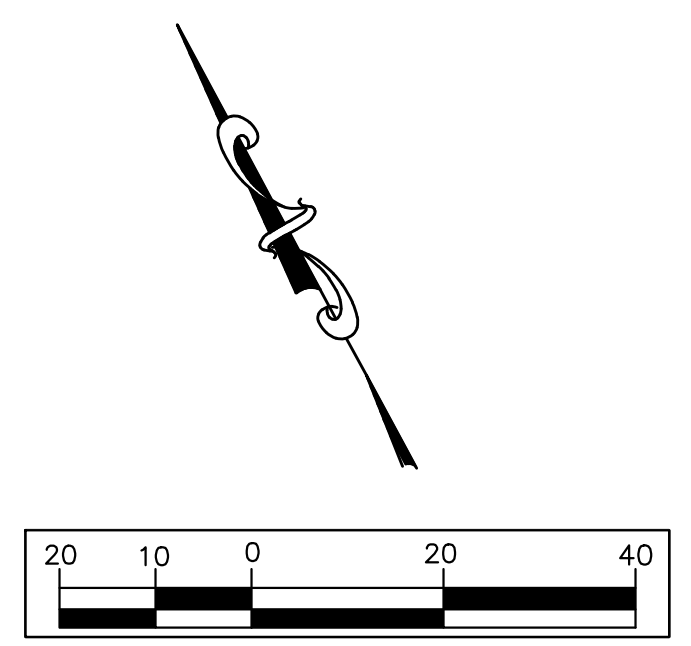
Saw cut control joints should be placed at maximum 15 foot intervals and should be cut at a depth of at least one-quarter of the pavement thickness. Saw cut control joints spaced at 10 feet usually control cracking better than the 15 foot interval. Joints should be sawed within 12 hours of concrete placement and preferably sooner. All joint spacing in large pavement areas should not exceed a distance of 60 feet.

Expansion joints should be used wherever the pavement will abut a structural element subject to a different magnitude of movement, such as: light poles, retaining walls, or manholes. Expansion joints should be sealed with a polyurethane sealant so that moisture infiltration into the subgrade soils and resultant concrete deterioration at the joints is minimized.

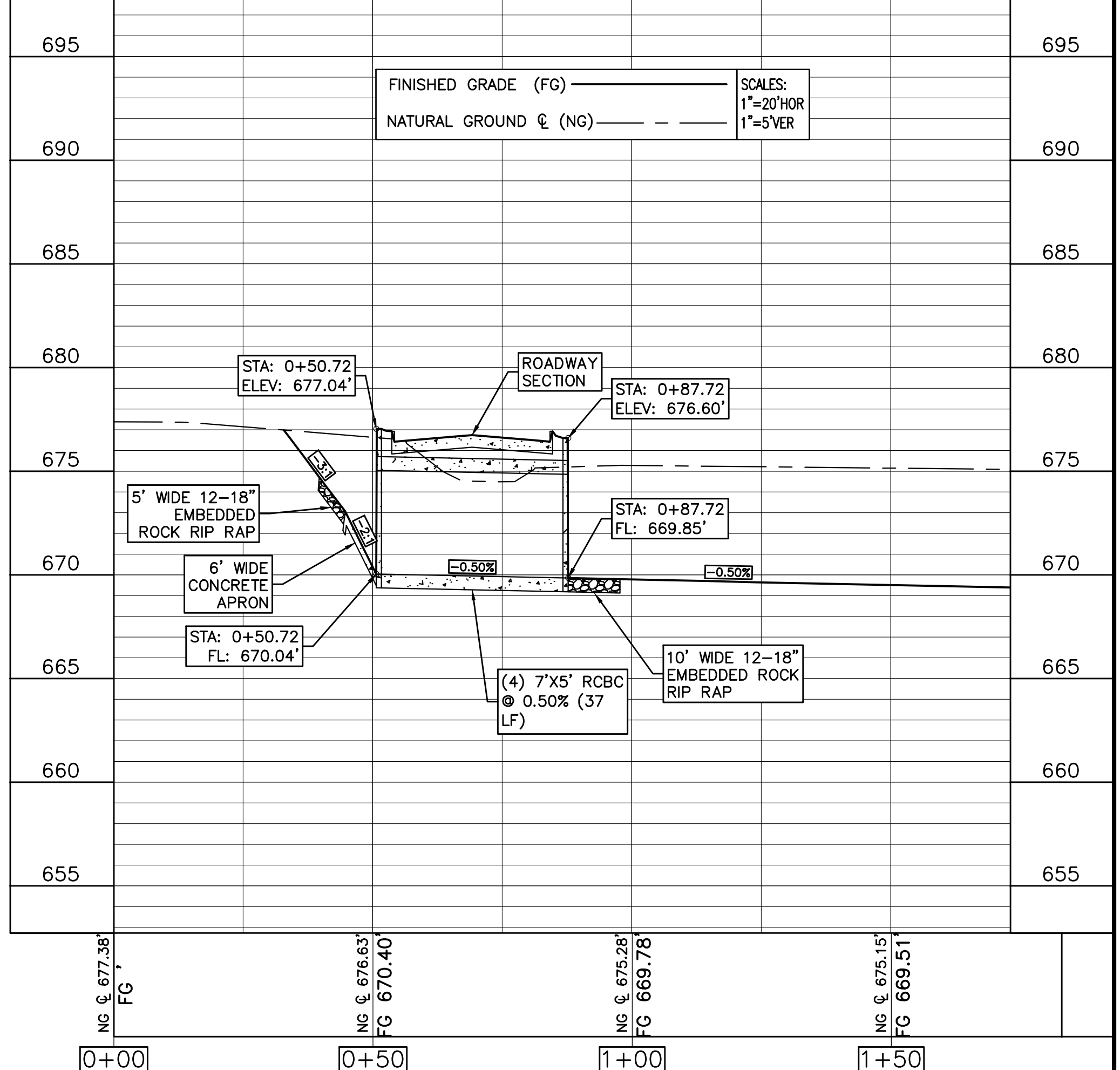
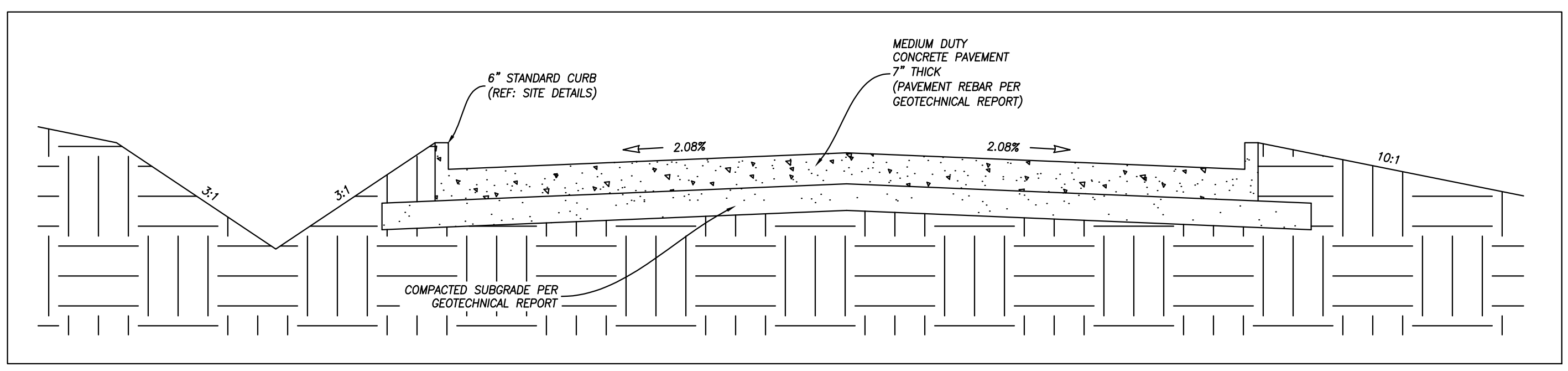
Interlocking construction joints and minimum 18-inch long dowel bars spaced at 24-inches on center should be used where a subsequent concrete placement intersects a previous one. Dowel bars should also be used to transfer load at expansion joint locations. After construction, the control, expansion, and construction joints should be inspected periodically and resealed, if necessary.

CAUTION!!

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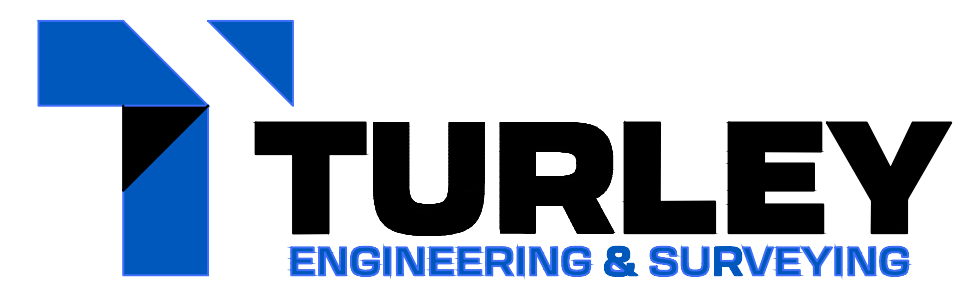


TYPICAL REAR ACCESS DRIVE CROSS SECTION
ADD ALTERNATE
NTS

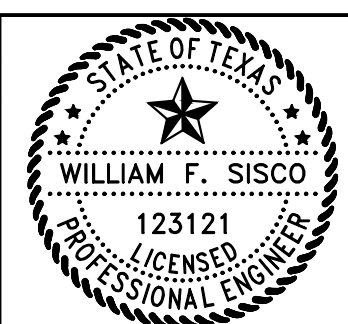


REVISIONS	DATE	DESCRIPTION	DFTR.

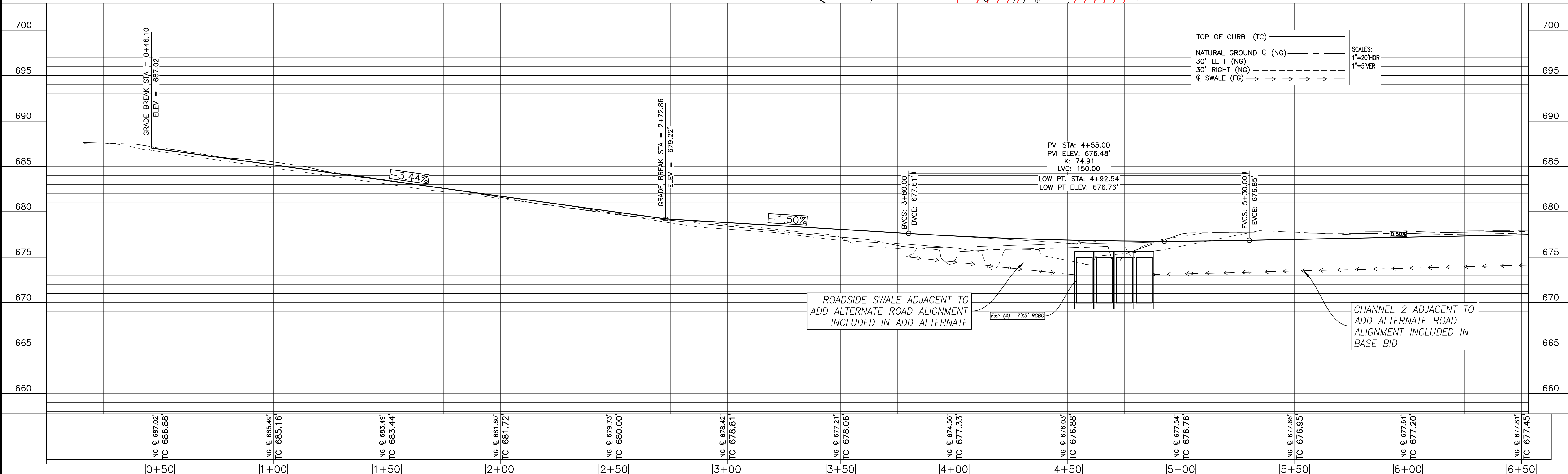
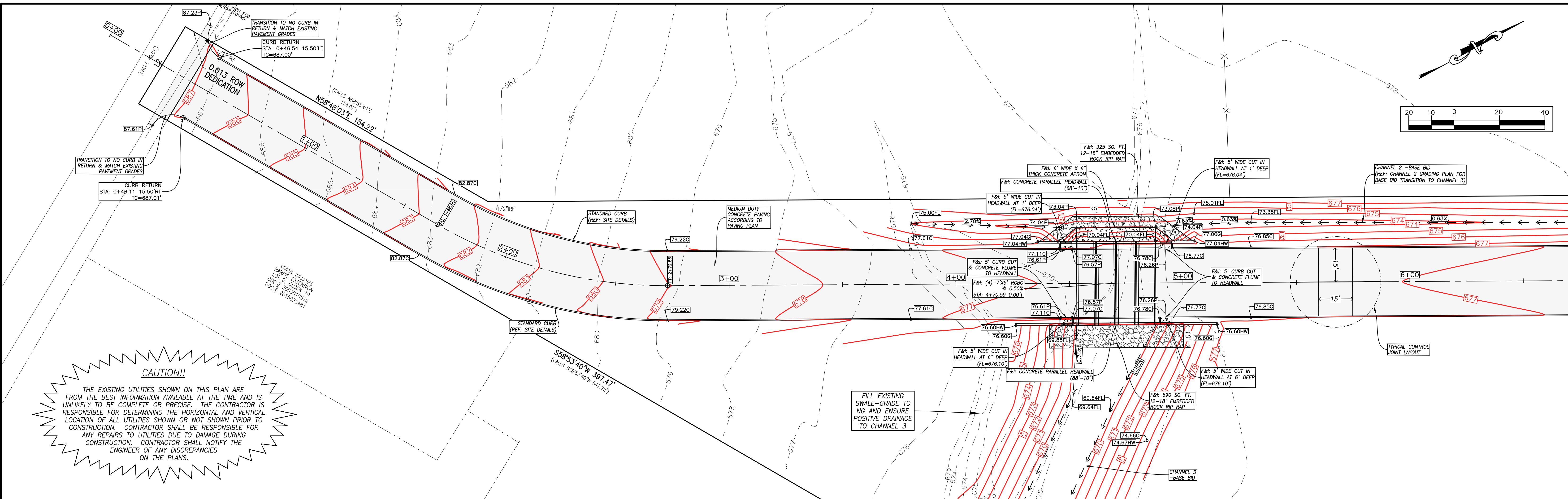
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254-773-2400
301 N. 3RD ST.
TEMPLE, TEXAS 76501
ENGINEERING FIRM NO. 1658
SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
DESIGNER: MEB
ENGINEER: *William F. Sisco*
DATE: 3/27/2024

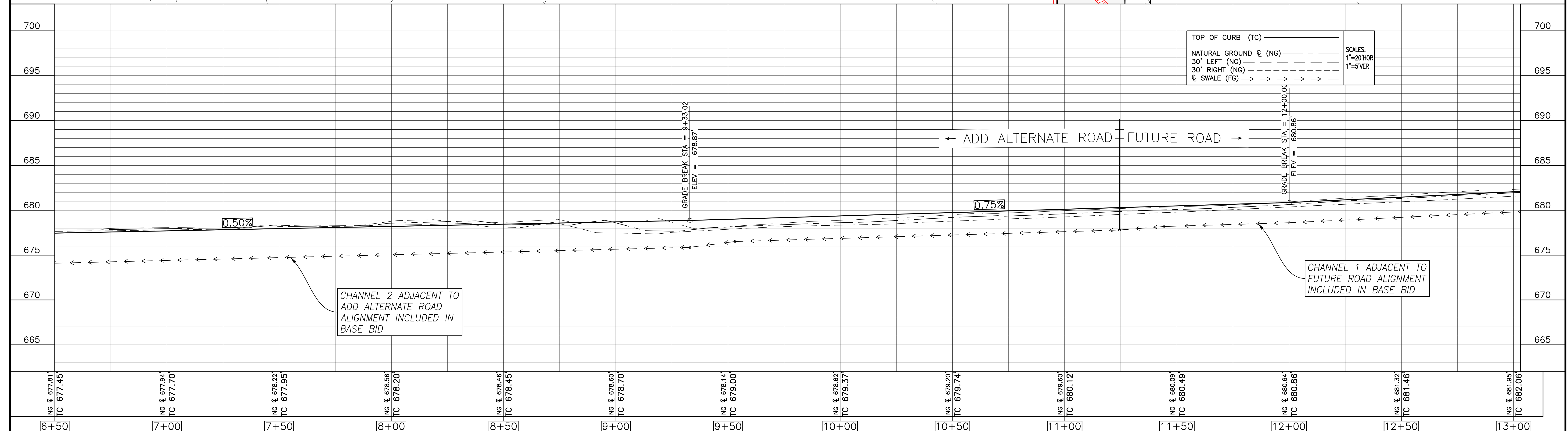
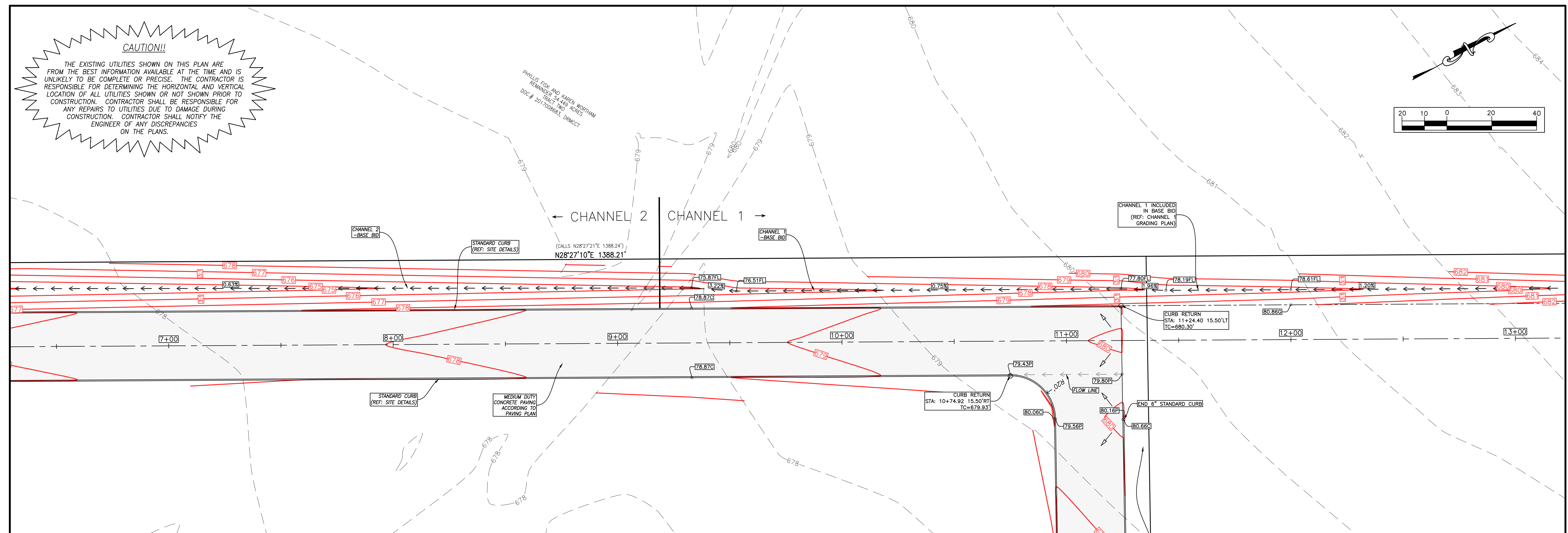
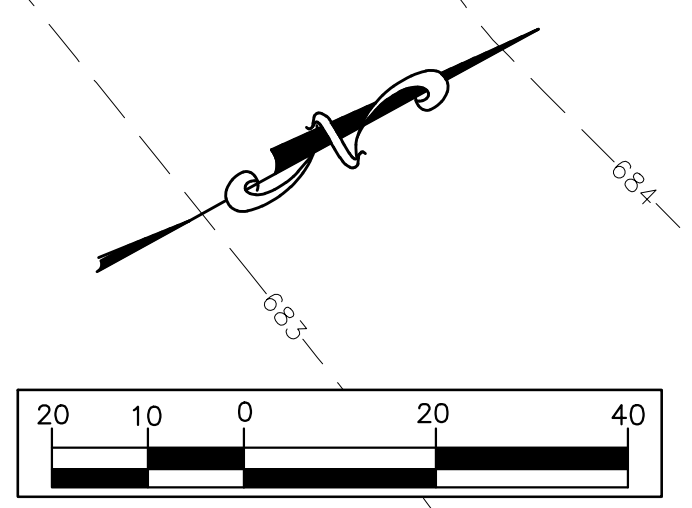


PROJECT	CEFCO BRUCEVILLE-EDDY, TEXAS	TITLE	Add Alternate Culvert Profile & Road Cross Section
FILE NAME:	23-132 Rear Access Road.dwg	JOB#	23-132
REF. DWG(S):		PAGE#	23



CAUTION!!
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PHILLIS FISK AND KAREN WORTHAM
 REMINDER: 14.465 ACRES
 DOC # 2017008685, DIRECT



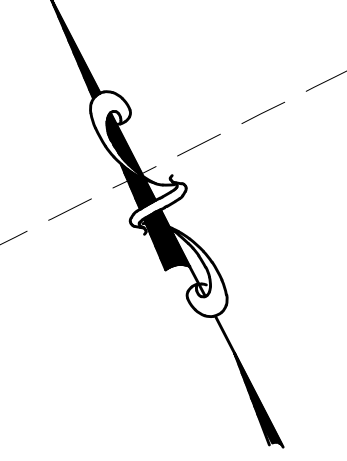
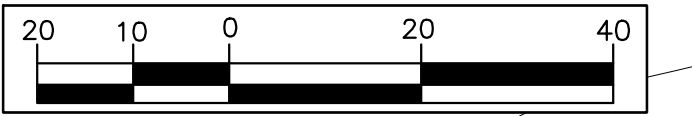
NG & TC 677.81 6+50	NG & TC 677.94 7+00	NG & TC 678.22 7+50	NG & TC 678.56 8+00	NG & TC 678.46 8+50	NG & TC 678.60 9+00	NG & TC 678.14 9+50	NG & TC 678.62 10+00	NG & TC 679.20 10+50	NG & TC 679.60 11+00	NG & TC 680.09 11+50	NG & TC 680.64 12+00	NG & TC 681.32 12+50	NG & TC 681.95 13+00
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ACCESS DRIVE

CAUTION!!

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CHANNEL 1 INCLUDED IN BASE BID (REF: CHANNEL GRADING PLAN)

CURB RETURN STA: 11+24.40 15.50*LT TC=680.30'

REF. GRADING PLAN (2) FOR SWALE GRADES - SWALE INCLUDED IN BASE BID

STANDARD CURB (REF: SITE DETAILS)

STANDARD CURB (REF: SITE DETAILS)

MEDIUM DUTY CONCRETE PAVING ACCORDING TO PAVING PLAN

CURB RETURN STA: 10+74.92 15.50*RT TC=679.83'

CHANNEL 1

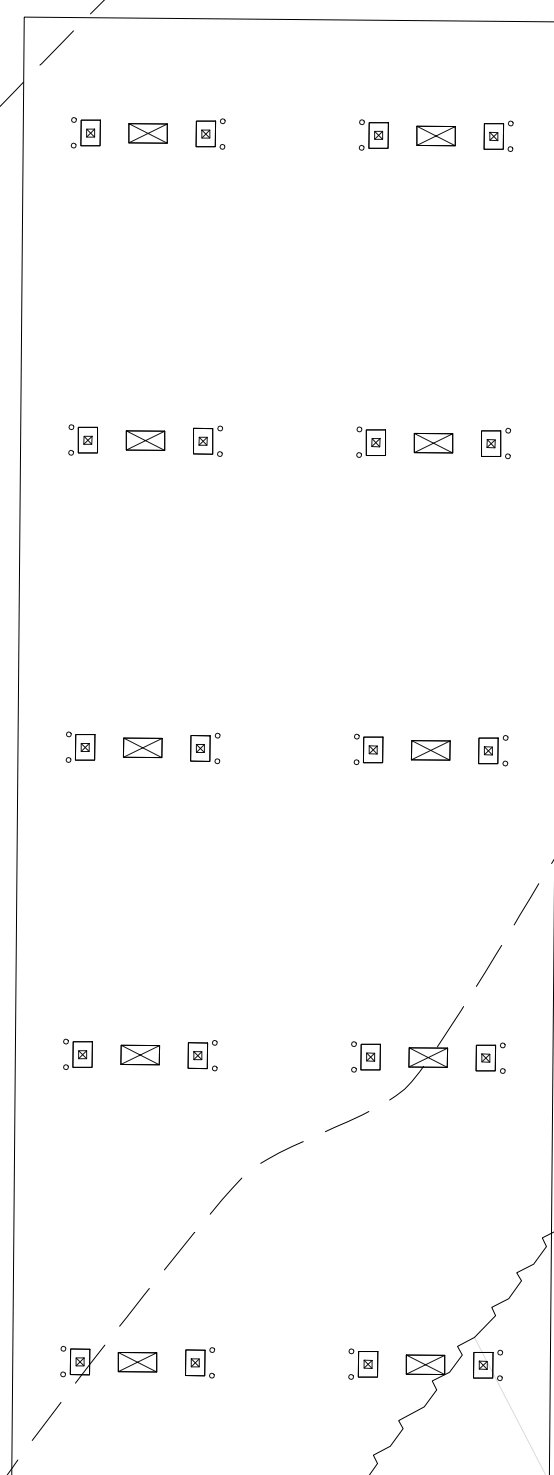
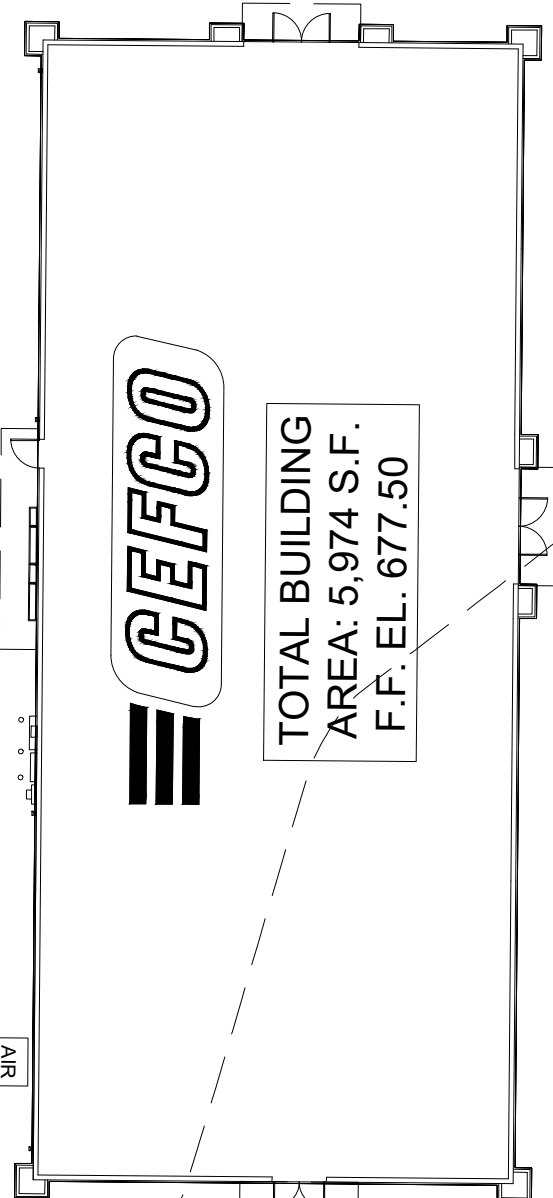
CHANNEL 2

(CALLS N28°27'10"E 1388.21')

PHILE FOX AND HARVEY NORTHMAN REGISTERED PROFESSIONAL ENGINEERS LICENSE # 2017088863, DMMACT

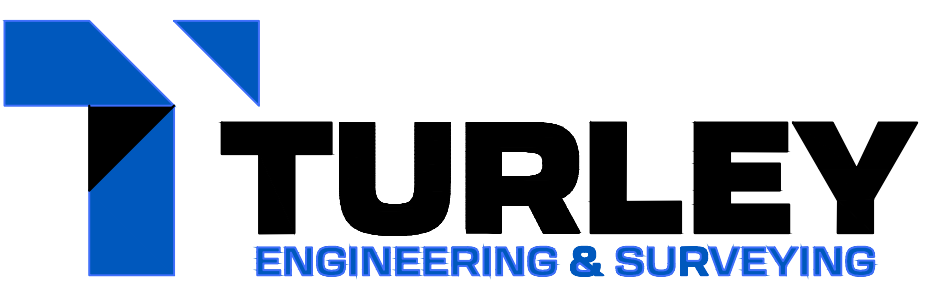
STANDARD CURB (REF: SITE DETAILS)

MEDIUM DUTY CONCRETE PAVING ACCORDING TO PAVING PLAN

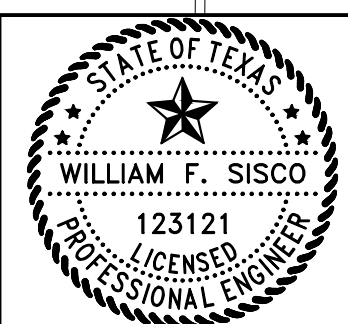


REVISIONS	DATE	DESCRIPTION	DFTR.

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 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869

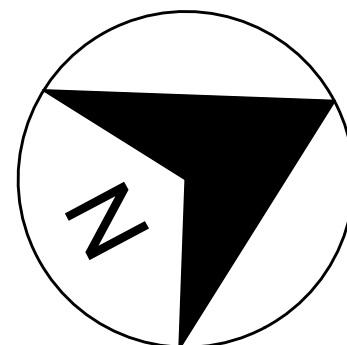


DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *William F. Sisco*
 DATE: 3/27/2024



PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
 TITLE: Add Alternate 3
 FILE NAME: 23-132 Rear Access Road.dwg
 REF. DWG(S):

JOB# 23-132
 PAGE# 26



LEGEND	
	DRAINAGE AREA
	TIME OF CONCENTRATION
	NATURAL CONTOURS
	FINISHED GRADE

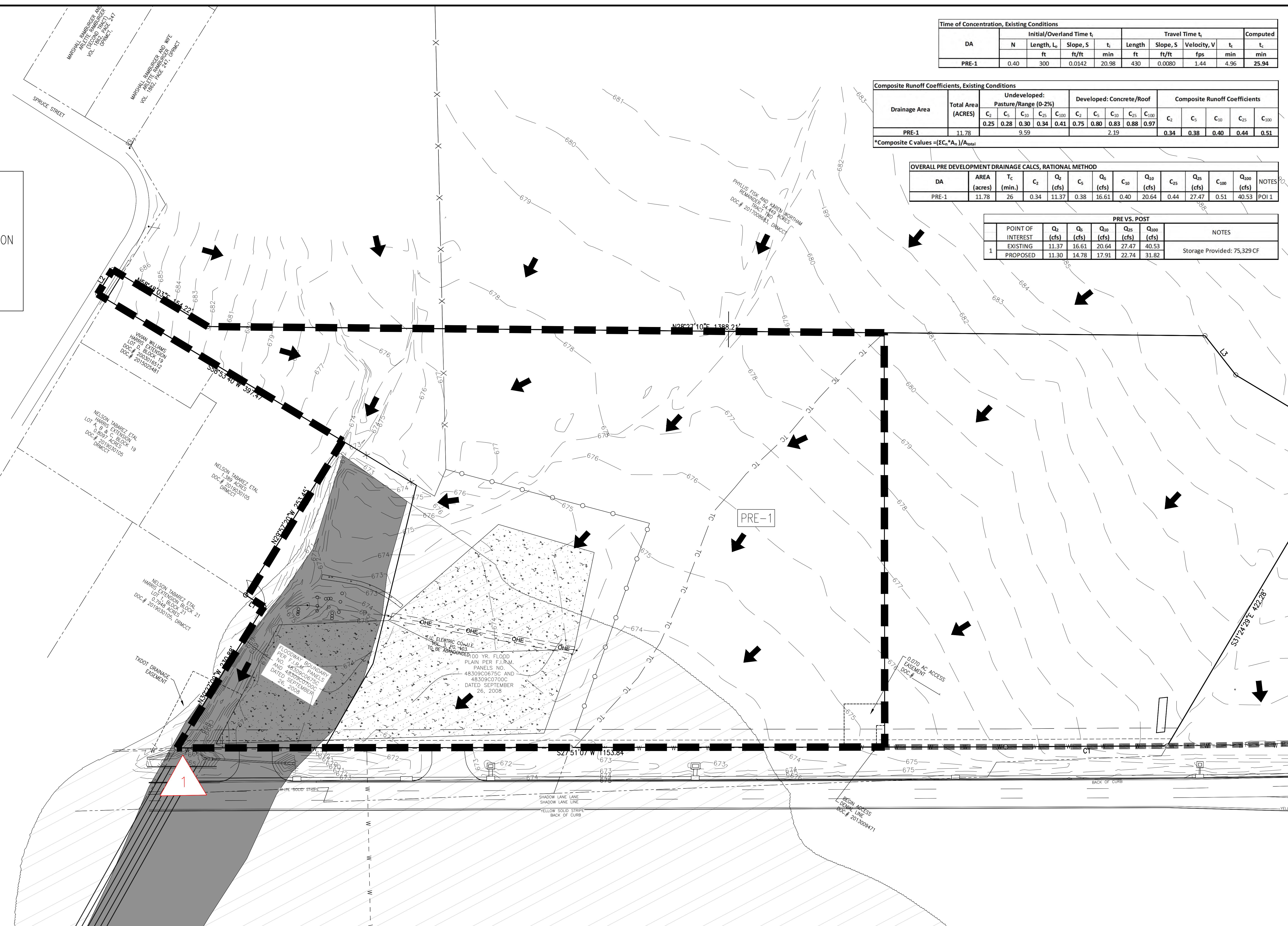
DA	Time of Concentration, Existing Conditions										
	Initial/Overland Time t_i					Travel Time t_t					Computed t_c
	N	Length, L _i ft	Slope, S ft/ft	t_i min	Length ft	Slope, S ft/ft	Velocity, V fps	t_t min	t_c min		
PRE-1	0.40	300	0.0142	20.98	430	0.0080	1.44	4.96	25.94		

Drainage Area	Total Area (ACRES)	Composite Runoff Coefficients, Existing Conditions														
		Undeveloped: Pasture/Range (0-2%)					Developed: Concrete/Roof					Composite Runoff Coefficients				
		C ₂	C ₅	C ₁₀	C ₂₅	C ₁₀₀	C ₂	C ₅	C ₁₀	C ₂₅	C ₁₀₀	C ₂	C ₅	C ₁₀	C ₂₅	C ₁₀₀
PRE-1	11.78	0.25	0.28	0.30	0.34	0.41	0.75	0.80	0.83	0.88	0.97	0.34	0.38	0.40	0.44	0.51

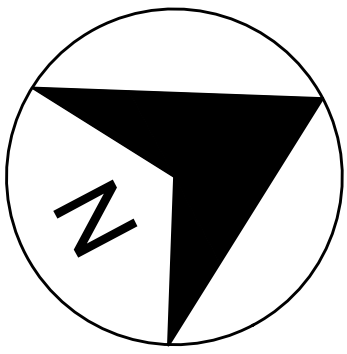
*Composite C values = $\sum C_i A_i / A_{total}$

OVERALL PRE DEVELOPMENT DRAINAGE CALCS, RATIONAL METHOD													
DA	AREA (acres)	T _c (min.)	C ₂	Q ₂ (cfs)	C ₅	Q ₅ (cfs)	C ₁₀	Q ₁₀ (cfs)	C ₂₅	Q ₂₅ (cfs)	C ₁₀₀	Q ₁₀₀ (cfs)	NOTES
PRE-1	11.78	26	0.34	11.37	0.38	16.61	0.40	20.64	0.44	27.47	0.51	40.53	POI 1

PRE VS. POST							NOTES
POINT OF INTEREST	Q ₂ (cfs)	Q ₅ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)		
1	EXISTING	11.37	16.61	20.64	27.47	40.53	Storage Provided: 75,329 CF
	PROPOSED	11.30	14.78	17.91	22.74	31.82	



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	REVISIONS												FILE NAME: 23-132 Drainage.dwg	REF. DWG(S):



LEGEND

- TC — TIME OF CONCENTRATION
- NATURAL CONTOURS
- FINISHED GRADE

ON-SITE DRAINAGE ANALYSIS COMPARES THE PRE-DEVELOPMENT VS. POST-DEVELOPMENT PEAK FLOWS GENERATED FROM THE DEVELOPMENT. PLEASE REFERENCE OFF-SITE DRAINAGE ANALYSIS FOR CHANNEL SIZING PURPOSES.

FINISHED GRADES SHOWN ARE INCLUDED IN BASE BID. POST-DEVELOPED C VALUES INCLUDE ADDITIONAL PAVEMENT FOR ADD ALTERNATE ITEMS.

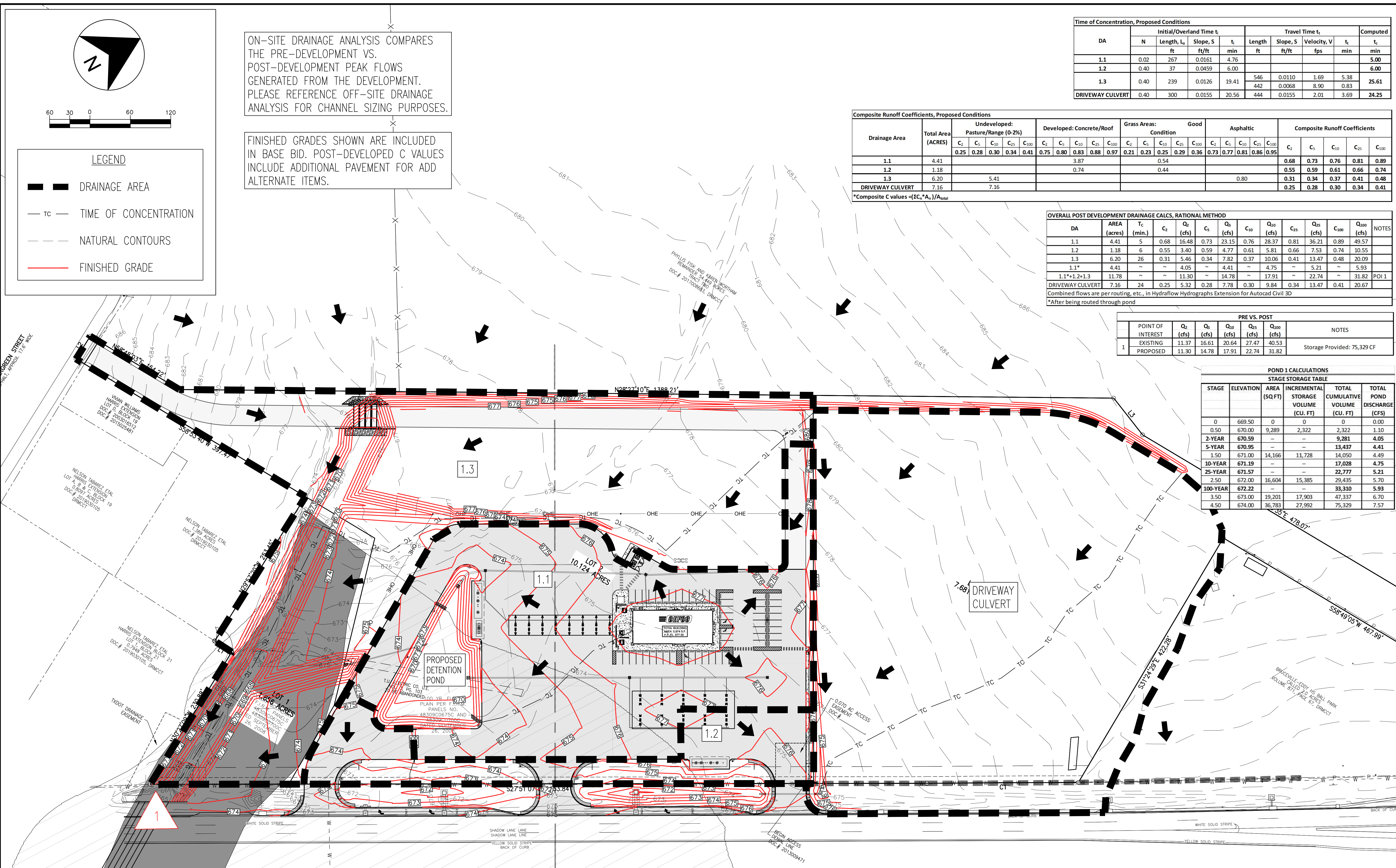
DA	Time of Concentration, Proposed Conditions								Computed
	Initial/Overland Time t_i				Travel Time t_t				
	N	Length, L_o	Slope, S	t_i	Length	Slope, S	Velocity, V	t_t	
1.1	0.02	267	0.0161	4.76					5.00
1.2	0.40	37	0.0459	6.00					6.00
1.3	0.40	239	0.0126	19.41	546	0.0110	1.69	5.38	25.61
					442	0.0068	8.90	0.83	
DRIVEWAY CULVERT	0.40	300	0.0155	20.56	444	0.0155	2.01	3.69	24.25

Drainage Area	Total Area (ACRES)	Composite Runoff Coefficients, Proposed Conditions																								
		Undeveloped: Pasture/Range (0-2%)					Developed: Concrete/Roof					Grass Areas: Good Condition					Asphaltic					Composite Runoff Coefficients				
		C_2	C_5	C_{10}	C_{25}	C_{100}	C_2	C_5	C_{10}	C_{25}	C_{100}	C_2	C_5	C_{10}	C_{25}	C_{100}	C_2	C_5	C_{10}	C_{25}	C_{100}	C_2	C_5	C_{10}	C_{25}	C_{100}
1.1	4.41	0.25	0.28	0.30	0.34	0.41	0.75	0.80	0.83	0.88	0.97	0.21	0.23	0.25	0.29	0.36	0.73	0.77	0.81	0.86	0.95	0.68	0.73	0.76	0.81	0.89
1.2	1.18										0.74											0.55	0.59	0.61	0.66	0.74
1.3	6.20					5.41																0.80				
DRIVEWAY CULVERT	7.16					7.16																0.25	0.28	0.30	0.34	0.41

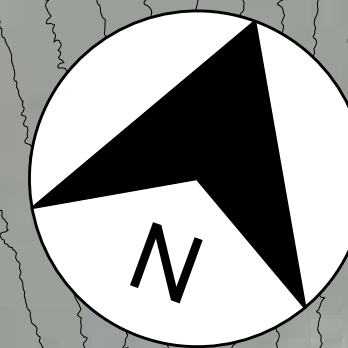
DA	AREA (acres)	T_c (min.)	C_2	Q_5 (cfs)	C_5	Q_{10} (cfs)	C_{10}	Q_{25} (cfs)	C_{25}	Q_{100} (cfs)	C_{100}	NOTES
1.1	4.41	5	0.68	16.48	0.73	23.15	0.76	28.37	0.81	36.21	0.89	49.57
1.2	1.18	6	0.55	3.40	0.59	4.77	0.61	5.81	0.66	7.53	0.74	10.55
1.3	6.20	26	0.31	5.46	0.34	7.82	0.37	10.06	0.41	13.47	0.48	20.09
1.1*	4.41	~	~	4.05	~	4.41	~	4.75	~	5.21	~	5.93
1.1*+1.2+1.3	11.78	~	~	11.30	~	14.78	~	17.91	~	22.74	~	31.82
DRIVEWAY CULVERT	7.16	24	0.25	5.32	0.28	7.78	0.30	9.84	0.34	13.47	0.41	20.67

POINT OF INTEREST	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)	NOTES
EXISTING	11.37	16.61	20.64	27.47	40.53	
PROPOSED	11.30	14.78	17.91	22.74	31.82	Storage Provided: 75,329 CF

POND 1 CALCULATIONS					
STAGE STORAGE TABLE					
STAGE	ELEVATION	AREA (SQ FT)	INCREMENTAL STORAGE VOLUME (CU. FT)	TOTAL CUMULATIVE VOLUME (CU. FT)	TOTAL POND DISCHARGE (CFS)
0	669.50	0	0	0	0.00
0.50	670.00	9,289	2,322	2,322	1.10
2-YEAR	670.59	—	—	9,281	4.05
5-YEAR	670.95	—	—	13,437	4.41
1.50	671.00	14,166	11,728	14,050	4.49
10-YEAR	671.19	—	—	17,028	4.75
25-YEAR	671.57	—	—	22,777	5.21
2.50	672.00	16,604	15,385	29,435	5.70
100-YEAR	672.22	—	—	33,310	5.93
3.50	673.00	19,201	17,903	47,337	6.70
4.50	674.00	36,783	27,992	75,329	7.57



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	DESIGNER: MEB	ENGINEER: [Signature]	DATE: 3/27/2024						



LEGEND	
	DRAINAGE AREA
	TIME OF CONCENTRATION
	NATURAL CONTOURS
	FINISHED GRADE

FLows AT EACH DRAINAGE AREA ASSUME ADD ALTERNATE IS CONSTRUCTED TO SIZE CHANNELS AND CULVERTS FOR THE WORST POSSIBLE CASE.



DA	Initial/Overland Time t_i				Travel Time t_t				Computed t_c
	N	Length, L_o ft	Slope, S ft/ft	t_i min	Length ft	Slope, S ft/ft	Velocity, V fps	t_t min	
OS-1	0.40	300	0.0100	22.75	528	0.0189	2.22	3.96	26.72
OS-2	0.40	300	0.0067	25.01	957	0.0104	1.65	9.68	38.55
OS-3	0.40	300	0.0267	18.10	877	0.0148	1.96	7.44	25.54
OS-4	0.40	300	0.0100	22.75	731	0.0246	2.53	4.81	42.22

Drainage Area	Total Area (ACRES)	Undeveloped: Pasture/Range (0-2%)		Single Family Residential: Estates	Composite Runoff Coefficients
		CN	CN	CN	
OS-1	8.72	8.72		82.00	80.00
OS-2	20.98	20.98			80.00
OS-3	8.94	8.94			80.00
OS-4	211.38	144.24	67.14		80.64

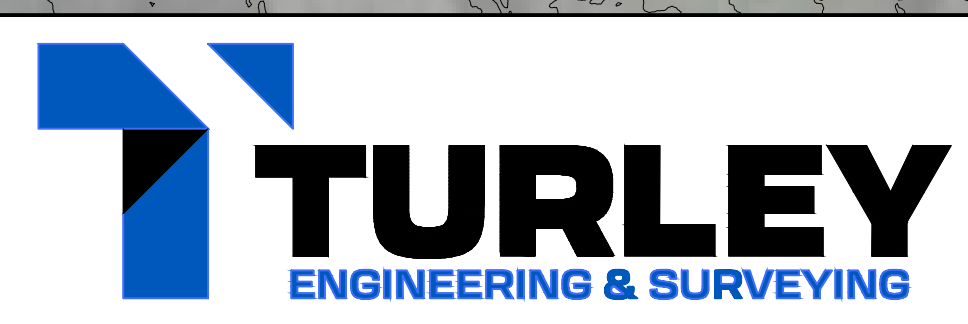
*Composite CN values = $(\sum CN_i A_i) / A_{total}$

DA	AREA (acres)	T_c (min.)	C_{25}	Q_{25} (cfs)	C_{100}	Q_{100} (cfs)	NOTES
OS-1	8.72	27	80.00	43.61	80.00	59.08	CH1
OS-2	20.98	39	80.00	86.73	80.00	117.63	
OS-3	8.94	26	80.00	47.86	80.00	64.79	
OS-4	211.38	42	80.64	845.19	80.64	1141.15	
OS(1+2+3)	38.64	~	~	170.79	~	231.52	CH2
OS(1+2+3+4)	250.02	~	~	1002.75	~	1353.83	BOXES, CH3

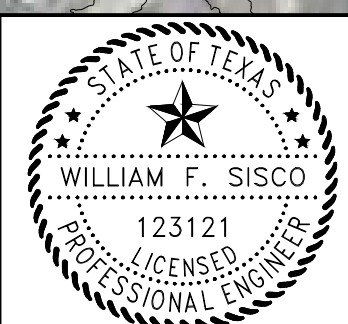
Combined flows are per routing, etc., in Hydrflow Hydrographs Extension for Autocad

REVISIONS	DATE	DESCRIPTION	DFTR.

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 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *William F. Sisco*
 DATE: 3/27/2024



PROJECT: CEFCO
 BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 Drainage.dwg
 REF. DWG(S):

TITLE: Off-Site Drainage Analysis
 JOB#: 23-132
 PAGE#: 29

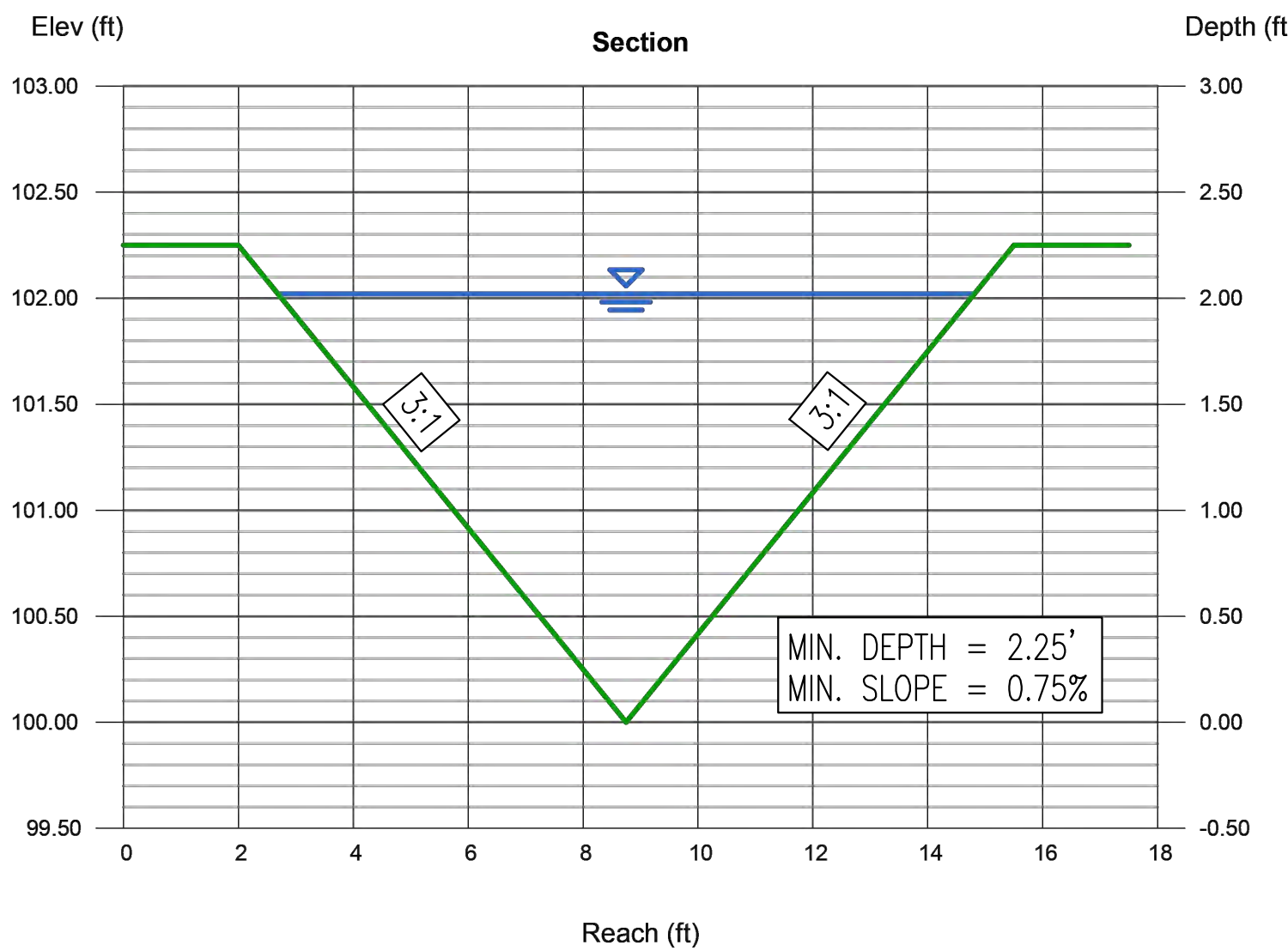
Channel Report

CHANNEL 1 - 25-YR

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Mar 7 2024

CHANNEL 1 - 25-YEAR

Triangular		Highlighted	
Side Slopes (z:1)	= 3.00, 3.00	Depth (ft)	= 2.02
Total Depth (ft)	= 2.25	Q (cfs)	= 43.61
		Area (sqft)	= 12.24
Invert Elev (ft)	= 100.00	Velocity (ft/s)	= 3.56
Slope (%)	= 0.75	Wetted Perim (ft)	= 12.78
N-Value	= 0.035	Crit Depth, Yc (ft)	= 1.68
		Top Width (ft)	= 12.12
		EGL (ft)	= 2.22
Calculations			
Compute by:	Known Q		
Known Q (cfs)	= 43.61		



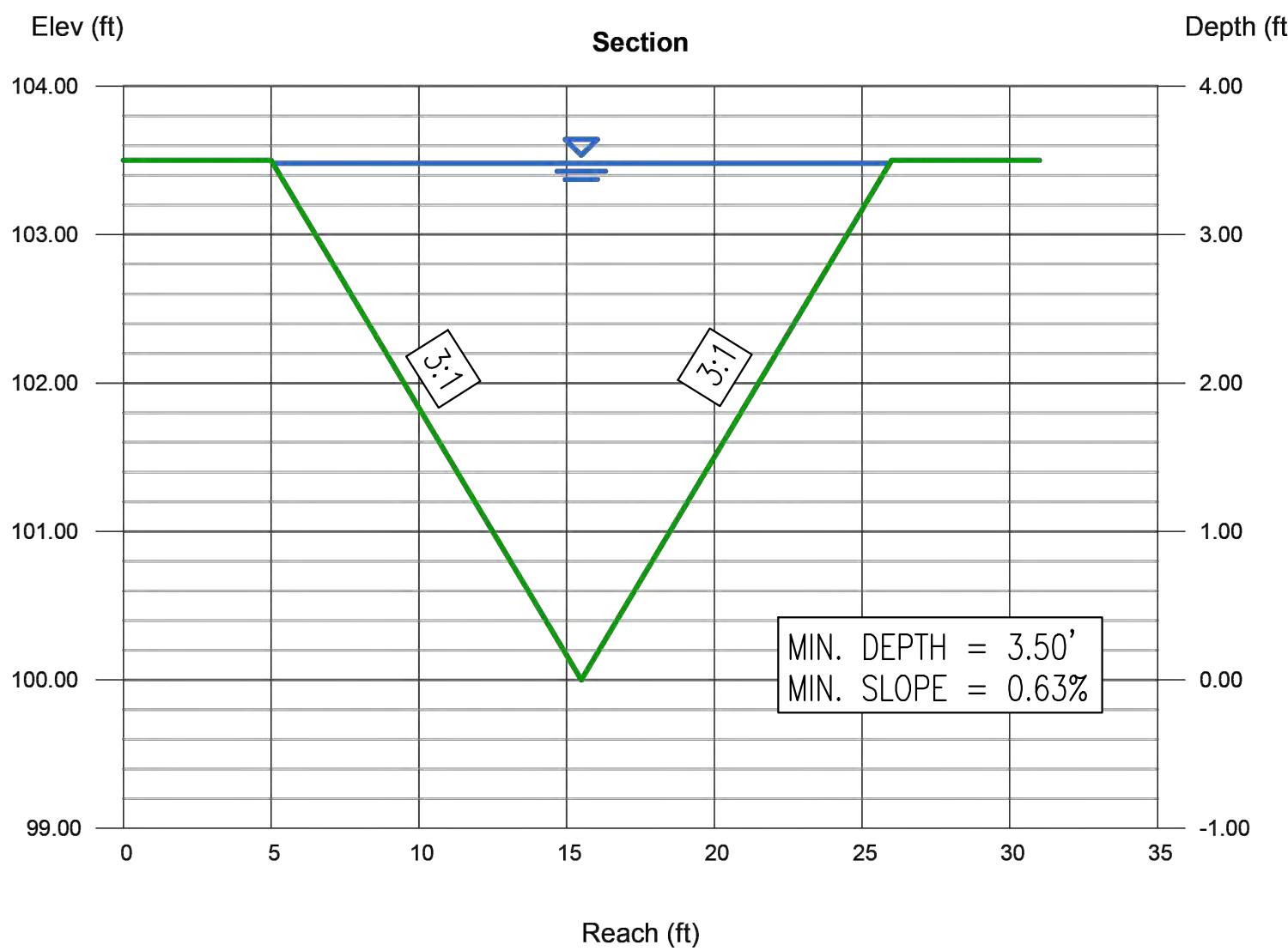
Channel Report

CHANNEL 2 - 25-YR

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Mar 7 2024

CHANNEL 2 - 25-YEAR

Triangular		Highlighted	
Side Slopes (z:1)	= 3.00, 3.00	Depth (ft)	= 3.48
Total Depth (ft)	= 3.50	Q (cfs)	= 170.79
		Area (sqft)	= 36.33
Invert Elev (ft)	= 100.00	Velocity (ft/s)	= 4.70
Slope (%)	= 0.63	Wetted Perim (ft)	= 22.01
N-Value	= 0.035	Crit Depth, Yc (ft)	= 2.89
		Top Width (ft)	= 20.88
		EGL (ft)	= 3.82
Calculations			
Compute by:	Known Q		
Known Q (cfs)	= 170.79		



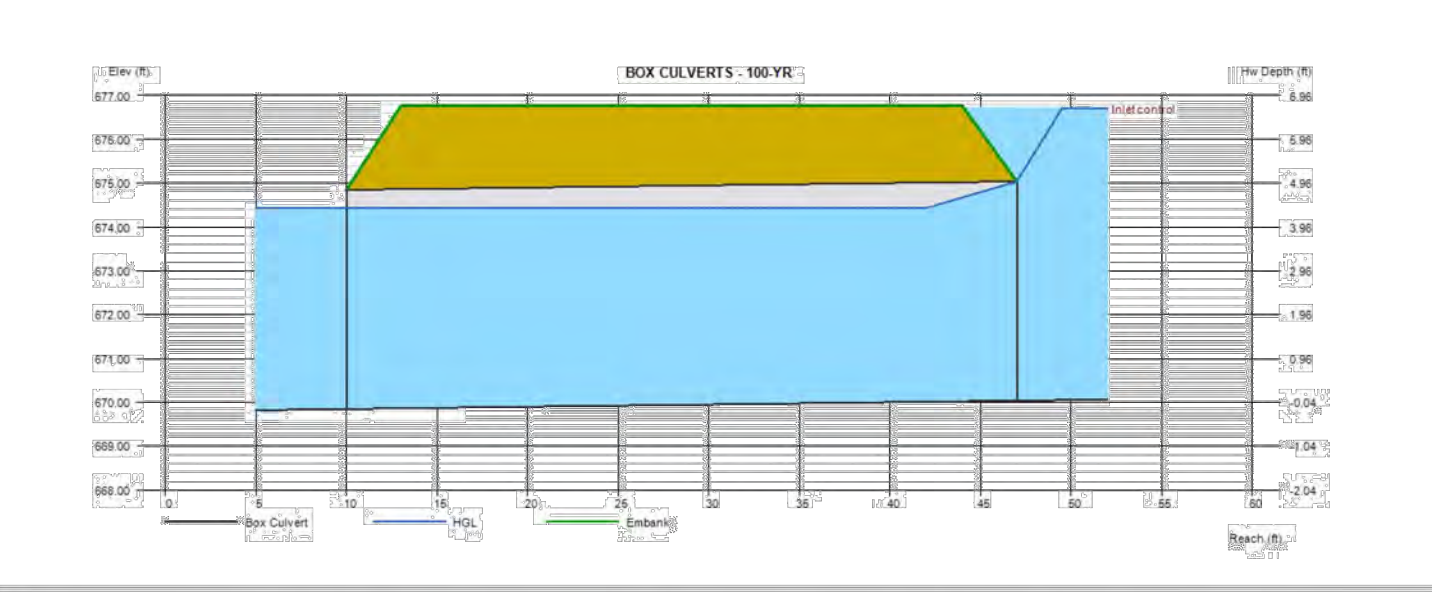
Culvert Report

BOX CULVERTS - 100-YR

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Mar 7 2024

BOX CULVERTS - 100-YR

Invert Elev Dn (ft)	= 669.85	Calculations	
Pipe Length (ft)	= 37.00	Qmin (cfs)	= 1353.83
Slope (%)	= 0.51	Qmax (cfs)	= 1353.83
Invert Elev Up (ft)	= 670.04	Tailwater Elev (ft)	= (dc+D)/2
Rise (in)	= 60.0		
Shape	= Box	Highlighted	
Span (in)	= 84.0	Qtotal (cfs)	= 1353.83
No. Barrels	= 4	Qpipe (cfs)	= 1353.83
n-Value	= 0.012	Qovertop (cfs)	= 0.00
Culvert Type	= 90D Headwall, Chamfered or Beveled Inlet Edge	Veloc Dn (ft/s)	= 10.55
		Veloc Up (ft/s)	= 11.00
Culvert Entrance	= 90D headwall w/33.7D bevels	HGL Dn (ft)	= 674.43
Coeff. K,M,c,Y,k	= 0.486, 0.667, 0.0252, 0.865, 0.2	HGL Up (ft)	= 674.43
		Hw Elev (ft)	= 676.71
Embankment		Hw/D (ft)	= 1.33
Top Elevation (ft)	= 676.76	Flow Regime	= Inlet Control
Top Width (ft)	= 31.00		
Crest Width (ft)	= 50.00		



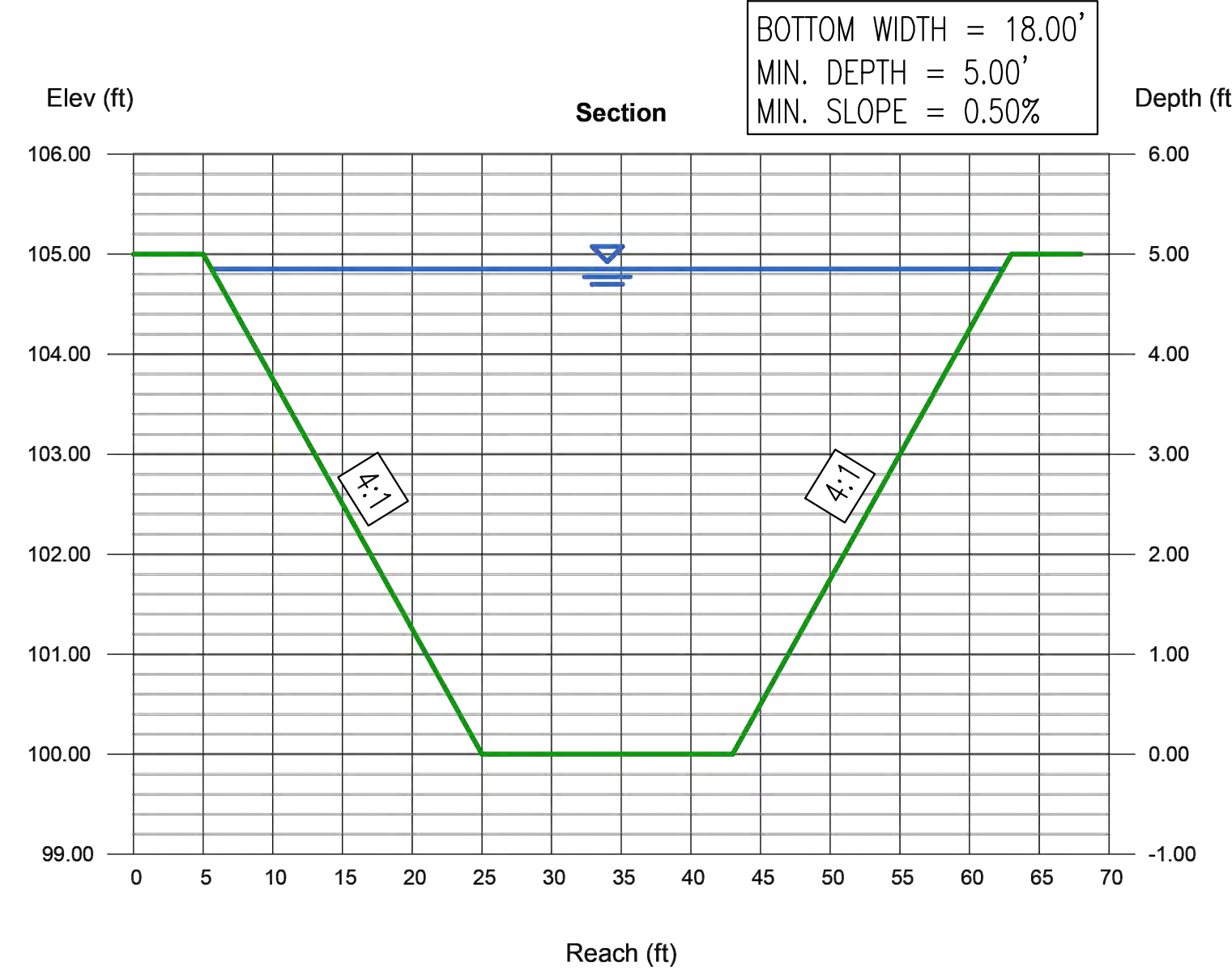
Channel Report

CHANNEL 3 - 100-YR

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Mar 7 2024

CHANNEL 3 - 100-YEAR

Trapezoidal		Highlighted	
Bottom Width (ft)	= 18.00	Depth (ft)	= 4.85
Side Slopes (z:1)	= 4.00, 4.00	Q (cfs)	= 1,354
Total Depth (ft)	= 5.00	Area (sqft)	= 181.39
Invert Elev (ft)	= 100.00	Velocity (ft/s)	= 7.46
Slope (%)	= 0.50	Wetted Perim (ft)	= 57.99
N-Value	= 0.030	Crit Depth, Yc (ft)	= 4.14
		Top Width (ft)	= 56.80
		EGL (ft)	= 5.72
Calculations			
Compute by:	Known Q		
Known Q (cfs)	= 1353.83		



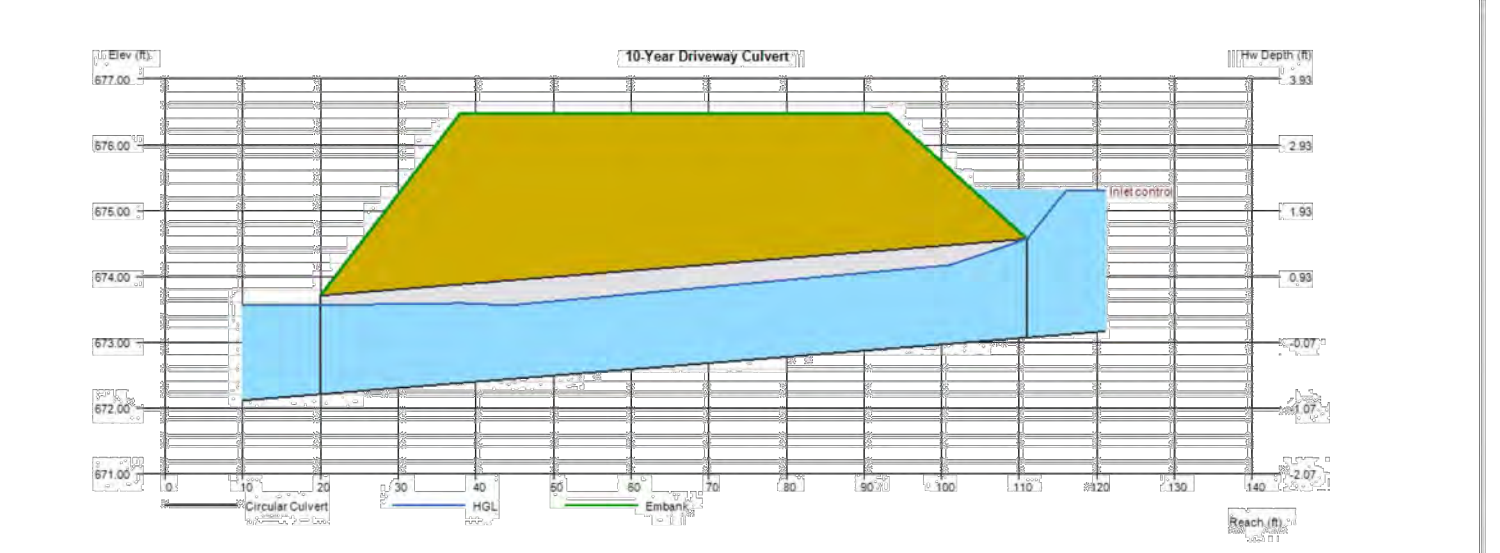
Culvert Report

DRIVEWAY CULVERT - 10-YR

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Mar 7 2024

10-Year Driveway Culvert

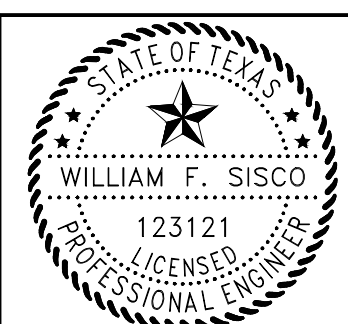
Invert Elev Dn (ft)	= 672.21	Calculations	
Pipe Length (ft)	= 91.00	Qmin (cfs)	= 9.84
Slope (%)	= 0.95	Qmax (cfs)	= 9.84
Invert Elev Up (ft)	= 673.07	Tailwater Elev (ft)	= (dc+D)/2
Rise (in)	= 18.0		
Shape	= Circular	Highlighted	
Span (in)	= 18.0	Qtotal (cfs)	= 9.84
No. Barrels	= 1	Qpipe (cfs)	= 9.84
n-Value	= 0.012	Qovertop (cfs)	= 0.00
Culvert Type	= Circular Concrete	Veloc Dn (ft/s)	= 5.86
Culvert Entrance	= Square edge w/headwall (C)	Veloc Up (ft/s)	= 6.45
Coeff. K,M,c,Y,k	= 0.0098, 2, 0.0398, 0.67, 0.5	HGL Dn (ft)	= 673.56
		HGL Up (ft)	= 674.28
Embankment		Hw Elev (ft)	= 675.30
Top Elevation (ft)	= 676.48	Hw/D (ft)	= 1.49
Top Width (ft)	= 55.00	Flow Regime	= Inlet Control
Crest Width (ft)	= 50.00		



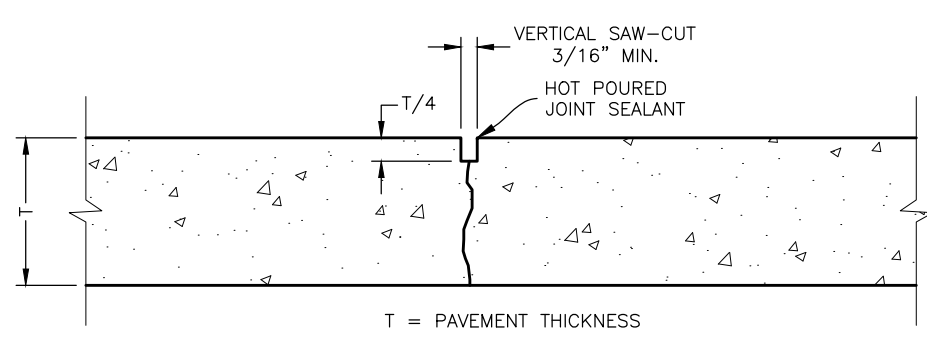
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ENGINEERING FIRM NO. 1658
SURVEY FIRM NO. 10194869

DRAFTSMAN: LJC
DESIGNER: MEB
ENGINEER: *[Signature]*
DATE: 3/27/2024

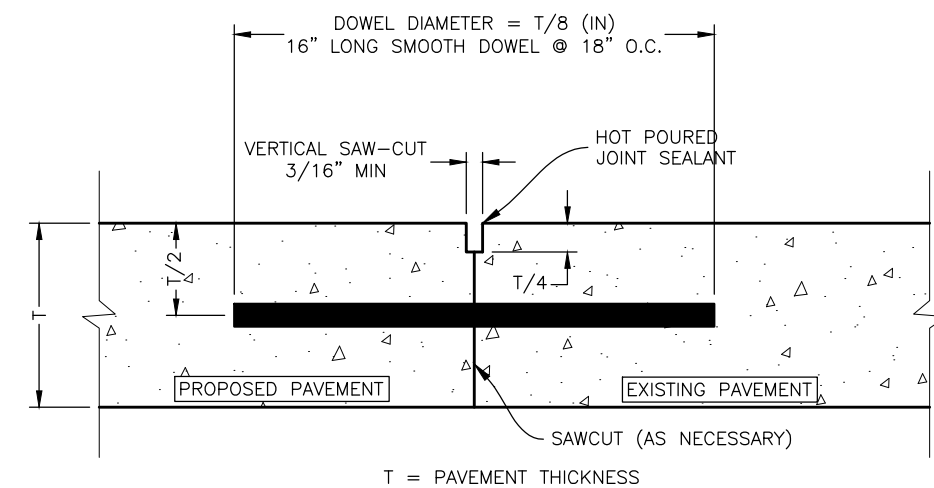


PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
TITLE: Channel & Culvert Design
FILE NAME: 23-132 Drainage.dwg
REF. DWG(S):
JOB#: 23-132
PAGE#: 30



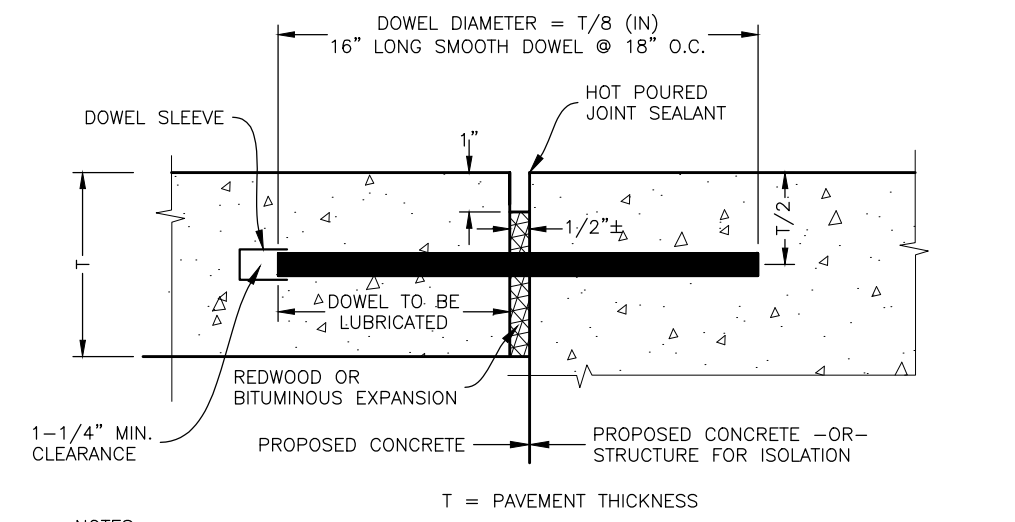
NOTES:
1. REFERENCE GEOTECHNICAL REPORT FOR CONTROL JOINT SPACING/LAYOUT OR REFER TO ACI 330R-08 (GUIDE FOR THE DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS).

1 CONTRACTION-CONTROL JOINT
N.T.S.



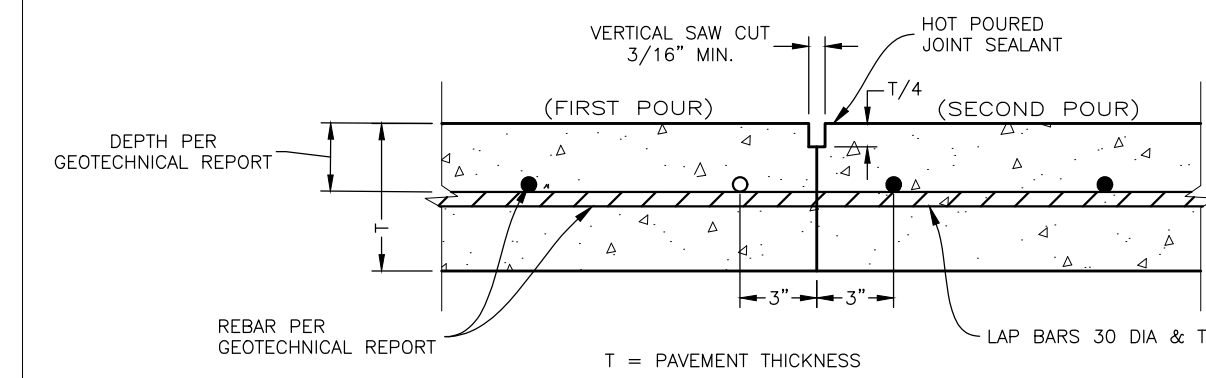
NOTES:
1. TO BE USED WHEREVER NEW CONCRETE PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING CONCRETE PAVEMENT.
2. DOWEL BARS SHALL BE DRILLED INTO EXISTING PAVEMENT HORIZONTALLY.
3. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

2 BUTT JOINT
N.T.S.



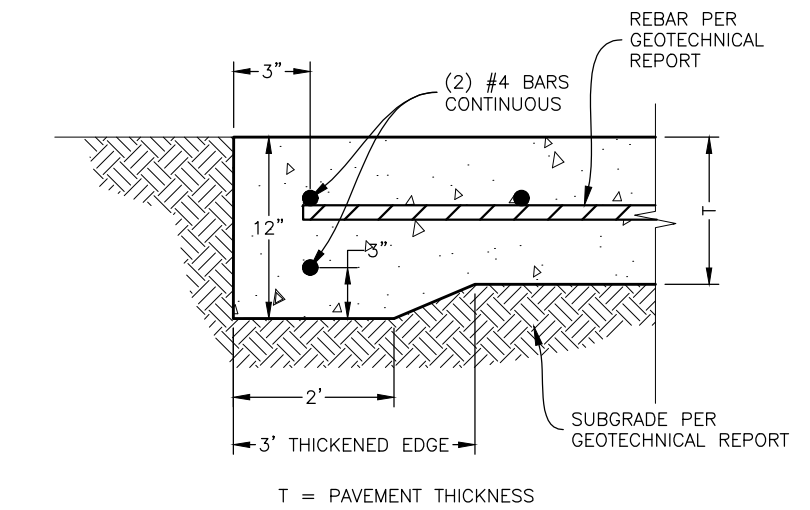
NOTES:
1. REFERENCE GEOTECHNICAL REPORT FOR EXPANSION JOINT SPACING/LAYOUT OR REFER TO ACI 330R-08 (GUIDE FOR THE DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS).
2. TO BE USED WHEREVER NEW CONCRETE PAVEMENT IS TO BE PLACED ADJACENT TO IMMOVABLE OBJECTS (I.E. DRAINAGE STRUCTURES, LIGHT POLES, ETC) OR AS NOTED IN THE GEOTECHNICAL REPORT.
3. DOWEL BARS SHALL BE DRILLED INTO EXISTING PAVEMENT HORIZONTALLY.
4. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.
5. OMIT DOWEL FOR ISOLATION AGAINST OBJECTS NOT SUITED FOR DRILLING.

3 ISOLATION-EXPANSION JOINT DETAIL
N.T.S.



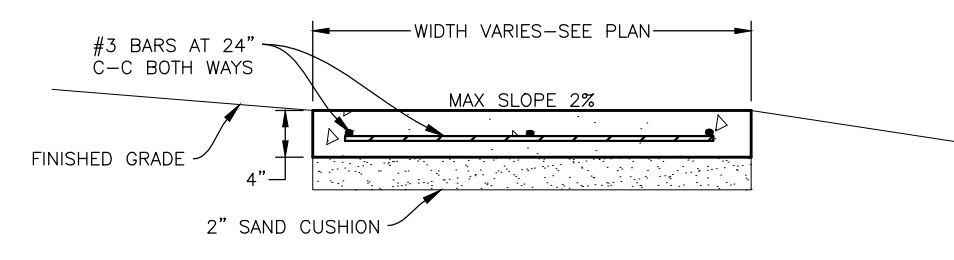
NOTE:
1. TO BE USED BETWEEN NEW AND RECENTLY COMPLETED POURS.

4 CONSTRUCTION JOINT
N.T.S.



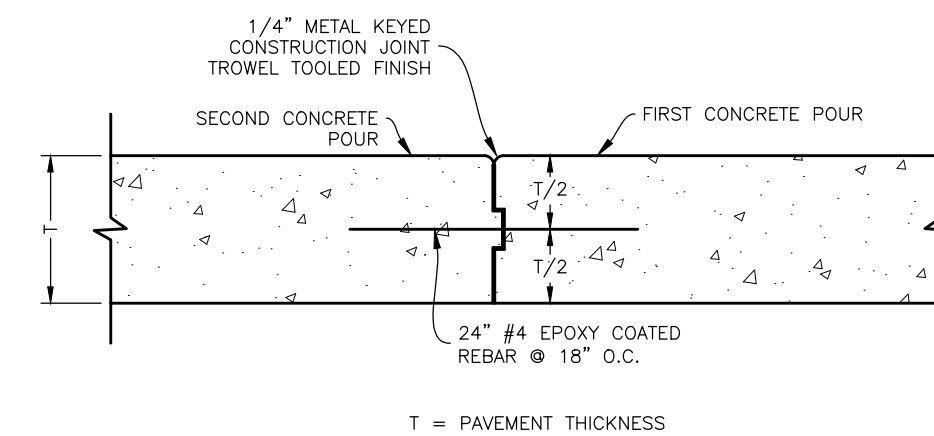
NOTE:
1. TO BE USED BETWEEN AT EDGE OF CONCRETE PAVEMENT LOCATIONS WHERE NO CURB IS PROPOSED.

5 CONCRETE PAVEMENT EDGE WITHOUT CURB
N.T.S.

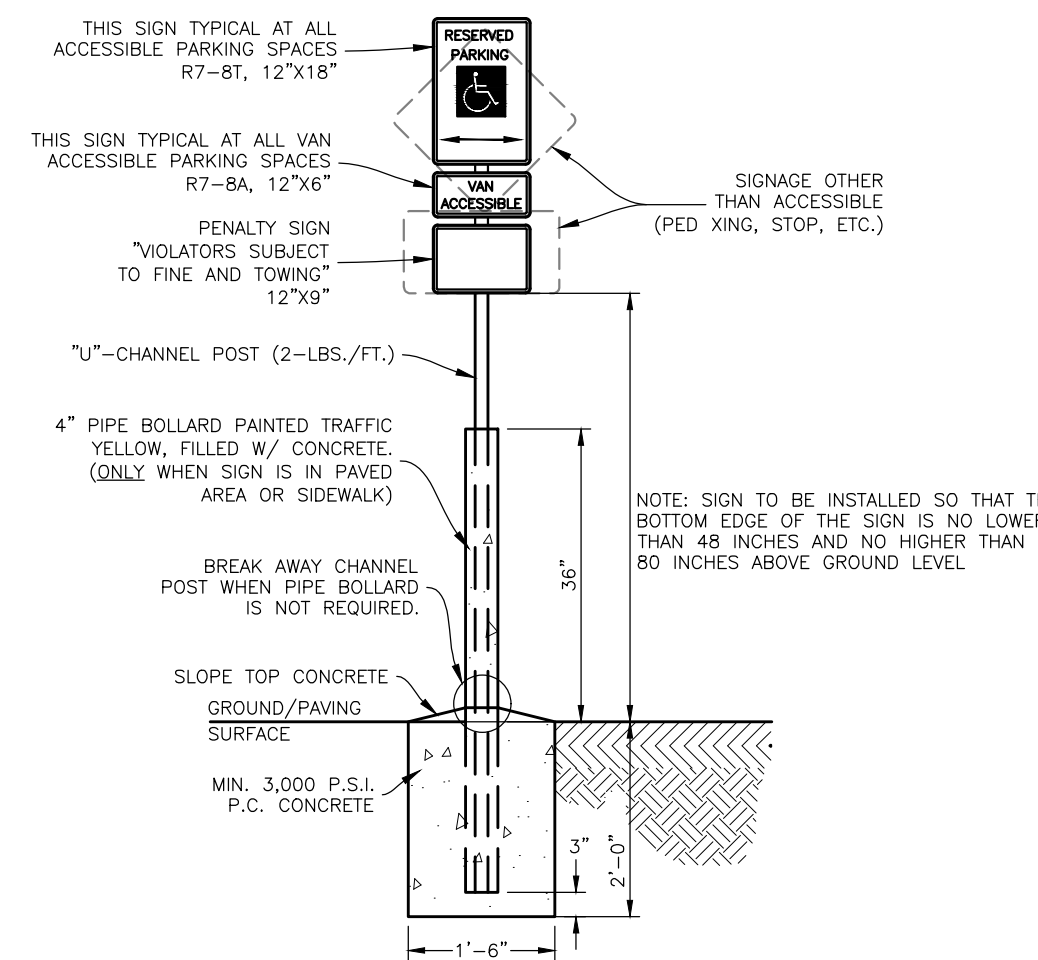


NOTES:
1. PROVIDE 3/8\"/>

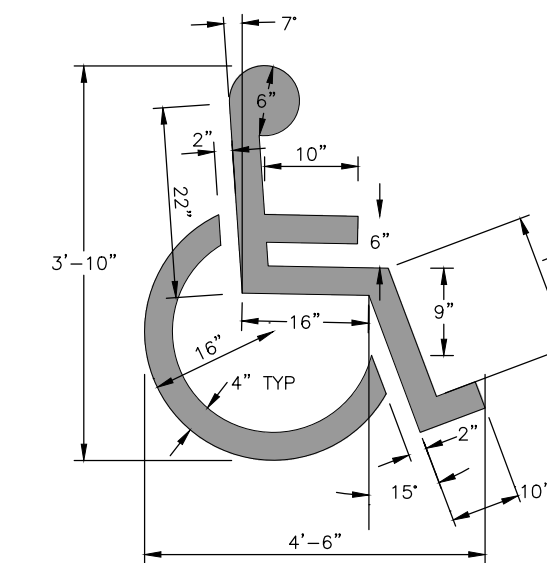
6 ON-SITE CONCRETE SIDEWALK
N.T.S.



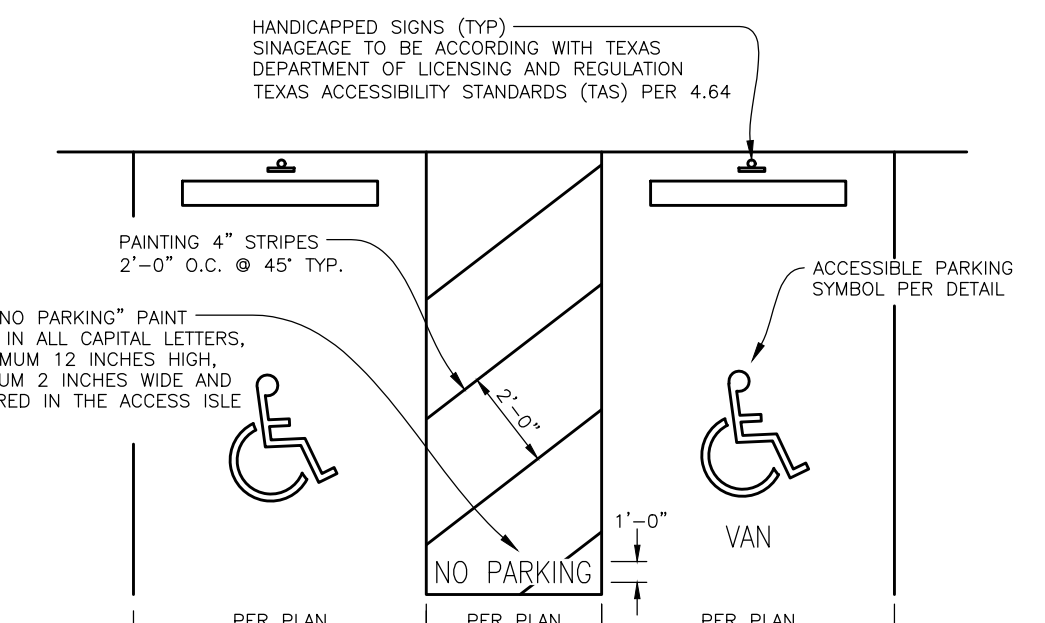
7 KEYED CONSTRUCTION JOINT
N.T.S.



8 SIGN BASE & ACCESSIBLE PARKING SIGN DETAIL
N.T.S.

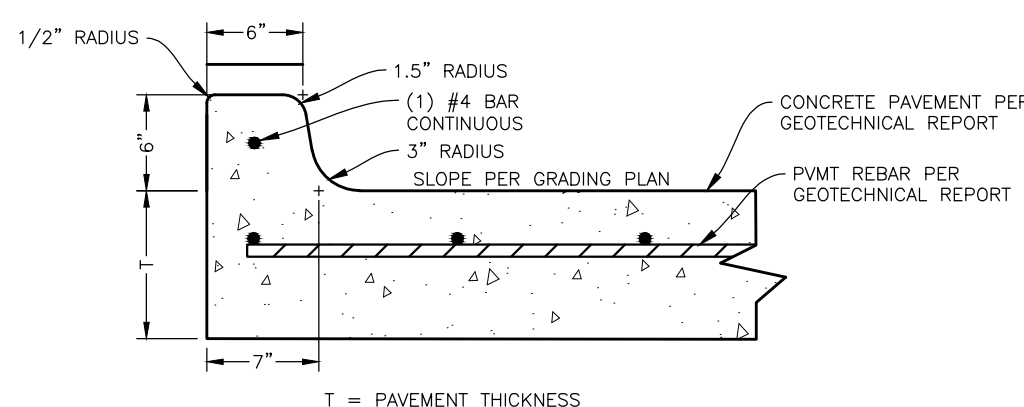


9 ACCESSIBLE PARKING SYMBOL
N.T.S.

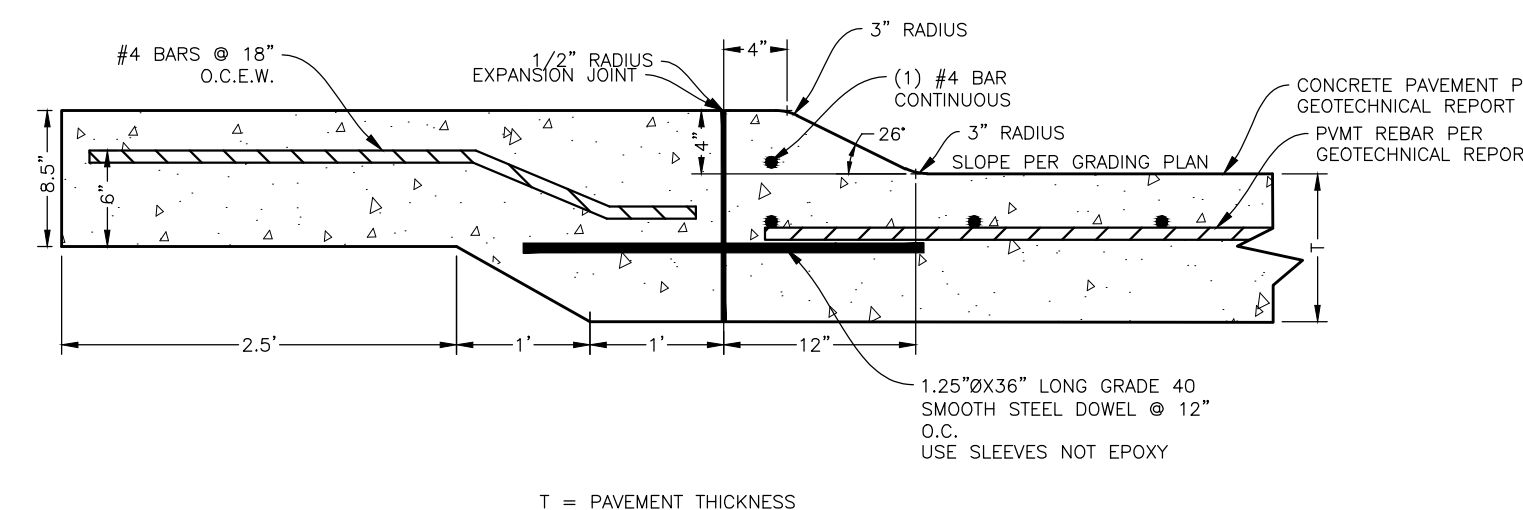


NOTES:
1. DIMENSIONS MAY VARY REFER TO DIMENSIONAL CONTROL PLAN
2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL STATE AND LOCAL REGULATIONS.
3. PAVEMENT MARKINGS TO BE PLACED CONSPICUOUSLY ON THE SURFACE IN A COLOR THAT CONTRASTS THE PAVEMENT AS REQUIRED BY TAC 68.105(1)(1)

10 ADA STRIPING
N.T.S.



11 STANDARD CURB DETAIL
N.T.S.



12 MOUNTABLE CURB AND CURB PROTECTION DETAIL
N.T.S.

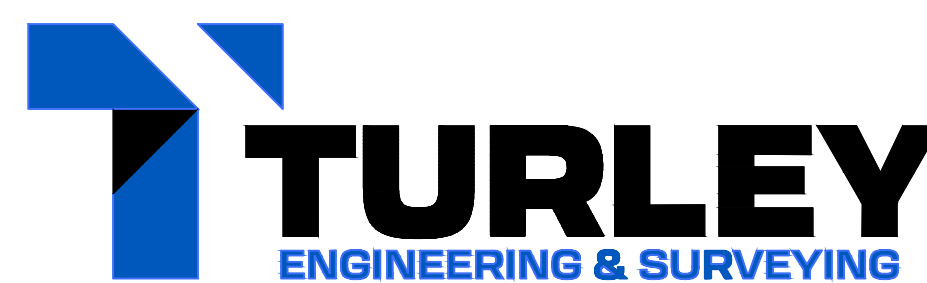


NOTES:
1. FIRE LANE STRIPING SHALL BE 4\"/>

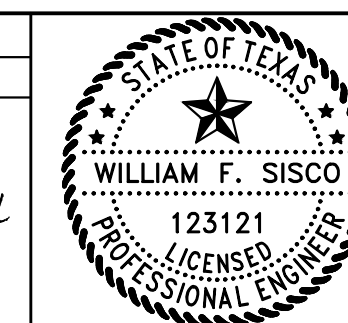
13 FIRE LANE DETAIL
N.T.S.

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SURVEY FIRM NO. 10194869

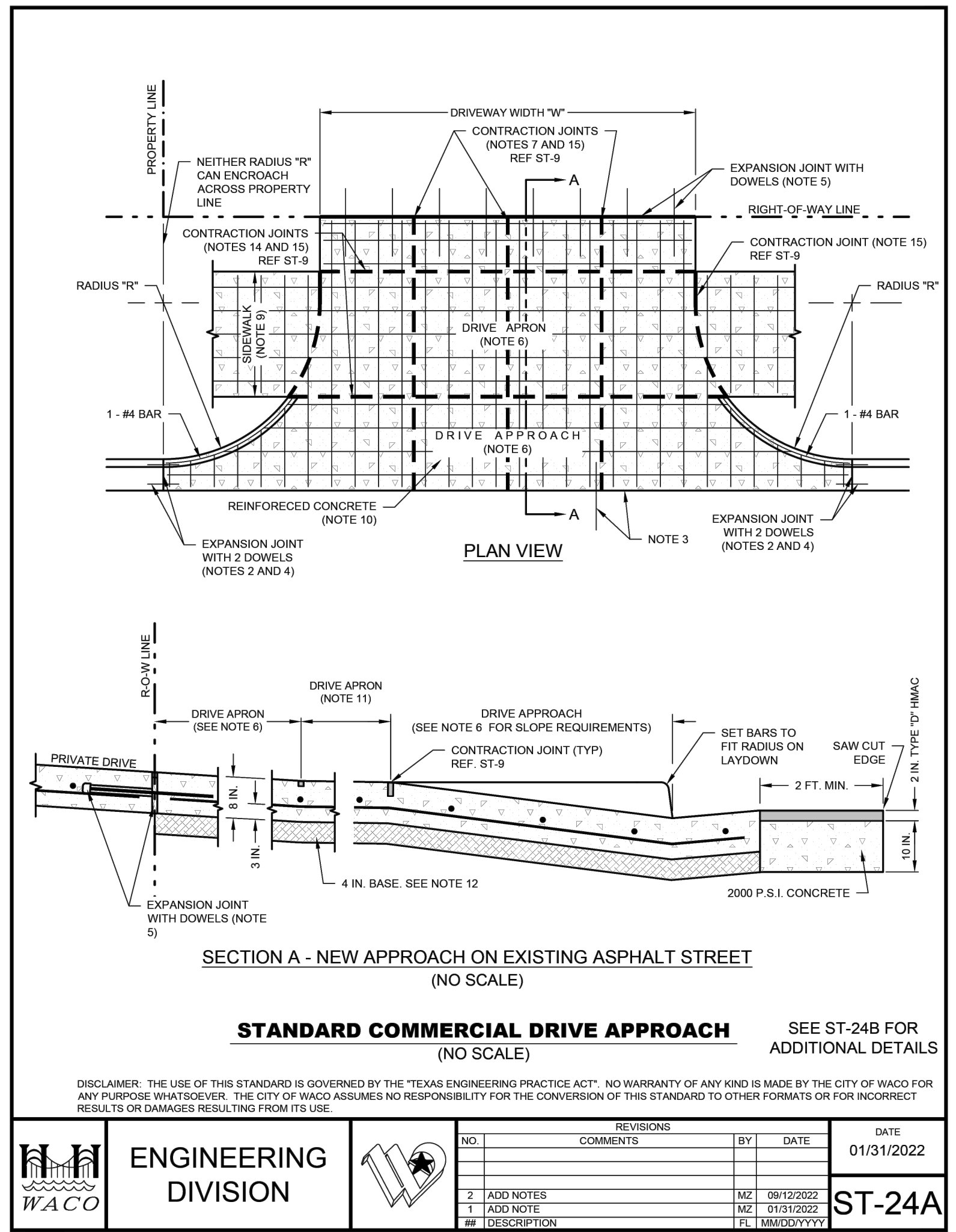


DRAFTSMAN: LJC
DESIGNER: MEB
ENGINEER: [Signature]
DATE: 3/27/2024



PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
FILE NAME: 23-132 SDP.dwg
REF. DWG(S):

TITLE: Site Details
JOB#: 23-132
PAGE#: 31



COMMERCIAL DRIVE APPROACH GENERAL NOTES

NOTES:

- COMMERCIAL TYPE DRIVE APPROACHES AND TURN-OUTS (I.E. FOR BUSINESS PROPERTY) REQUIRE CITY TRAFFIC APPROVAL.
- WHEN CONSTRUCTING DRIVE AT EXISTING CURB, CURB MUST BE SAWS. IF THE RADIUS RETURN IS WITHIN 3 FT. OF AN EXISTING JOINT, THE EXISTING CURB AND GUTTER SHALL BE REMOVED AND REPLACED TO THE NEXT EXISTING JOINT.
- ON CONCRETE STREETS: EXPANSION JOINT WITH DOWELS 3/4 IN. Ø X 24 IN. LONG SMOOTH DOWEL BARS WITH 3/4 IN. Ø PVC PIPE SLEEVE WITH CAPPED END. (REF ST-9)
- EXPANSION JOINT: 2 EACH 3/4 IN. Ø X 24 IN. LONG SMOOTH DOWEL BARS WITH 3/4 IN. Ø PVC PIPE SLEEVE WITH CAPPED END. WHEN ADDING TO EXISTING DRIVE APPROACH, JOINT MUST BE SAW-CUT. REF. ST-9 FOR ADDITIONAL REQUIREMENTS.
- EXPANSION JOINT WITH 3/4 IN. Ø X 24 IN. LONG SMOOTH DOWEL BARS WITH 3/4 IN. Ø PVC PIPE SLEEVE WITH CAPPED END AT 36 IN. OC. (REF ST-9)
- THE DRIVEWAY SLOPE IN THE FIRST 10 FEET FROM THE GUTTER LINE SHALL BE A MAXIMUM OF 5%. THE SLOPE MAY RISE AN ADDITIONAL 5% OR FALL A MAXIMUM OF 6% IN THE SECOND 10 FEET. THROUGH DRIVE APRON AT EXISTING OR FUTURE SIDEWALKS, MAX SLOPE SHALL BE 1.5%
- A LONGITUDINAL CONTRACTION JOINT SHALL BE PLACED AT CENTERLINE OF ALL DRIVEWAYS AND ADDITIONAL LONGITUDINAL CONTRACTION JOINTS SHALL BE PLACED, EXCEPT FOR ALLEY OF 20 FT. OR NARROWER, SPACED EQUALLY AT 10 FT. MAXIMUM SPACING.
- SEE ST-4 STANDARD ALLEY SECTION FOR ADDITIONAL INFORMATION WHEN CONNECTING TO A COMMERCIAL ALLEY.
- SIDEWALK: SEE CODE OF ORDINANCES FOR REQUIREMENTS OF SIDEWALK. LOCATIONS WITHIN THE CODE OF ORDINANCES OF MINIMUM REQUIRED WIDTHS OF SIDEWALK AND RELATED BUFFER PRESENTLY INCLUDE THE FOLLOWING:
 - SEC. 22-37 - CHANGING OF GRADE OF STREETS, ETC.
 - SEC. 22-63 - SAME-LOCATION AND WIDTH OF SIDEWALKS.
 - SEC. 28-880.11 - PUBLIC SPACES.
 - SEC. 28-839 - SIDEWALKS.
 - SUBDIVISION ORDINANCE SEC. 5.2 - PERMANENT IMPROVEMENTS 5.207. SIDEWALKS
- MINIMUM 8 IN REINFORCED CONCRETE WITH #4 BARS AT 18 IN. OCEW (CONCRETE CHAIRS REQUIRED), CONTINUOUS THROUGH DRIVE APPROACH, DRIVE APRON, AND SIDEWALK.
- DRIVE APRON AT EXISTING AND FUTURE SIDEWALKS. MAX SLOPE OF 1.5% FORMED. ANY SLOPE EXCEEDING 2% SHALL NOT BE ACCEPTED.
- 4 IN. TYPE "A" MATERIAL PER STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 4.2 EXCAVATION AND BACKFILL PART 2. PRODUCT A. MATERIALS 3. TRENCH BACKFILL A. TYPE "A" OR 4 IN. RECYCLED CRUSHED CONCRETE (TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM 247 FLEXIBLE BASE TYPE D, GRADE 1-2 EXCLUDING TYPE A MATERIALS, WITH A MINIMUM P.I. OF FOUR) OR 4 IN. PORTLAND CEMENT TREATED BASE (AFTER COMPACTION COVERED BY 10 MIL POLYETHYLENE BOND BREAKER) MECHANICALLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY.
- UPON REQUEST, CONTRACTOR SHALL SHOW INSPECTOR SIDEWALK COMPLIANCE.
- IF DISTANCE BETWEEN INITIALLY REQUIRED TRANSVERSE JOINTS EXCEEDS 10 FT. THEN ADDITIONAL CONTRACTION JOINT(S) SHALL BE PLACED TO ENSURE DISTANCE BETWEEN TRANSVERSE JOINTS DOES NOT EXCEED 10 FEET. THESE ADDITIONALLY REQUIRED CONTRACTION JOINTS SHALL BE PLACED TO PROVIDE EQUAL SPACING BETWEEN TRANSVERSE JOINTS TO THE EXTENT PRACTICAL.
- CONTRACTION JOINT MAY BE TOOLED. SEE ST-9 FOR DETAILS.

COMMERCIAL DRIVEWAY STANDARDS			
DRIVEWAY TYPE	"W" DRIVEWAY WIDTH	"R" BACK OF CURB RADIUS	
ARTERIAL	30 FT MIN - 42 FT MAX	10 FT MIN	
COLLECTOR/LOCAL/CBD	24 FT MIN - 42 FT MAX	10 FT MIN	
ALLEY (NOTE 8)	MATCH ALLEY R.O.W.	10 FT MIN - 25 FT MAX	

INDUSTRIAL DRIVEWAY AND INTERNAL CIRCULATION STANDARDS			
DRIVEWAY TYPE	"W" DRIVEWAY WIDTH	"R" BACK OF CURB RADIUS	
ARTERIAL	30 FT MIN - 50 FT MAX	15 FT MIN - 25 FT MAX	
COLLECTOR/LOCAL/CBD	30 FT MIN - 50 FT MAX	10 FT MIN - 25 FT MAX	
ALLEY (NOTE 8)	MATCH ALLEY R.O.W.	10 FT MIN - 25 FT MAX	

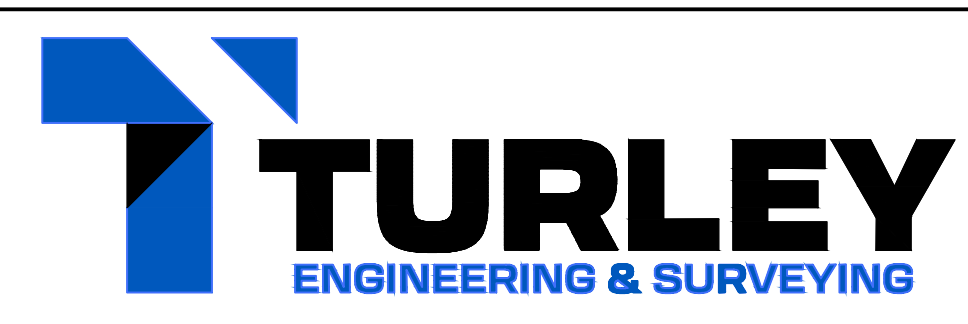
SEE ST-24A FOR ADDITIONAL DETAILS

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

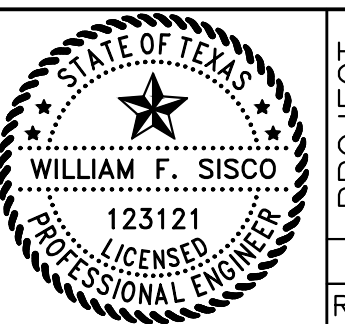
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NO.	COMMENTS	BY	DATE	
3	REVISE NOTE 12	MZ	01/27/2023	01/31/2022
5	REVISE NOTE 12	MZ	01/05/2023	
4	REVISE INDUSTRIAL COLLECTOR "R"	MZ	10/24/2022	
3	ADD NOTES	MZ	08/12/2022	01/31/2022
2	ADD NOTES 12 AND 13	MZ	01/31/2022	
#	DESCRIPTION	FS	MM/DD/YYYY	

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 TEMPLE, TEXAS 76501
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 SURVEY FIRM NO. 10194869

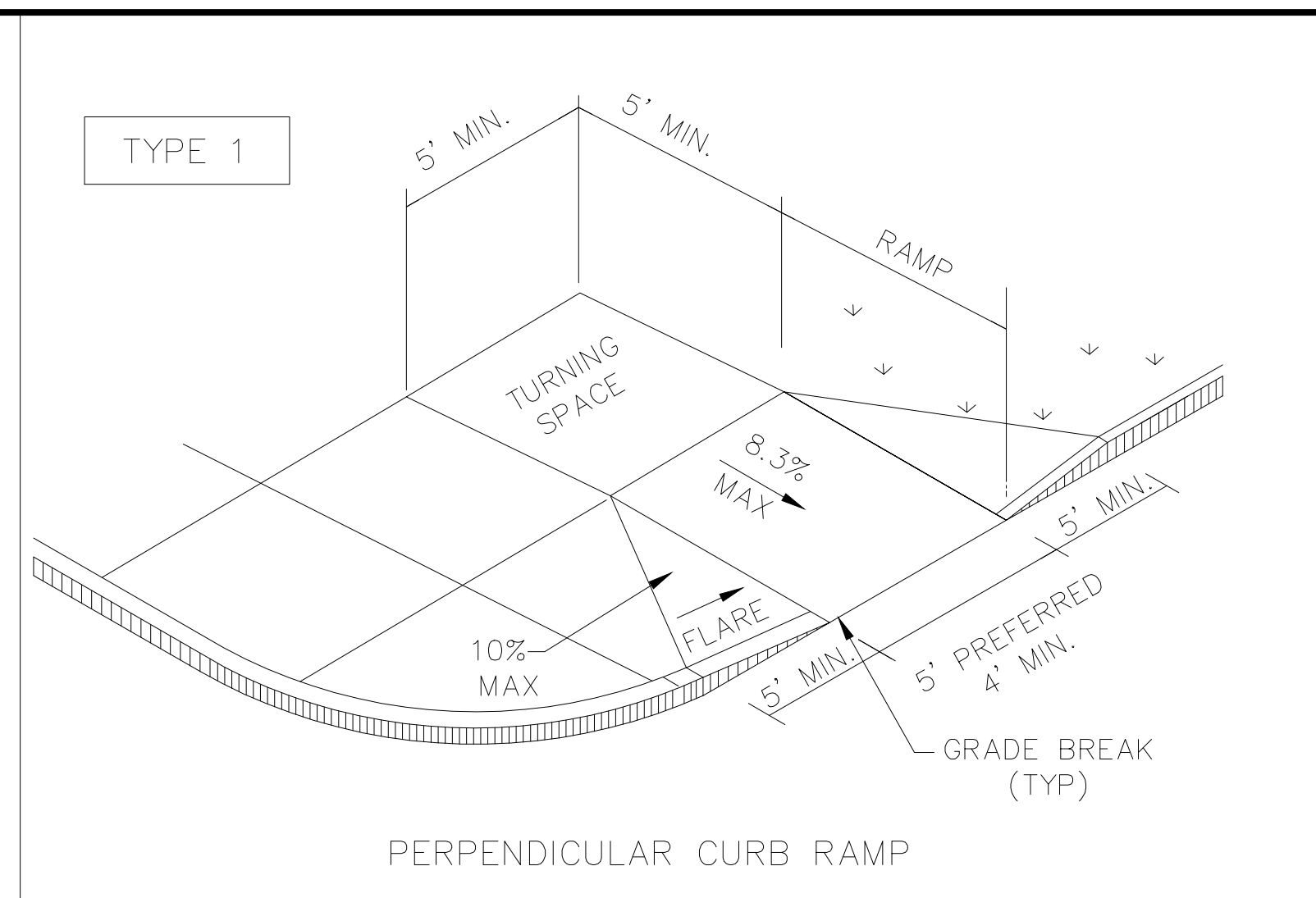


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 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024

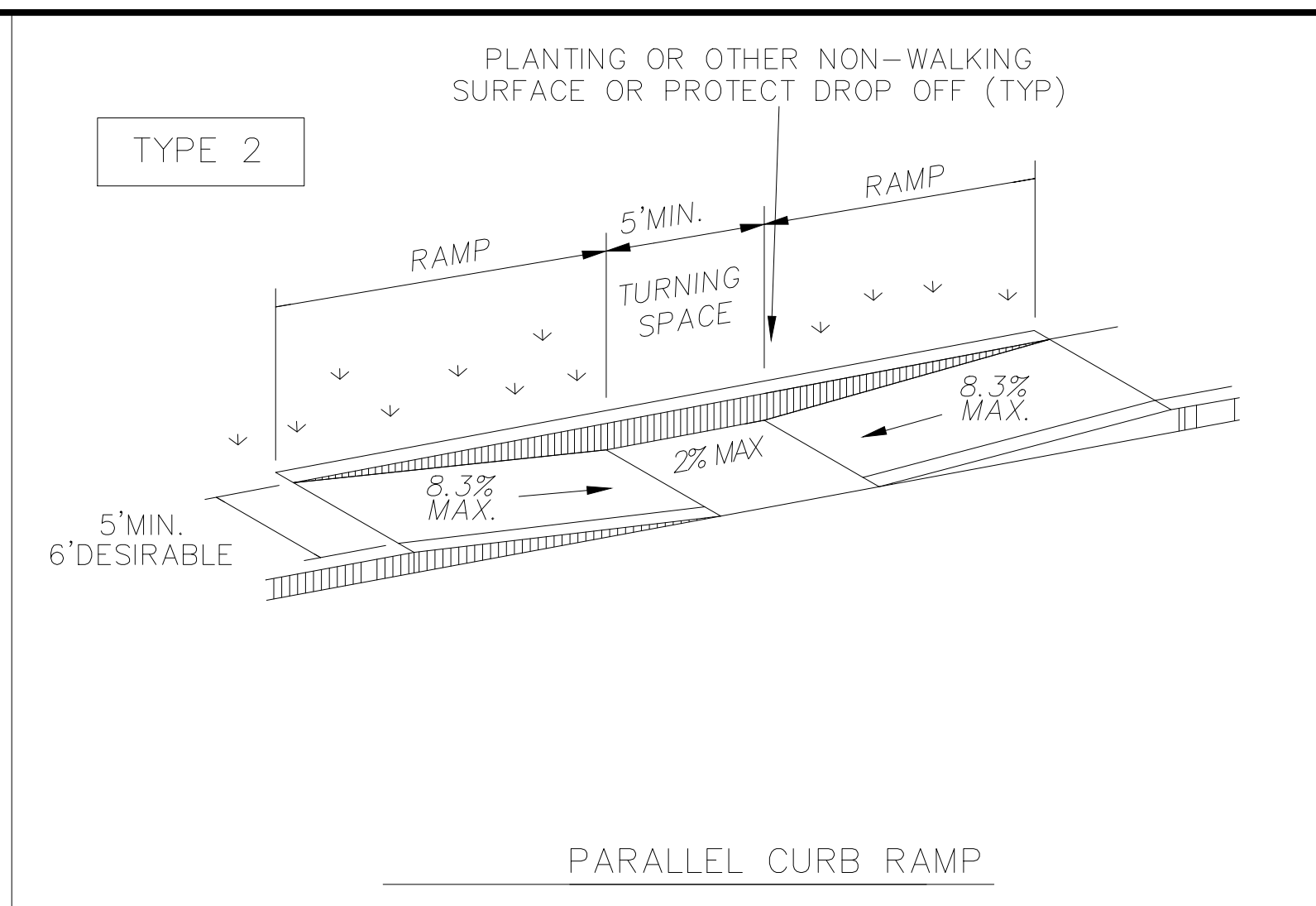


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 FILE NAME: 23-132 SDP.dwg
 REF. DWG(s):

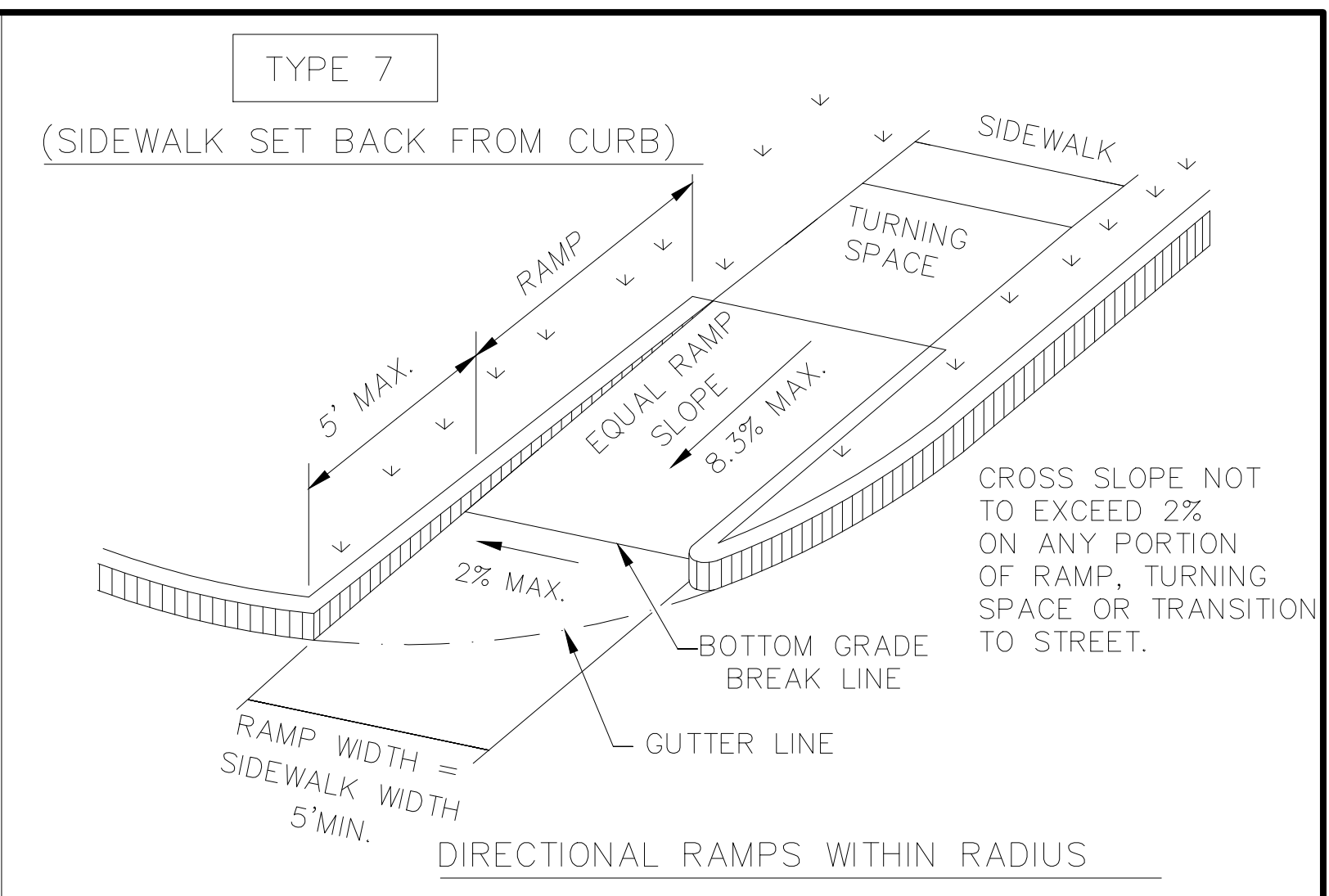
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 JOB#: 23-132
 PAGE#: 32



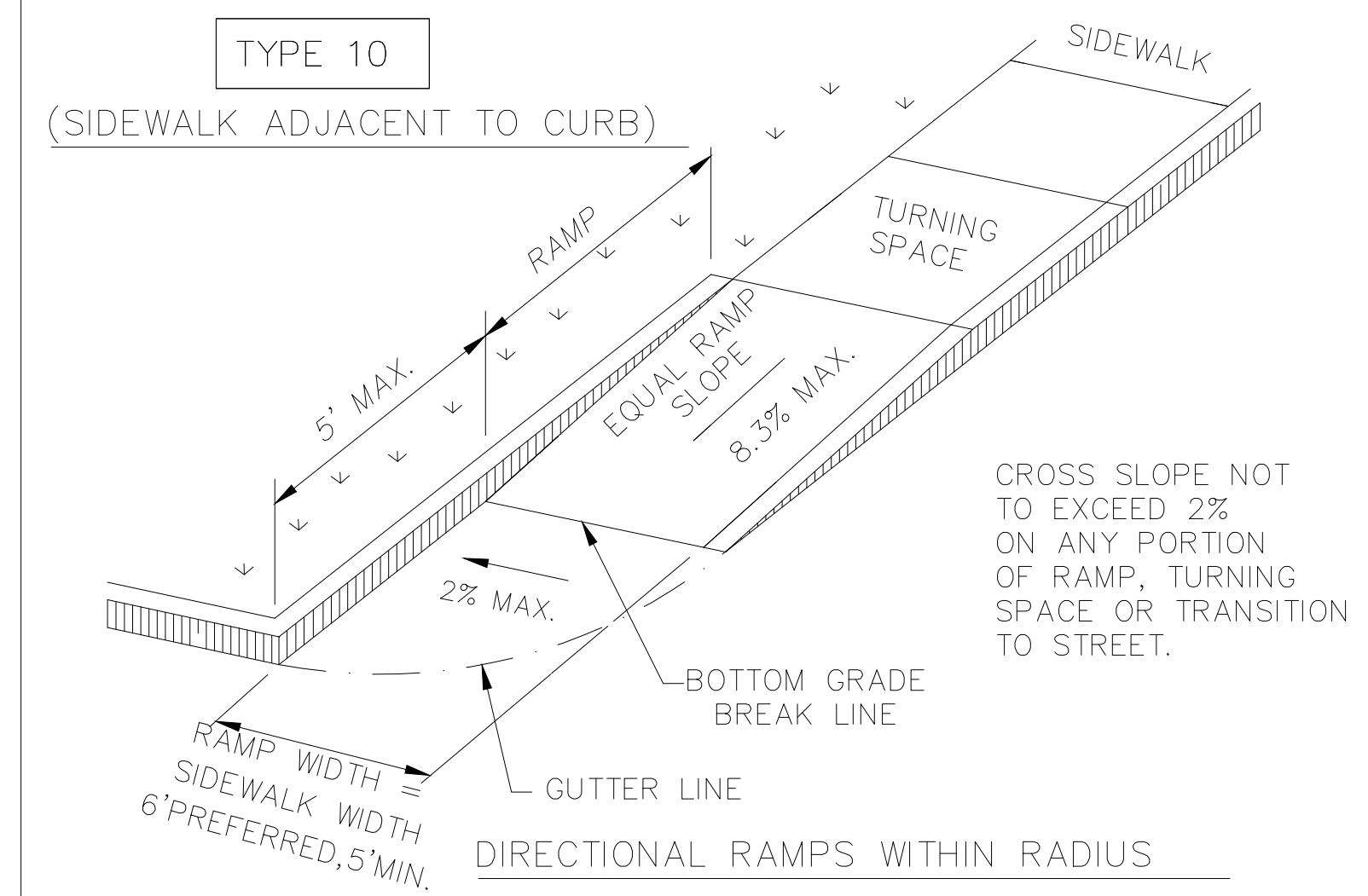
PERPENDICULAR CURB RAMP



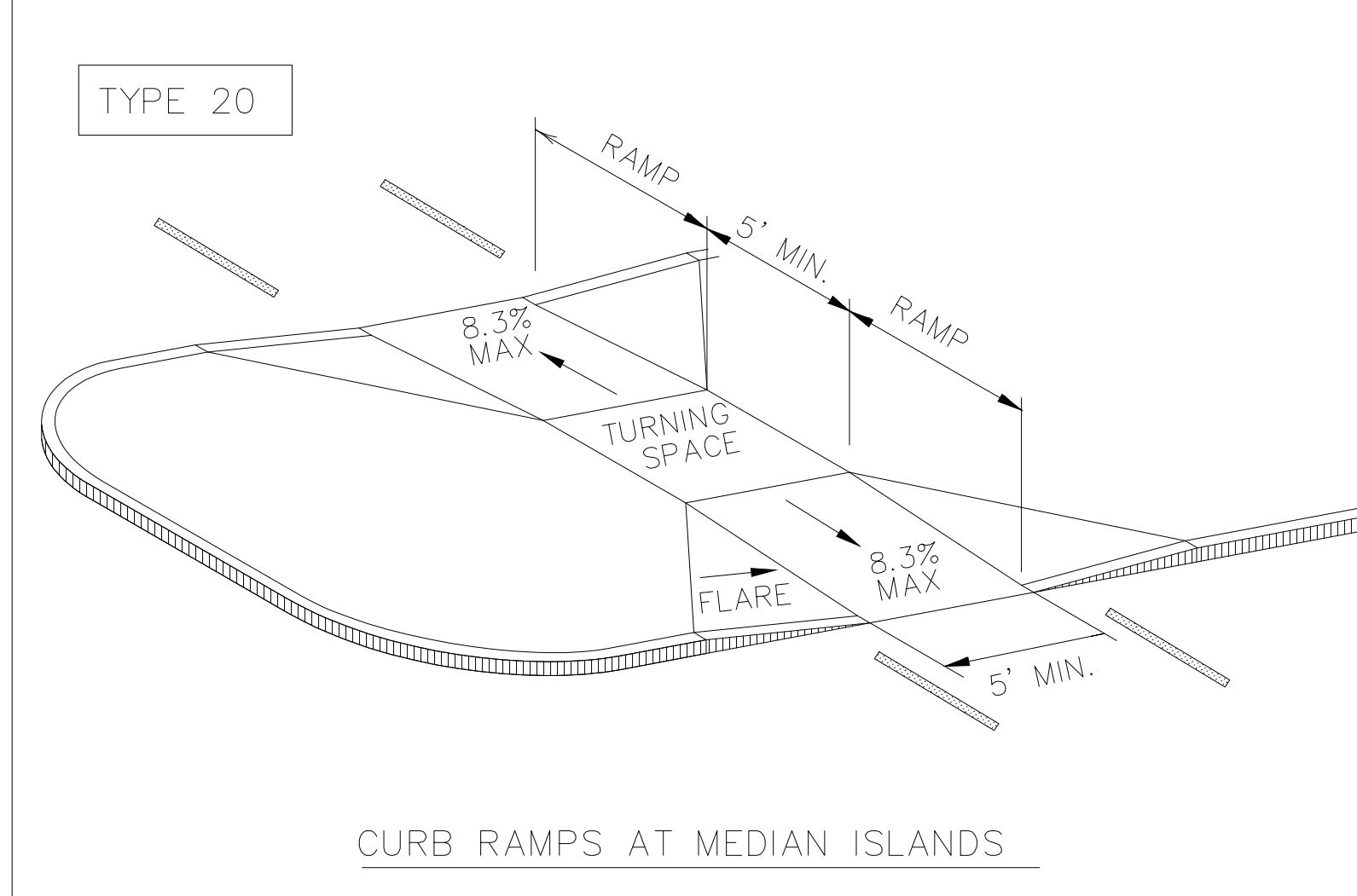
PARALLEL CURB RAMP



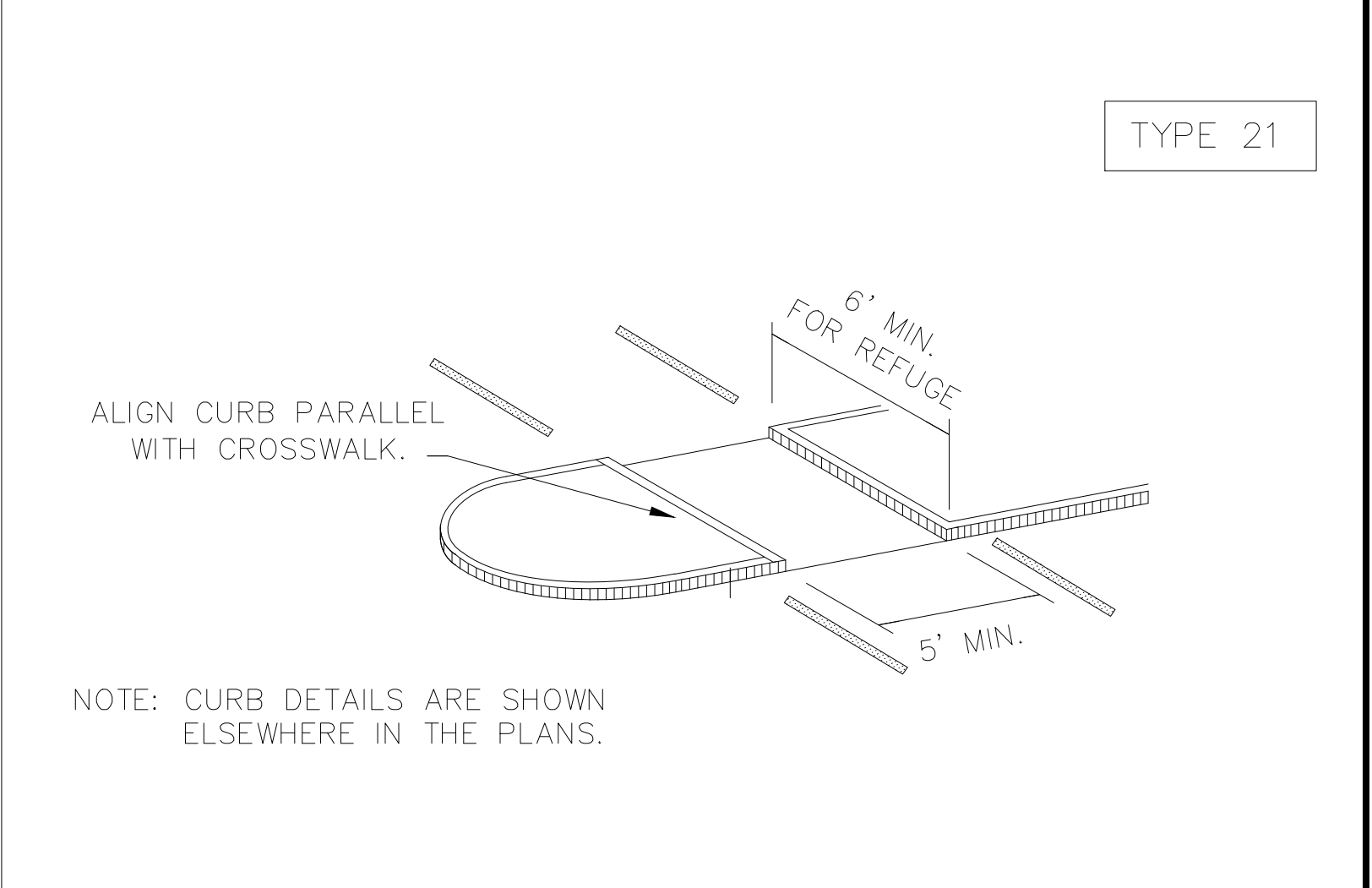
DIRECTIONAL RAMPS WITHIN RADIUS



DIRECTIONAL RAMPS WITHIN RADIUS



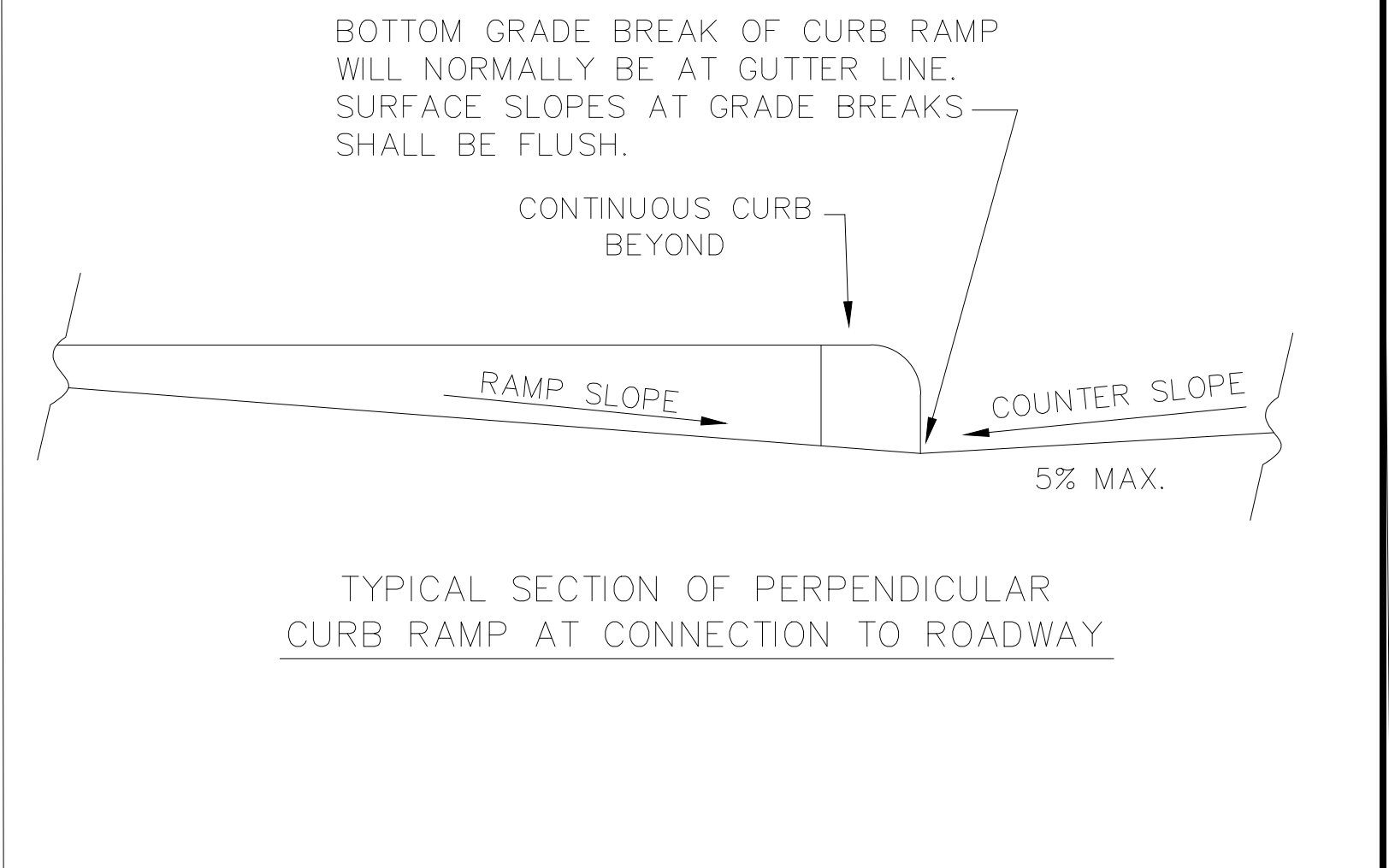
CURB RAMPS AT MEDIAN ISLANDS



NOTE: CURB DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.

CURB RAMPS GENERAL NOTES

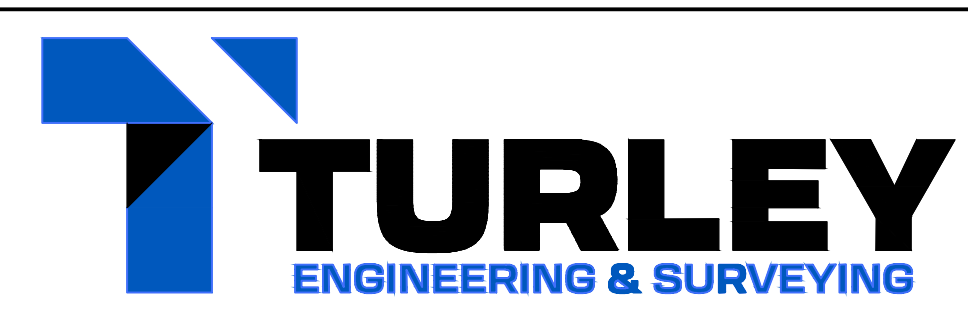
1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5' x 5' passing areas at intervals not to exceed 200' are required.
5. Turning Spaces shall be 5' x 5' minimum. Cross slope shall be maximum 2%.
6. Clear space at the bottom of curb ramps shall be a minimum of 4' x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5' x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
13. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
14. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
15. Provide a smooth transition where the curb ramps connect to the street.
16. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.
17. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
18. Street grades and cross slopes shall be as shown elsewhere in the plans.
19. Changes in level greater than 1/4 inch are not permitted.
20. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
21. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
22. Sidewalk details are shown elsewhere in the plans.



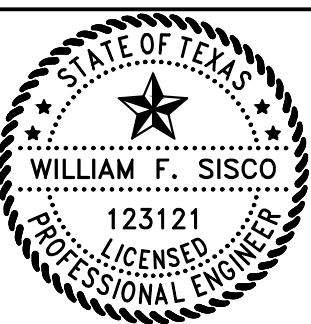
TYPICAL SECTION OF PERPENDICULAR CURB RAMP AT CONNECTION TO ROADWAY

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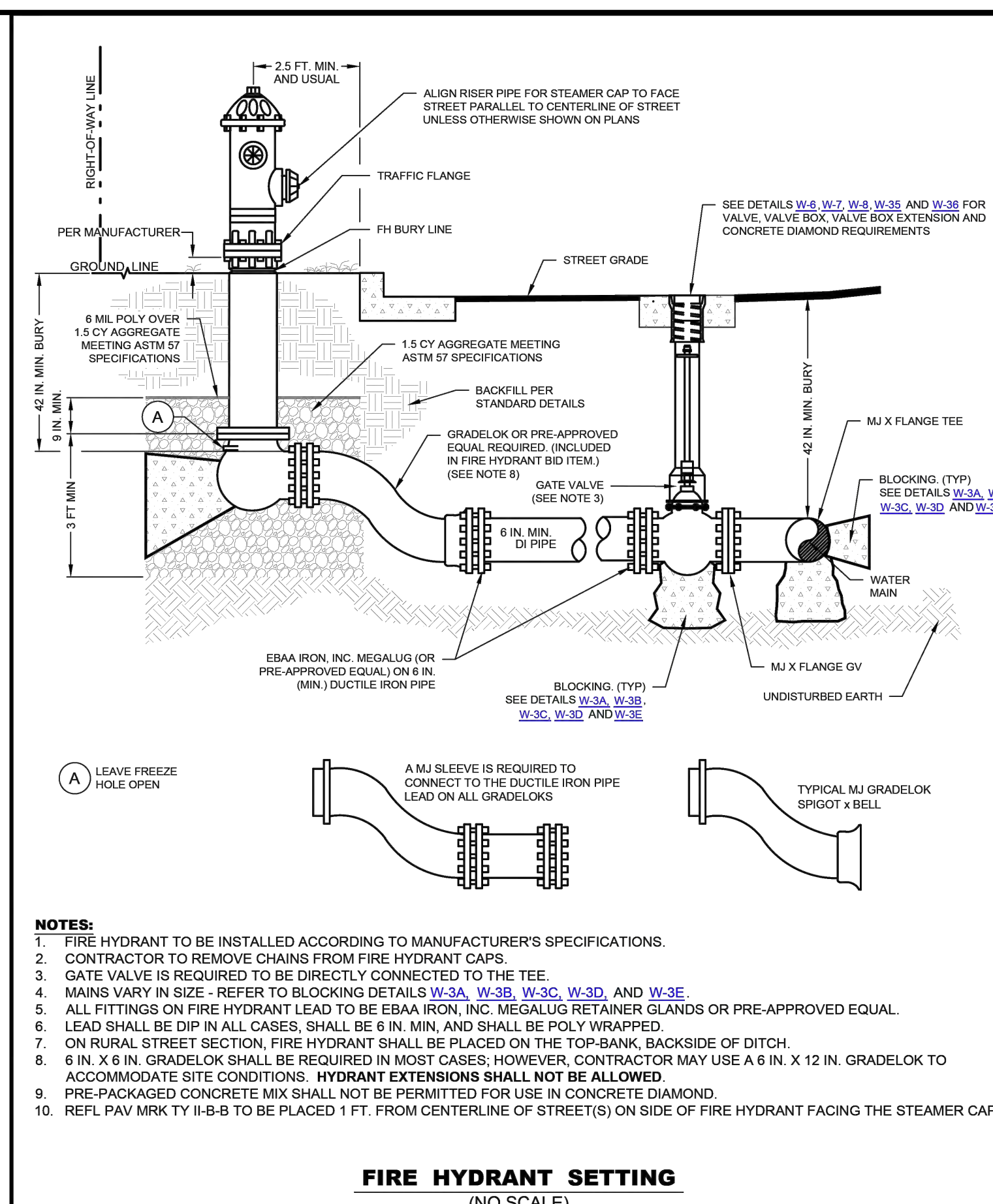


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 DESIGNER: MEB
 ENGINEER: [Signature]
 DATE: 3/27/2024



PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
 FILE NAME: 23-132 SDP.dwg
 REF. DWG(s):

TITLE: Ramp Details
 JOB#: 23-132
 PAGE#: 33



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

DATE: 01/01/2024
W-2

WATER GENERAL NOTES

- PVC WATER MAIN COLOR SHALL BE BLUE.
- ALL WATER LINES SHALL BE COMPLETE IN PLACE INCLUDING ALL BENDS, BLOCKS, FITTINGS, SERVICES AND APPURTENANCES BEFORE PRESSURE TESTING.
- SURFACE REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR WATER SERVICES.
- PLACE METALLIC TRACER WIRE ON TOP OF EMBEDMENT PRIOR TO PLACEMENT OF WATER LINE AND CONNECT TO EACH SERVICE, VALVE AND FIRE HYDRANT. SEE DETAIL W-34.
- METALLIC TRACER WIRE SHALL BE #12 AWG SOLID WIRE WITH A BLUE COATING. LOCATOR WIRE MUST TERMINATE IN AN APPROVED TRACER WIRE BOX. SEE DETAIL W-34.
- ALL DUCTILE IRON WATER PIPE AND FITTINGS MUST BE POLY-WRAPPED PER CITY SPECIFICATIONS.
- A STAMPED "W" OF 4 IN. IN HEIGHT AND 3/8 IN. IN DEPTH SHALL BE PLACED IN THE CENTER OF FACE OF CURB AT EACH NEW SERVICE LOCATION AND IN ANY NEW CURBS AT EXISTING SERVICES.
- ALL COPPER SERVICE PIPE MUST BE TYPE K-SOFT.
- ALL POLYETHYLENE SERVICE PIPE SHALL BE SDR-9 WITH EXTERIOR BLUE COLOR. CONTRACTOR SHALL USE 1 IN. OR 2 IN. CTS TUBING WITH STAINLESS STEEL INSERTS. ALL PIPE MUST MEET NSF 61, AWWA C901, ASTM D3350 AND ASTM D2737 STANDARD SPECIFICATIONS.
- 3/4 IN. WASHED ROCK SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM A 2.8, CRUSHED STONE EMBEDMENT, OF SECTION 4.2 PART 2, EXCEPT THE GRADATION SHALL BE:

SIEVE	PERCENTAGE RETAINED
3/4 IN.	0%
3/8 IN.	100%

- ALL SUBSTITUTIONS FOR USE AS A PRE-APPROVED EQUAL MUST BE SUBMITTED IN WRITING, AND APPROVED BY CITY ENGINEER, IN ADVANCE, IN ACCORDANCE WITH THE CURRENT VERSION OF THE CITY OF WACO STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ANY DEVIATION FROM STANDARD DETAILS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AND APPROVED IN WRITING BY CITY ENGINEER.

WATER SERVICE TAP NOTES

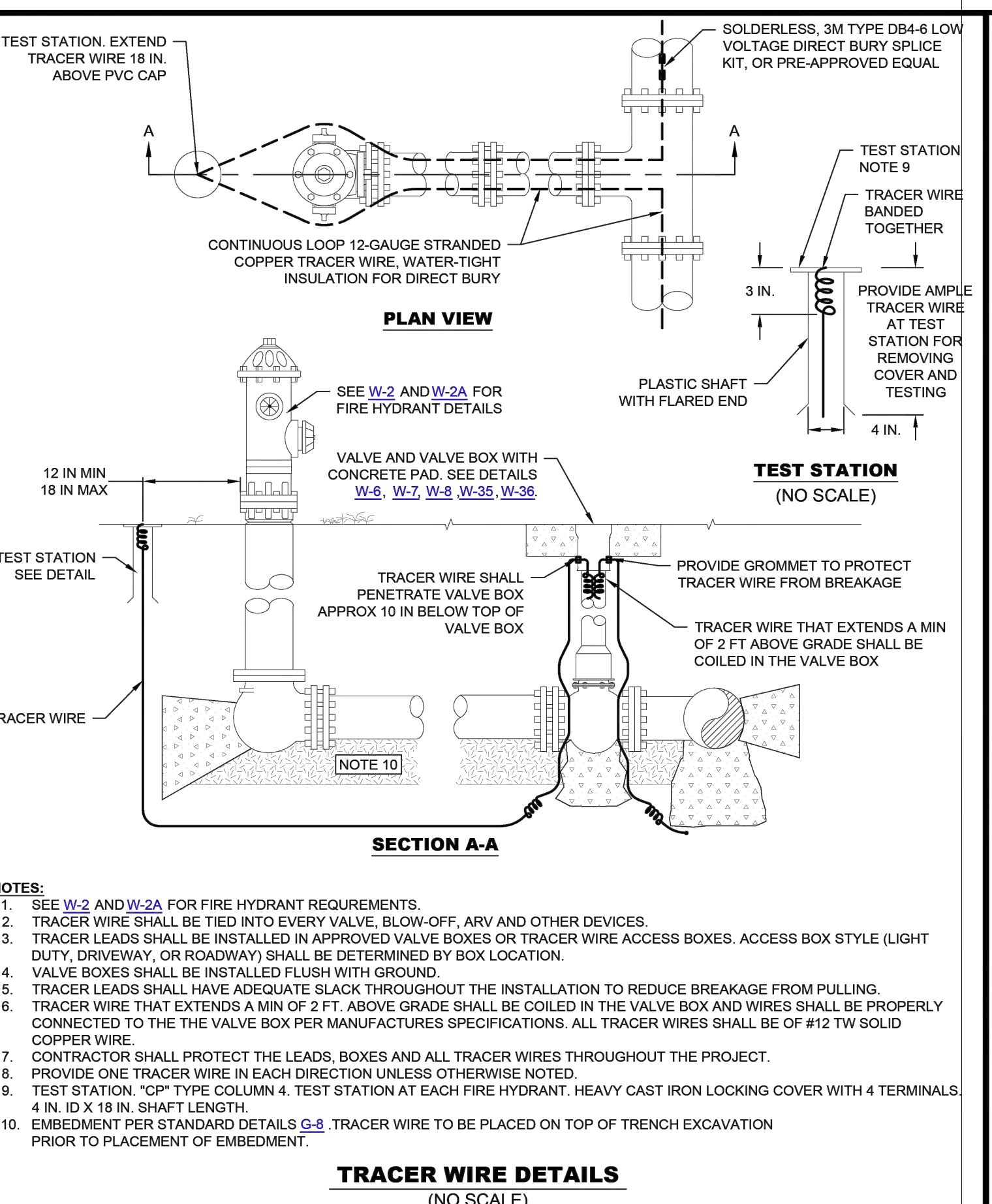
- WHERE NEW WATER SERVICES ARE INSTALLED UNDER EXISTING CURB AND GUTTER, THE CONTRACTOR WILL HAVE THE FOLLOWING OPTIONS:
 - REMOVE AND REPLACE CURB AND GUTTER SECTION FROM JOINT TO JOINT, TYPICALLY 10 FT.
 - CONSTRUCT MINIMUM SIZE TUNNEL, NECESSARY TO INSTALL NEW WATER SERVICE AND THEN PLACE CONTROLLED LOW STRENGTH MATERIAL BENEATH THE EXISTING CURB AND GUTTER.
 - INSTALL SERVICE THROUGH A HOLE AT THE SAME LOCATION AS THE EXISTING PIPE, AND APPROXIMATELY THE SAME DIAMETER AS THE EXISTING PIPE.
- ALL SERVICE TAPS MUST BE MADE UNDER PRESSURE AND FLUSHED, OR TAPPED DRY AND THEN HAVE A SWAB PULLED THROUGH THE PIPE BEFORE CONNECTING THE TAPPED PIPE TO THE MAIN.
- 1-1/2 IN. AND 2 IN. METERS MUST BE BROUGHT TO THE WATER OFFICE TO BE TESTED. 3 IN. AND LARGER ARE TESTED IN THE FIELD BEFORE SERVICE IS APPROVED.
- ALL 1-1/2 IN. AND LARGER METERS SHALL BE SENSUS OMNI METERS WITH ITRON CONNECTORS.
- ALL EXTERNAL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
- ALL SERVICE TAPS MUST BE APPROVED IN ADVANCE BY THE CITY OF WACO AND MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF A DESIGNATED CITY OF WACO UTILITY INSPECTOR. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				8/25/2021

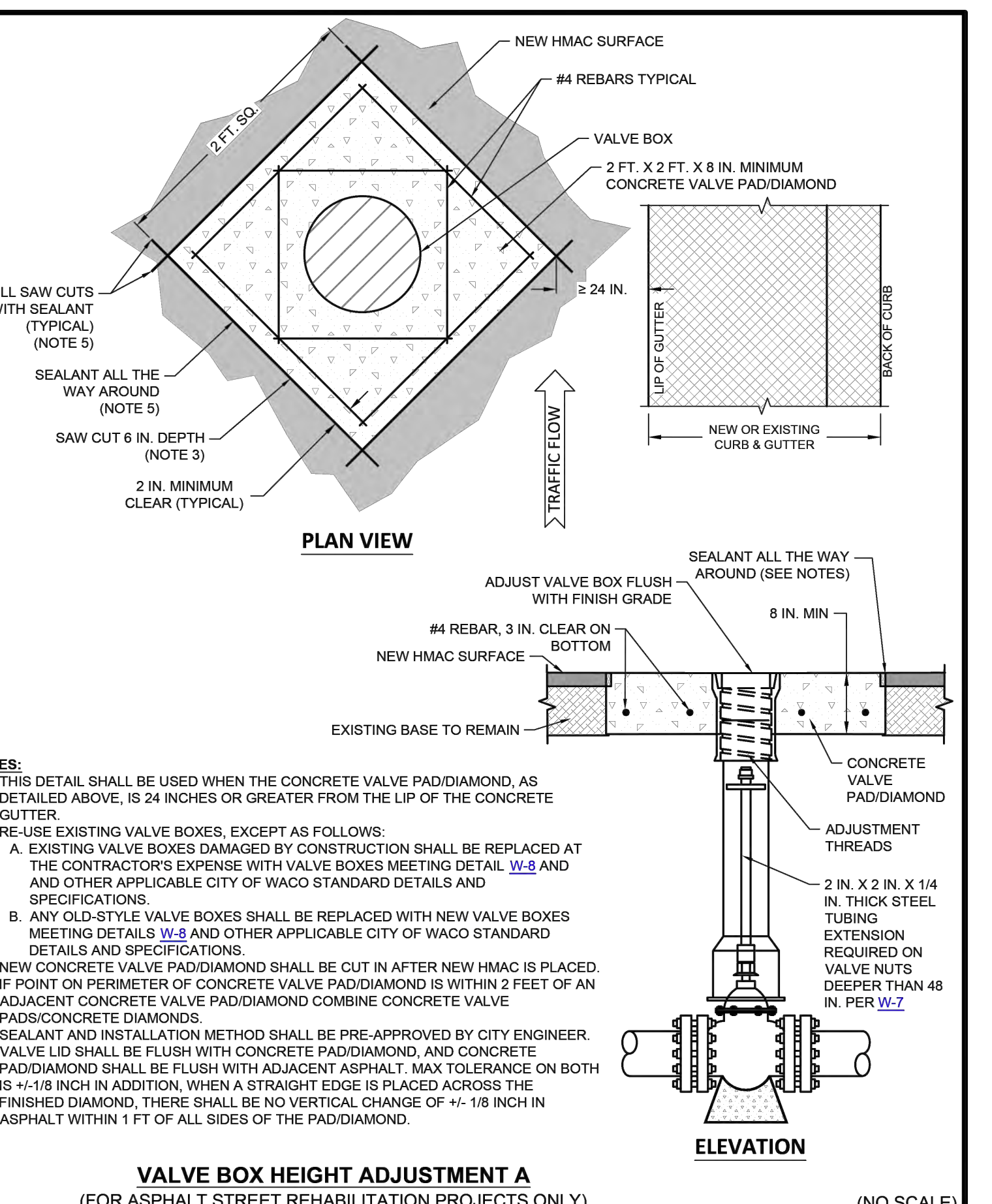
DATE: 8/25/2021
W-1



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

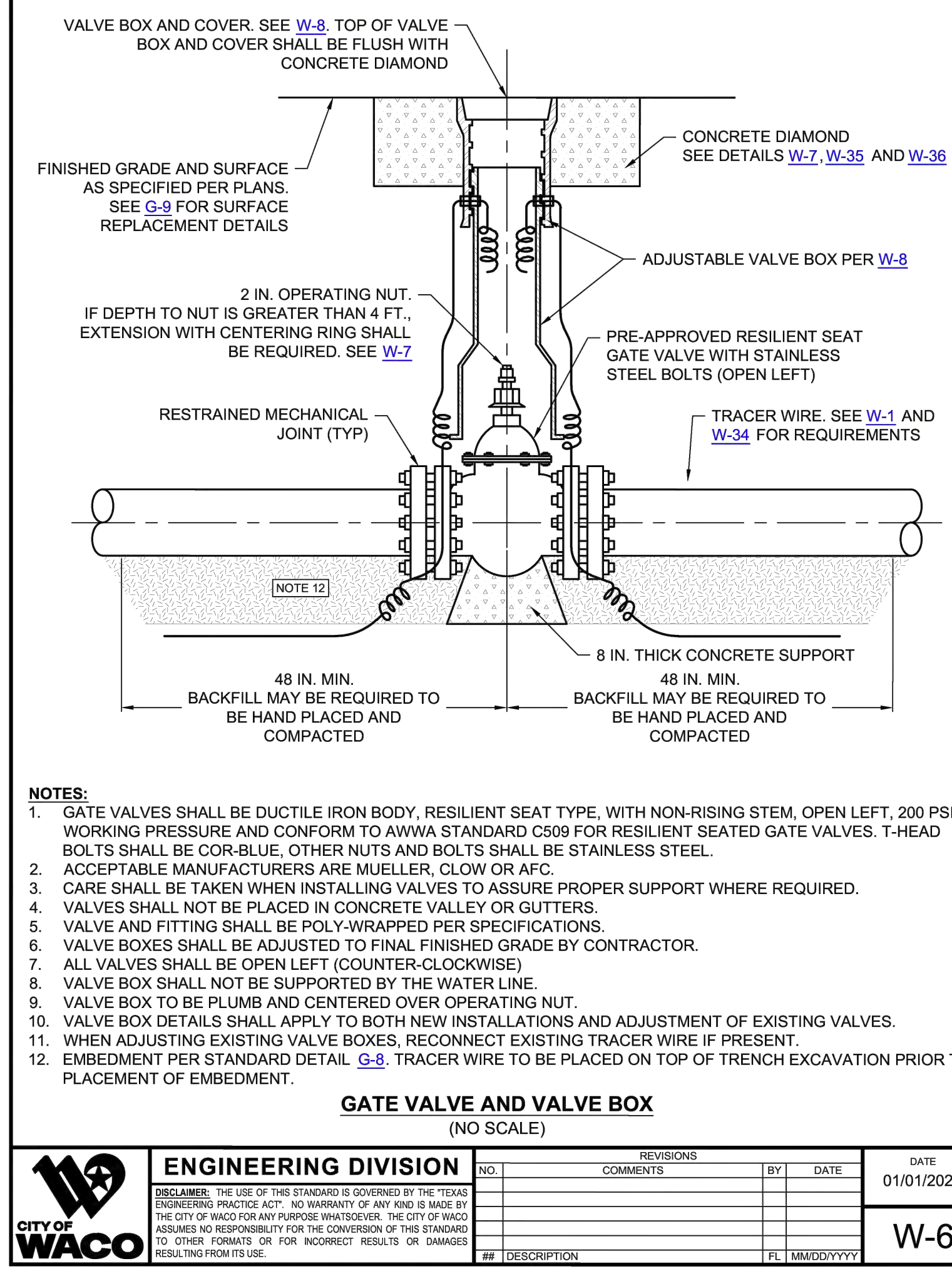
DATE: 01/01/2024
W-34



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

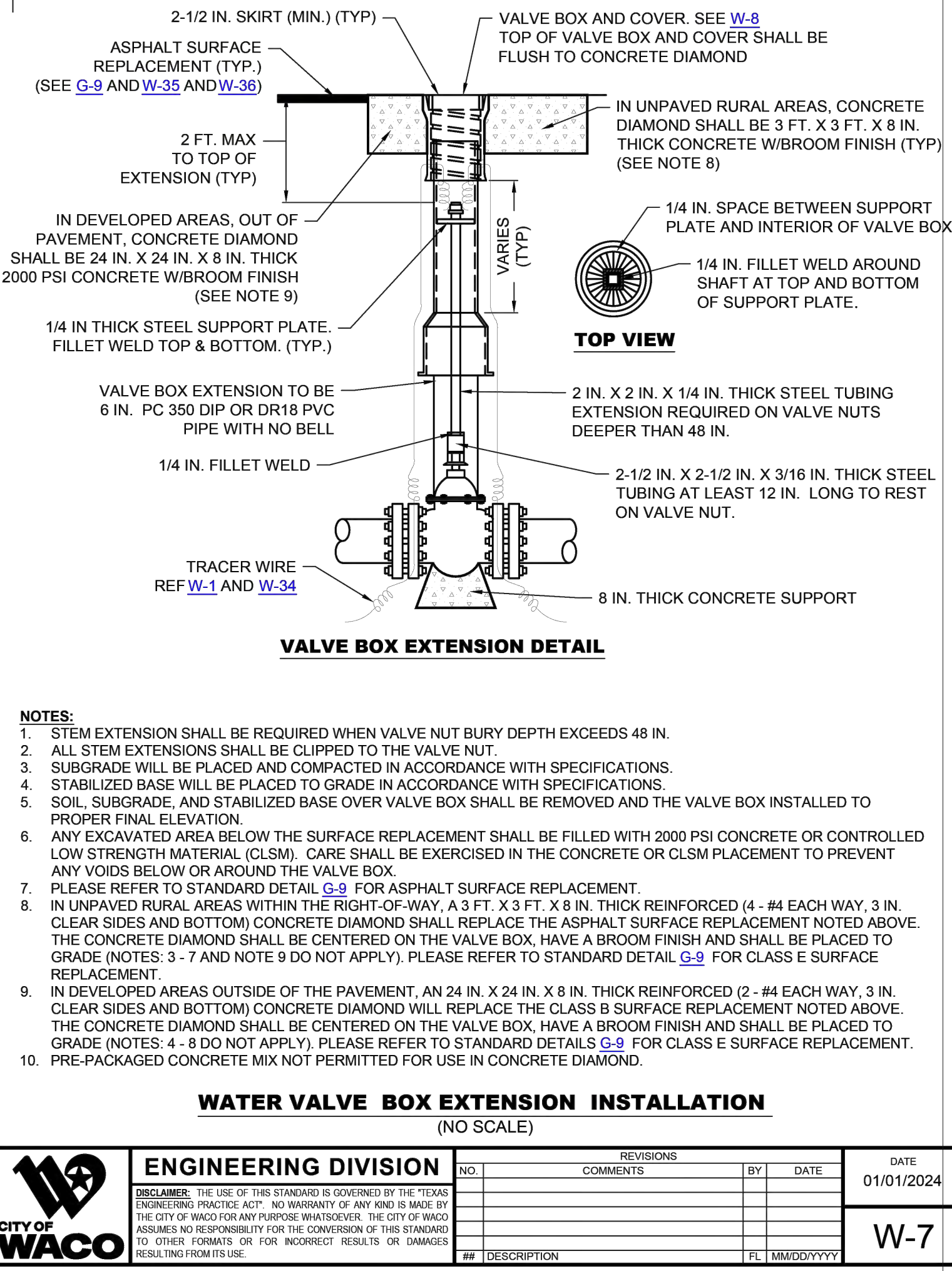
DATE: 01/01/2024
W-35



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

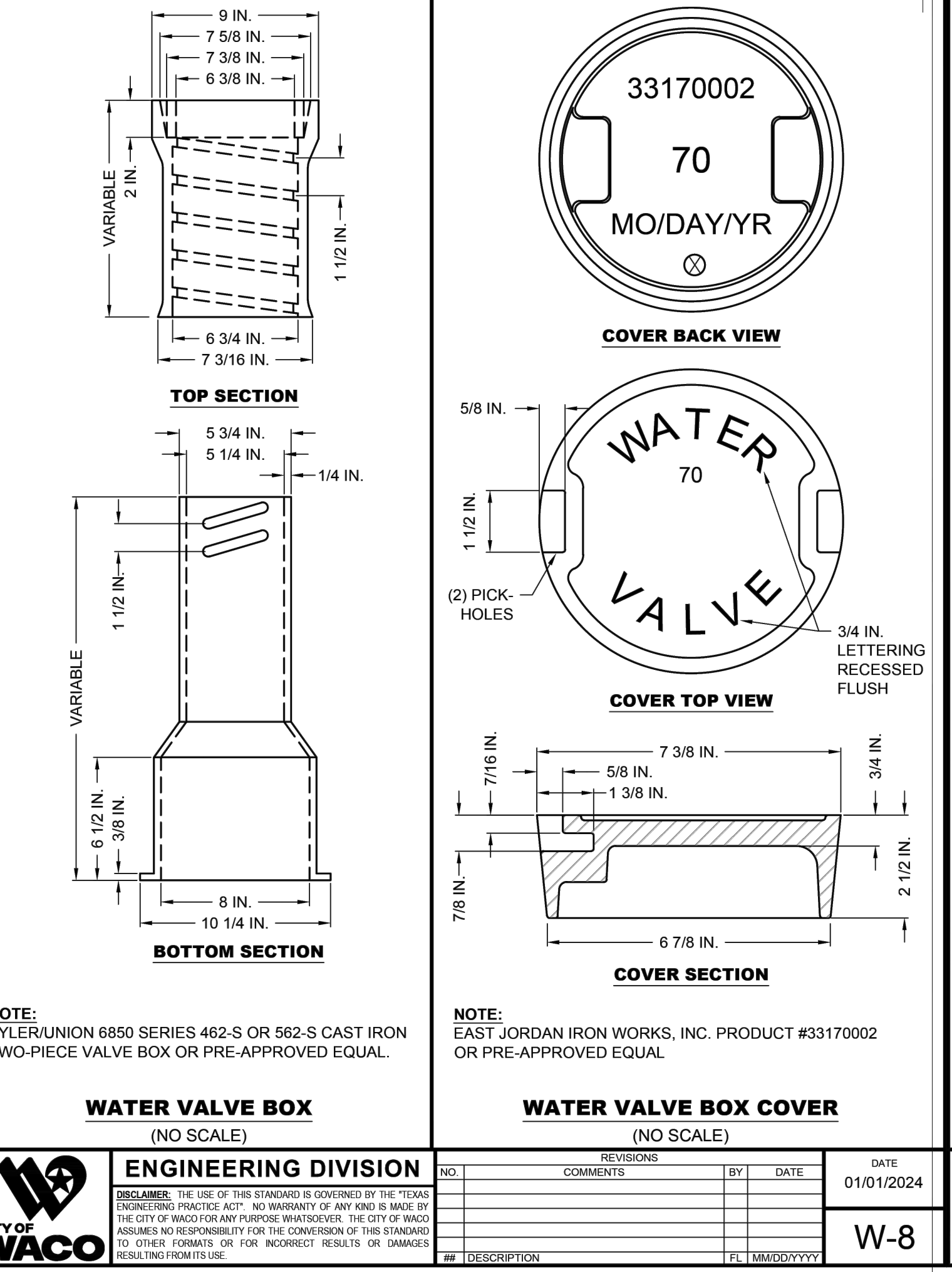
DATE: 01/01/2024
W-6



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

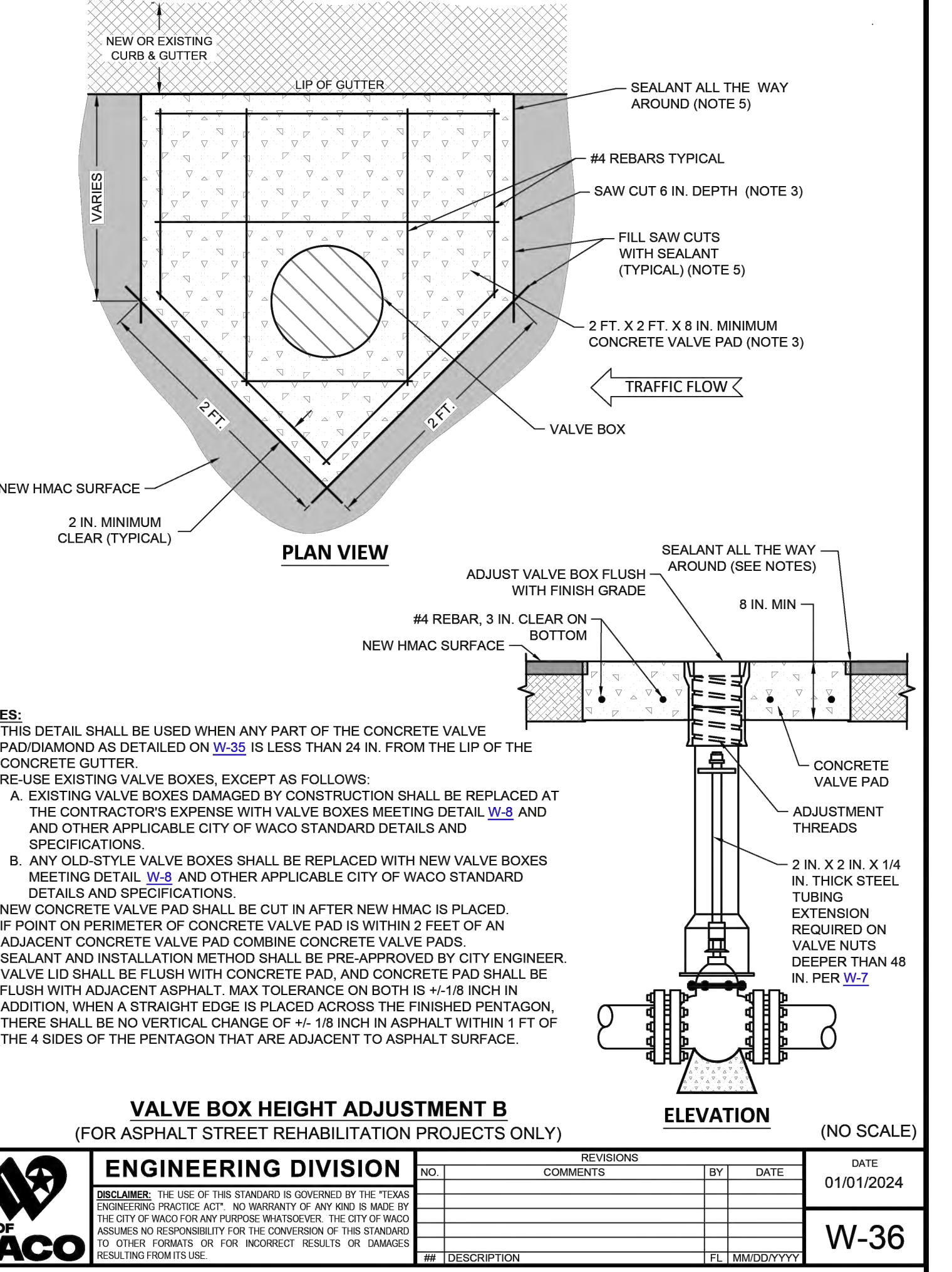
DATE: 01/01/2024
W-7



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

DATE: 01/01/2024
W-8



ENGINEERING DIVISION

NO.	REVISIONS	COMMENTS	BY	DATE
1				01/01/2024

DATE: 01/01/2024
W-36

© TURLEY ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF TURLEY ASSOCIATES, INC. AND MUST BE SURRENDERED UPON REQUEST. THE INFORMATION THEREON MAY NOT BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF TURLEY ASSOCIATES, INC.

DATE: 3/27/2024
DESCRIPTION: Utility Details 1
DFT: TURLEY ASSOCIATES, INC. WWW.TURLEY-INC.COM 254-773-2400 301 N. 3RD ST. TEMPLE, TEXAS 76501 ENGINEERING FIRM NO. 1658 SURVEY FIRM NO. 10194869

DRAFTSMAN: LJC
DESIGNER: MEB
ENGINEER: [Signature]

STATE OF TEXAS
WILLIAM J. SISCO
12312
PROFESSIONAL ENGINEER

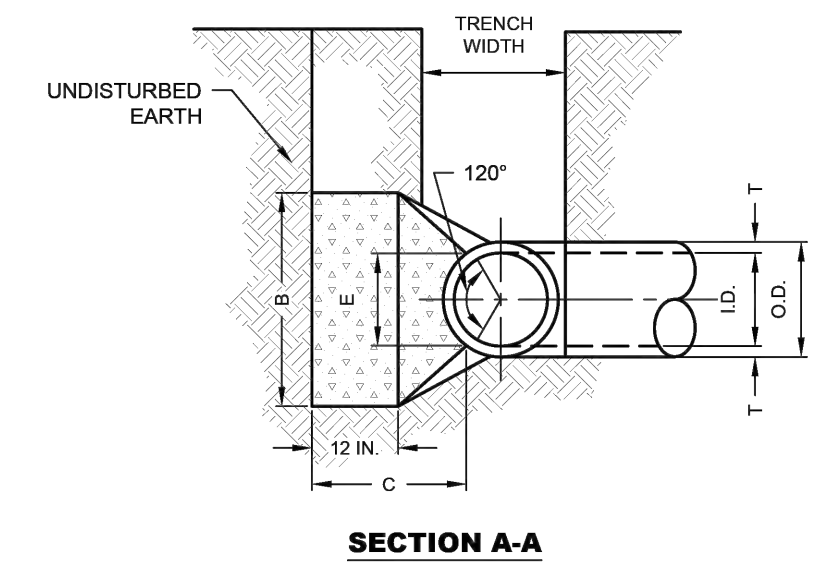
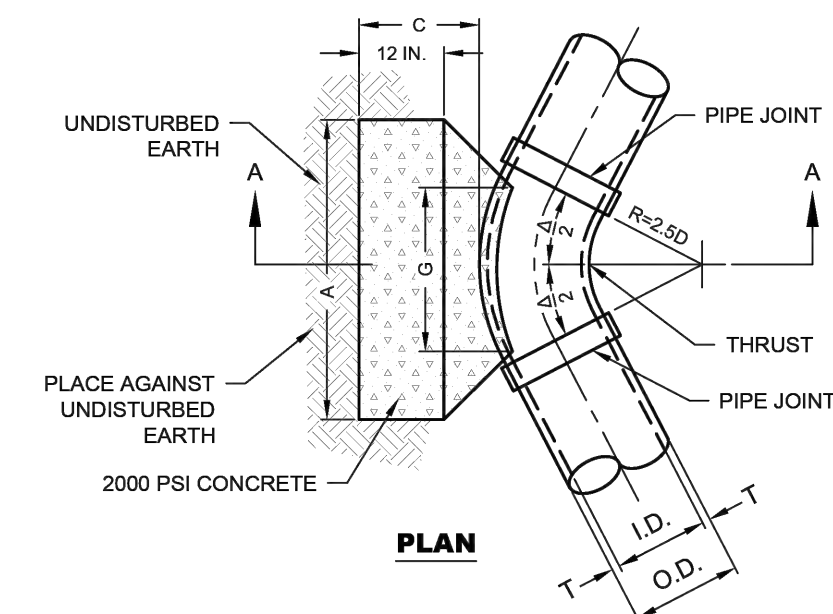
PROJECT: CEFCO BRUCEVILLE-EDDY, TEXAS
FILE NAME: 23-132 SDP.dwg
REF. DWG(S):

TITLE: Utility Details 1
JOB#: 23-132
PAGE#: 34

GENERAL NOTES:

- SEE W-1 AND W-4 FOR ADDITIONAL GENERAL NOTES.
- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24 IN. I.D. PIPE AND SMALLER AND 150 PSI ON 30 IN. AND LARGER.
- VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (4000 LB/C.Y.) IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND.
- CONCRETE FOR ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
- WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
- CONCRETE FOR BLOCKING SHALL BE 2000 PSI CONCRETE.
- DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT A LISTING OF ALL MATERIALS TO BE USED. NO WORK SHALL BE UNDERTAKEN PRIOR TO WRITTEN APPROVAL OF THE MATERIAL LIST BY THE CITY PUBLIC WORKS DEPARTMENT.
- CONCRETE SHALL NOT EXTEND BEYOND JOINTS.
- USE 6 MIL POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BENDS TO PREVENT CONCRETE FROM STICKING TO BENDS.
- PRE-PACKAGED CONCRETE MIX OR EQUIVALENT WILL ONLY BE APPROVED ON LINES 12 IN. AND SMALLER DIAMETER WITH JOINT RESTRAINTS.

- VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE WILL BE PERMITTED FOR THRUST BLOCKS.
- SUBMITTALS OF MIX OR PRODUCT MUST BE PROVIDED.
- FOR NON-PLANT BATCHED CONCRETE FOR THRUST BLOCK LOCATIONS OF 2 CY OR LESS, MATERIAL SAMPLING AND TESTING FOR COMPRESSIVE STRENGTH WILL BE REQUIRED AT COST OF DEVELOPER'S CONTRACTOR. A MINIMUM OF ONCE PER FIRST USE ON PROJECT AND AS REQUIRED BY THE ENGINEERING INSPECTOR.
- LOCATIONS WITH QUANTITIES GREATER THAN 2 CY SHALL BE PLACED WITH EITHER PLANT BATCHED CONCRETE DELIVERED BY CONCRETE MIXING TRUCK(S) OR VOLUMETRIC CONCRETE MIXER TRUCK CONCRETE.



I.D. (IN.)	T (IN.)	C FT	C FT	E FT.	I.D. (IN.)
4.6, 8	0.4	1.5	1.5	0.9	4.6, 8
10, 12	0.5	1.5	1.5	1.2	10, 12
16, 18	0.6	1.5	1.5	1.6	16, 18
20	0.4	1.5	1.5	1.8	20
24	0.9	1.5	1.5	2.1	24
30	2.9	1.5	1.9	2.6	30
36	4.5	1.5	2.3	3.3	36
42	5.0	1.8	2.6	3.8	42
48	5.5	2.0	3.0	4.3	48
54	6.0	2.3	3.4	4.8	54
60	6.5	2.5	3.8	5.3	60
66	6.8	2.8	4.1	5.7	66
72	7.5	3.0	4.5	6.3	72
78	7.5	3.3	4.9	6.7	78
84	8.0	3.5	5.3	7.2	84
90	8.5	3.8	5.6	7.7	90
96	9.0	4.0	6.0	8.2	96

SEE W-3A FOR GENERAL NOTES

GENERAL NOTES: THRUST BLOCKS

	ENGINEERING DIVISION	NO.	REVISIONS	BY	DATE
	DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCOMPLETE, INACCURATE, OR DAMAGED RESULTS FROM ITS USE.	FL	MMDDYYYY		
	DESCRIPTION	FL	MMDDYYYY		

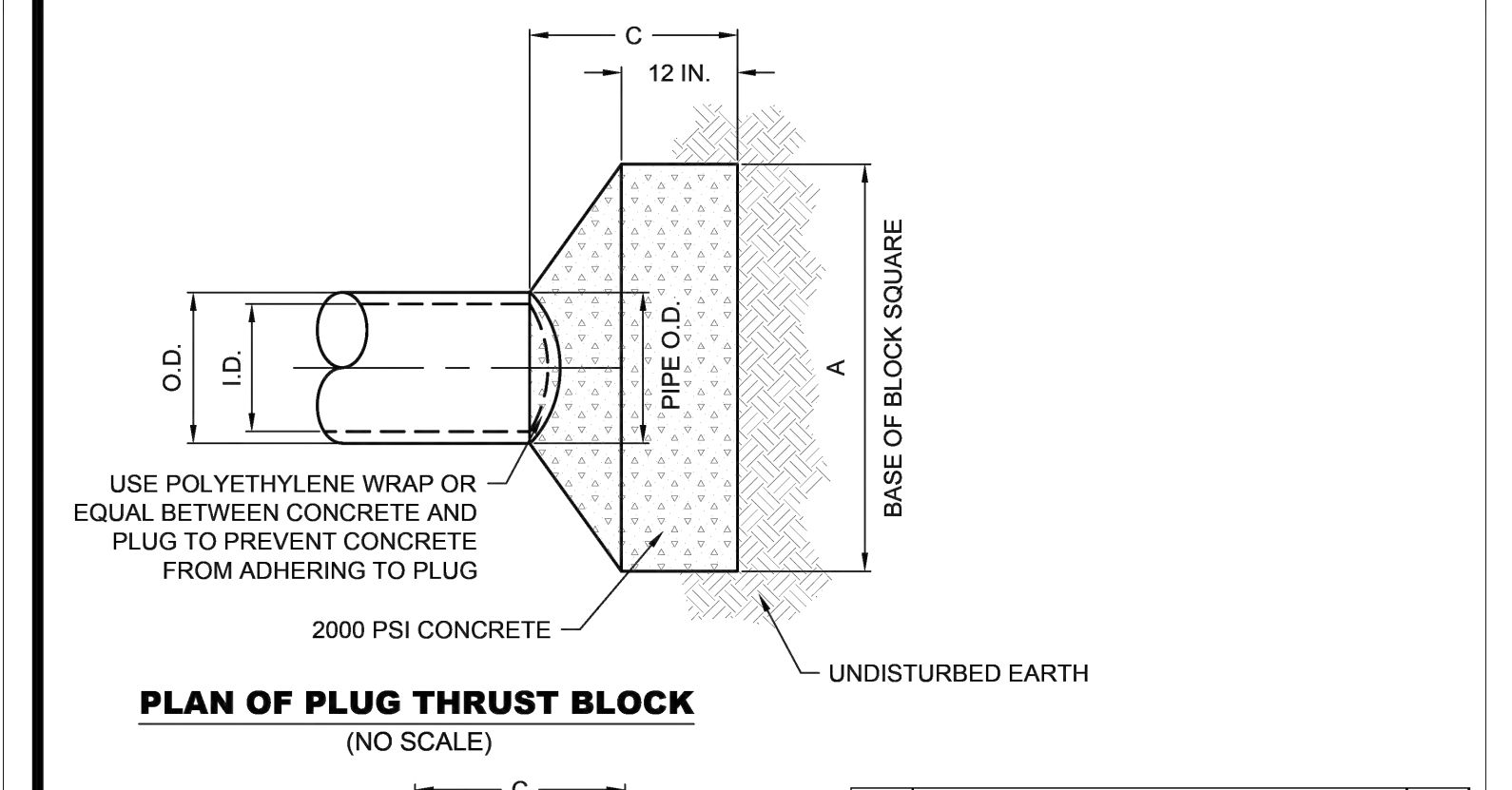
	ENGINEERING DIVISION	NO.	REVISIONS	BY	DATE
	DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCOMPLETE, INACCURATE, OR DAMAGED RESULTS FROM ITS USE.	FL	MMDDYYYY		
	DESCRIPTION	FL	MMDDYYYY		

TYPICAL HORIZONTAL THRUST BLOCK (NO SCALE) SEE W-3C FOR ADDITIONAL DETAILS

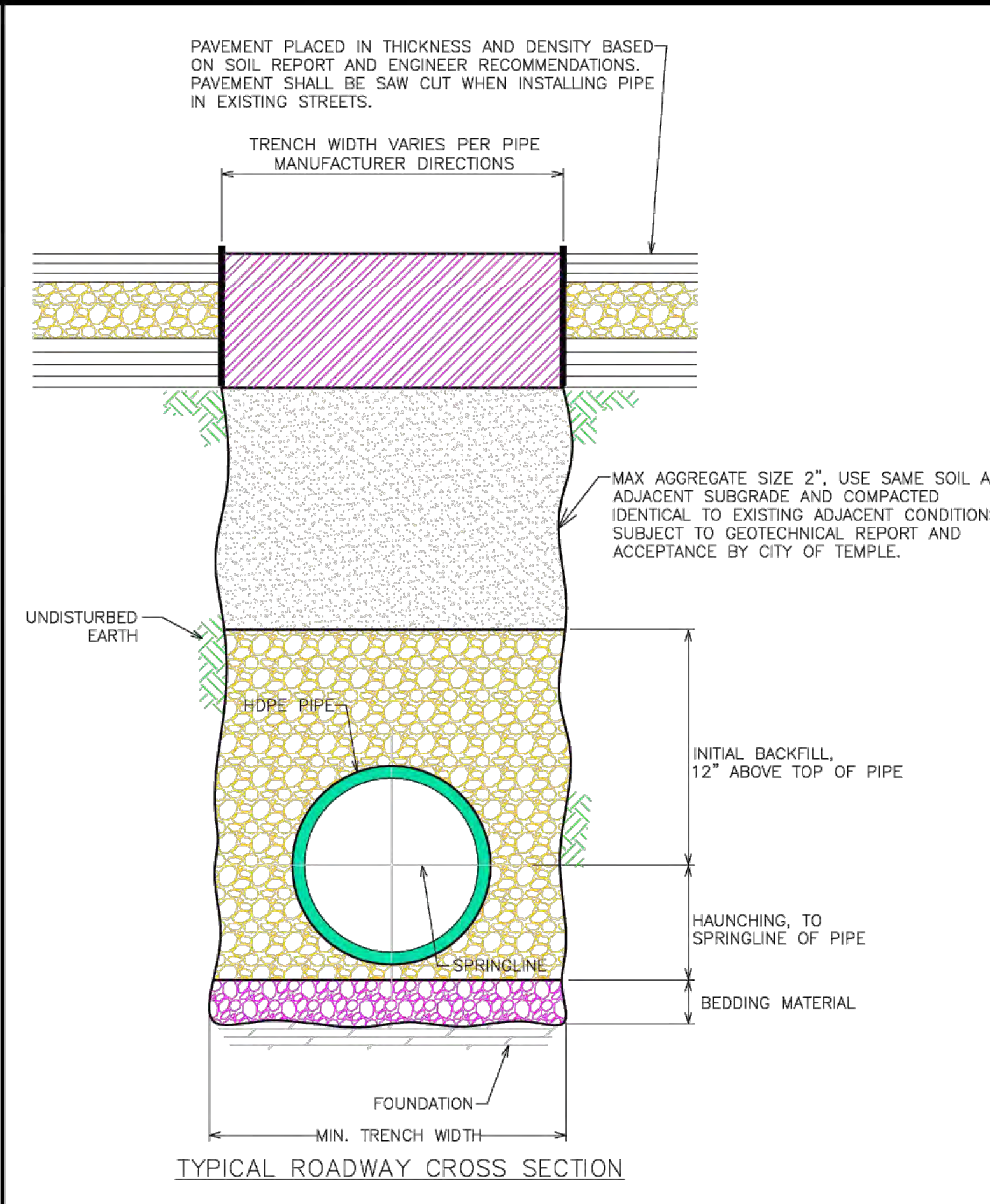
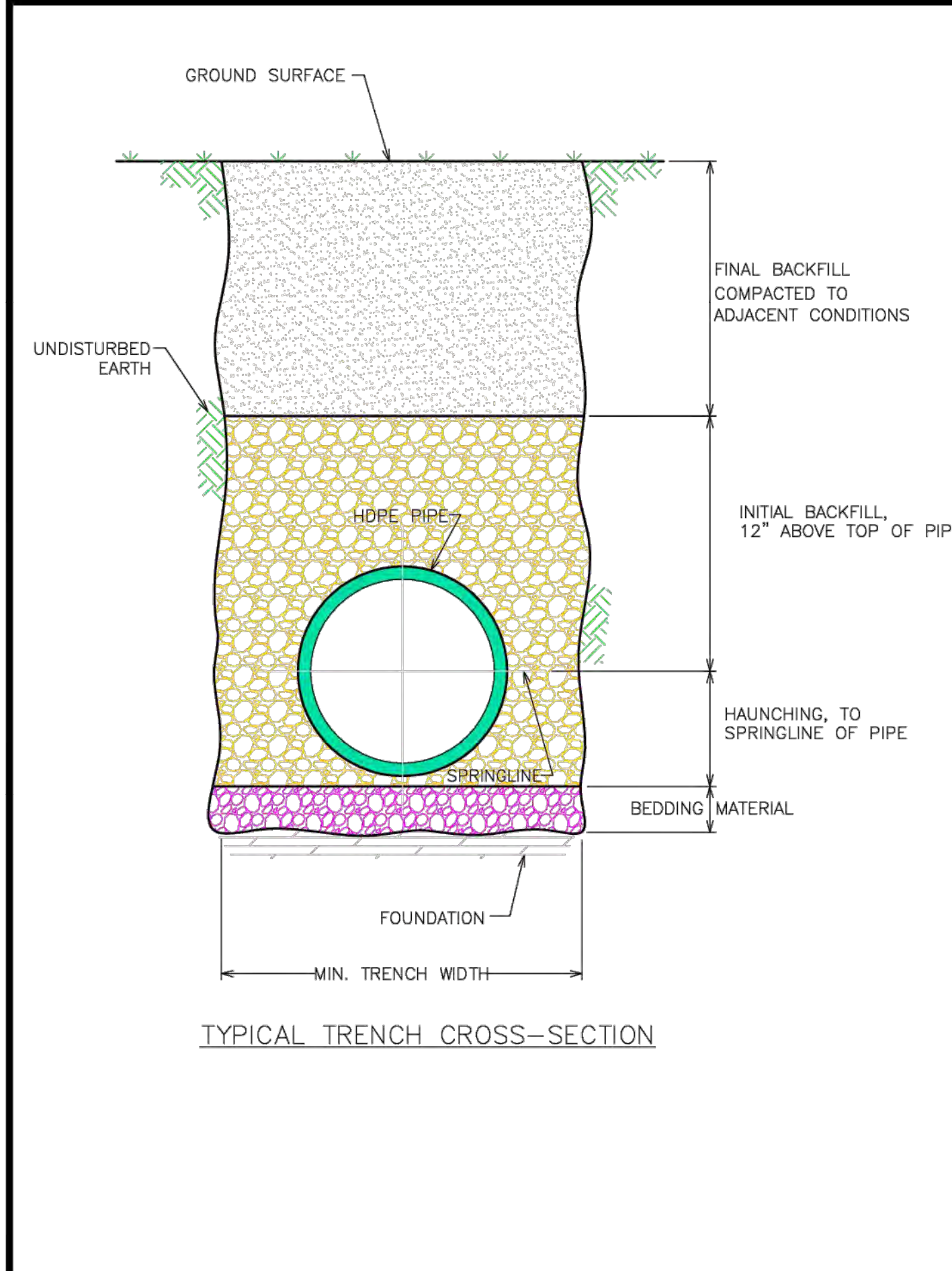
Δ = 11.25°										Δ = 22.50°																
EARTH					ROCK					EARTH					ROCK											
I.D. (IN.)	THRUST (G.F.T.)	THRUST (TONS)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	I.D. (IN.)	THRUST (G.F.T.)	THRUST (TONS)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	I.D. (IN.)	THRUST (G.F.T.)	THRUST (TONS)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)			
4.6, 8	0.4	1.0	1.0	1.5	0.1	1.0	1.0	0.1	4.6, 8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1	4.6, 8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1
10, 12	0.6	2.2	1.5	1.5	0.1	1.0	1.0	0.1	10, 12	1.1	4.4	2.0	2.0	0.3	1.5	1.5	0.1	10, 12	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
16, 18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	0.2	16, 18	1.6	9.9	2.0	3.5	0.6	2.0	2.5	0.3	16, 18	2.0	11.2	2.0	3.5	0.5	2.0	2.5	0.3
20	0.9	6.2	2.0	3.5	0.4	1.5	3.0	0.3	20	1.8	12.6	3.5	3.5	0.7	2.0	3.5	0.4	20	2.4	14.1	3.0	4.0	0.5	2.4	3.0	0.5
24	1.1	9.9	3.0	3.0	0.5	1.5	3.0	0.3	24	2.2	17.7	4.0	4.5	1.0	3.0	3.0	0.5	24	3.0	18.8	4.0	4.5	1.0	3.0	3.0	0.5
30	1.4	16.4	3.0	4.5	0.6	2.0	3.5	0.4	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8	30	3.6	22.9	5.0	4.5	1.5	3.0	4.0	0.8
36	1.7	15.0	3.5	5.0	0.9	2.0	4.0	0.5	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3	36	4.4	26.5	6.0	5.5	2.3	4.0	4.0	1.3
42	1.9	20.4	4.5	6.0	1.5	2.5	5.0	0.8	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1	42	5.0	36.2	7.0	6.0	3.9	4.5	5.0	2.1
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	1.1	48	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8	48	5.8	48.9	8.0	7.0	5.7	4.5	6.0	2.8
54	2.5	33.7	6.0	7.0	3.0	3.0	8.0	1.4	54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1	54	6.4	61.0	9.0	8.0	8.0	6.0	6.0	4.1
60	2.7	41.6	6.0	8.0	3.0	3.0	7.0	1.8	60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3	60	7.2	75.0	9.5	9.0	10.6	6.0	7.0	5.3
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	2.7	66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2	66	8.0	92.3	10.5	10.0	14.1	6.5	8.0	7.2
72	3.3	59.9	7.5	9.0	6.3	4.0	8.0	3.3	72	6.6	119.1	11.0	11.0	17.6	7.5	9.0	9.1	72	8.6	111.0	11.0	11.0	17.6	7.5	9.0	9.1
78	3.6	69.2	8.0	10.0	8.1	4.0	9.0	3.9	78	7.1	138.8	12.0	12.0	22.5	8.0	9.0	11.7	78	9.2	130.0	12.0	12.0	22.5	8.0	9.0	11.7
84	3.9	81.5	8.5	10.0	10.3	4.5	10.0	5.3	84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.8	84	9.8	158.0	13.0	12.5	27.2	8.5	10.0	14.8
90	4.1	95.5	9.5	10.0	12.2	5.0	10.0	6.3	90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7	90	10.2	184.0	14.0	13.5	33.7	9.5	10.0	17.7
96	4.4	108.4	10.0	11.0	15.0	5.0	11.0	7.4	96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8	96	10.6	210.0	15.0	14.5	41.2	10.0	11.0	21.8

Δ = 30°										Δ = 45°																
EARTH					ROCK					EARTH					ROCK											
I.D. (IN.)	THRUST (G.F.T.)	THRUST (TONS)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	I.D. (IN.)	THRUST (G.F.T.)	THRUST (TONS)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)	I.D. (IN.)	THRUST (G.F.T.)	THRUST (TONS)	AFT. (FT.)	B.F.T. (FT.)	VOLUME (C.Y.)			
4.6, 8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1	4.6, 8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1	4.6, 8	2.0	5.2	2.0	2.0	0.2	2.0	2.5	0.2
10, 12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10, 12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3	10, 12	3.0	11.8	3.5	3.5	0.5	3.0	3.5	0.5
16, 18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4	16, 18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6	16, 18	4.0	26.6	4.5	4.5	1.2	3.0	3.5	0.6
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.7	20	4.4	32.2	5.5	4.5	1.5	3.5	3.5	0.7
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	6.0	4.5	2.3	4.5	4.0	1.1	24	5.4	44.4	6.0	4.5	2.3	4.5	4.0	1.1
30	3.6	27.5	5.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6	30	6.6	53.9	8.5	5.0	3.2	5.5	4.0	1.6
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6	36	8.0	75.0	10.0	6.0	5.3	6.5	4.5	2.6
42	5.0	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2	42	9.2	104.0	11.5	7.0	8.1	8.0	5.0	4.2
48	5.8	70.3	9.0	7.4	6.0	6.0	3.7	4.8	8.6	104.0	13.0	8.0	8.1	9.0	6.0	6.3	4.8	48	10.6	133.0	13.0	8.0	8.1	9.0	6.0	6.3
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	11.1	10.5	6.5	5.4	54	12.0	170.0	15.0	9.0	11.1	10.5	6.5	5.4
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	13.1	11.0	7.5	12.0	60	13.4	210.0	16.5	10.0	13.1	11.0	7.5	12.0
66	8.0	129.9	12.5	11.0	18.9	8.5	8.0	8.6	66	11.8	186.5	18.0	11.0	16.1	12.0	8.5	16.2	66	14.6	249.0	18.0	11.0	16.1	12.0	8.5	16.2
72	8.7	168.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	18.6	14.0	8.5	20.7	72	15.6	318.0	19.5	12.0	18.6	14.0	8.5	20.7
78	9.4	186.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	21.9	14.5	9.5	25.9	78	16.4	364.0	21.5	13.0	21.9	14.5	9.5	25.9
84	10.1	215.1	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	316.4	23.0	14.0	26.2	15.5	10.5	32.9	84	18.0	414.0	23.0	14.0	26.2	15.5	10.5	32.9
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	31.5	17.5	10.5	38.6	90	19.2	474.0	24.5	15.0	31.5	17.5	10.5	38.6
96	11.8	281.2	18.0	16.0	55.0	12.5	11.5	28.9	96	17.1	415.8	26.0	16.0	38.5	18.5	11.5	46.5	96	20.6	537.0	26.0	16.0	38.5	18.5	11.5	46.5

	ENGINEERING DIVISION	NO.	REVISIONS	BY	DATE
	DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCOMPLETE, INACCURATE, OR DAMAGED RESULTS FROM ITS USE.	FL	MMDDYYYY		
	DESCRIPTION	FL	MMDDYYYY		



TEES & PLUGS													
EARTH					ROCK								
I.D. (IN.)	THRUST (TONS)	C.F.T.	AFT. (FT.)	VOLUME (C.Y.)	I.D. (IN.)	THRUST (TONS)	C.F.T.	AFT. (FT.)	VOLUME (C.Y.)				
4.6, 8	1.1	1.5	2.5	0.3	2.0	0.2	4.6, 8	1.5	2.5	0.3	2.0	0.2	4.6, 8
10, 12	1.5	3.5	0.6	2.5	0.3	10, 12	2.0	5.0	0.6	3.0			

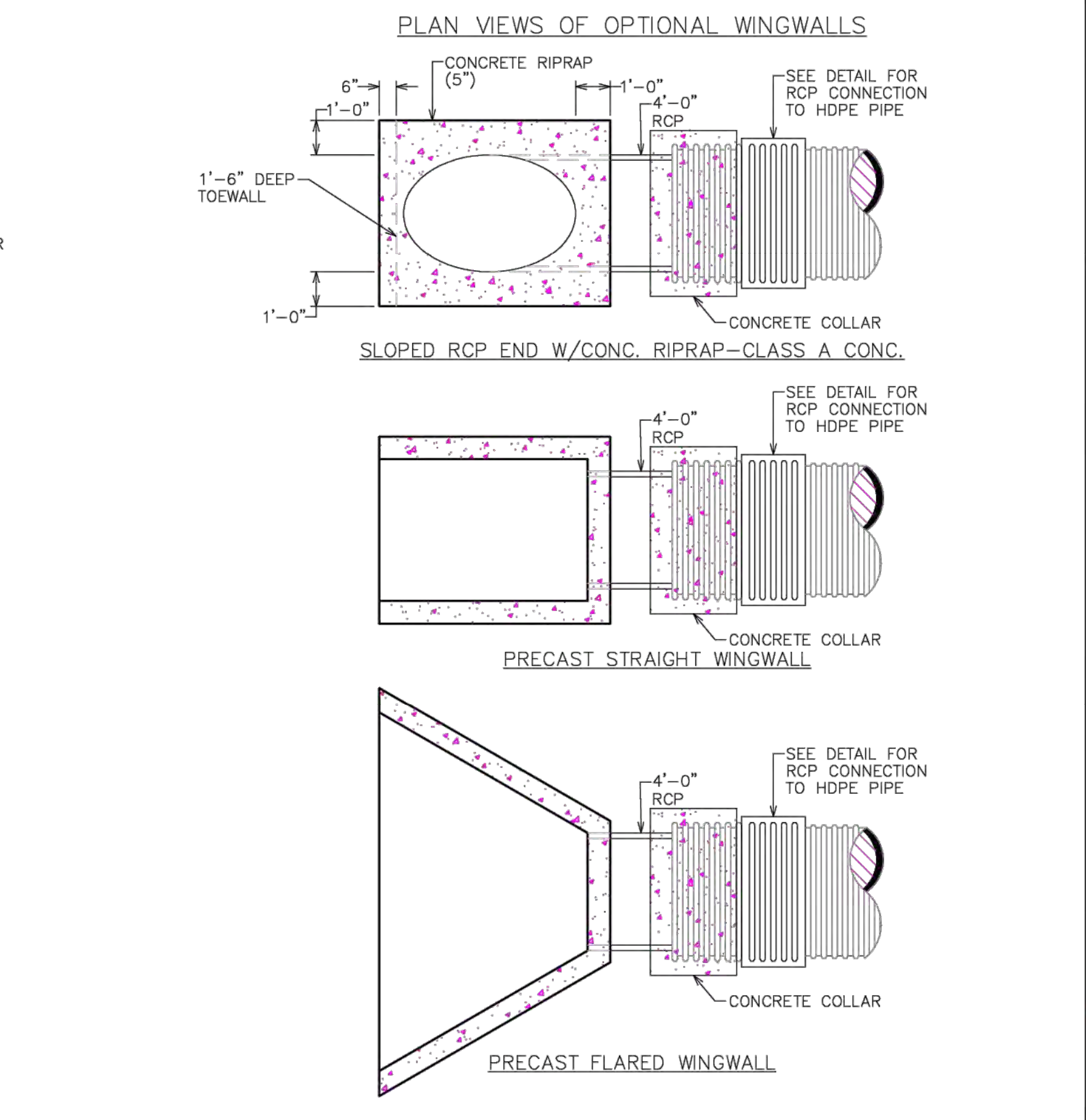
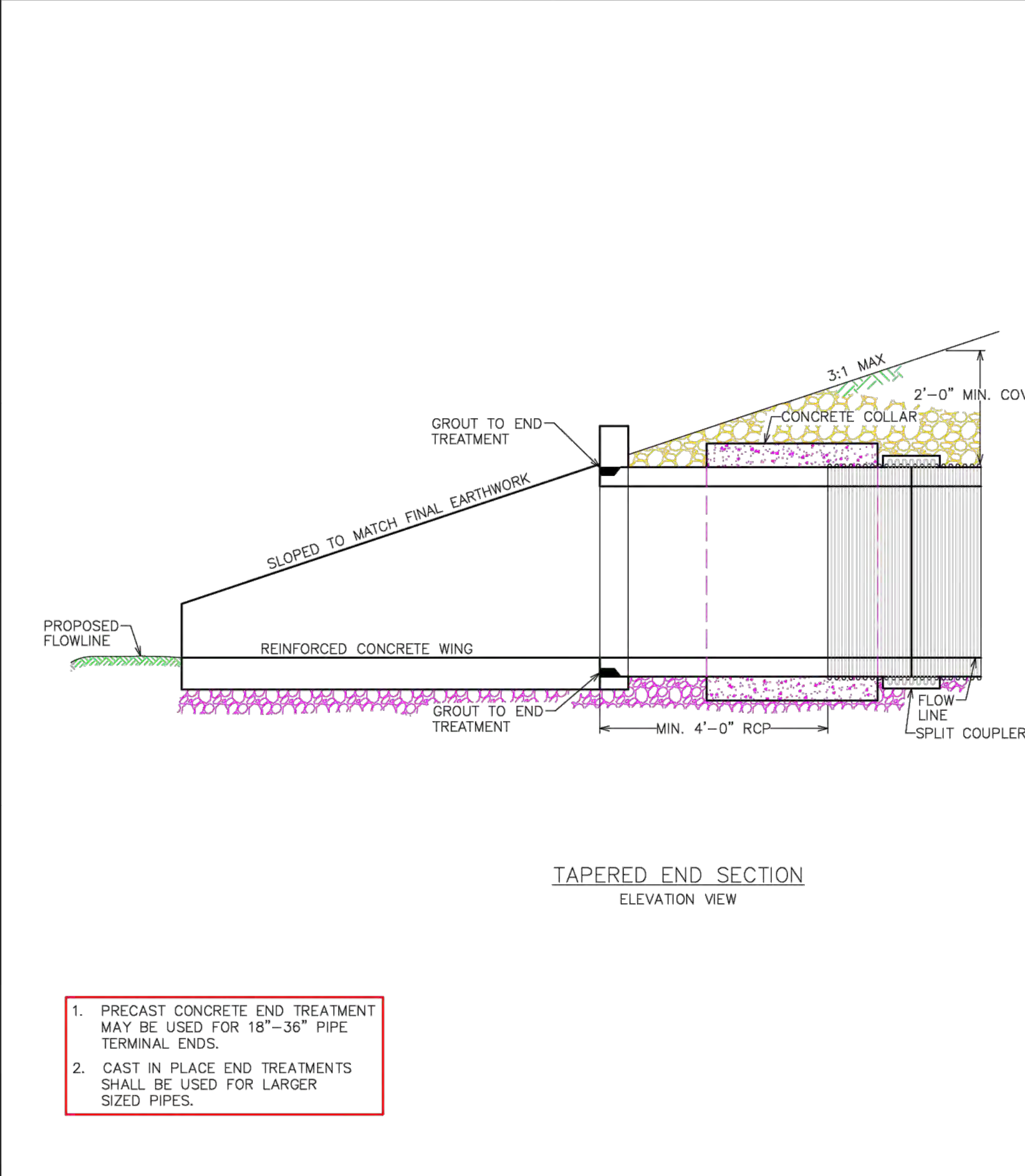
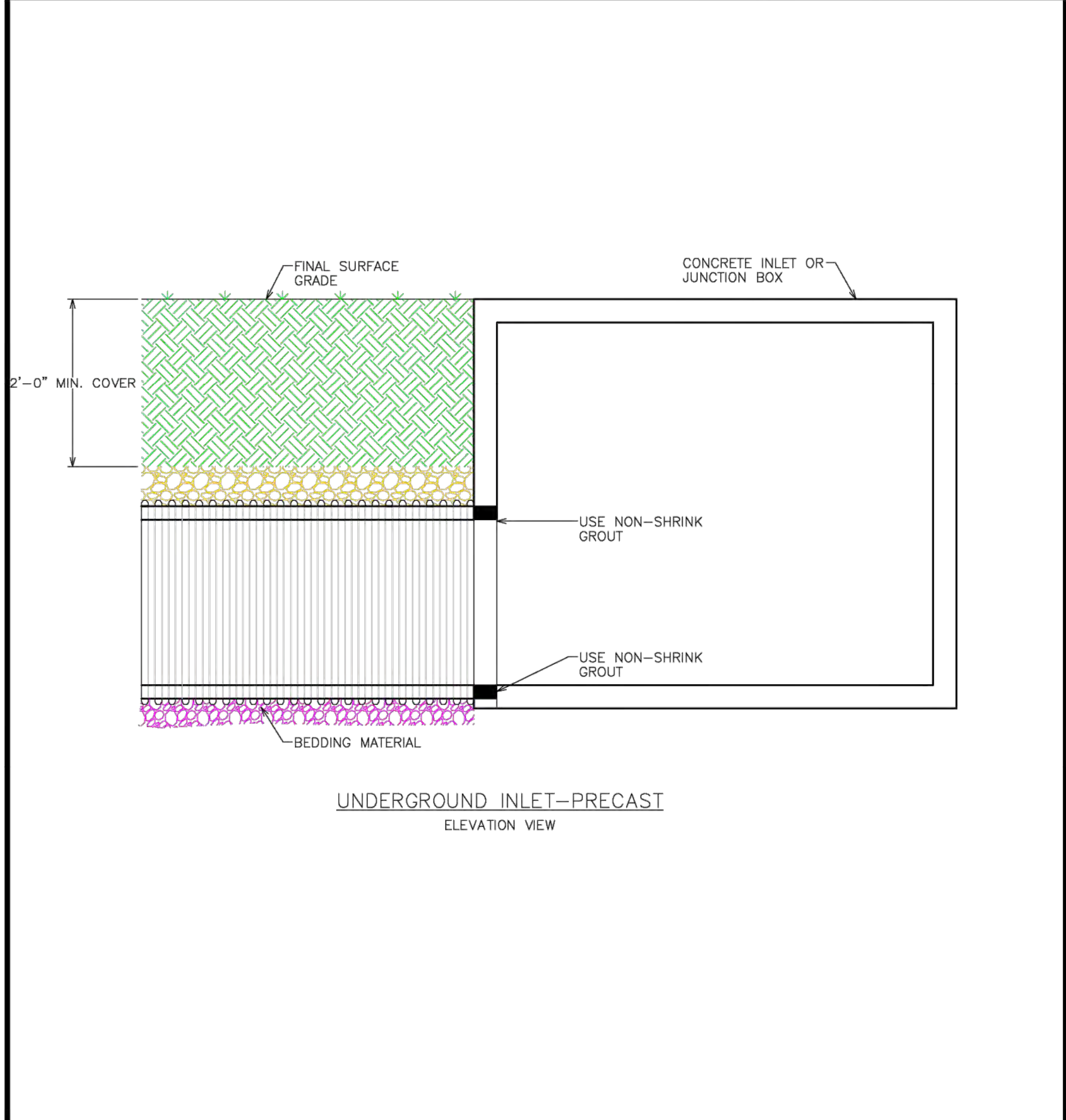
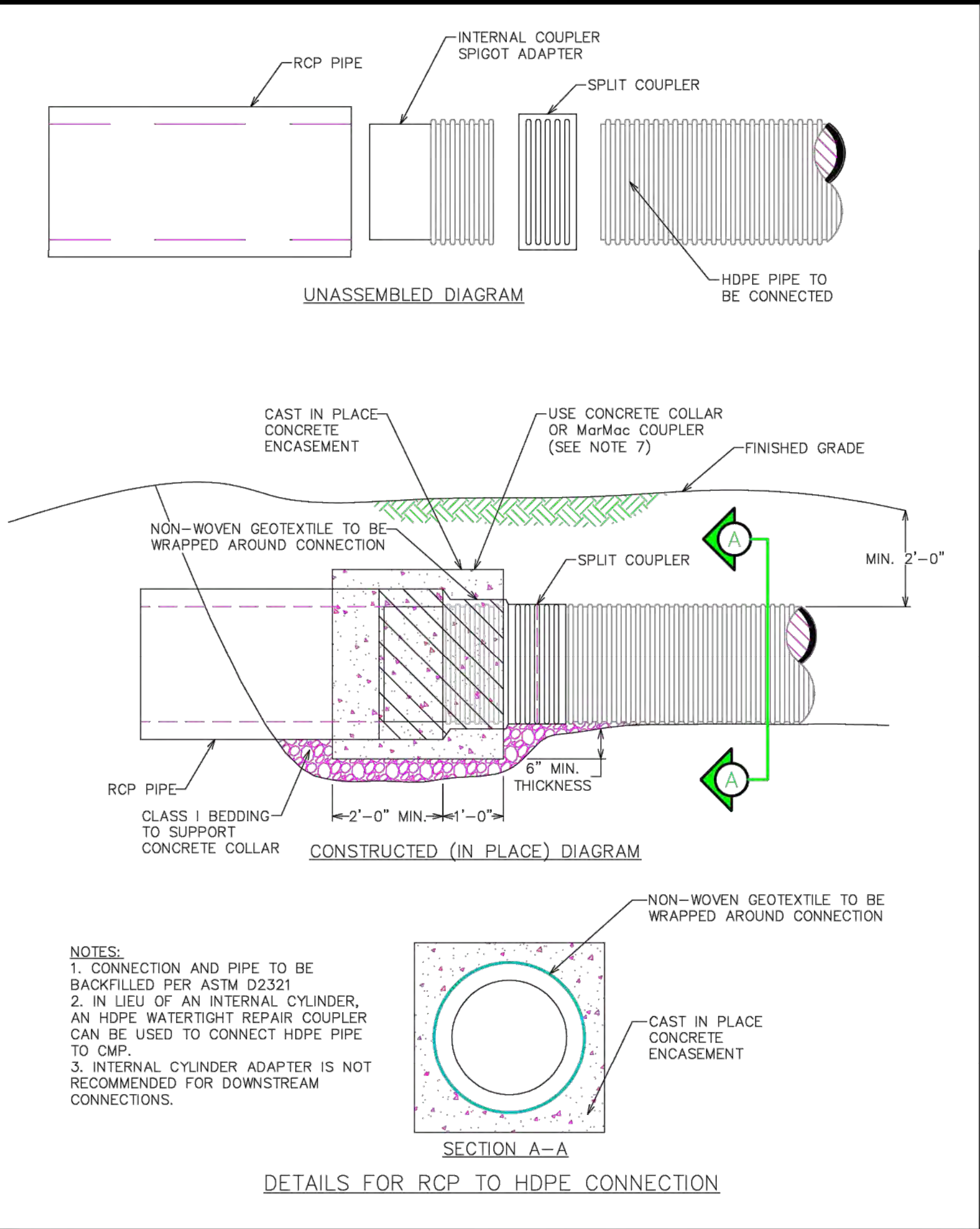


NOTES:

- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION, D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24" CORRUGATED POLYETHYLENE PIPE (CPEP); 6" FOR 30"-60" CPEP.
- HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

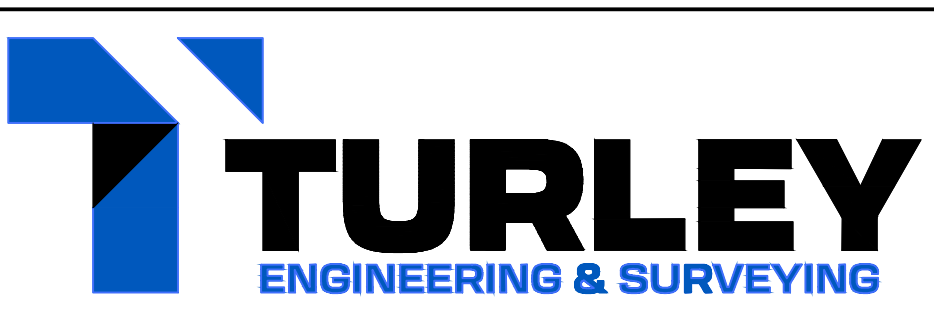
NOMINAL ϕ , in	MIN. TRENCH WIDTH, in
4	21
6	23
8	26
10	29
12	30
15	34
18	39
24	48
30	56
36	64
42	72
48	89
60	96

- MINIMUM COVER: MINIMUM SHALL BE 2'-0".
- BELL ENDS SHALL BE CUT OFF BEFORE BEING ASSEMBLED WITH SPLIT COUPLER.
- CONCRETE COLLAR SHALL BE CLASS A CONCRETE (TXDOT ITEM 421)

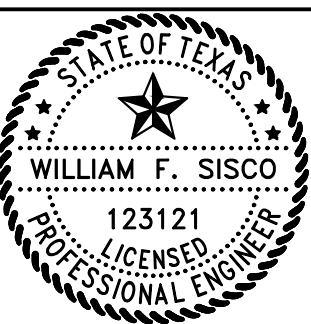


REVISIONS	DATE	DESCRIPTION	DFTR.

TURLEY ASSOCIATES, INC.
 WWW.TURLEY-INC.COM
 254-773-2400
 301 N. 3RD ST.
 TEMPLE, TEXAS 76501
 ENGINEERING FIRM NO. 1658
 SURVEY FIRM NO. 10194869



DRAFTSMAN: LJC
 DESIGNER: MEB
 ENGINEER: *[Signature]*
 DATE: 3/27/2024



PROJECT	CEFCO BRUCEVILLE-EDDY, TEXAS	TITLE	Storm Water Details 2
FILE NAME:	23-132 SDP.dwg	JOB#	23-132
REF. DWG(s):		PAGE#	38

BOX DATA													
SECTION DIMENSIONS					REINFORCING (sq. in. / ft.²)					Lift Weight (tons)			
S (ft.)	H (ft.)	TT (in.)	TB (in.)	TS (in.)	M (in.)	AS1	AS2	AS3	AS4		AS5	AS7	AS8
7	3	8	8	8	< 2	-	0.23	0.31	0.22	0.19	0.19	0.19	9.6
7	3	8	8	8	2 < 3	47	0.27	0.25	0.24	0.19	-	-	9.6
7	3	8	8	8	3-5	43	0.19	0.19	0.19	0.19	-	-	9.6
7	3	8	8	8	10	43	0.21	0.20	0.21	0.19	-	-	9.6
7	3	8	8	8	15	43	0.28	0.26	0.27	0.19	-	-	9.6
7	3	8	8	8	20	43	0.36	0.34	0.35	0.19	-	-	9.6
7	3	8	8	8	25	43	0.45	0.42	0.43	0.19	-	-	9.6
7	3	8	8	8	30	43	0.54	0.50	0.51	0.19	-	-	9.6
7	4	8	8	8	< 2	-	0.21	0.34	0.25	0.19	0.19	0.19	10.4
7	4	8	8	8	2 < 3	43	0.23	0.28	0.28	0.19	-	-	10.4
7	4	8	8	8	3-5	43	0.19	0.22	0.21	0.19	-	-	10.4
7	4	8	8	8	10	43	0.19	0.23	0.23	0.19	-	-	10.4
7	4	8	8	8	15	41	0.24	0.30	0.30	0.19	-	-	10.4
7	4	8	8	8	20	41	0.31	0.38	0.39	0.19	-	-	10.4
7	4	8	8	8	25	41	0.38	0.47	0.48	0.19	-	-	10.4
7	4	8	8	8	30	41	0.46	0.57	0.57	0.19	-	-	10.4
7	5	8	8	8	< 2	-	0.19	0.36	0.27	0.19	0.19	0.19	11.2
7	5	8	8	8	2 < 3	47	0.21	0.31	0.31	0.19	-	-	11.2
7	5	8	8	8	3-5	43	0.19	0.24	0.24	0.19	-	-	11.2
7	5	8	8	8	10	43	0.19	0.25	0.26	0.19	-	-	11.2
7	5	8	8	8	15	41	0.21	0.32	0.33	0.19	-	-	11.2
7	5	8	8	8	20	41	0.27	0.41	0.42	0.19	-	-	11.2
7	5	8	8	8	25	41	0.33	0.51	0.52	0.19	-	-	11.2
7	5	8	8	8	30	41	0.40	0.61	0.62	0.19	-	-	11.2
7	6	8	8	8	< 2	-	0.19	0.38	0.30	0.19	0.19	0.19	12.0
7	6	8	8	8	2 < 3	59	0.19	0.33	0.34	0.19	-	-	12.0
7	6	8	8	8	3-5	47	0.19	0.25	0.23	0.19	-	-	12.0
7	6	8	8	8	10	43	0.19	0.26	0.27	0.19	-	-	12.0
7	6	8	8	8	15	41	0.19	0.34	0.35	0.19	-	-	12.0
7	6	8	8	8	20	41	0.24	0.43	0.45	0.19	-	-	12.0
7	6	8	8	8	25	41	0.29	0.53	0.55	0.19	-	-	12.0
7	6	8	8	8	30	41	0.35	0.64	0.65	0.19	-	-	12.0
7	7	8	8	8	< 2	-	0.19	0.40	0.33	0.19	0.19	0.19	12.8
7	7	8	8	8	2 < 3	59	0.19	0.36	0.37	0.19	-	-	12.8
7	7	8	8	8	3-5	59	0.19	0.27	0.25	0.19	-	-	12.8
7	7	8	8	8	10	47	0.19	0.27	0.29	0.19	-	-	12.8
7	7	8	8	8	15	43	0.19	0.35	0.37	0.19	-	-	12.8
7	7	8	8	8	20	43	0.22	0.44	0.46	0.19	-	-	12.8
7	7	8	8	8	25	43	0.27	0.54	0.57	0.19	-	-	12.8
7	7	8	8	8	30	41	0.32	0.65	0.67	0.19	-	-	12.8

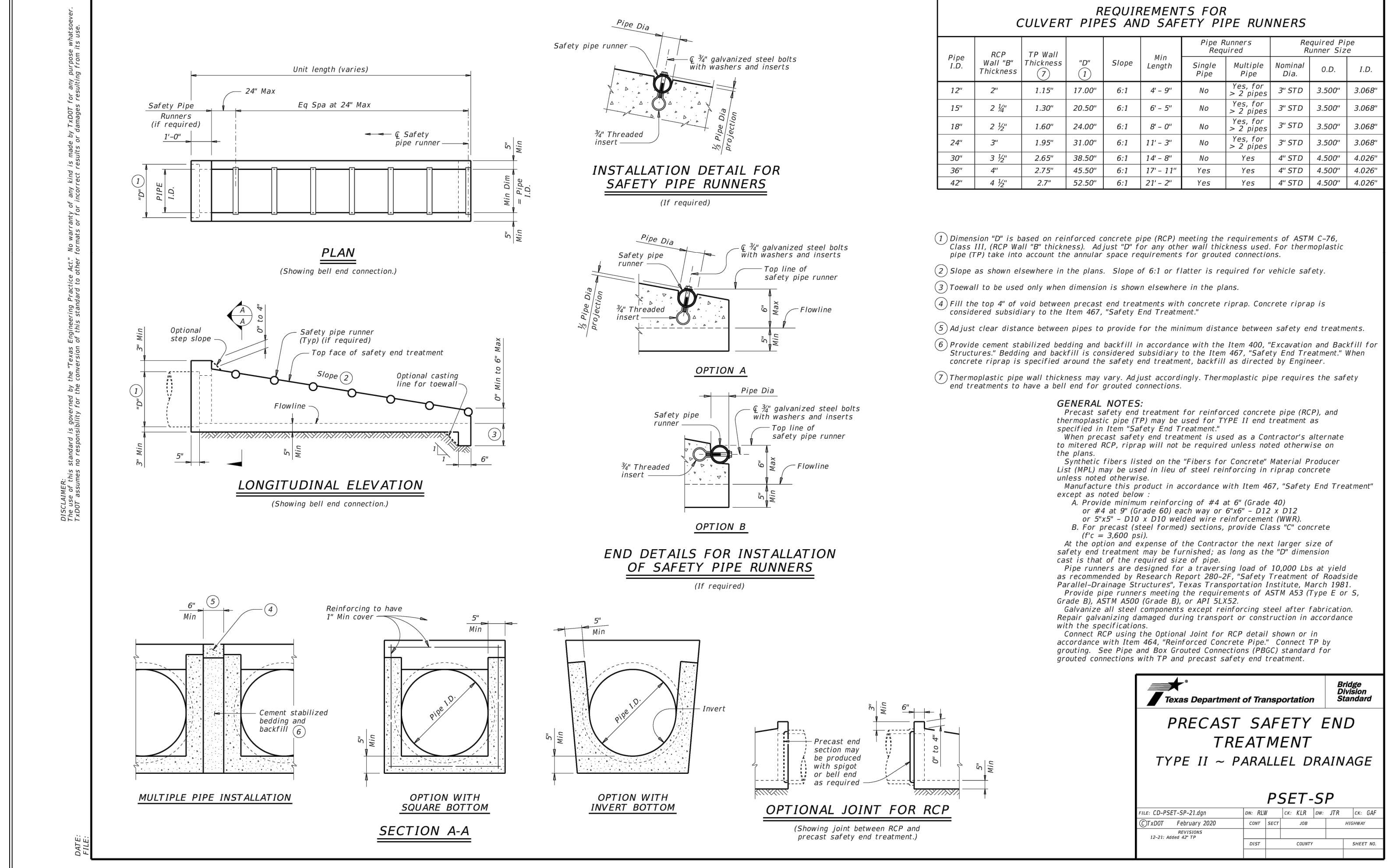
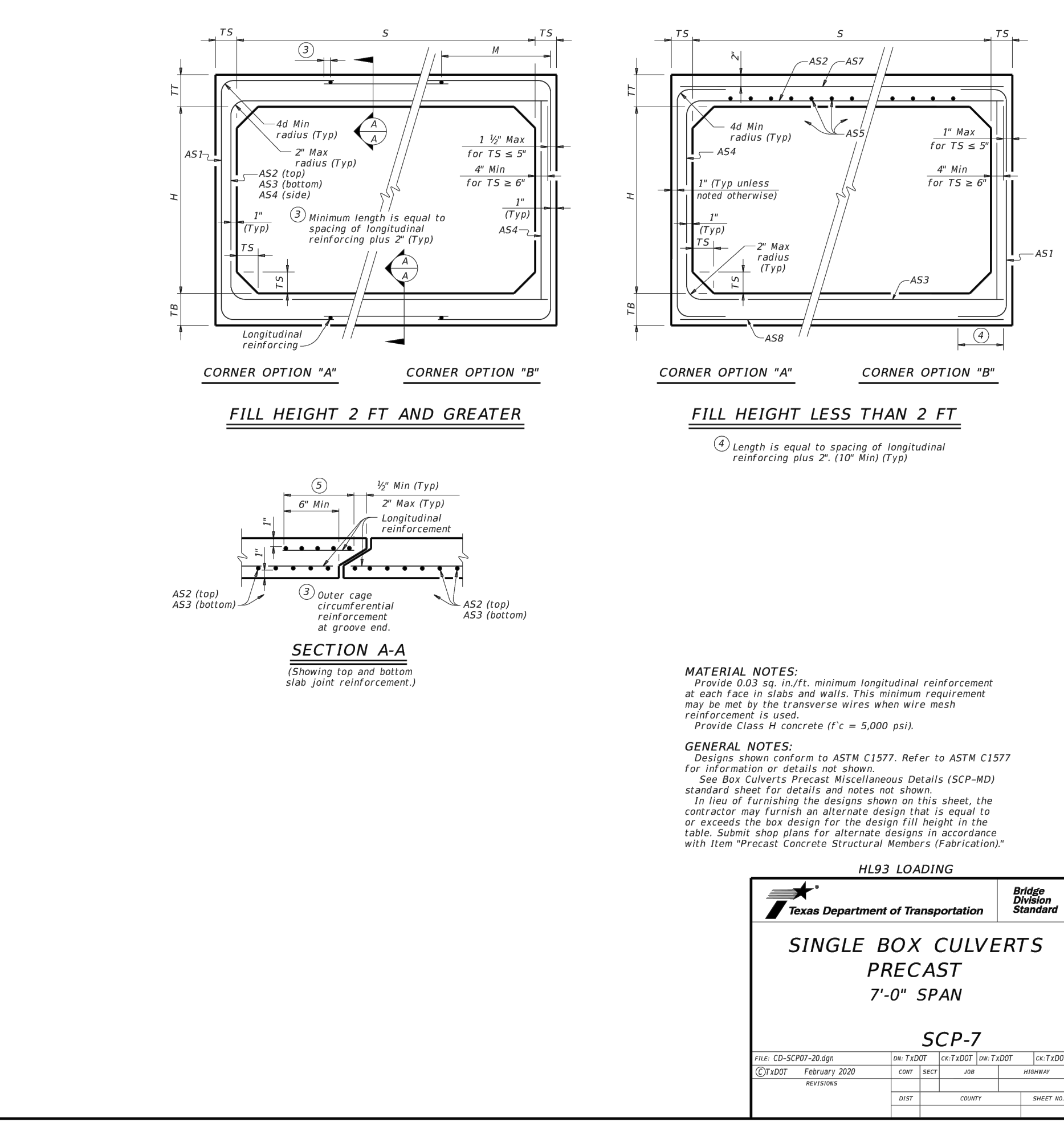
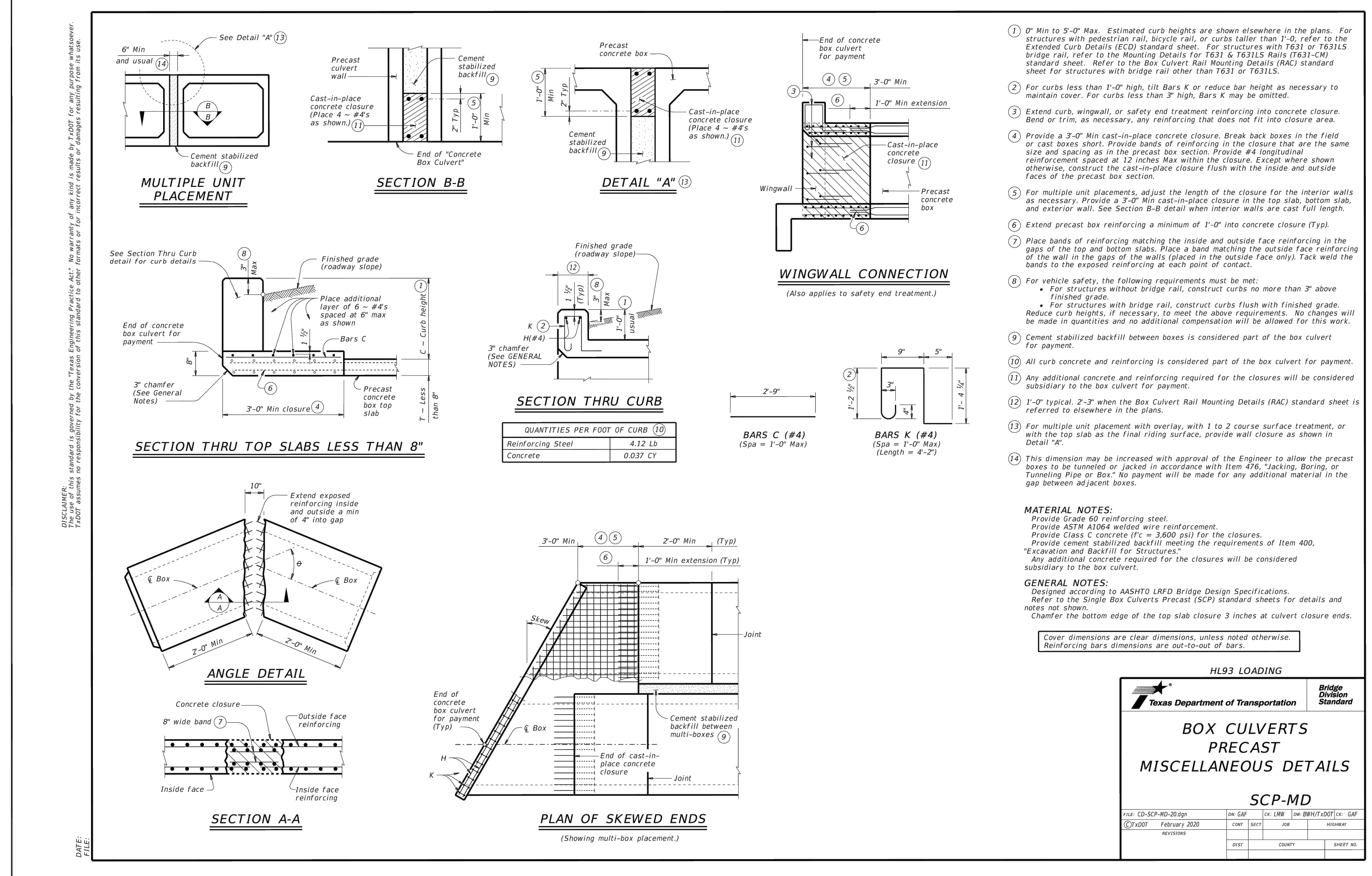
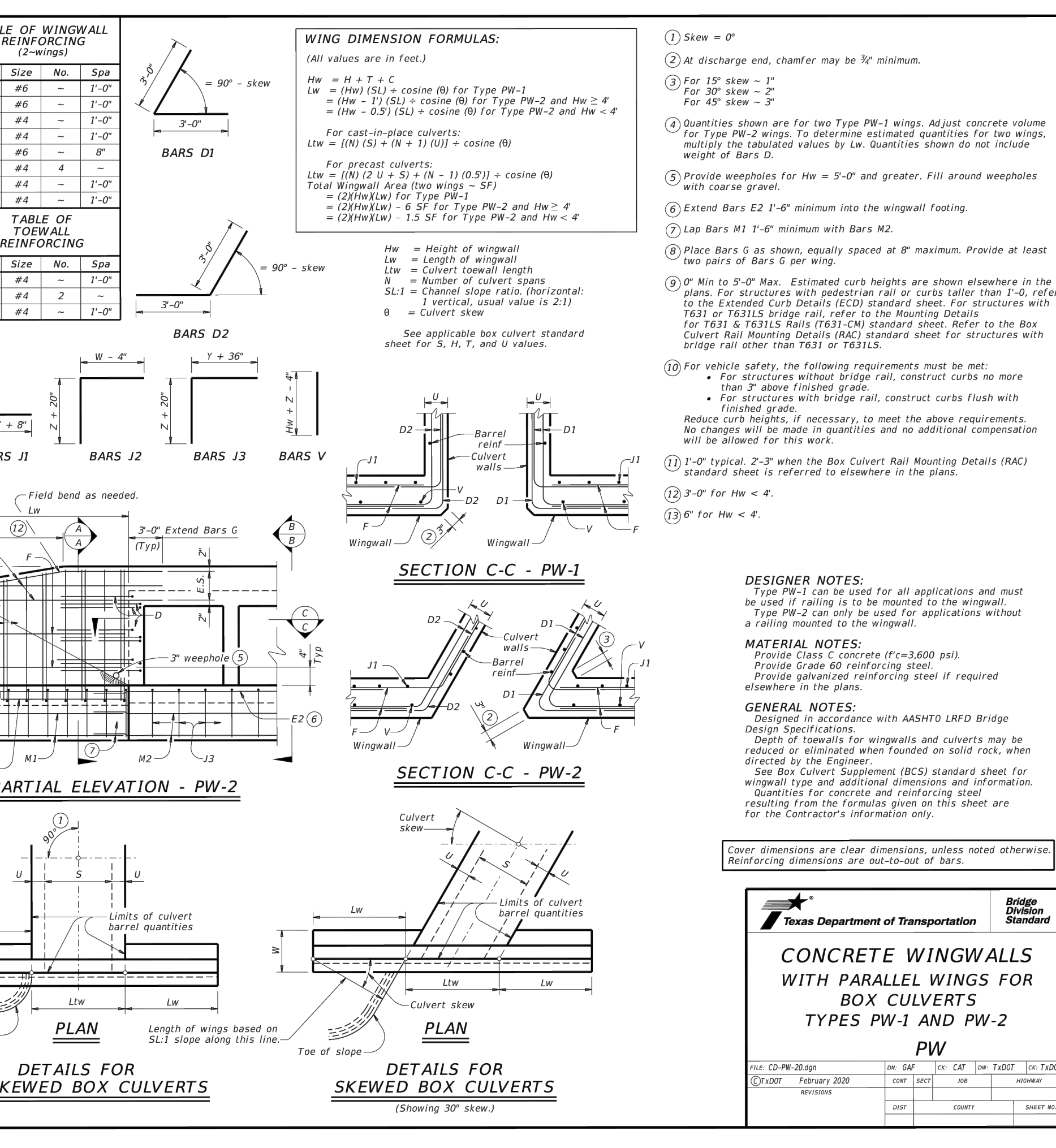
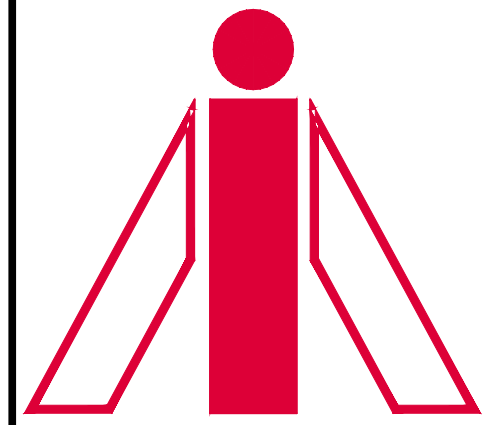


TABLE OF DIMENSIONS AND REINFORCING STEEL (Wings for one structure end)												
Dimensions		Variable Reinforcing		Estimated Quantities per ft. of Wingwall (2-wings)		Estimated Quantities per ft. of Topwall (1-cowall)						
Maximum Wingwall Height	W	X	Y	Z	Reinforcing Bars	Reinforcing Bars	Reinforcing Bars	Reinforcing Bars				
2'-0"	2'-10"	10"	1'-0"	7"	#4	#4	#4	#4	48.54	0.406	6.85	0.071
2'-0"	2'-10"	10"	1'-0"	7"	#4	#4	#4	#4	49.31	0.424	6.85	0.071
3'-0"	2'-10"	10"	1'-0"	7"	#4	#4	#4	#4	49.98	0.444	6.85	0.071
3'-0"	2'-10"	10"	1'-0"	7"	#4	#4	#4	#4	53.32	0.462	6.85	0.071
3'-0"	2'-10"	10"	1'-0"	7"	#4	#4	#4	#4	53.98	0.480	6.85	0.071
4'-0"	3'-2"	1'-2"	1'-0"	7"	#4	#4	#4	#4	55.77	0.532	6.85	0.071
4'-0"	3'-2"	1'-2"	1'-0"	7"	#4	#4	#4	#4	59.77	0.568	6.85	0.071
4'-0"	3'-2"	1'-2"	1'-0"	7"	#4	#4	#4	#4	63.45	0.632	6.85	0.071
5'-0"	3'-4"	1'-2"	1'-2"	7"	#4	#4	#4	#4	67.46	0.668	6.96	0.075
6'-0"	3'-4"	1'-2"	1'-2"	7"	#5	#5	#5	#5	80.57	0.730	7.07	0.078
6'-0"	4'-0"	2'-0"	1'-4"	7"	#5	#5	#5	#5	85.05	0.768	7.07	0.078
7'-0"	5'-0"	2'-3"	1'-9"	8"	#5	#5	#5	#5	92.15	0.864	8.07	0.093
7'-0"	5'-0"	2'-3"	1'-9"	8"	#5	#5	#5	#5	96.54	0.902	8.07	0.093
8'-0"	5'-0"	2'-8"	1'-10"	8"	#5	#5	#5	#5	139.04	0.962	8.17	0.095
8'-0"	5'-0"	2'-8"	1'-10"	8"	#5	#5	#5	#5	144.47	1.000	8.17	0.095
9'-0"	6'-0"	2'-10"	2'-2"	9"	#5	#5	#5	#5	156.93	1.136	8.41	0.110
10'-0"	6'-5"	3'-0"	2'-5"	9"	#6	#6	#6	#6	196.27	1.234	8.57	0.117
11'-0"	7'-2"	3'-6"	2'-8"	11"	#6	#6	#6	#6	230.13	1.438	9.52	0.140
12'-0"	7'-8"	3'-9"	2'-11"	11"	#7	#7	#7	#7	283.41	1.592	9.74	0.157
13'-0"	8'-2"	4'-2"	3'-6"	11"	#8	#8	#8	#8	348.72	1.804	10.02	0.166
14'-0"	8'-10"	4'-5"	3'-1"	14"	#8	#8	#8	#8	432.94	2.046	10.30	0.218
15'-0"	9'-6"	4'-10"	3'-8"	14"	#9	#9	#9	#9	489.52	2.302	11.24	0.253
16'-0"	9'-11"	5'-0"	3'-11"	17"	#9	#9	#9	#9	505.72	2.448	11.47	0.279



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PLANNING ARCHITECTURE INTERIORS
281-398-2020

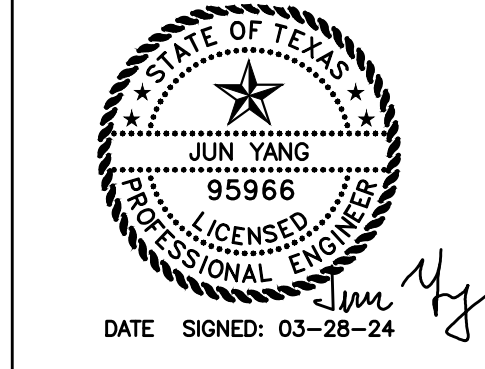
PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM REG. NO: 12652



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET FINAL PRINT

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE

FOUNDATION PLAN

DRAWING NUMBER SHEET NO.

S01

FOUNDATION NOTES:

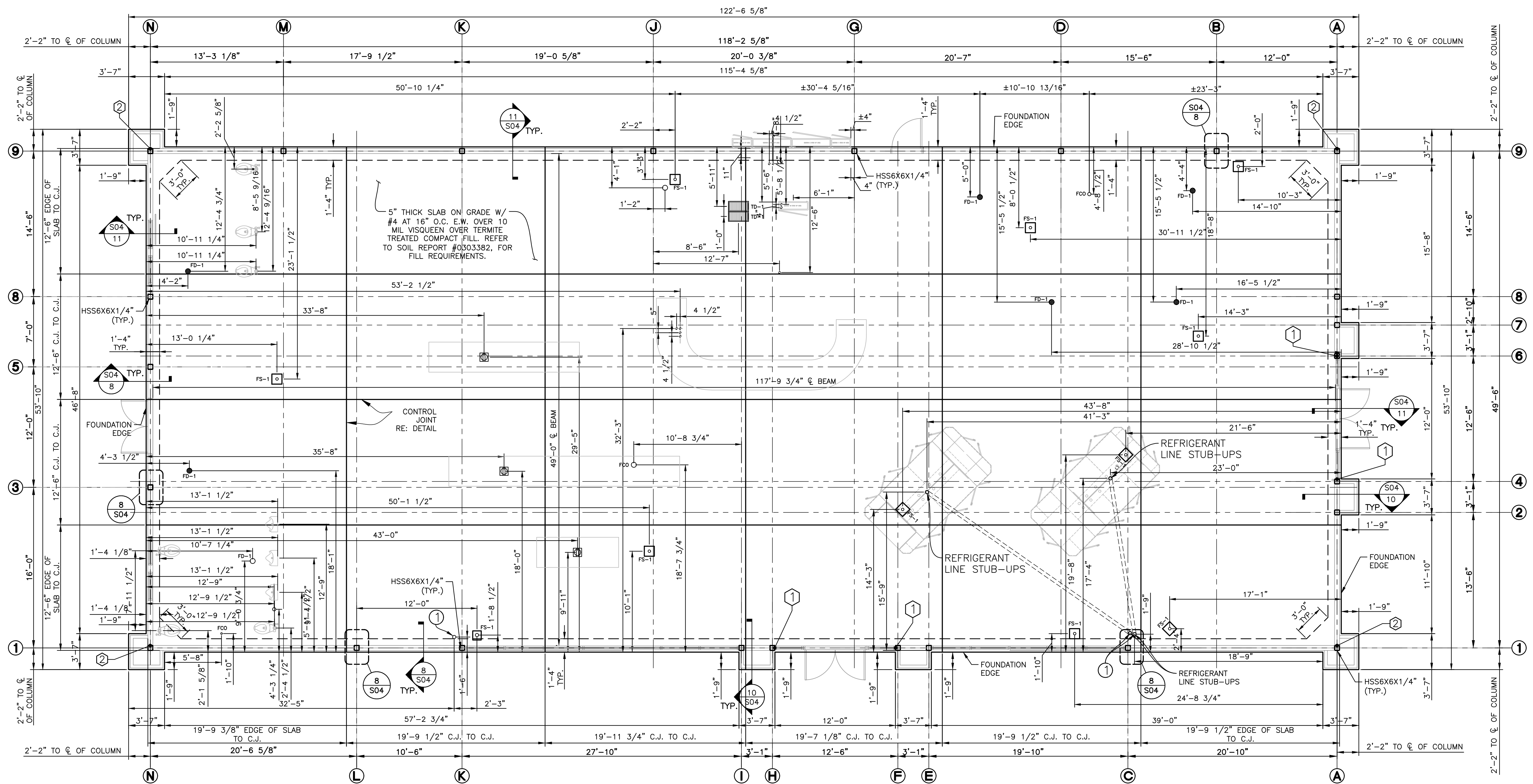
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EMBEDMENT, PLUMBING, FIXTURES, AND DRAINS.
2. REFERENCE ARCHITECTURAL PLANS FOR ALL DIMENSIONS AND VERIFY.
3. SEE SHEET S05A & S05B FOR ALL MATERIAL SPECIFICATIONS.
4. N/A
5. PROVIDE 1/2" DENSGLASS OVER METAL STUD FRAMING. FASTEN PER MANUFACTURERS INSTRUCTIONS.
6. ALL COLUMNS ARE HSS6x6x1/4", U.N.O., INCLUDING BRACING COLUMNS.
7. ALL COLUMNS SHALL EXTEND TO TOP OF PARAPET, U.N.O.

KEYNOTE:

- ① TOP OF COLUMN TO BE B.O. STOREFRONT BEAM
- ② SEE DETAIL 1/S04 FOR BASE PLATE.

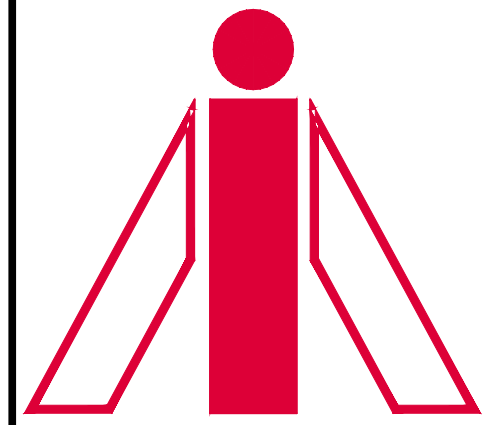
KEYNOTE:

- ① UNDER FLOOR REFRIGERANT LINE CHASE. 4" PVC INSTALLED WITH LONG RADIUS SWEEPS (MINIMUM 24" R.) BED PIPE IN 4" GRAVEL. INSTALL WITH MINIMUM NUMBER OF JOINTS POSSIBLE.



1 FLOOR PLAN - FOUNDATION PLAN
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

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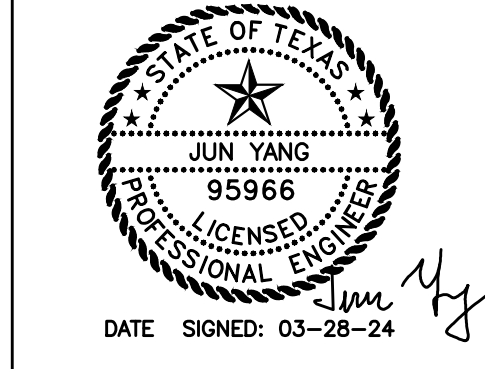
PROJECT NUMBER
 CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
 F2501-B SERIES
 RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
 FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM REG. NO: 12652



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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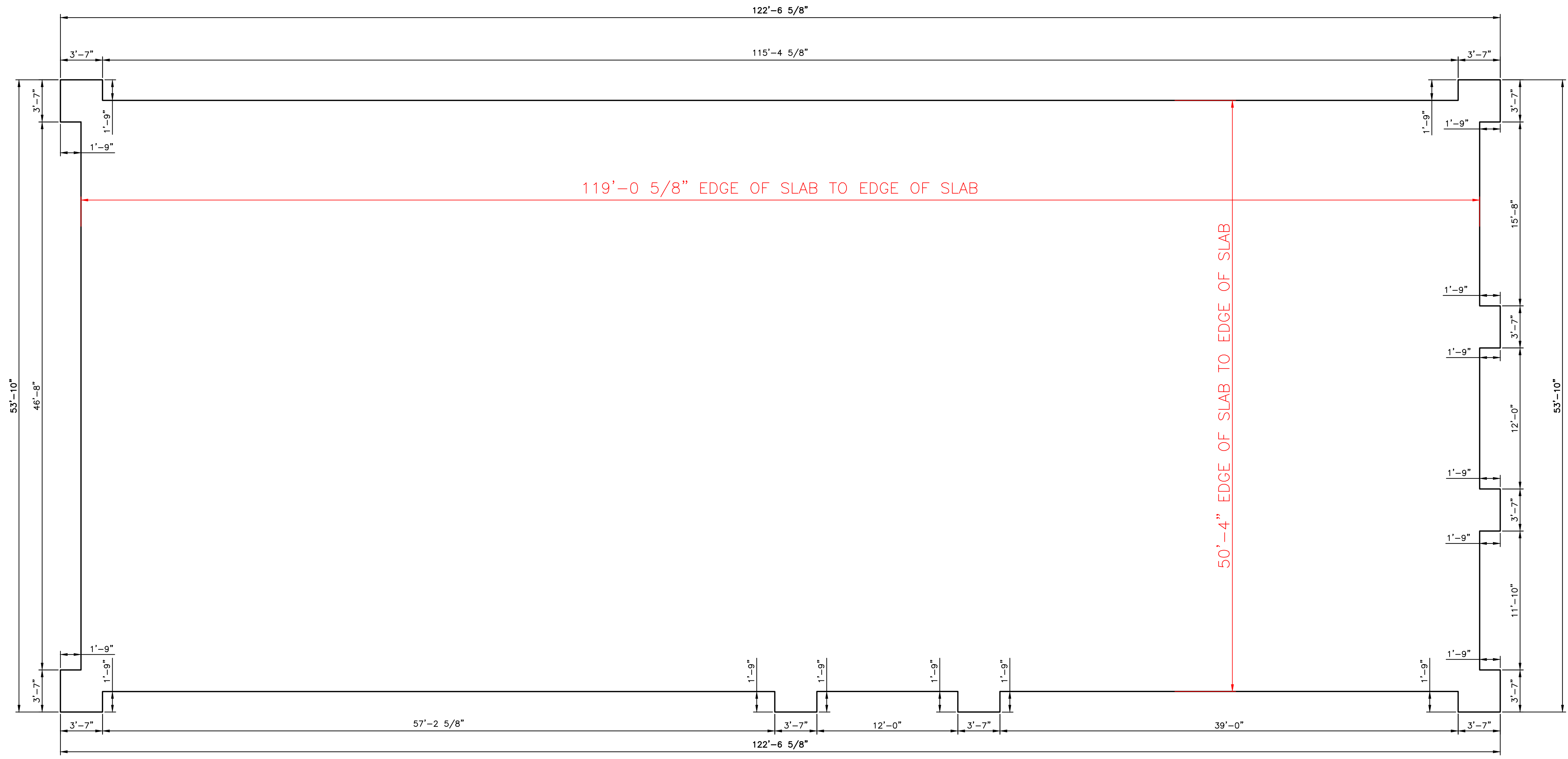
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
**FOUNDATION
 SLAB FORM
 DIMENSIONS**

DRAWING NUMBER SHEET NO.
S01A



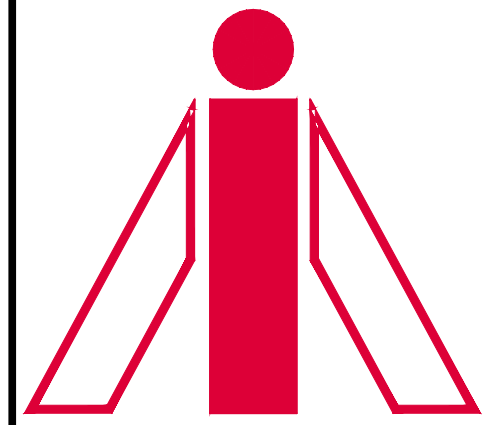
**SEE JIMCO SHOP DRAWINGS
 FOR MORE INFORMATION**

1 FLOOR PLAN - FOUNDATION SLAB FORM DIMENSIONS
 SCALE: 3/16"=1'-0"
 TOTAL AREA: 5,974 SQ. FT.

D
C
B
A

6 5 4 3 2 1

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

CEFCO
F2501-B SERIES
RIGHT FACING

PROFESSIONAL SEAL
FIRM REG. NO: 12652
STATE OF TEXAS
JUN YANG
95966
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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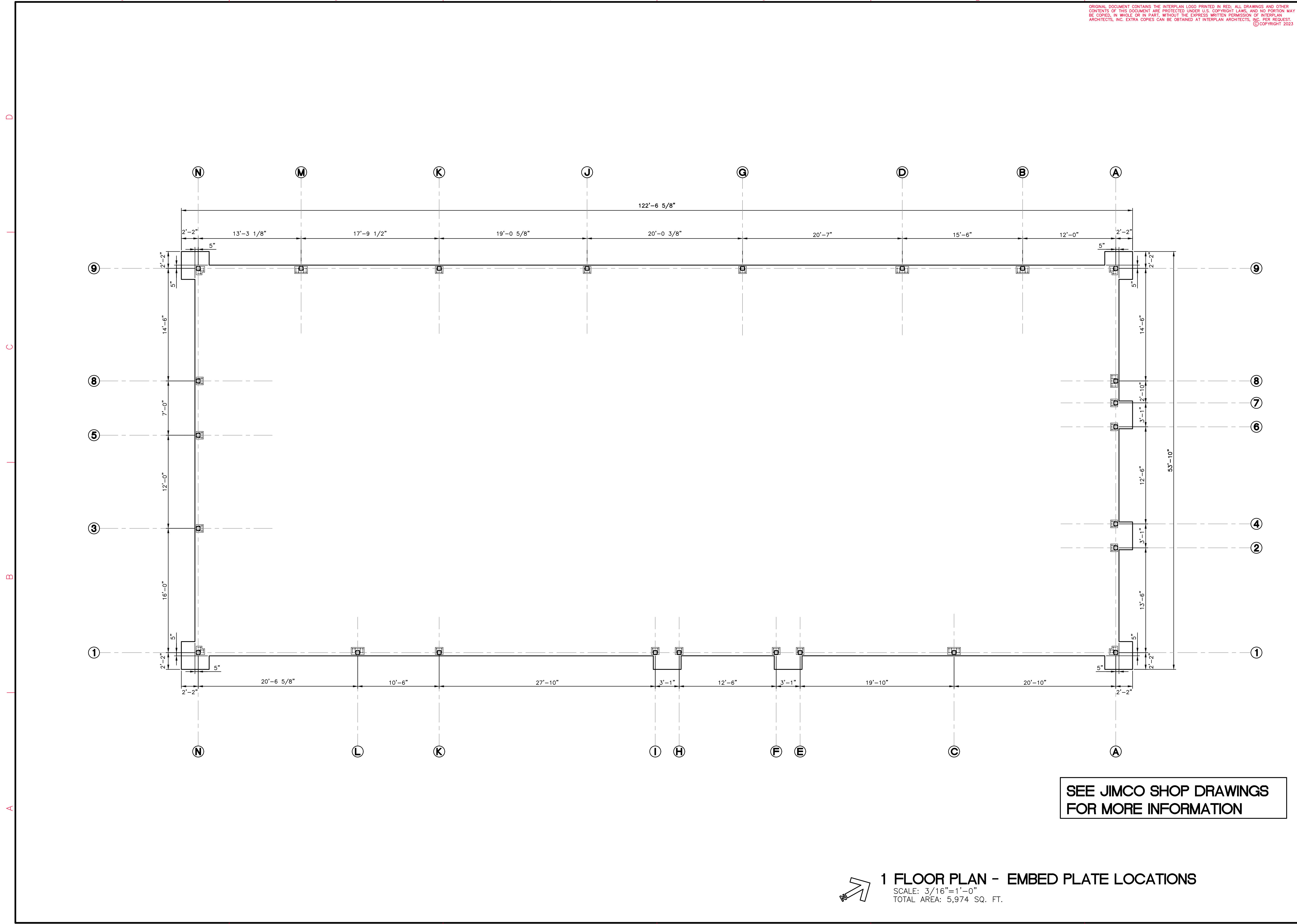
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
EMBED PLATE LOCATIONS

DRAWING NUMBER
S01B



1 FLOOR PLAN - EMBED PLATE LOCATIONS
SCALE: 3/16"=1'-0"
TOTAL AREA: 5,974 SQ. FT.

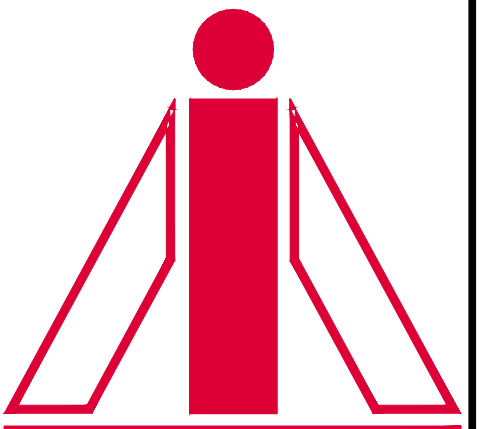
ROOF FRAMING NOTES:

1. THE ROOF STRUCTURE SHALL NOT BE USED FOR STOCKPILING OF EQUIPMENT OR MATERIALS UNLESS APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE JOIST MANUFACTURER.
2. THE ROOFING SYSTEM SHALL BE AS PER DRAWINGS AND PER CONSTRUCTION SPECIFICATIONS.
3. COORDINATE ROOF ELEVATIONS WITH ARCH. AND STRUCTURAL DRAWINGS.
4. ROOF TOP UNITS: GENERAL CONTRACTOR TO INSTALL FLASHING AND COUNTER-FLASHING TO ROOFING MANUFACTURER SPECIFICATIONS.
5. ALL COLUMNS SHALL BE HSS6x6x1/4", U.N.O.
6. ALL COLUMNS SHALL EXTEND TO TOP OF PARAPET (19'-0" TYP.) U.N.O.
7. SEE S04 & S05A FOR ADDITIONAL NOTES.
8. CEFCO TOWER INFILL FRAMING AND METAL STUD WALL FRAMING BY OTHERS.
9. ALL PARAPET BEAMS TO BE HSS6X2X3/16", U.N.O. REFER TO ELEVATIONS FOR MORE INFORMATION.
10. THE JOIST MANUFACTURER SHALL DESIGN THE JOISTS FOR ADDITIONAL RTU LOADS AS MENTIONED BELOW:
 RTU - 1 1936LBS
 RTU - 2 1966LBS
 RTU - 3 1966LBS
11. ▶ DENOTES MOMENT CONNECTION
12. ALL BEAMS W14X22, UNO.

KEYNOTE:

- ① TOP OF COLUMN TO BE B.O. STOREFRONT BEAM
- ② G.C. TO PROVIDE DOUBLE STUDS AT LADDER VERTICAL CONNECTION (TYP.). TO BE DESIGNED BY OTHERS
- ③ REFER TO DETAIL 15/S03F FOR MECHANICAL EQUIPMENT OPENING

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 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

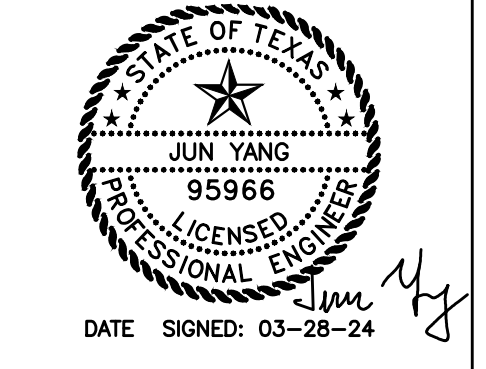
PROJECT NUMBER
 CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
 F2501-B SERIES
 RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
 FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM REG. NO: 12652



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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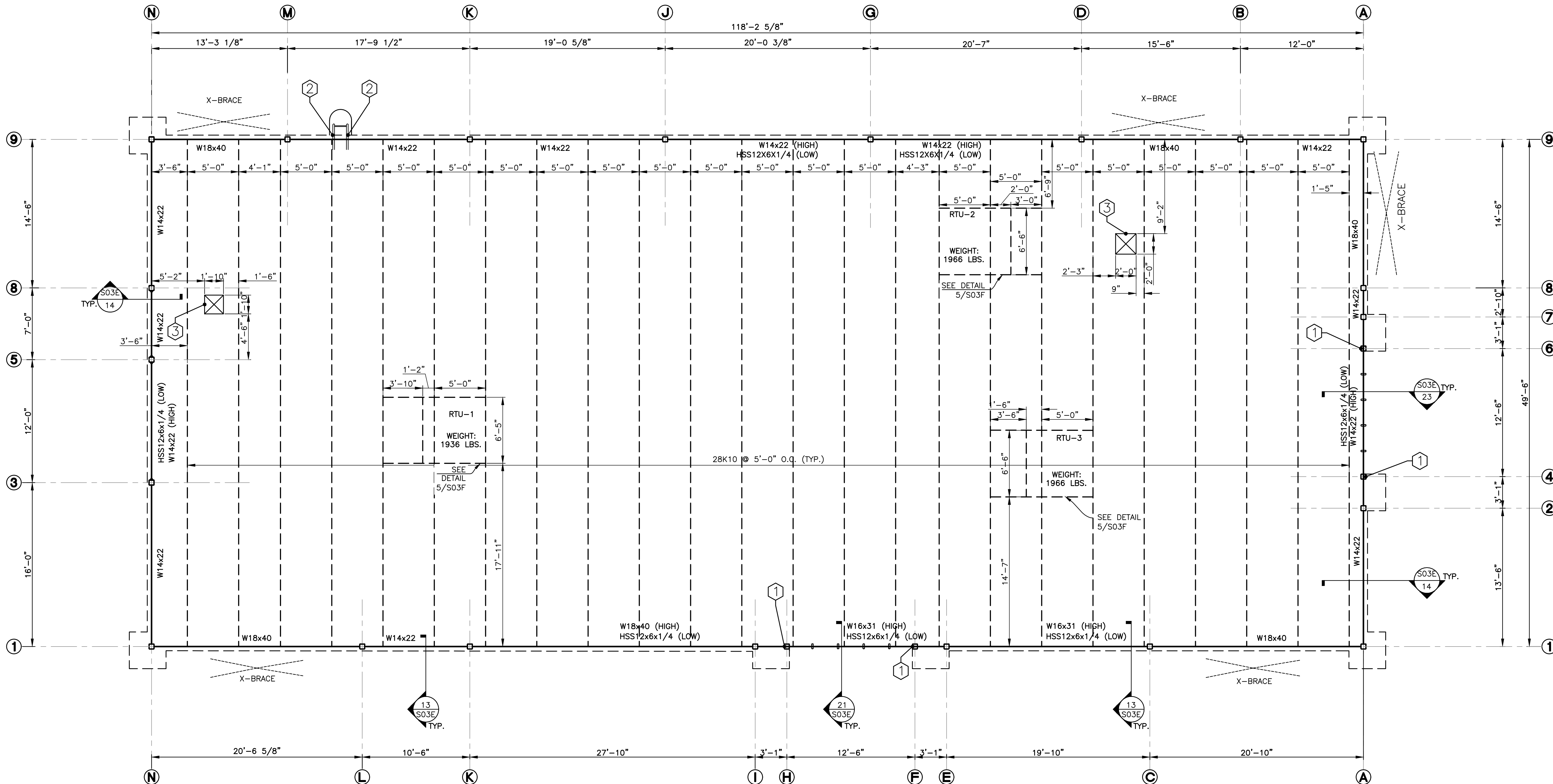
REVISIONS

NO.	DATE	DESCRIPTION

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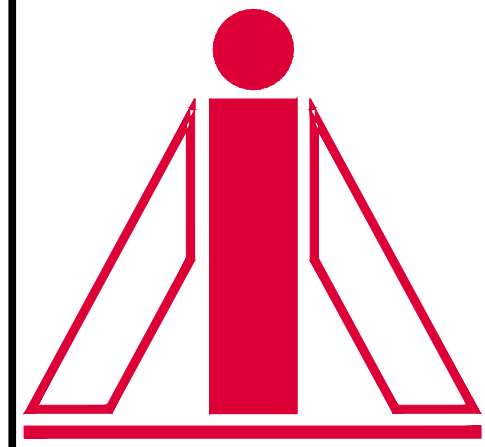
SHEET TITLE
ROOF FRAMING PLAN

DRAWING NUMBER
S02



1 FLOOR PLAN - ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"
 TOTAL AREA: 5,974 SQ. FT.

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PLANNING ARCHITECTURE INTERIORS
281-398-2020

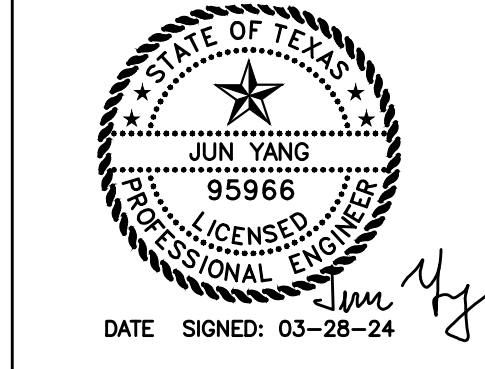
PROJECT NUMBER
CEF22-S03.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM REG. NO: 12652



DRAWINGS ISSUED FOR:

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10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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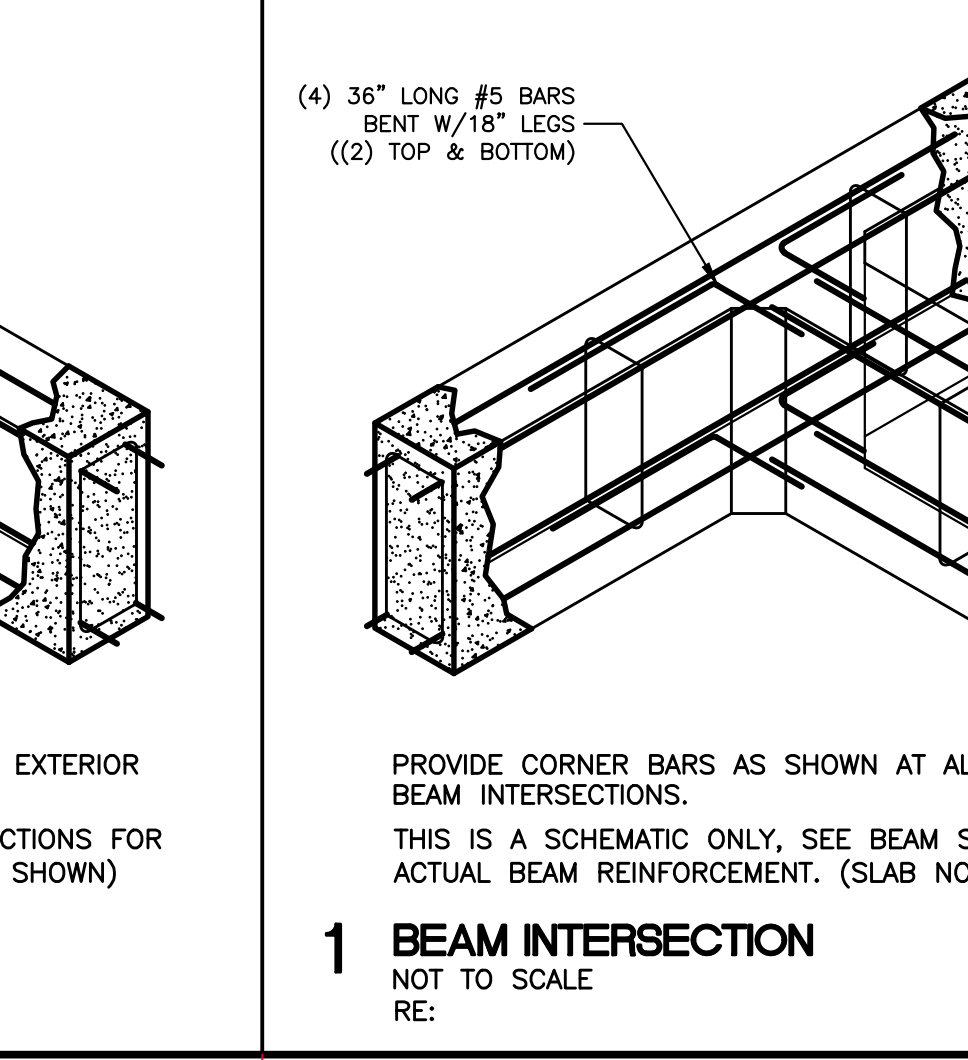
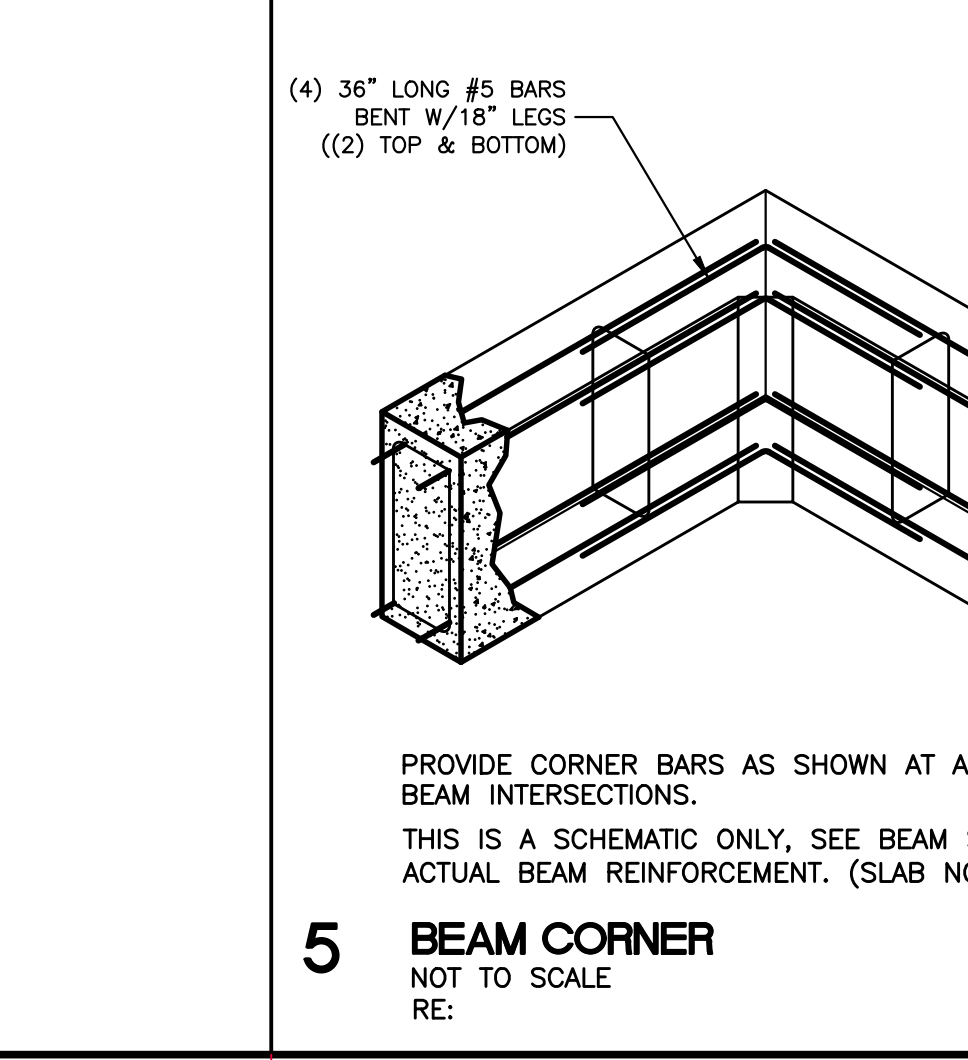
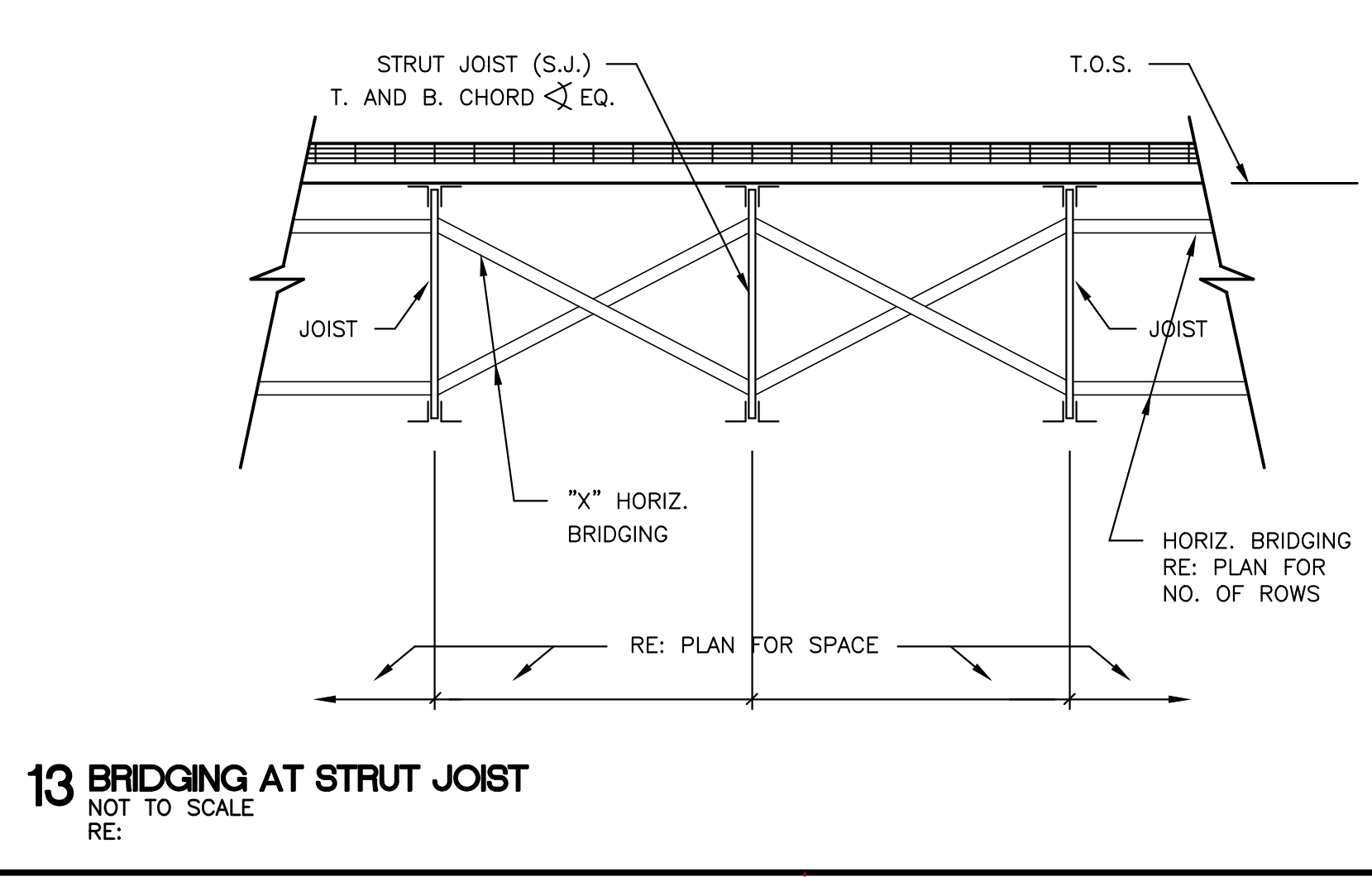
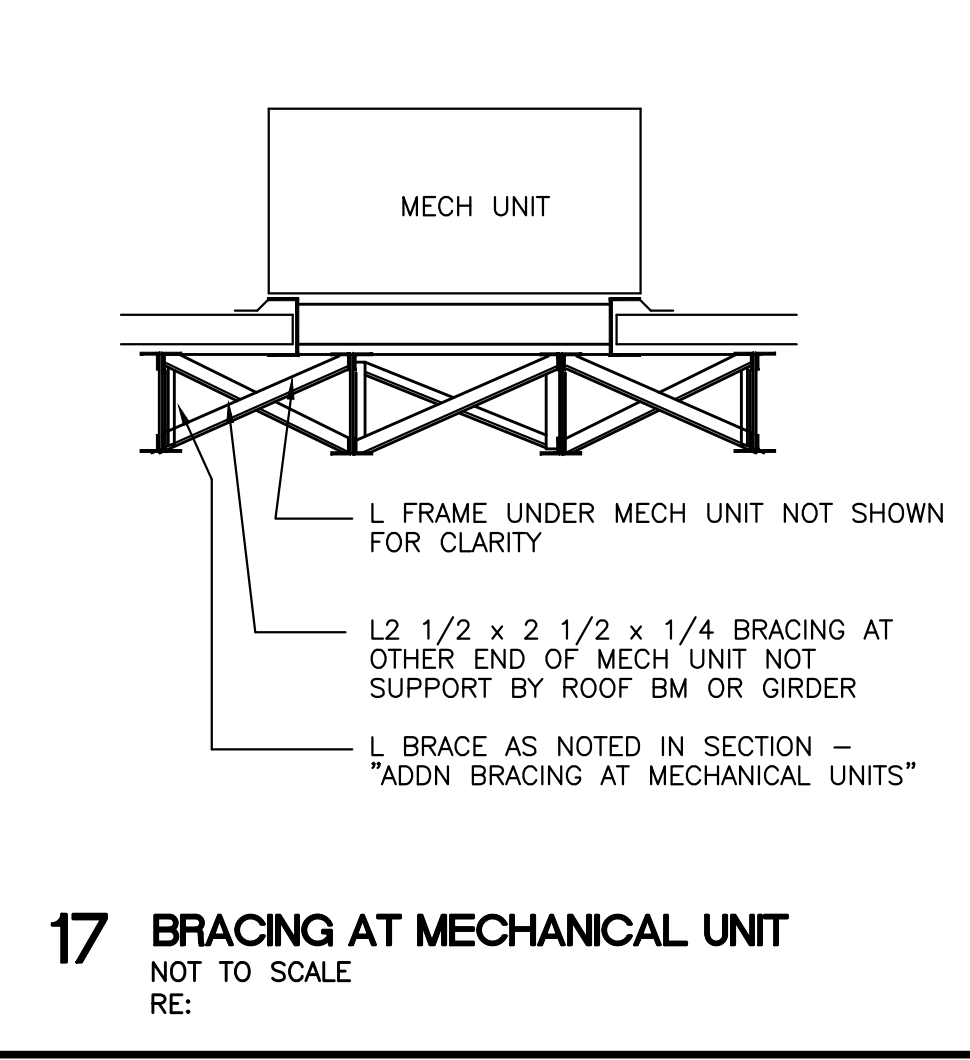
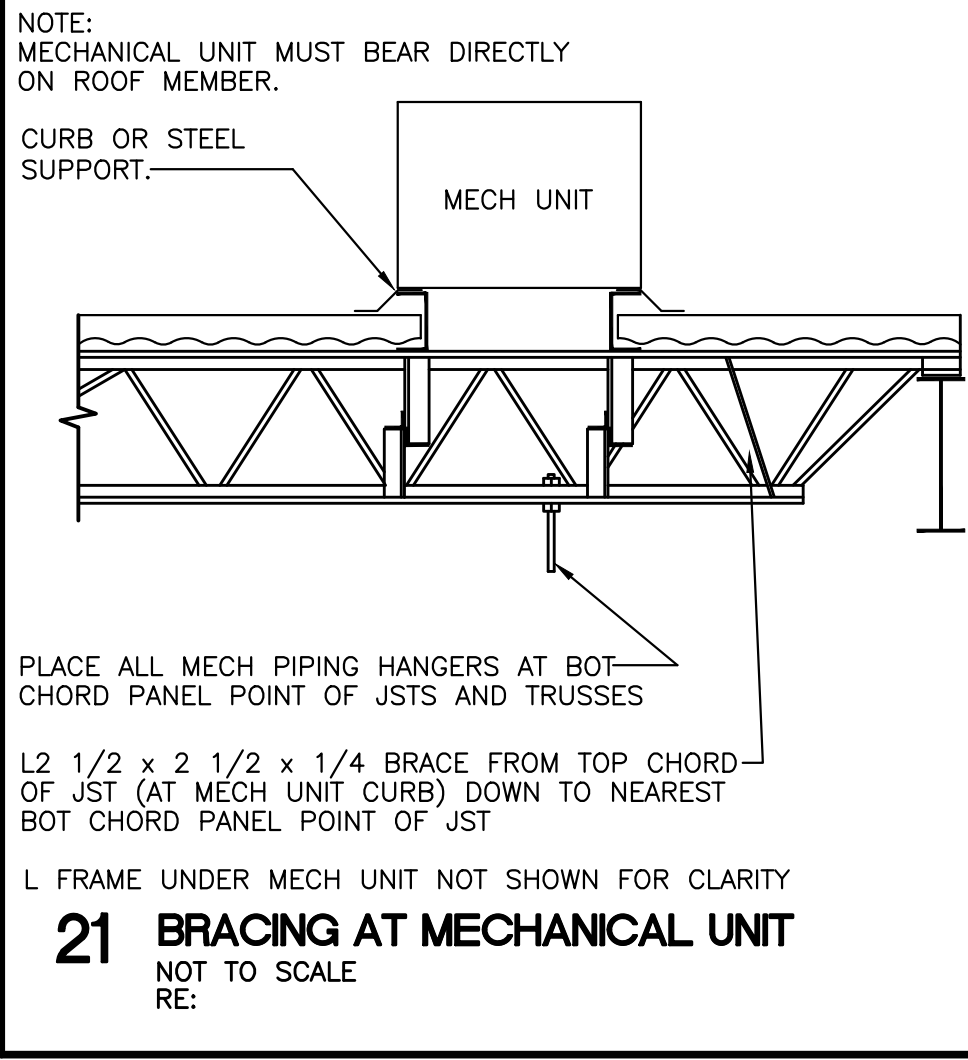
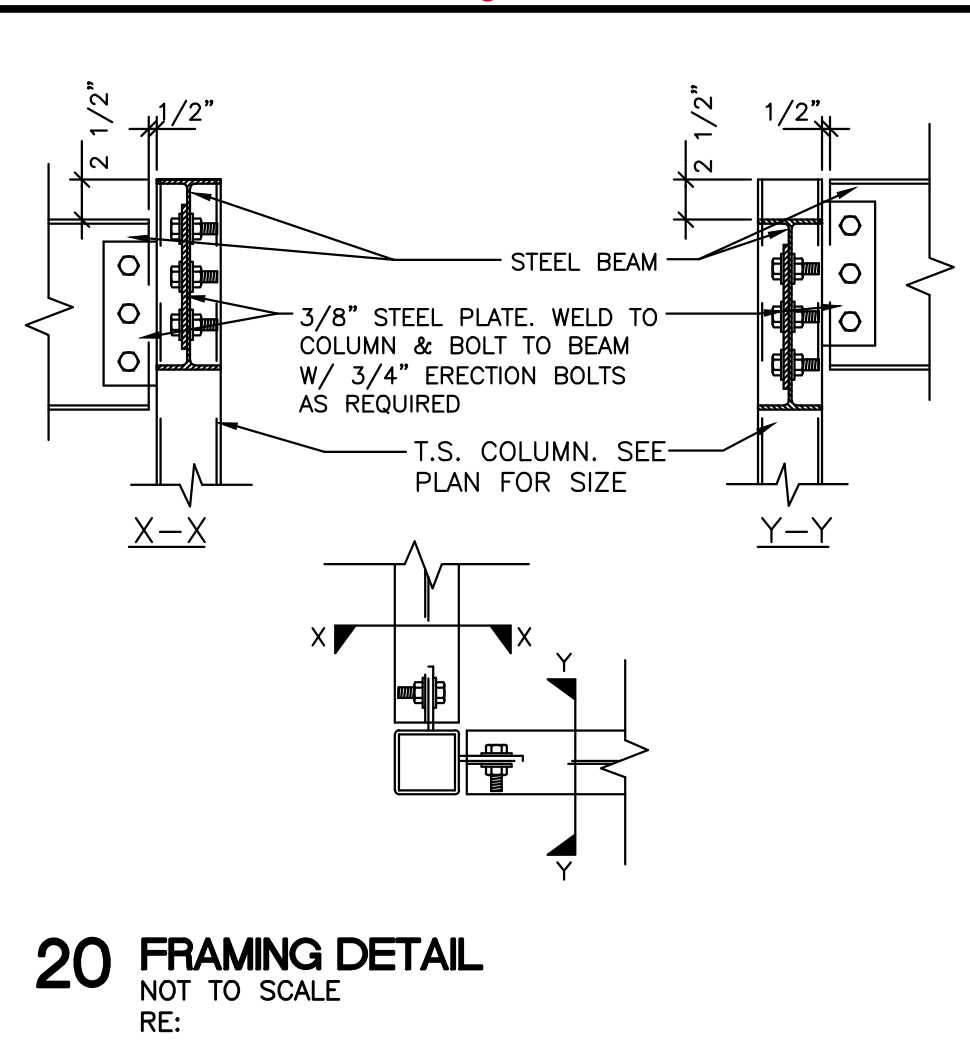
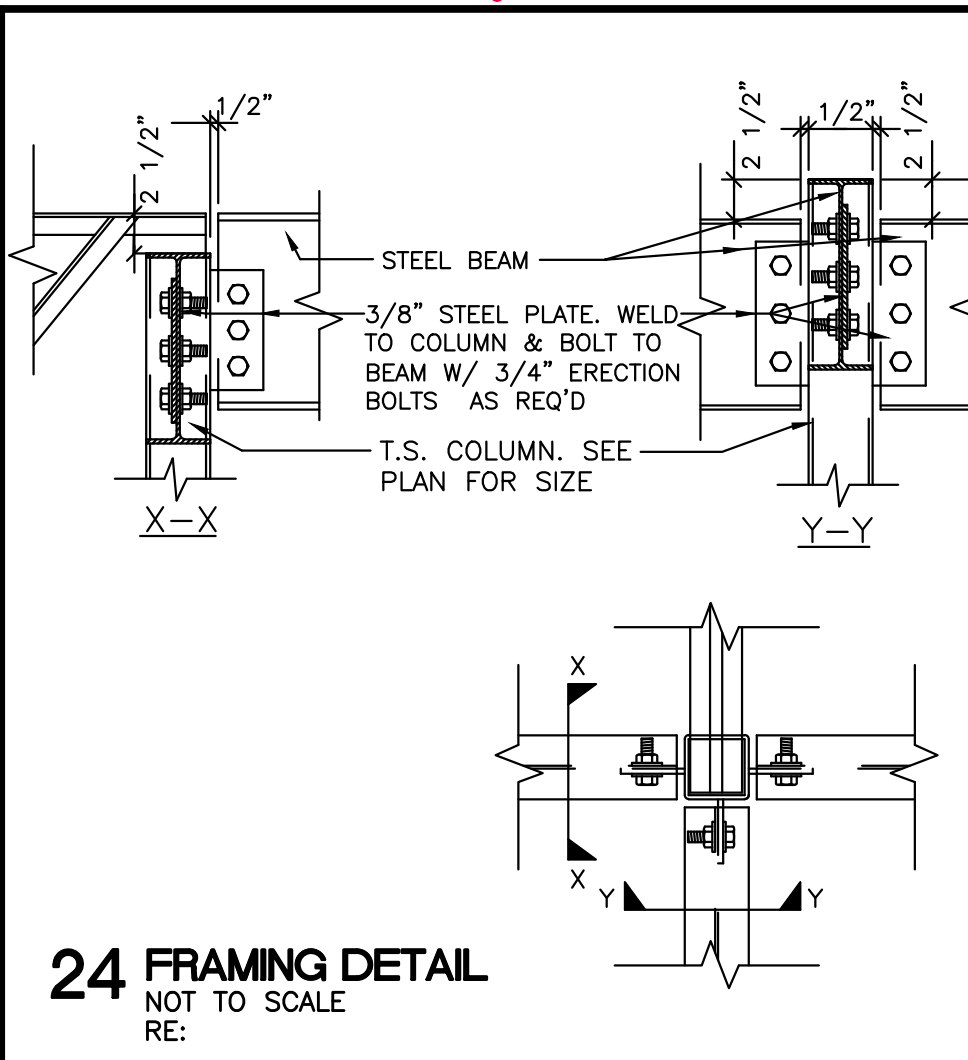
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
STRUCTURAL FRAMING DETAILS

DRAWING NUMBER
S03
SHEET NO.



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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CFE22-SO3A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM REG. NO: 12652
STATE OF TEXAS
JUN YANG
95966
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

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10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
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03-28-24	100% SET
	FINAL PRINT

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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE

TRASH ENCLOSURE FLOOR PLAN AND DETAILS

DRAWING NUMBER
S03A
SHEET NO.

EXTERIOR ELEVATION FINISH SCHEDULE

- SW-1 CREATIVE FAUX STONE AS PER OWNER'S SPECIFICATIONS
- PT-1 CONCRETE BLOCK WALL - SHERWIN WILLIAM SW 6364
- PT-2 SHERWIN WILLIAM 6115 (TOTALLY TAN)

NOTE:
BOLLARD COLORS REFER TO DETAIL 6/S03B

GENERAL NOTES:

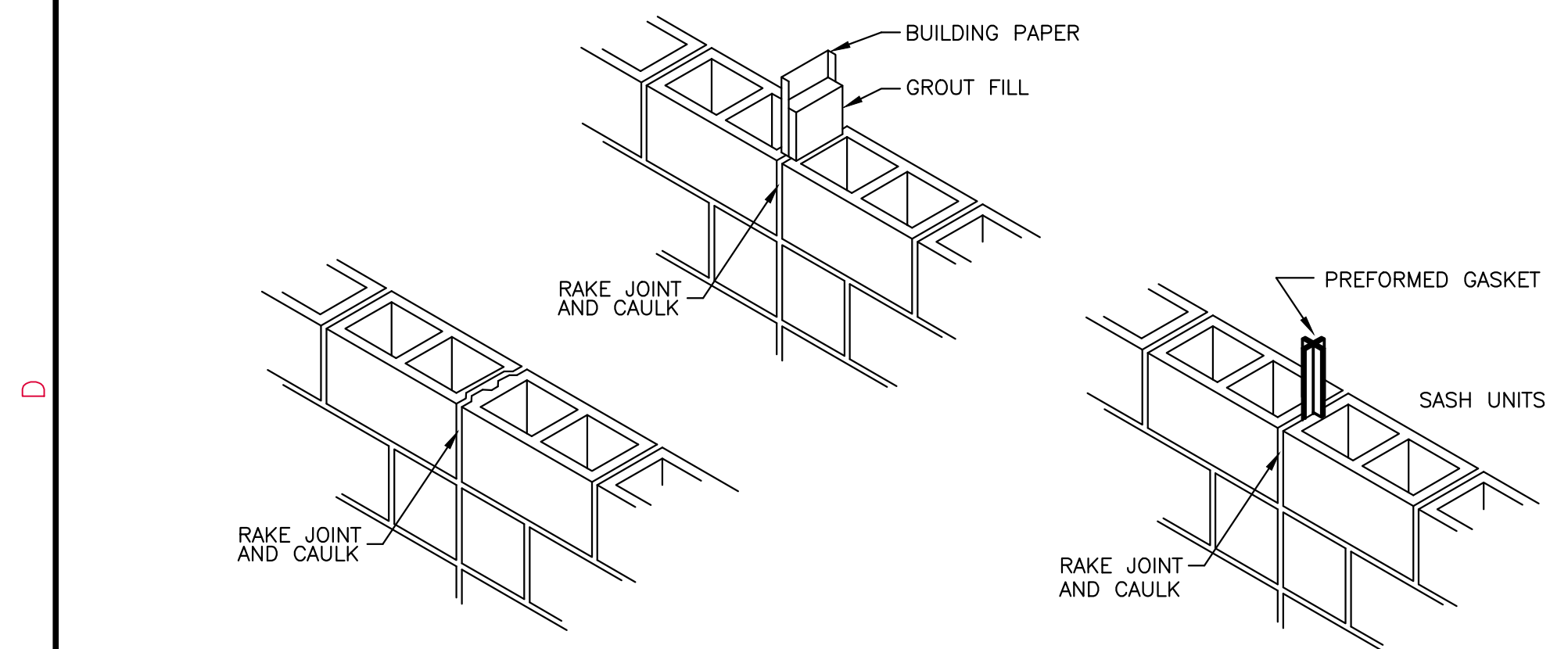
- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
- GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
- THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
- THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE, UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
- UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE OWNER'S VENDORS ON SITE DURING CONSTRUCTION.
- ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
- ALL PLYWOOD REFERENCES TO BE FIRE-RETARDANT TREATED PLYWOOD.

PLAN NOTES: X

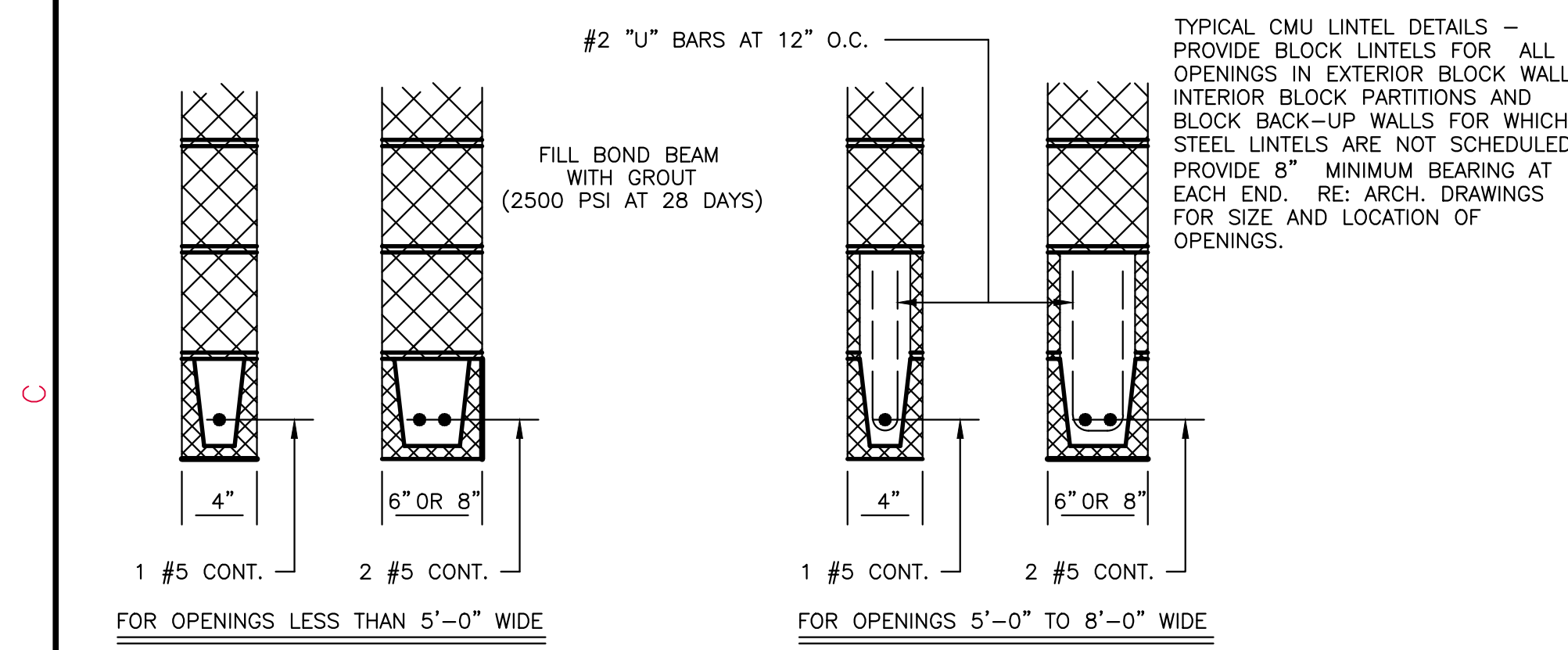
- NOT USED
- FLOOR SLOPE = 1/2"
- 8'-0" HIGH/ 6'-0" WIDE ROLL DOWN METAL GATE. VERIFY WITH OWNER.
- NOT USED
- NOT USED
- NOT USED
- 5"x5"x25 THICK STEEL POST FILLED WITH CONCRETE AND STEEL WELDED CAP. SLOPE. PAINTED TO MATCH ADJACENT SURFACES
- GATE REFER TO EXTERIOR ELEVATIONS AND DETAILS GATE AND HINGE BY JIMCO MANUFACTURING
- BOLLARD TYPE "A", REFER TO DETAIL ON SHEET S03B
- BOLLARD TYPE "B", REFER TO DETAIL ON SHEET S03B

FINISH NOTES:

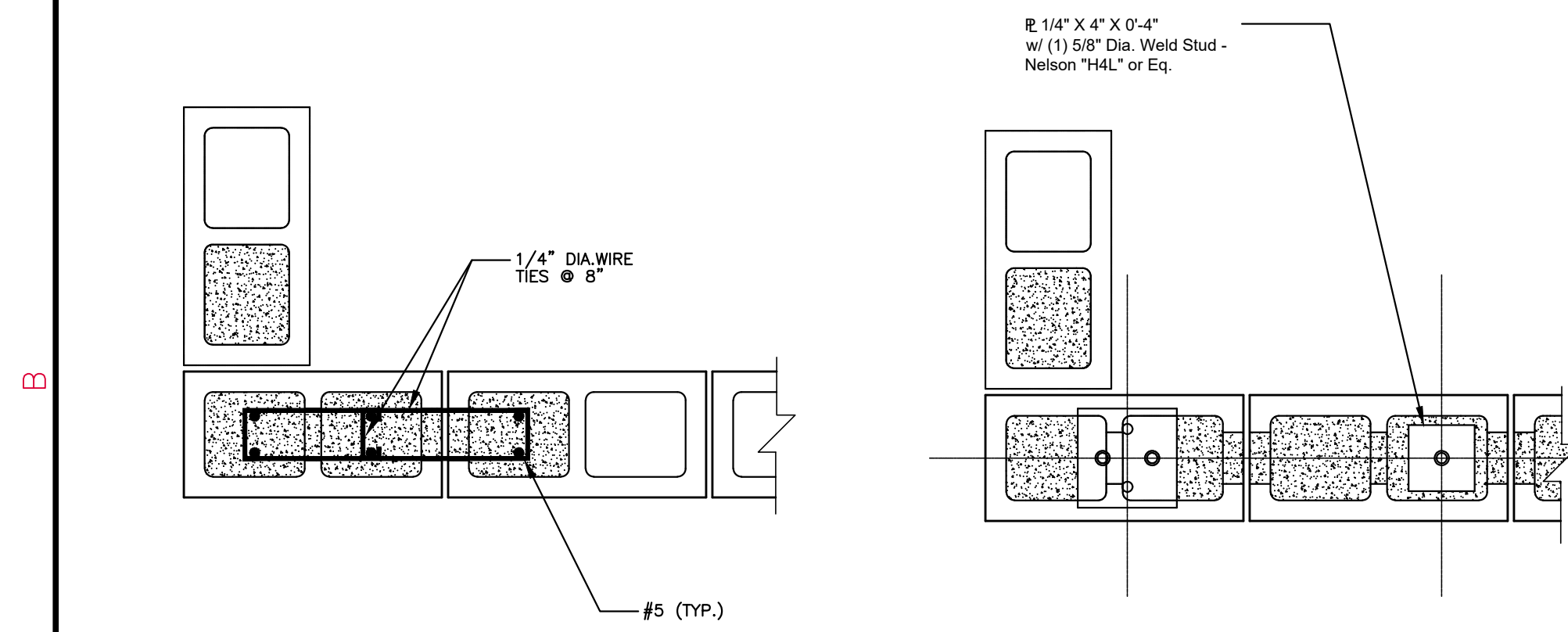
- FF-1 CONCRETE FLOOR
- WF-1 INTERIOR FINISH - CMU BLOCK WALL TO BE PAINTED
- WF-2 EXTERIOR FINISH - STONE (MATCH MAIN STORE)



24 CMU CONTROL JOINT OPTIONS
NOT TO SCALE
RE:

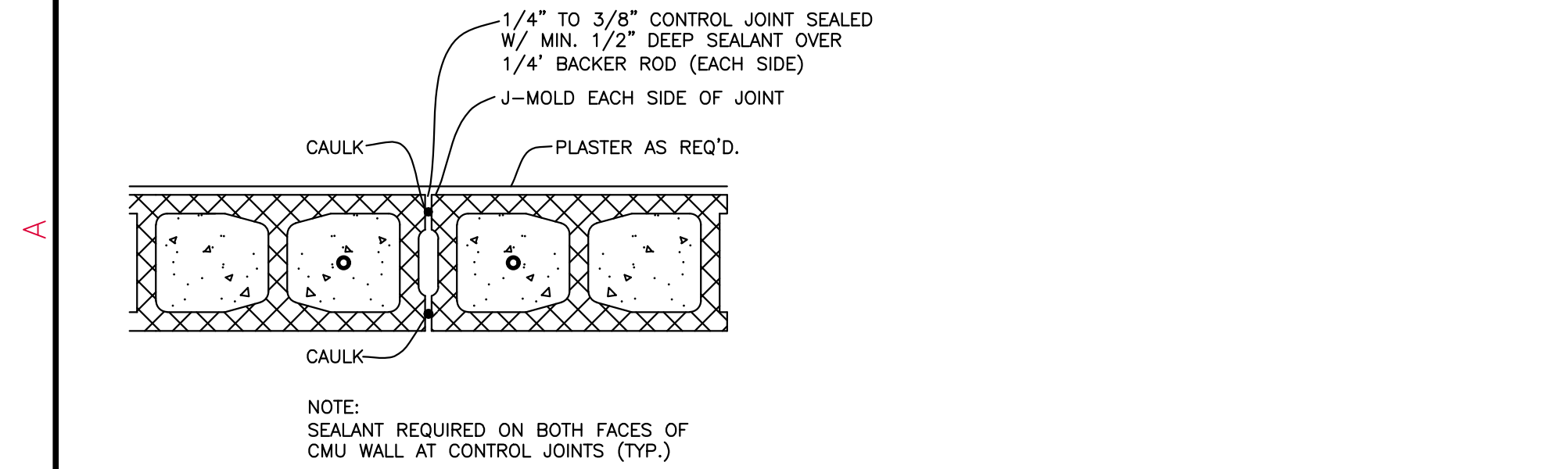


23 TYPICAL CMU LINTEL DETAILS
NOT TO SCALE
RE:



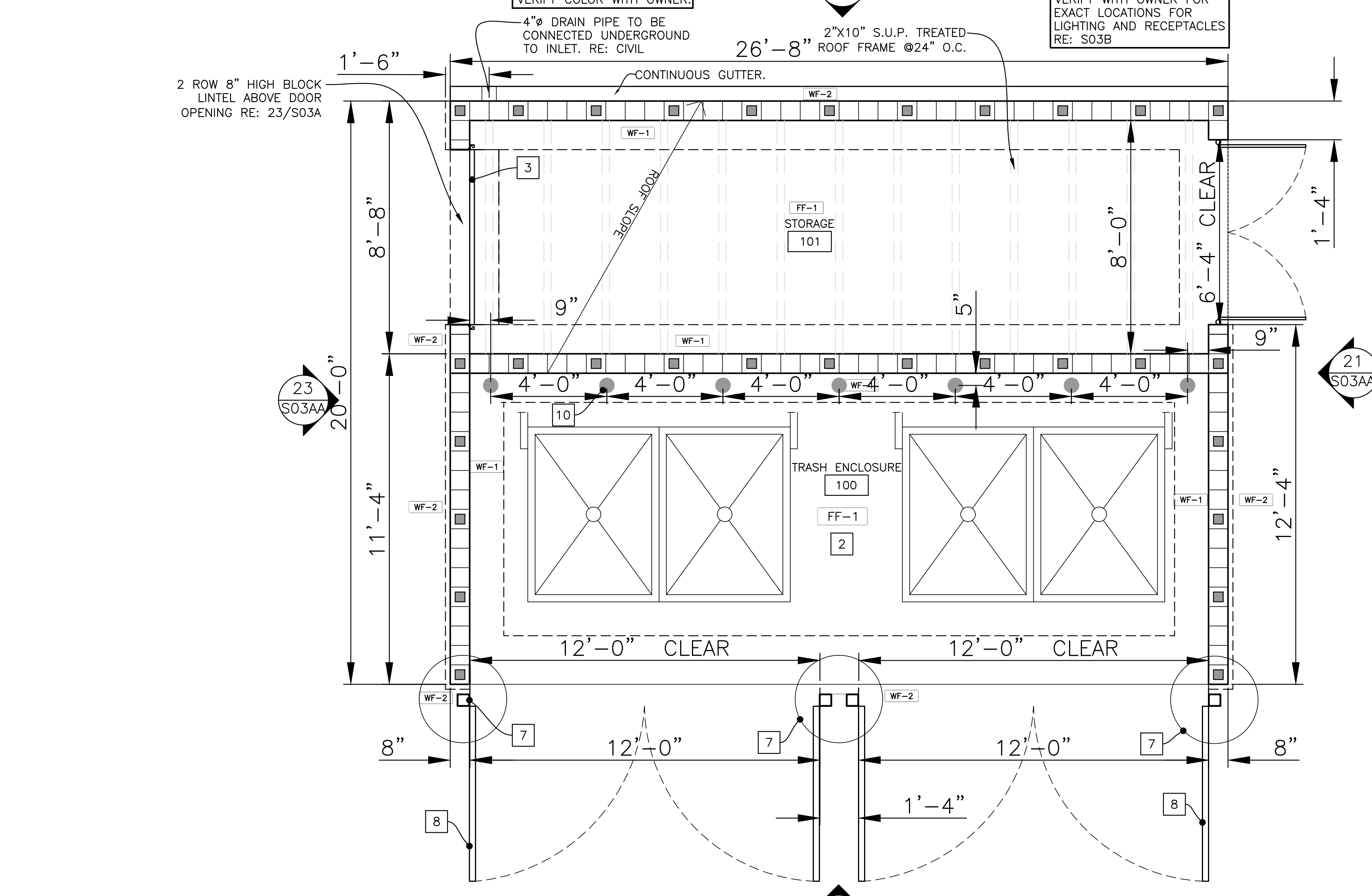
22 WALL PILASTER
NOT TO SCALE
RE:

18 SECTION AT WALL CORNER
NOT TO SCALE
RE:



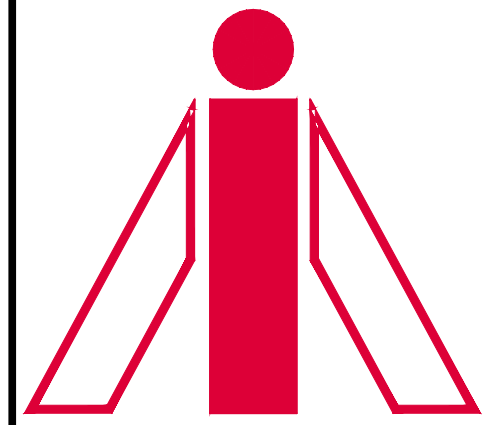
21 DETAIL OF CONTROL JOINT FINISH
NOT TO SCALE

NOTE:
REFER TO CIVIL DRAWINGS FOR SLAB DETAILS



13 TRASH ENCLOSURE FLOOR PLAN
SCALE: 3/8"=1'-0"
RE:

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-S03AA.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM REG. NO: 12652
STATE OF TEXAS
JUN YANG
95966
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

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11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
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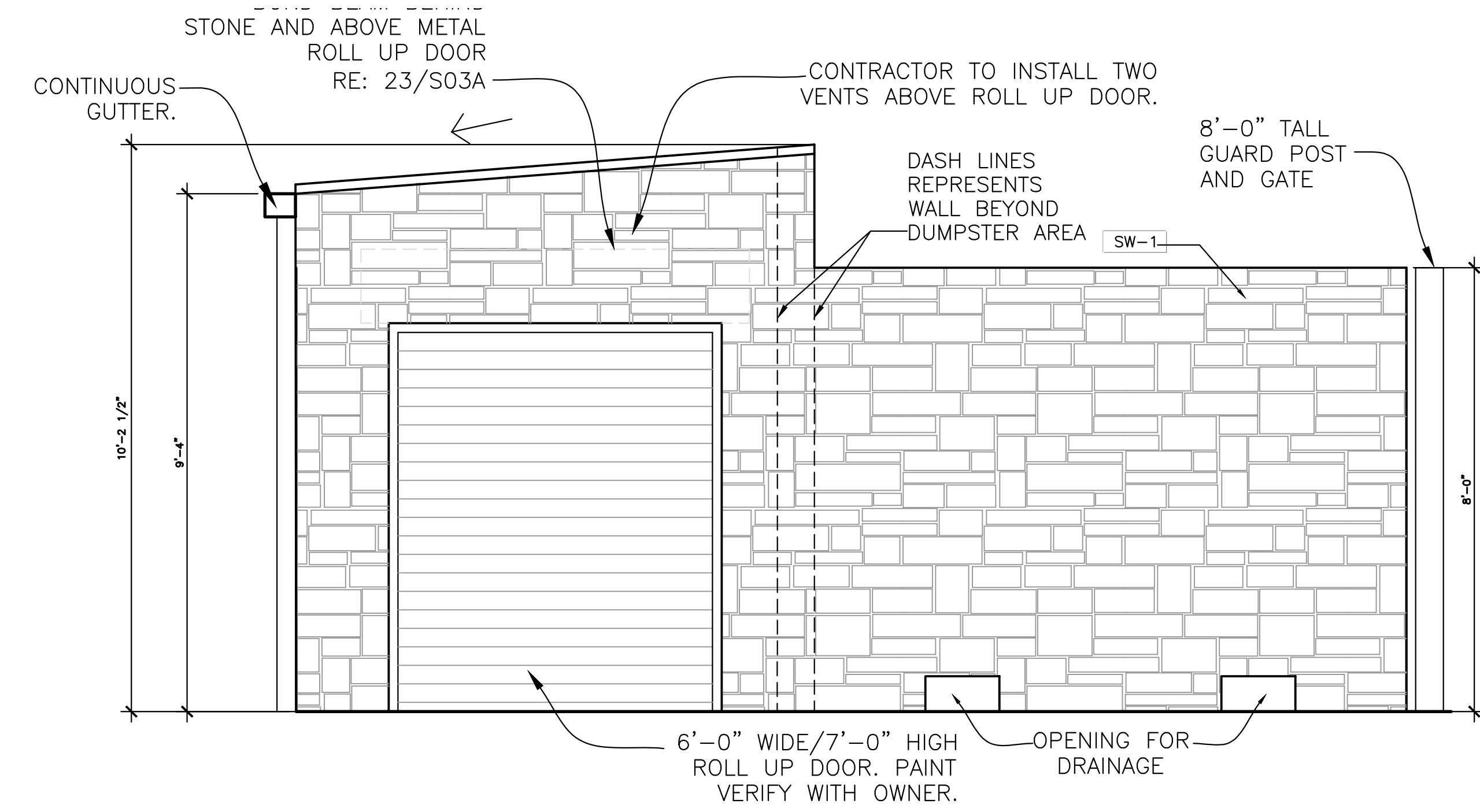
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DRAWN BY: CHECKED BY: DATE:

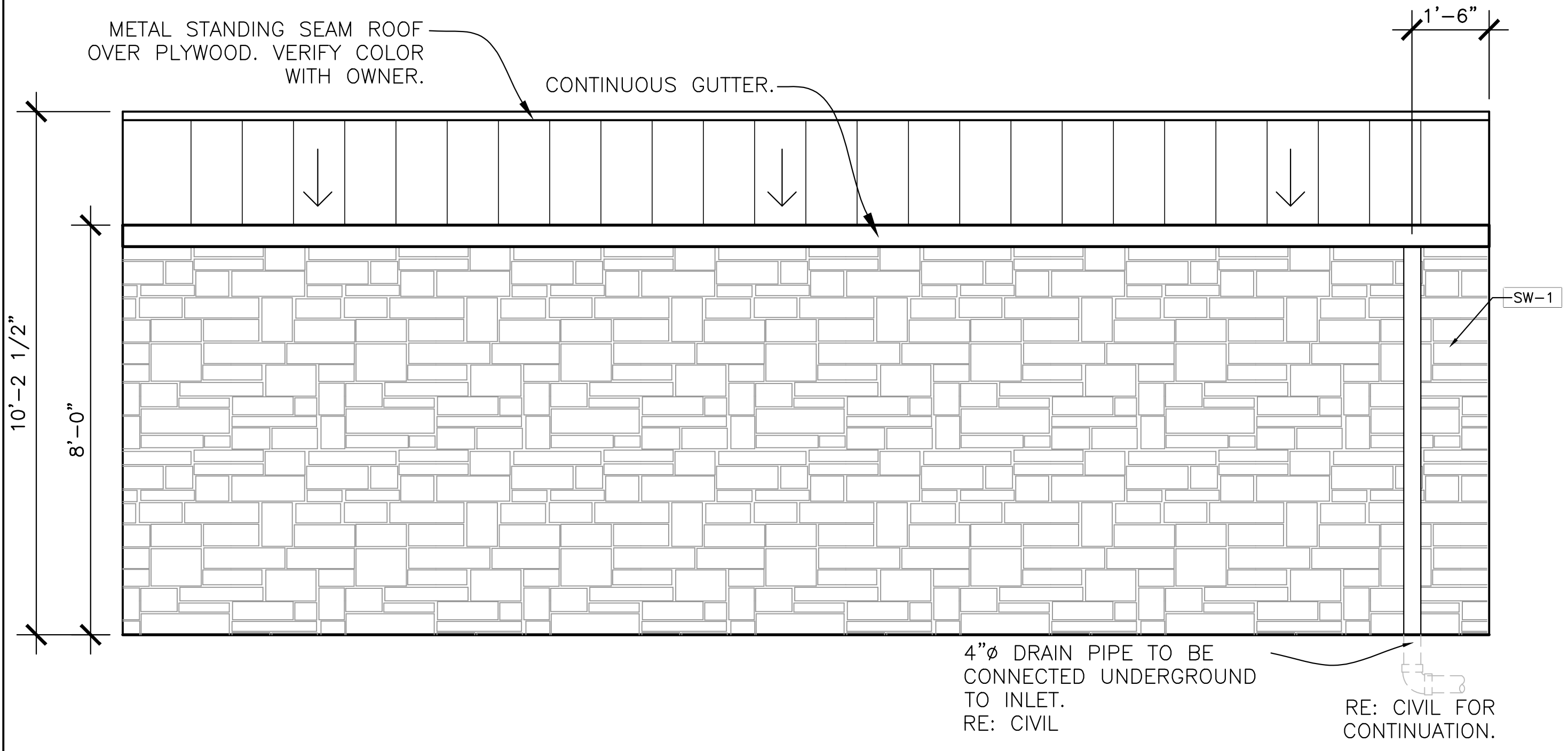
SHEET TITLE
TRASH ENCLOSURE EXTERIOR ELEVATIONS

DRAWING NUMBER SHEET NO.
S03AA

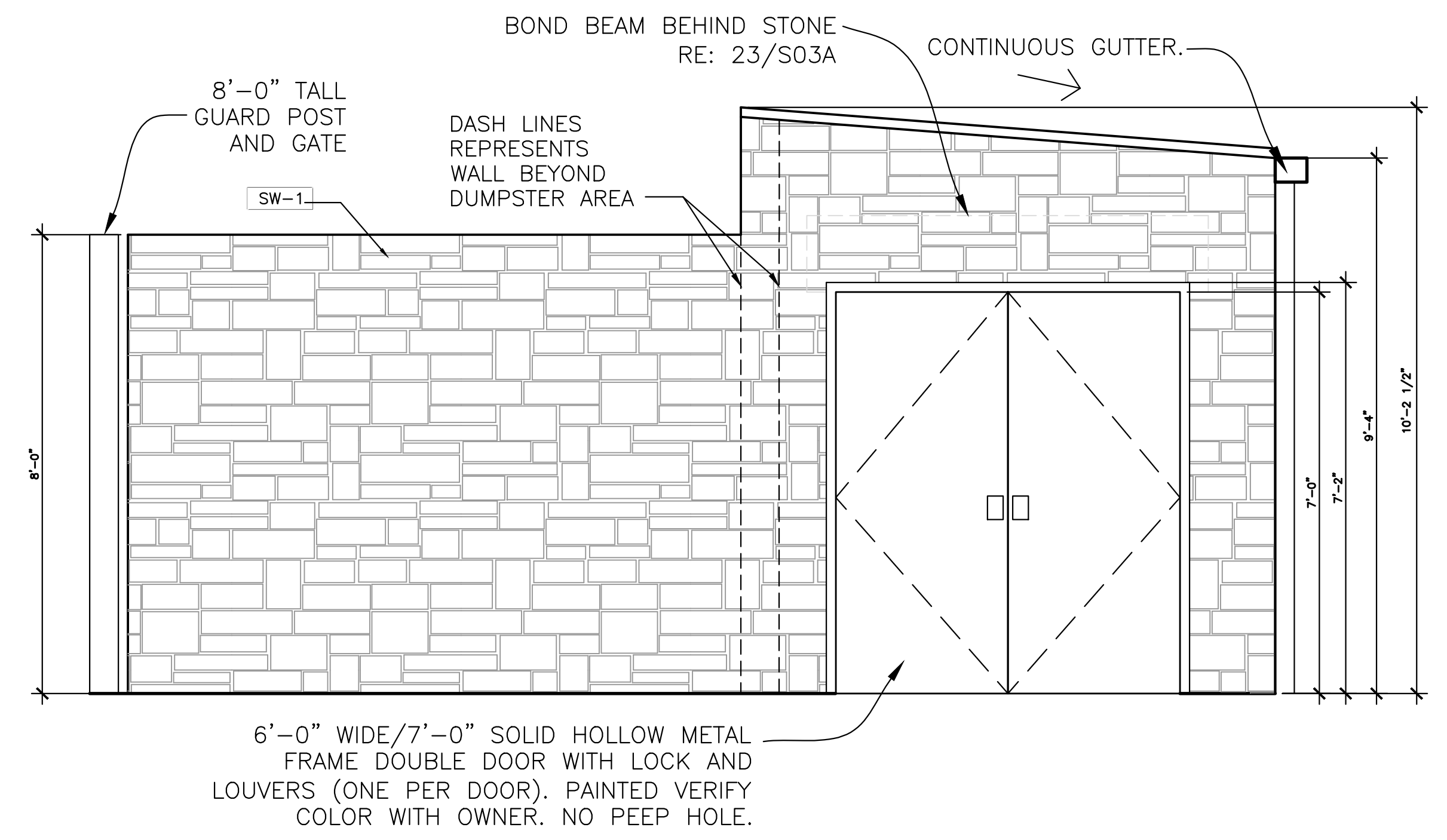
NOTE:
REFER TO CIVIL DRAWINGS FOR SLAB DETAILS



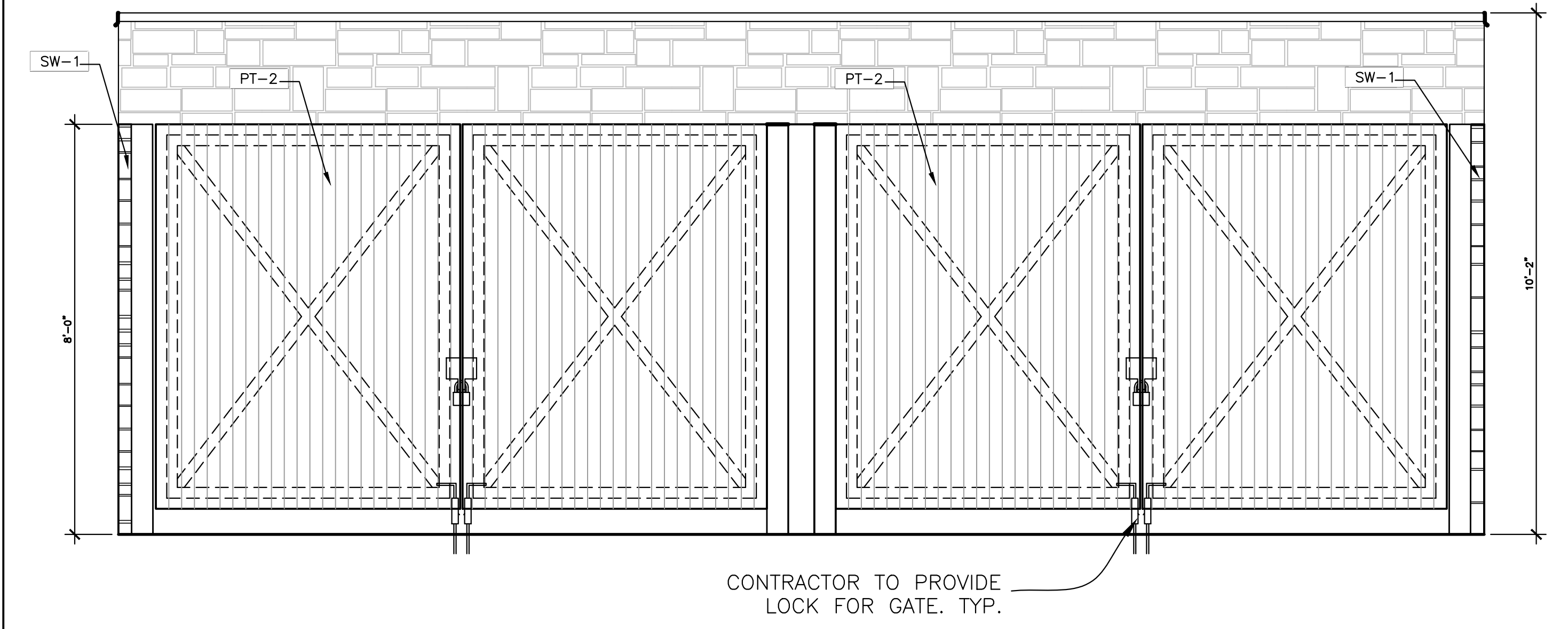
23 TRASH ENCLOSURE SIDE ELEVATION
SCALE: 1/2"=1'-0"
RE:



11 TRASH ENCLOSURE REAR ELEVATION
SCALE: 1/4"=1'-0"
RE:

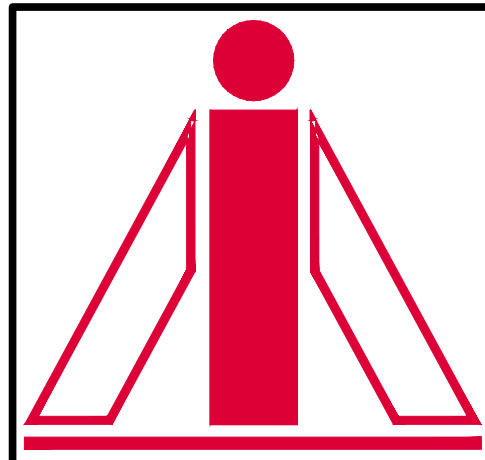


21 TRASH ENCLOSURE SIDE ELEVATION
SCALE: 1/4"=1'-0"
RE:



9 TRASH ENCLOSURE FRONT ELEVATION
SCALE: 1/4"=1'-0"
RE:

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PLANNING ARCHITECTURE INTERIORS
281-398-2020

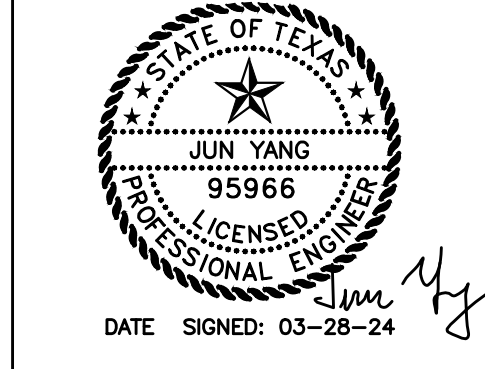
PROJECT NUMBER
CFE22-S03A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
McLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM REG. NO: 12652



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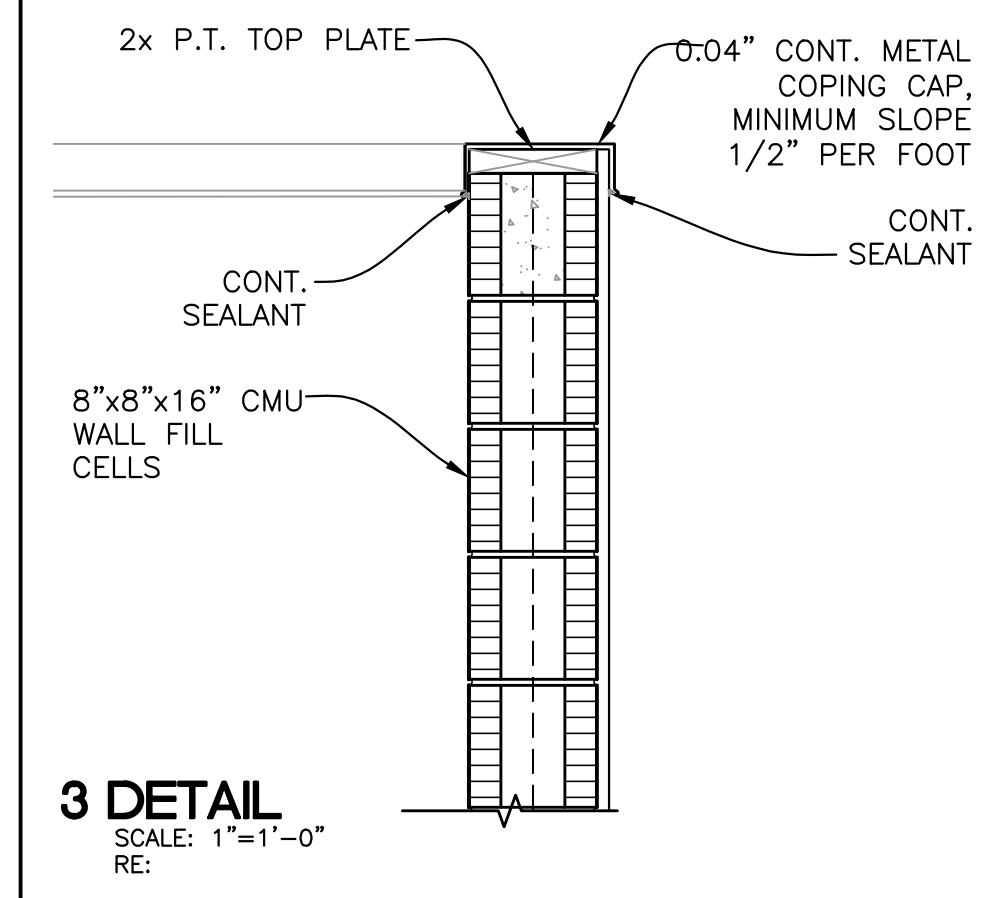
REVISIONS

NO.	DATE	DESCRIPTION

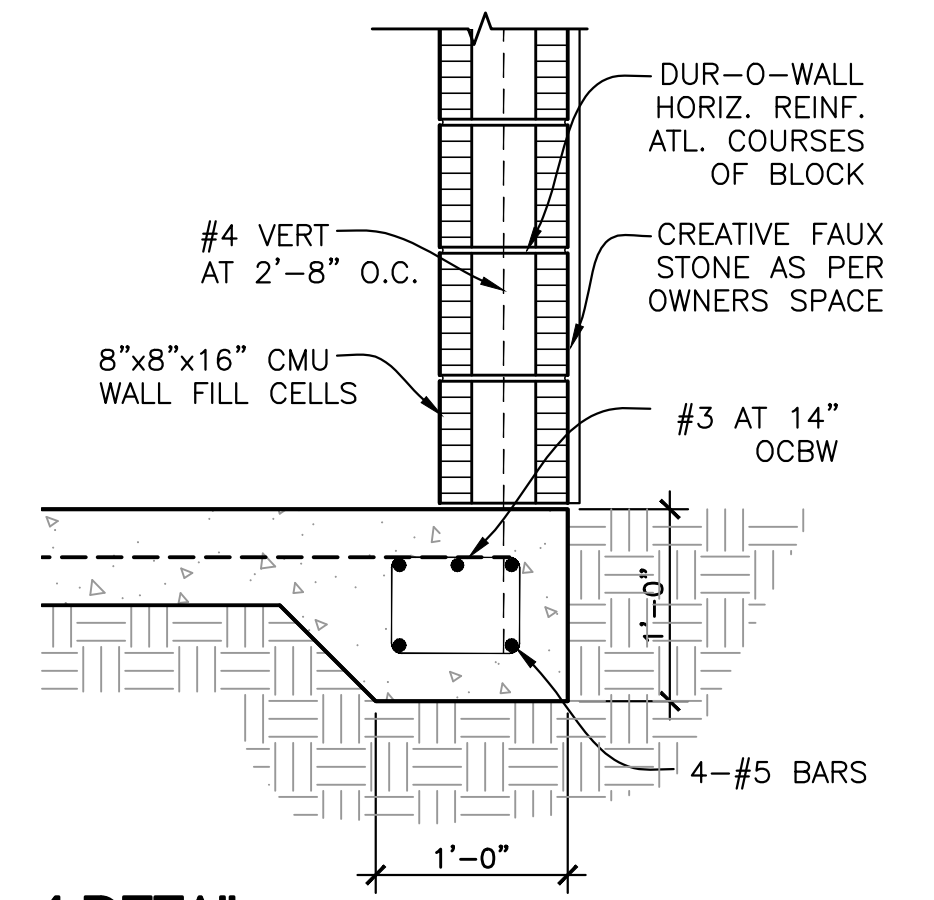
DRAWN BY: CHECKED BY: DATE

SHEET TITLE
TRASH ENCLOSURE SECTION AND DETAILS

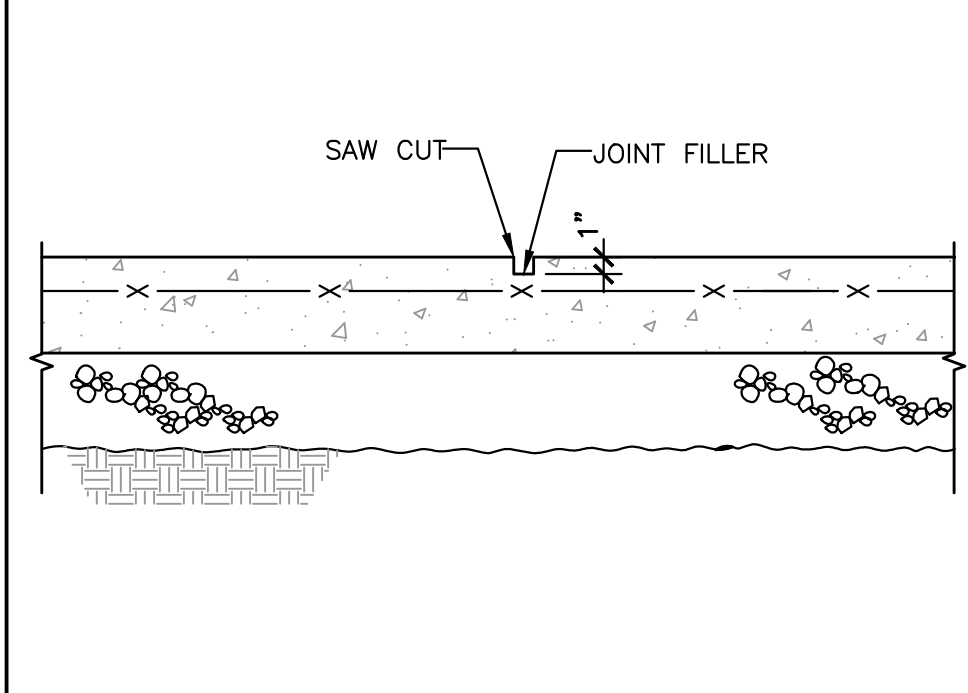
DRAWING NUMBER SHEET NO.
S03B



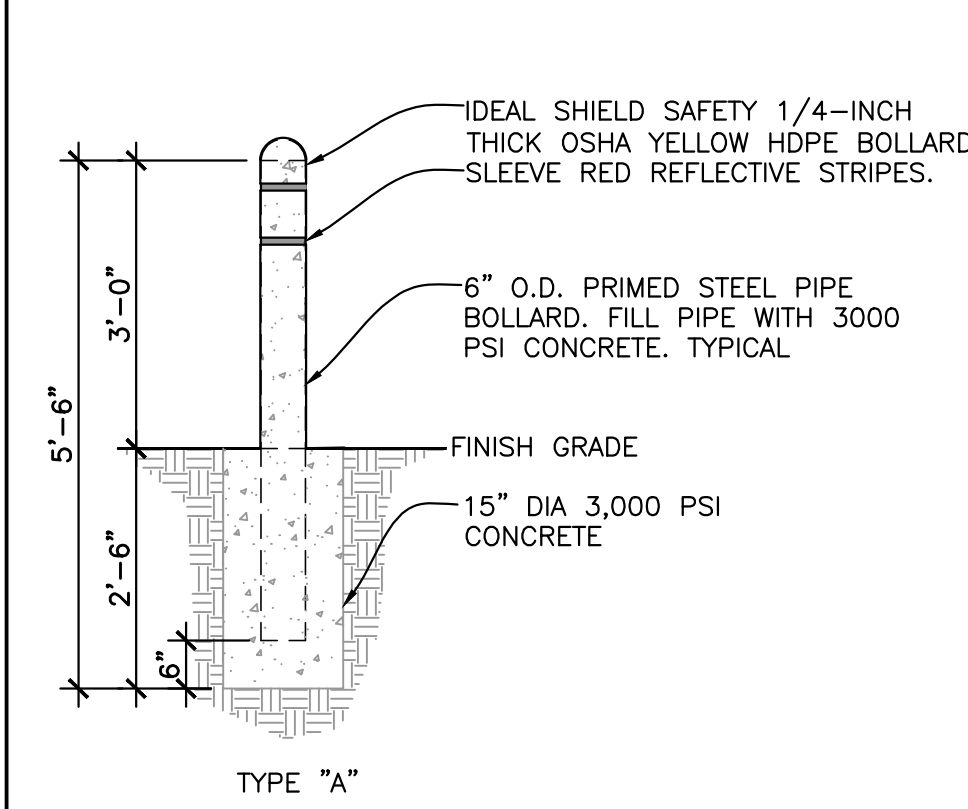
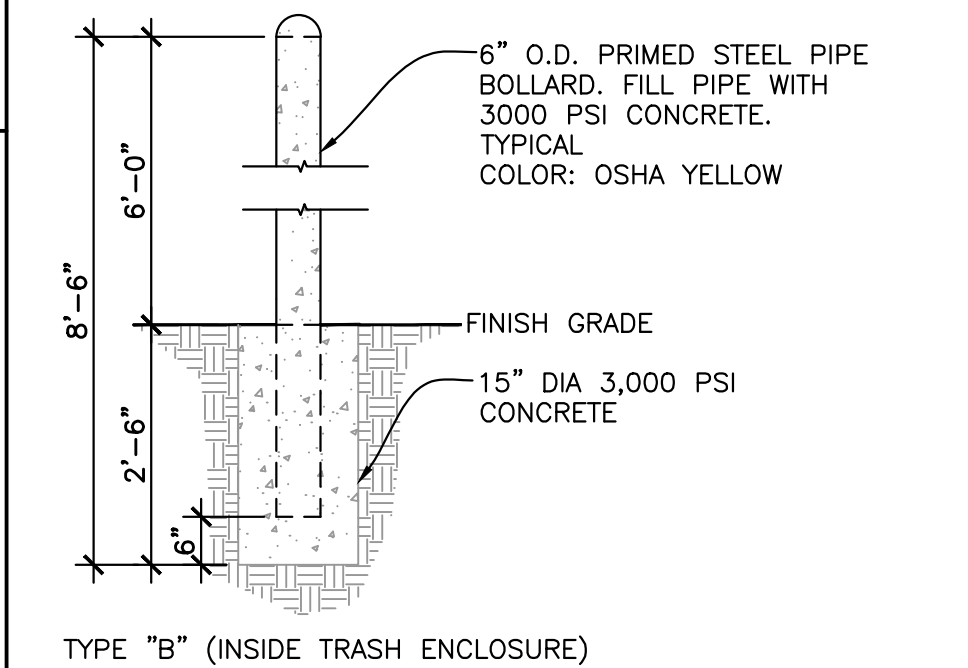
3 DETAIL
SCALE: 1"=1'-0"
RE:



4 DETAIL
SCALE: 1"=1'-0"
RE:

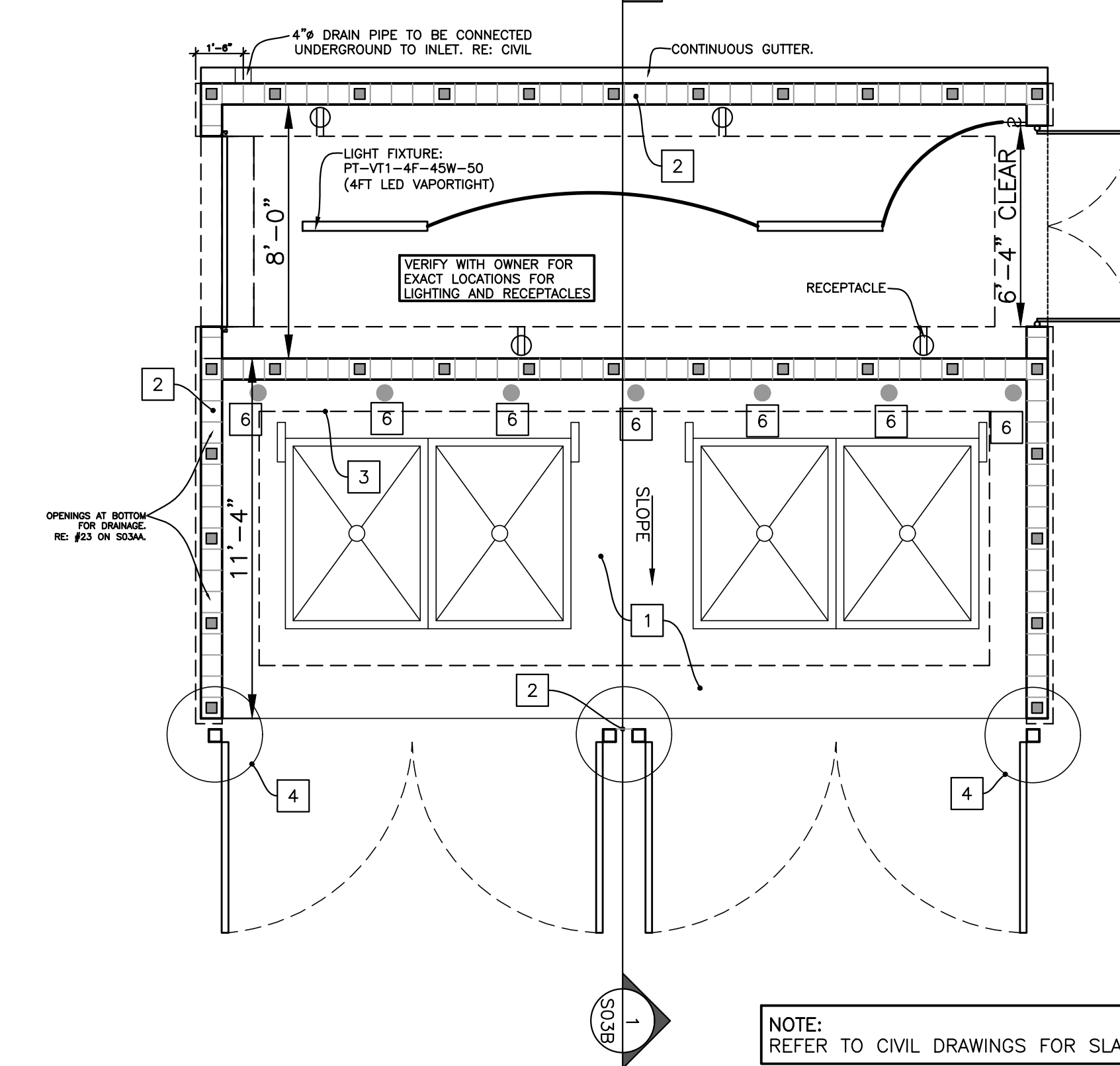


6 CONTROL JOINT DETAIL
SCALE: N.T.S.
RE:

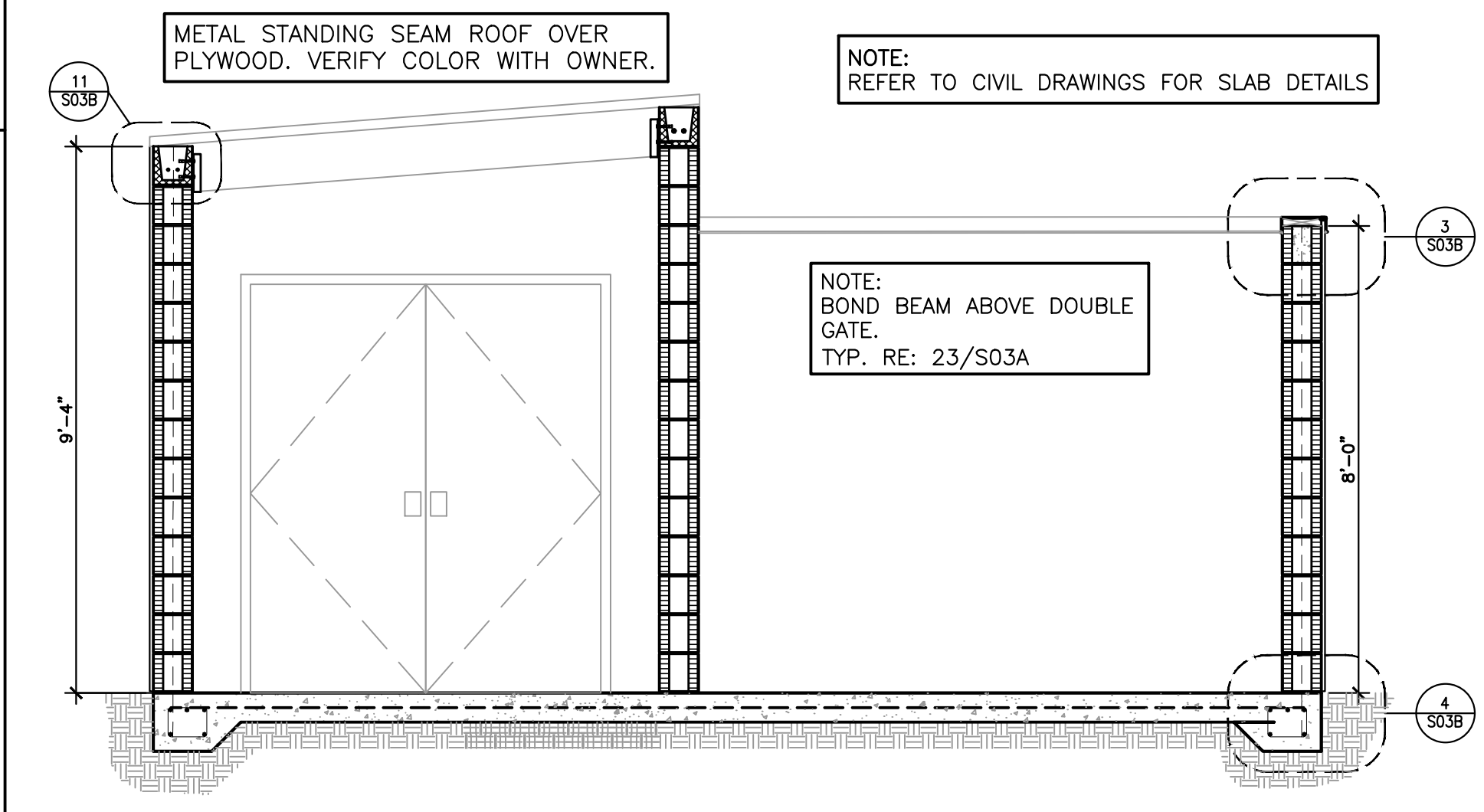


- NOTES:**
1. MANUFACTURER: IDEAL SHIELD
 2. PRODUCT NAME: 1/4" BOLLARD COVER
 3. COLOR NAME: OSHA YELLOW WITH RED REFLECTIVE STRIPES MATERIAL 1/4" THICK POLYETHYLENE THERMOPLASTIC (HDPE)
 4. TRIM: DOME TOP PLASTIC CAP
 5. INSTALLATION: INSTALL WITH MANUFACTURERS NEOPRENE ADHESIVE TAPE PER MANUFACTURERS INSTALLATION GUIDELINES.
- *REFER TO MANUFACTURER SPECIFICATIONS FOR MORE INFORMATION

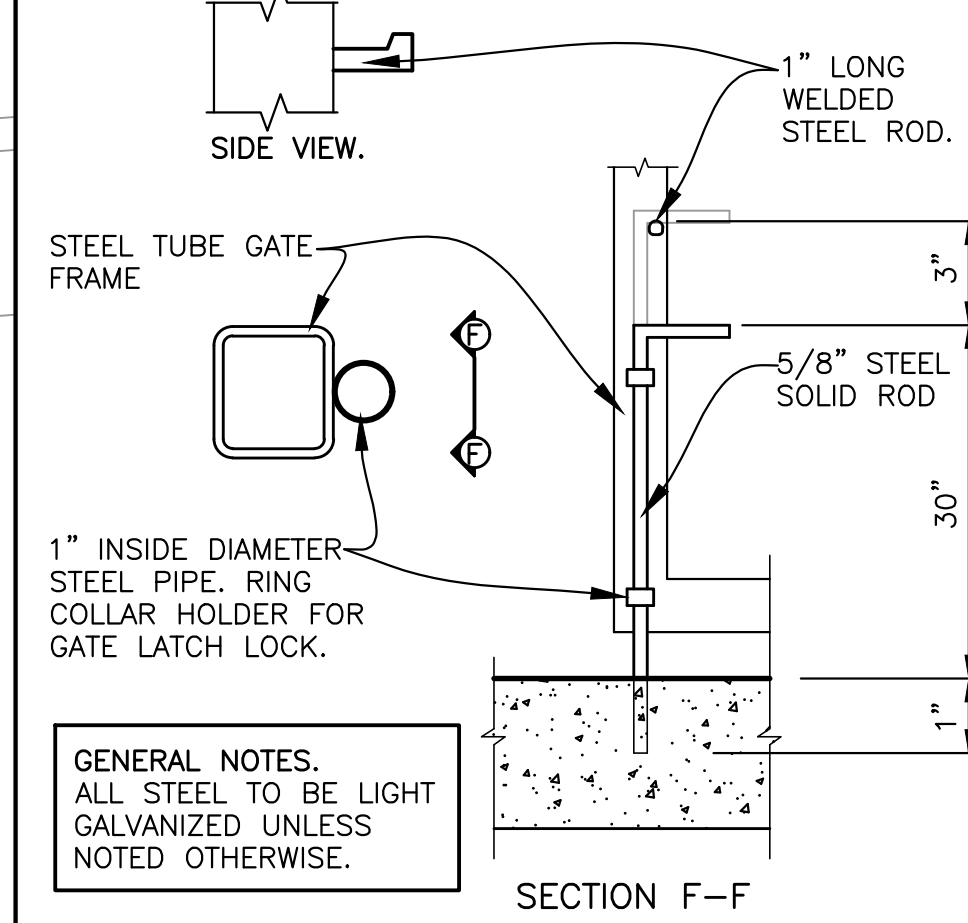
5 BOLLARD DETAIL
SCALE: 1/2"=1'-0"
RE:



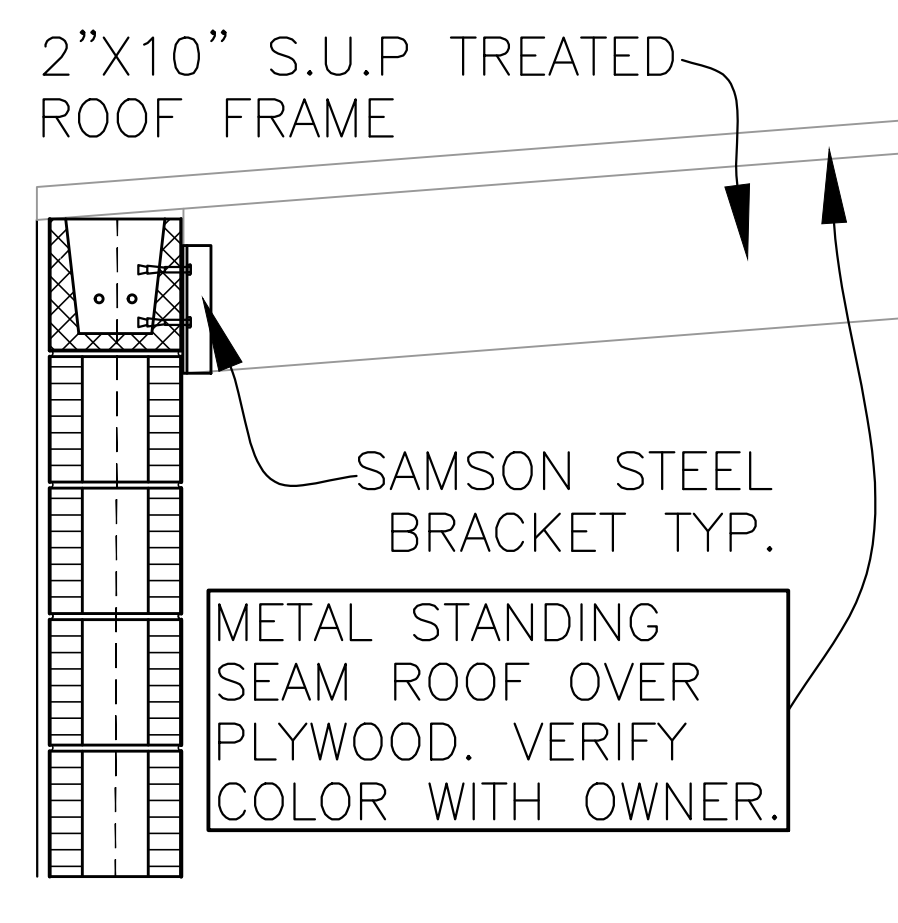
2 FOUNDATION PLAN
SCALE: 1/2"=1'-0"
RE:



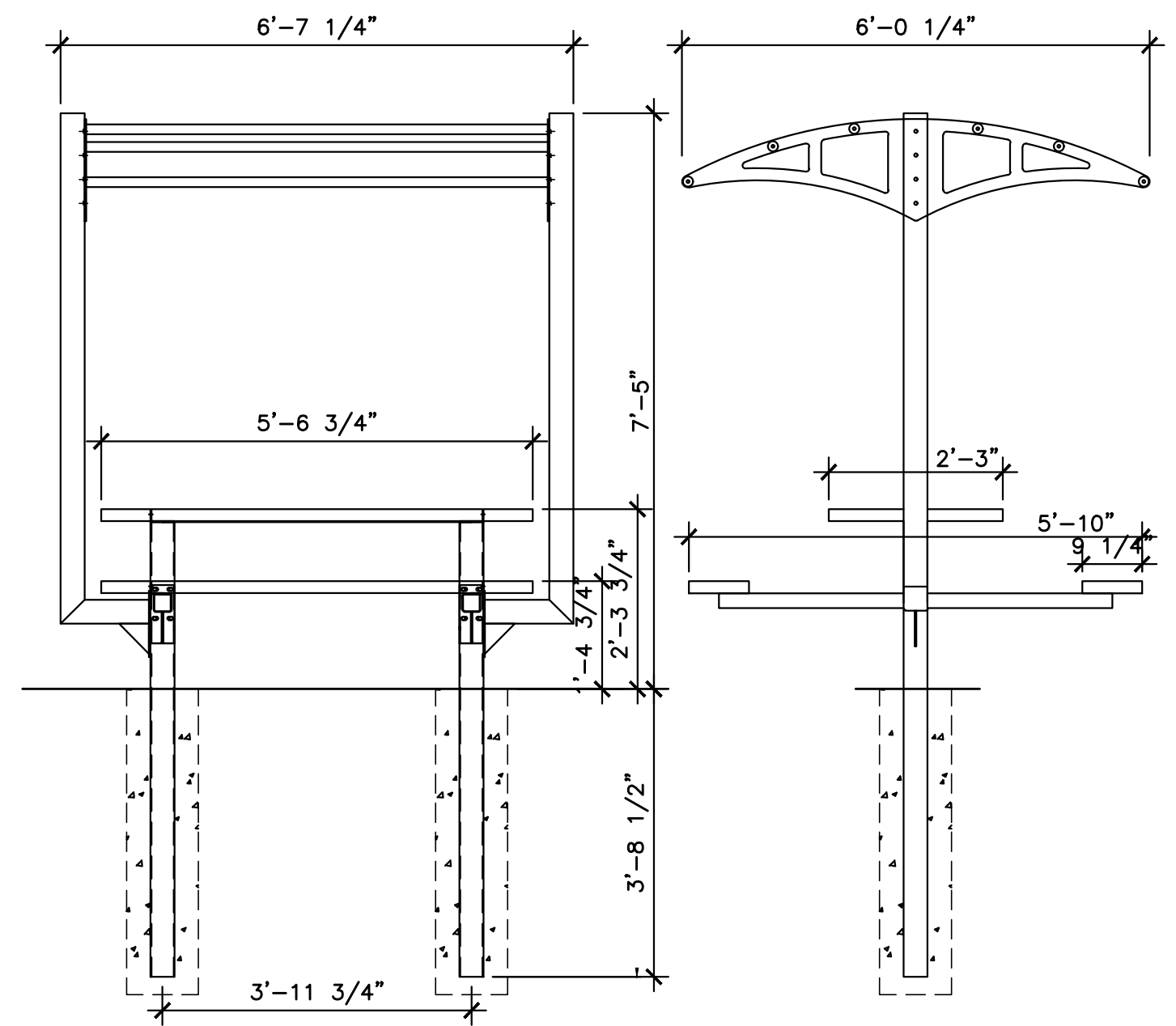
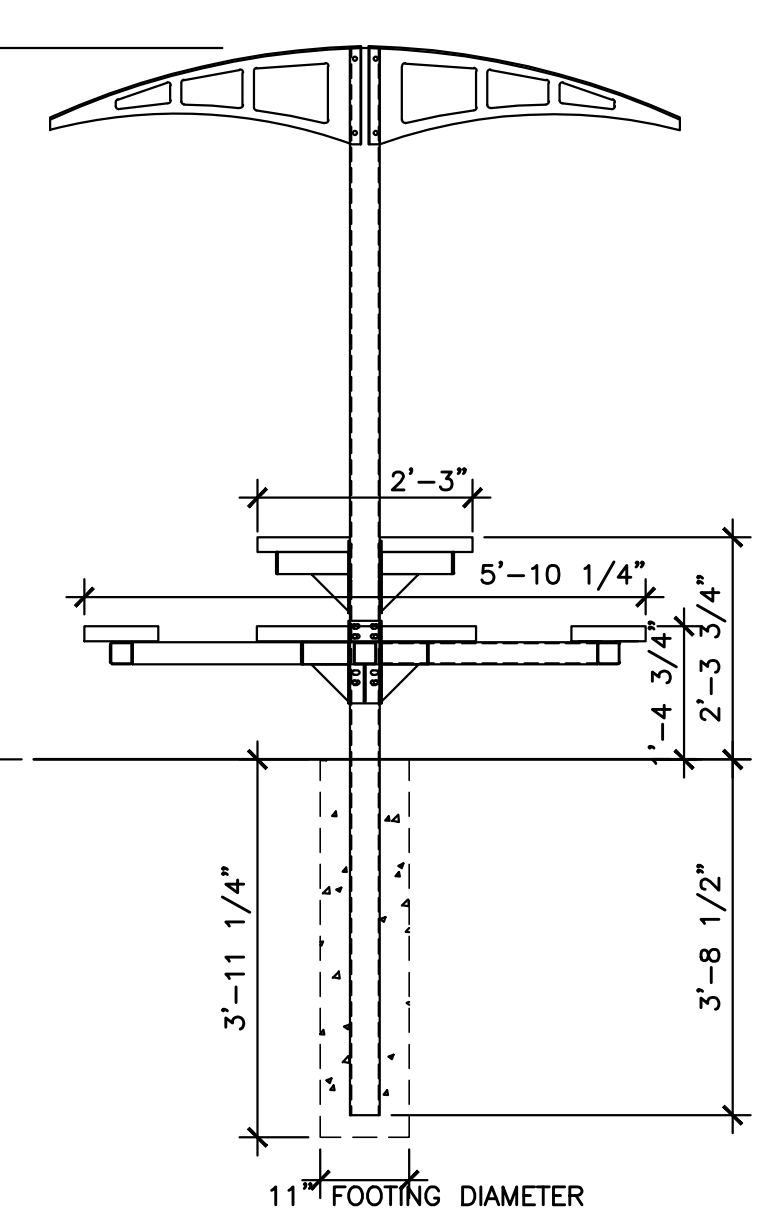
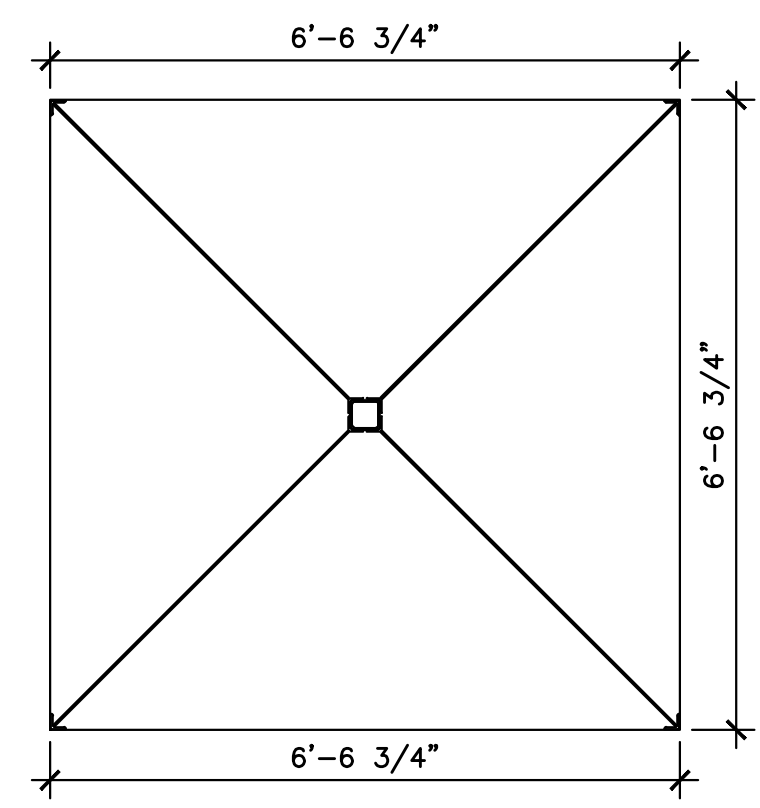
1 BUILDING SECTION
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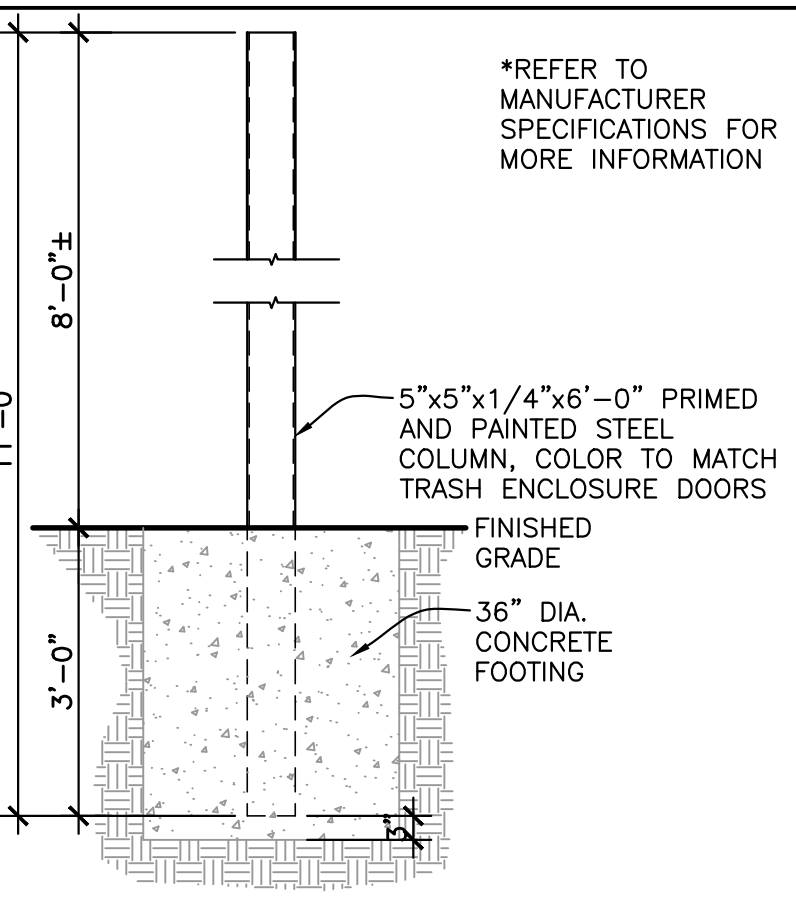
10 LATCH LOCK DETAIL
SCALE: N.T.S.



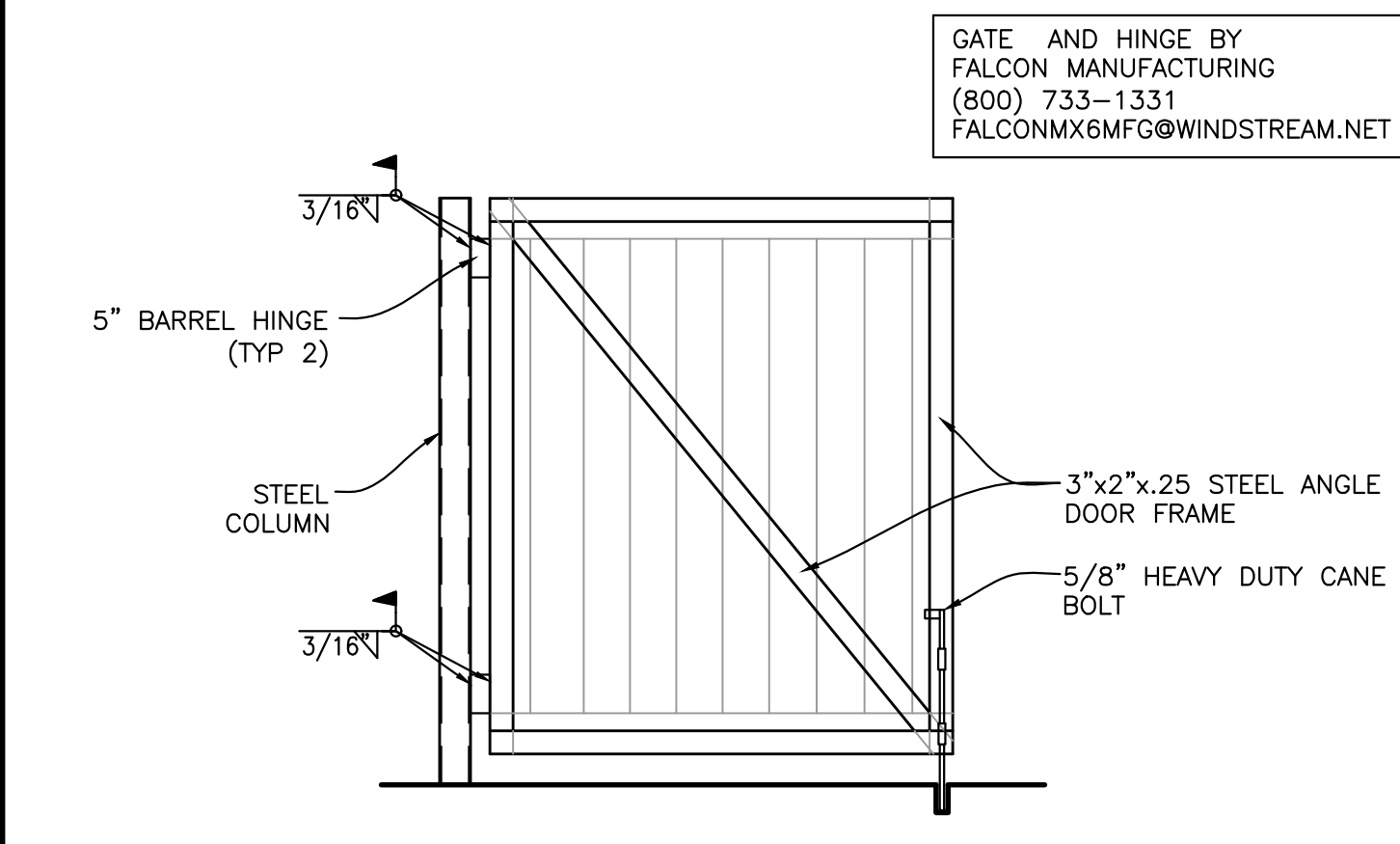
11 ROOF FRAMING TO CMU WALL
SCALE: N.T.S.



9 SHADED TABLES
SCALE: N.T.S.



7 COLUMN DETAIL
SCALE: 1/2"=1'-0"
RE:



8 COLUMN DETAIL
SCALE: 1/2"=1'-0"
RE:

GATE AND HINGE BY
FALCON MANUFACTURING
(800) 733-1331
FALCONMX@MFG@WINDSTREAM.NET

*REFER TO MANUFACTURER SPECIFICATIONS FOR MORE INFORMATION

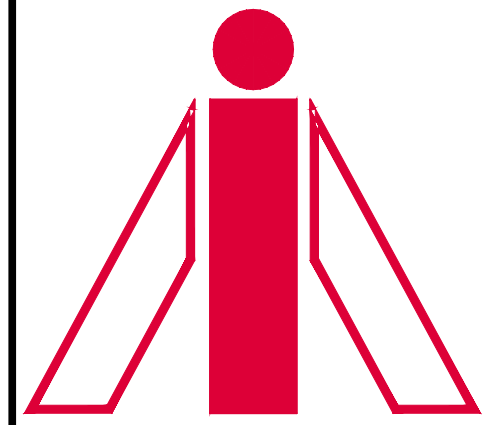
NOTE: REFER TO CIVIL DRAWINGS FOR SLAB DETAILS

NOTE: BOND BEAM ABOVE DOUBLE GATE. TYP. RE: 23/S03A

TRASH ENCLOSURE FOUNDATION NOTES:

- 1 6" SLAB ON GRADE WITH W/6"x6" W2.9xW2.9 W.W.F
- 2 MASONRY FAUX STONE VENEER TO MATCH MAIN BUILDING ON 8" CONCRETE FILLED BLOCK WALL.
- 3 TYPICAL WALL FOOTING 12"x12" CONT. WITH 2#5 BOTTOM REINF.
- 4 REFER TO DETAIL 5 FOR STEEL COLUMN AND FOOTER DETAIL
- 5 BOLLARD TYPE "A", REFER TO DETAIL THIS SHEET
- 6 BOLLARD TYPE "B", REFER TO DETAIL THIS SHEET

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-S03C.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM REG. NO: 12652

DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
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	FINAL PRINT

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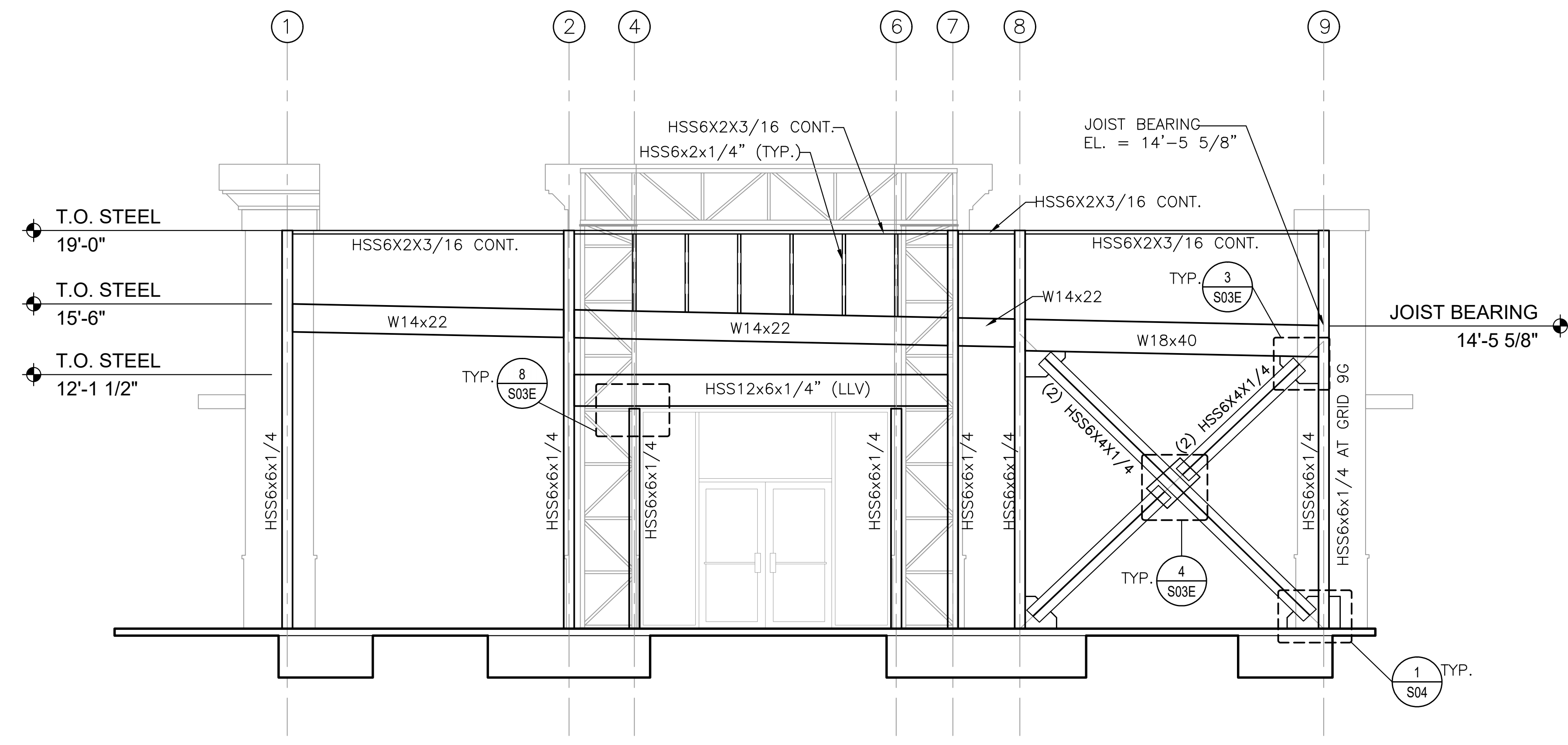
REVISIONS

NO.	DATE	DESCRIPTION

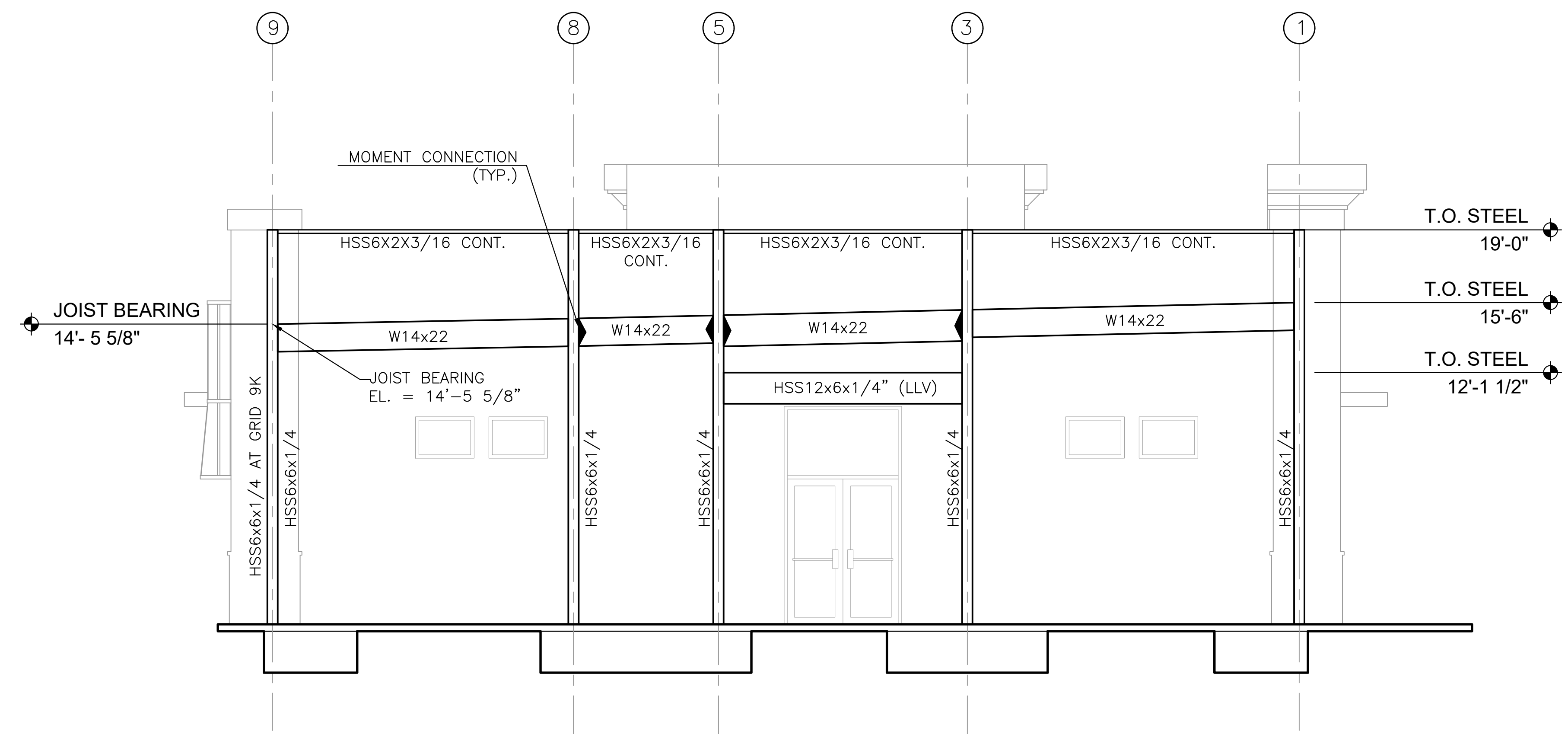
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SHEET TITLE
BUILDING ELEVATIONS

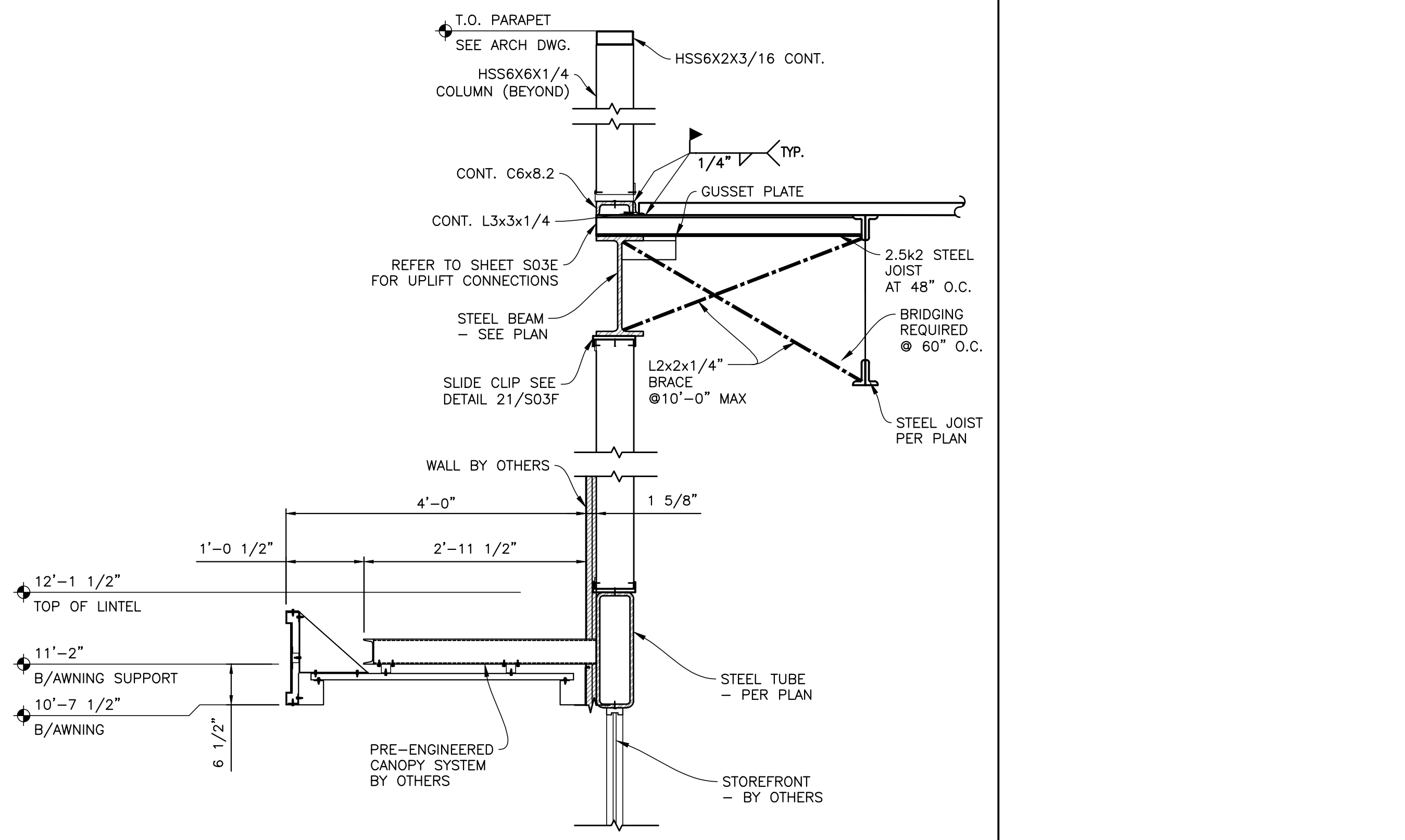
DRAWING NUMBER SHEET NO.
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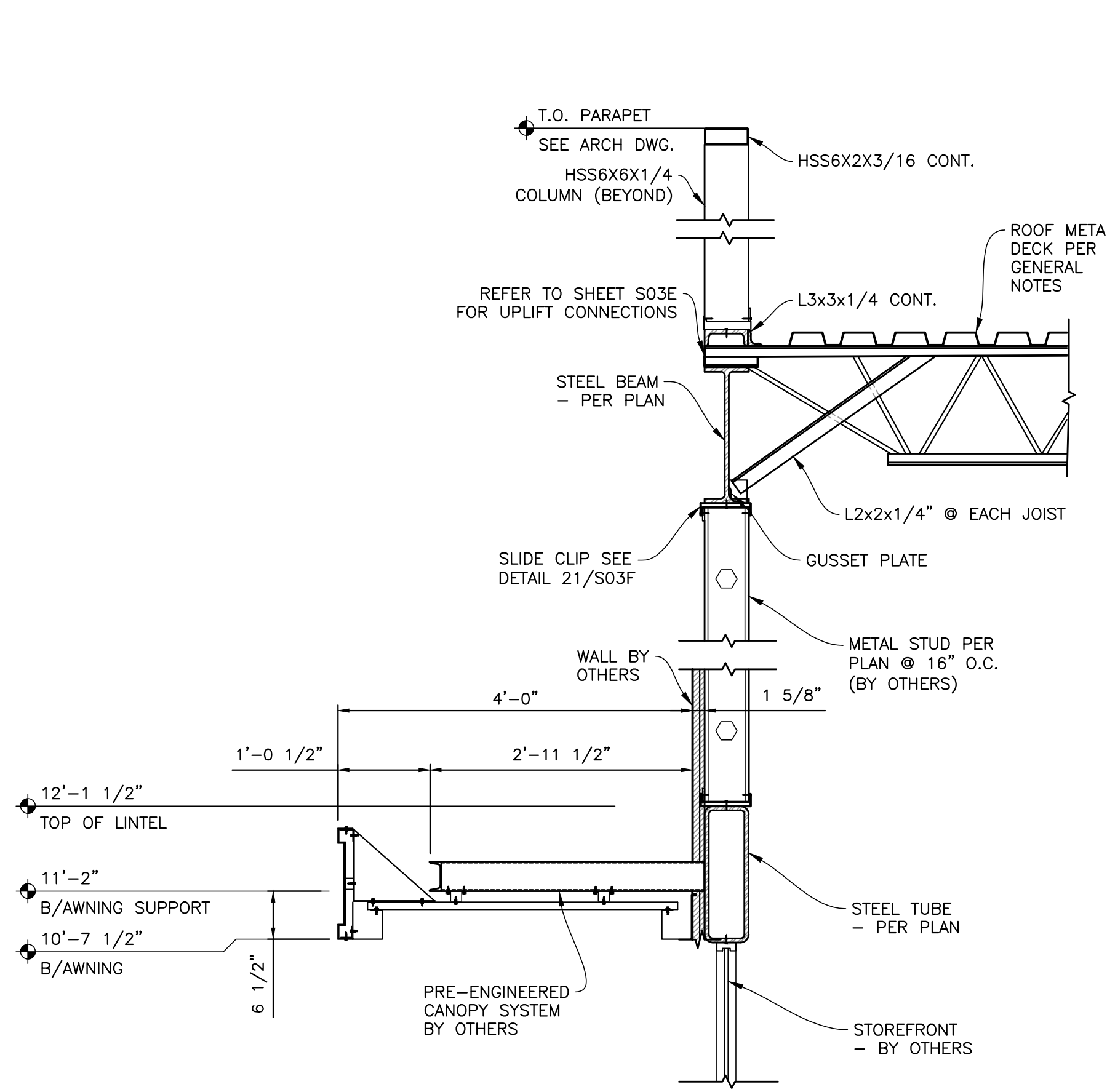
1 BUILDING ELEVATION AT GRID O
SCALE: 3/16"=1'-0"
RE:



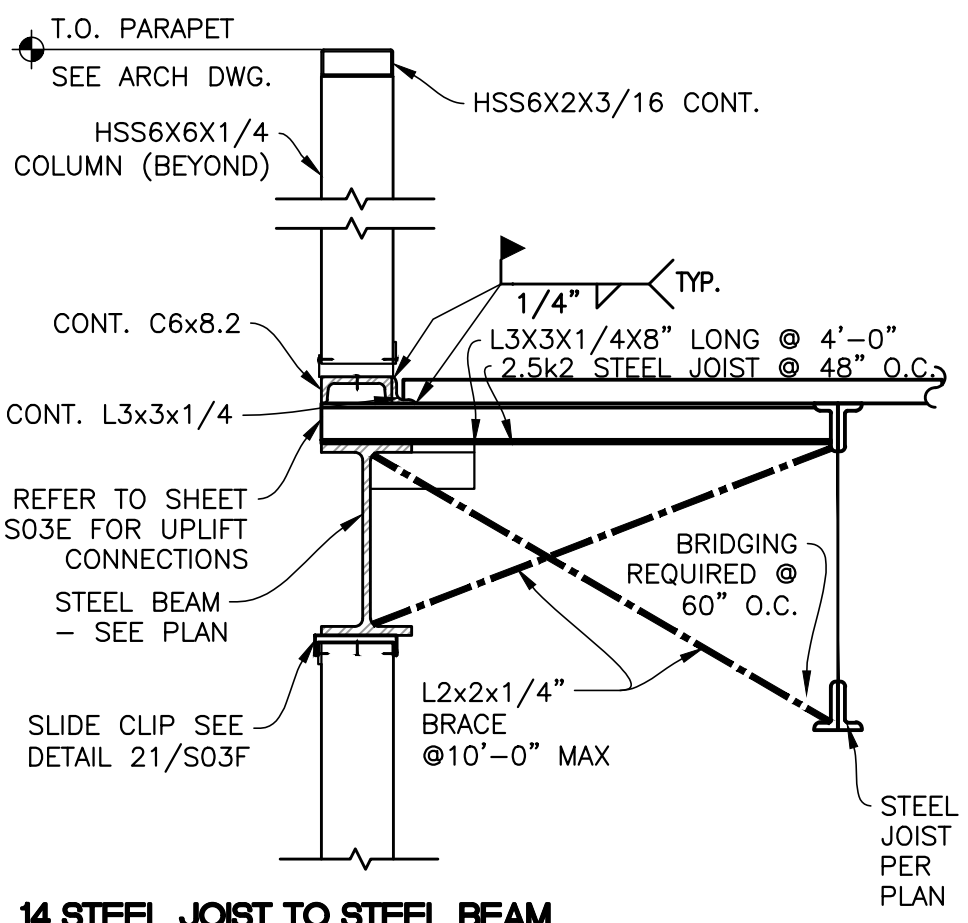
1 BUILDING ELEVATION AT GRID A
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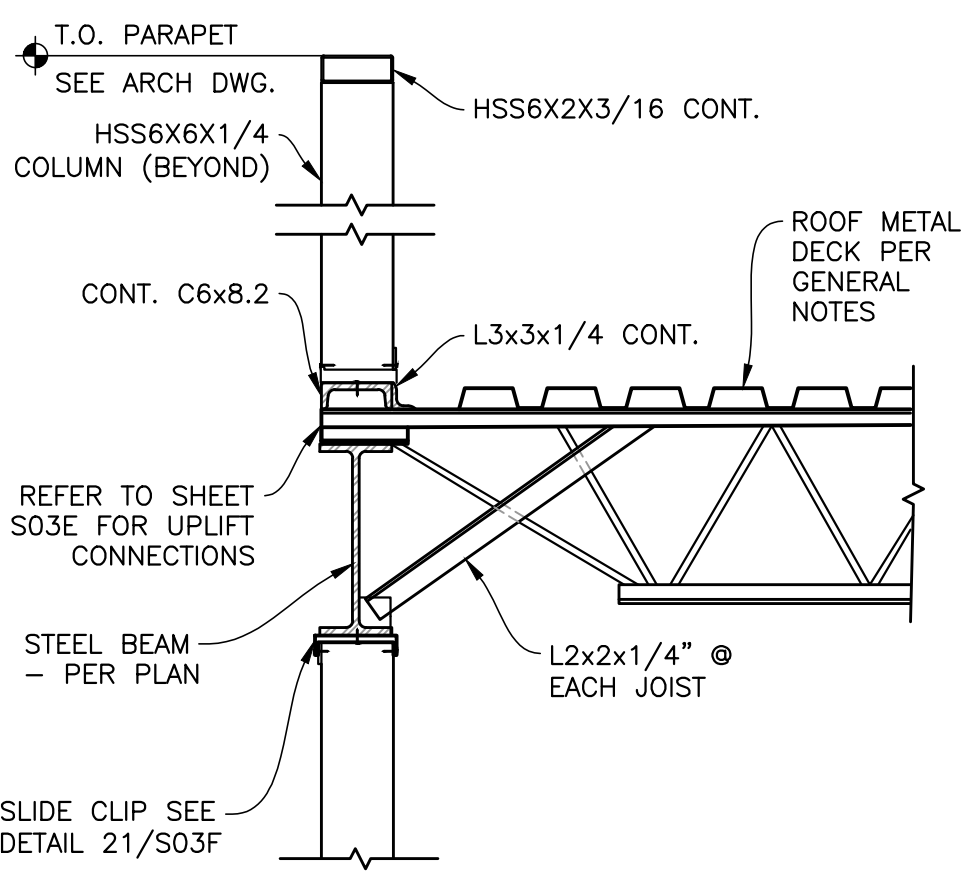
23 STEEL JOIST TO STEEL TUBE
SCALE: 3/4"=1'-0"
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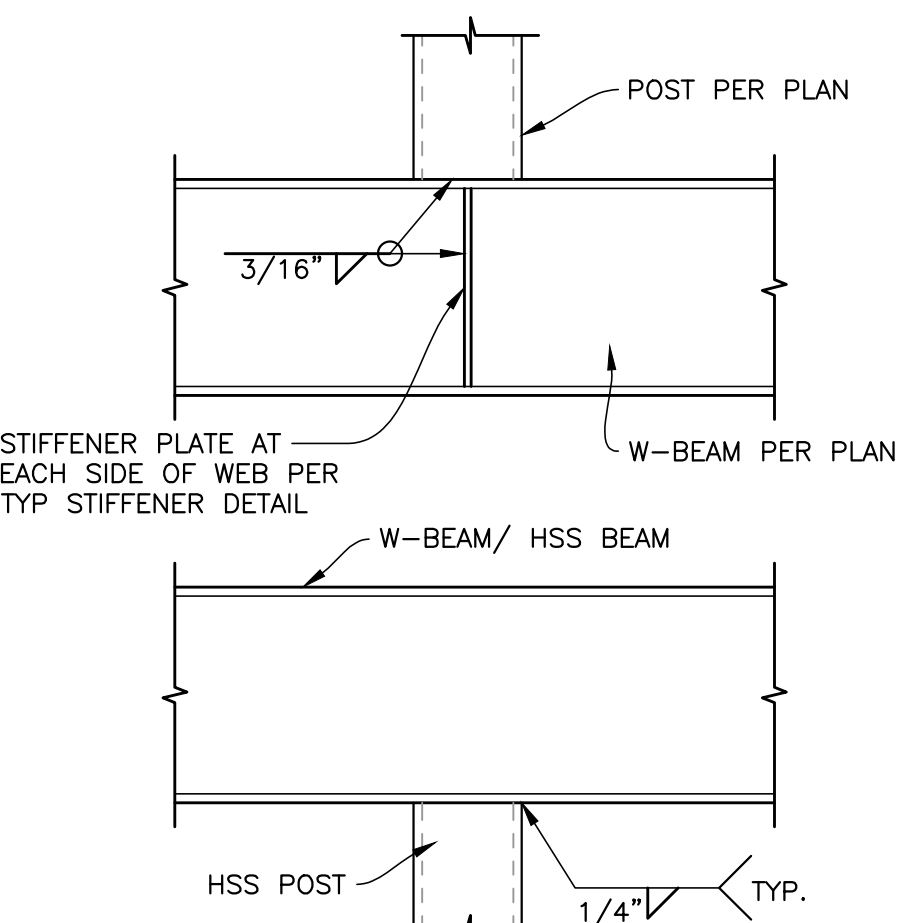
21 STEEL JOIST TO STEEL TUBE
SCALE: 3/4"=1'-0"
RE:



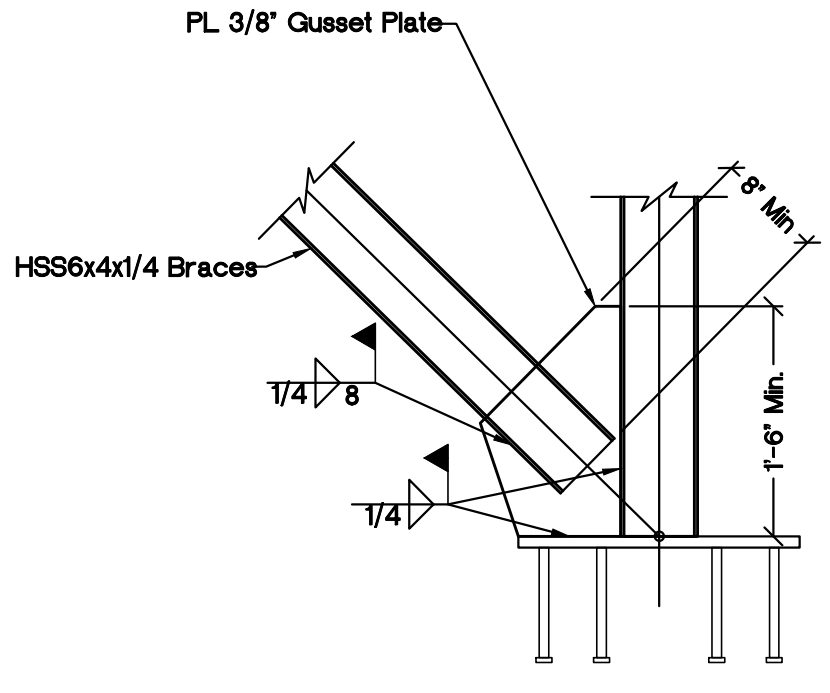
14 STEEL JOIST TO STEEL BEAM
SCALE: 3/4"=1'-0"
RE:



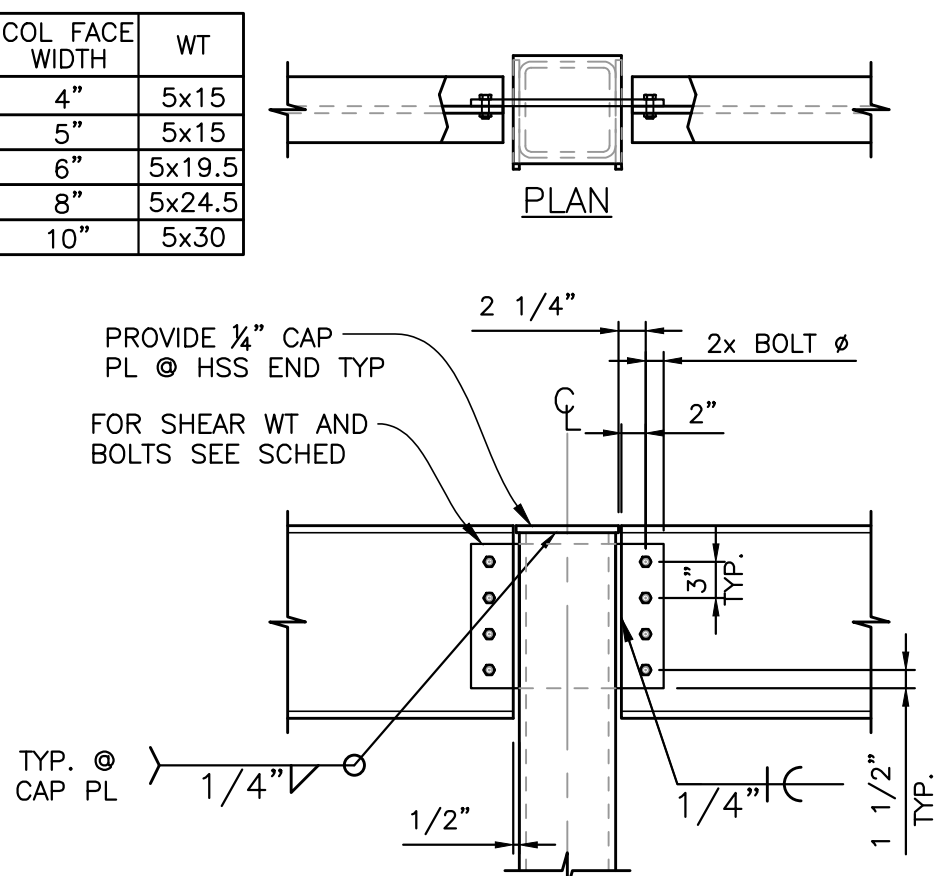
13 TYP. ANCHOR ROD DETAIL
SCALE: 3/4"=1'-0"
RE:



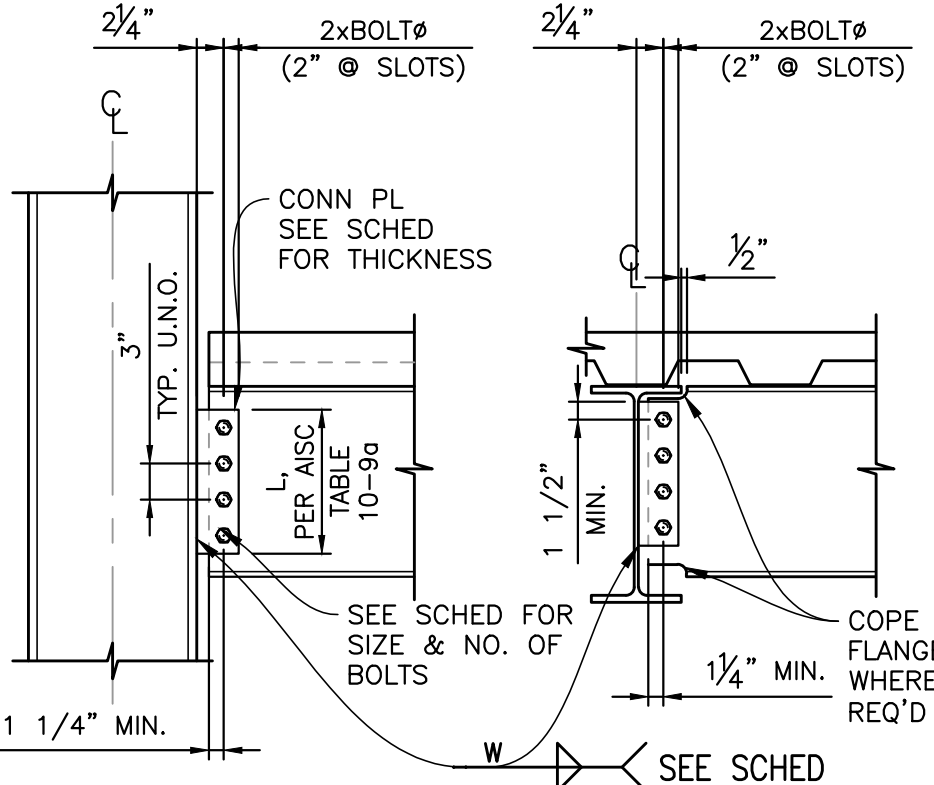
8 TYP. POST ON BEAM
SCALE: 3/4"=1'-0"



7 BASE CONNECTION X-BRACED FRAME
SCALE: N.T.S



6 BEAM TO HSS COLUMN (TOP)
SCALE: 3/4"=1'-0"



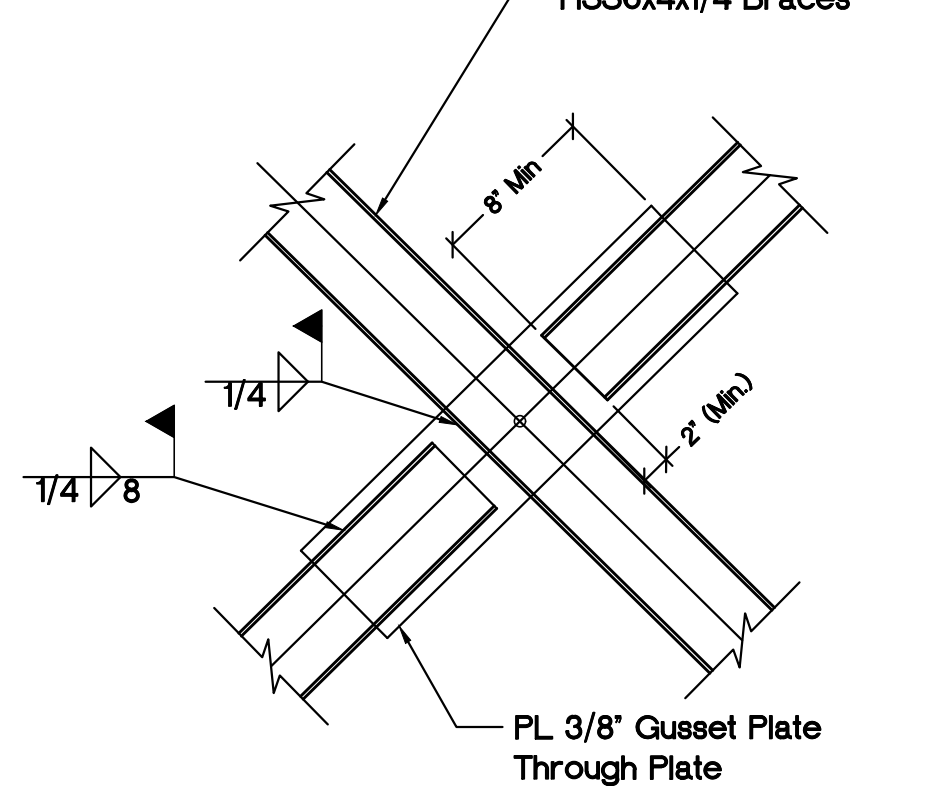
2 TYP. BEAM TO COLUMN CONNECTION
SCALE: NTS

STANDARD BOLTED CONNECTION SCHEDULE "A"			
BEAM SIZE	NUMBER & SIZE OF BOLTS REQ'D	PLATE THICKNESS	WELD SIZE (W)
W6, C6, C7	(2) 3/4" Ø @ 2" GA	1/2"	3/8"
W8, C8, C9	(2) 3/4" Ø	1/2"	3/8"
W10, C10	(2) 3/4" Ø	3/8"	1/2"
W12, C12	(3) 3/4" Ø	3/8"	1/2"
W14, C15	(3) 3/4" Ø	3/8"	1/2"
W16	(4) 3/4" Ø	3/8"	1/2"
W18	(4) 3/4" Ø	3/8"	1/2"
W21	(5) 3/4" Ø	3/8"	1/2"
W24	(6) 3/4" Ø	3/8"	1/2"

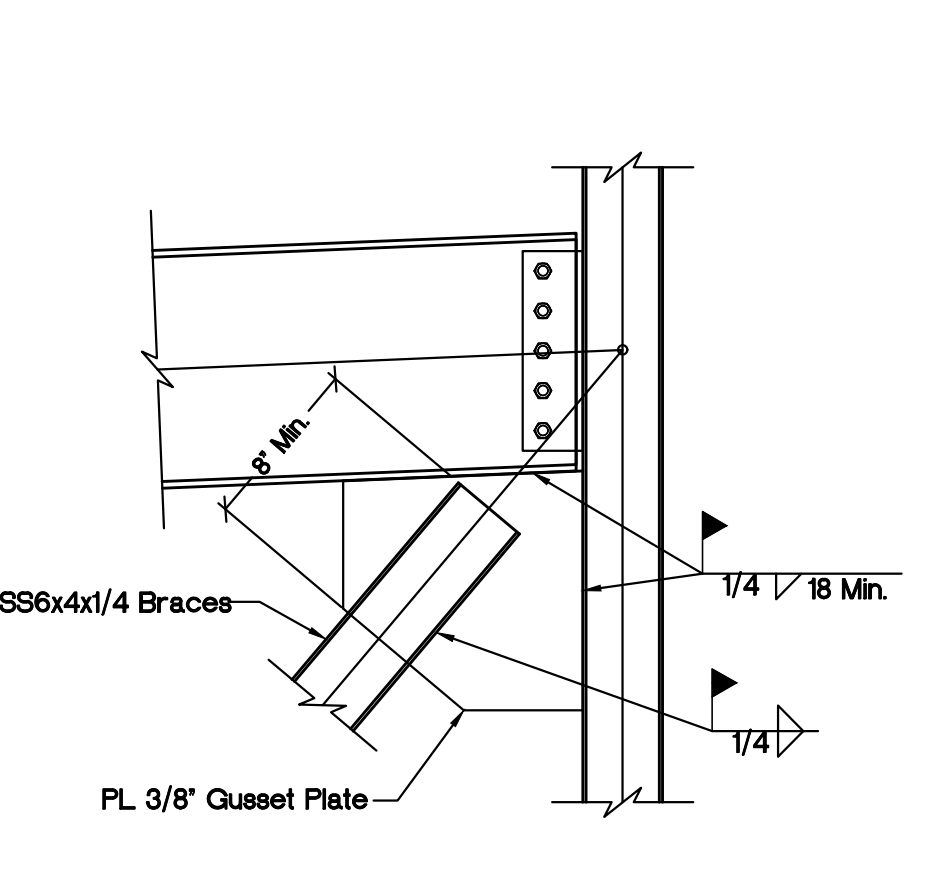
- NOTES:
- SHORT SLOTTED HOLES MAY BE USED AT ALL COLUMN CONNECTIONS AS AN OPTION. FOR 10,11 & 12 BOLT GROUPS, USE SHORT SLOTTED HOLES AT CONNECTIONS TO COLUMNS.
 - FOR BEAM TO COLUMN WEB CONNECTION AT W14 & SMALLER COLUMNS, SEE EXTENDED PLATE DETAIL.

5 STANDARD BOLTED BEAM CONNECTION
SCALE: 3/4"=1'-0"

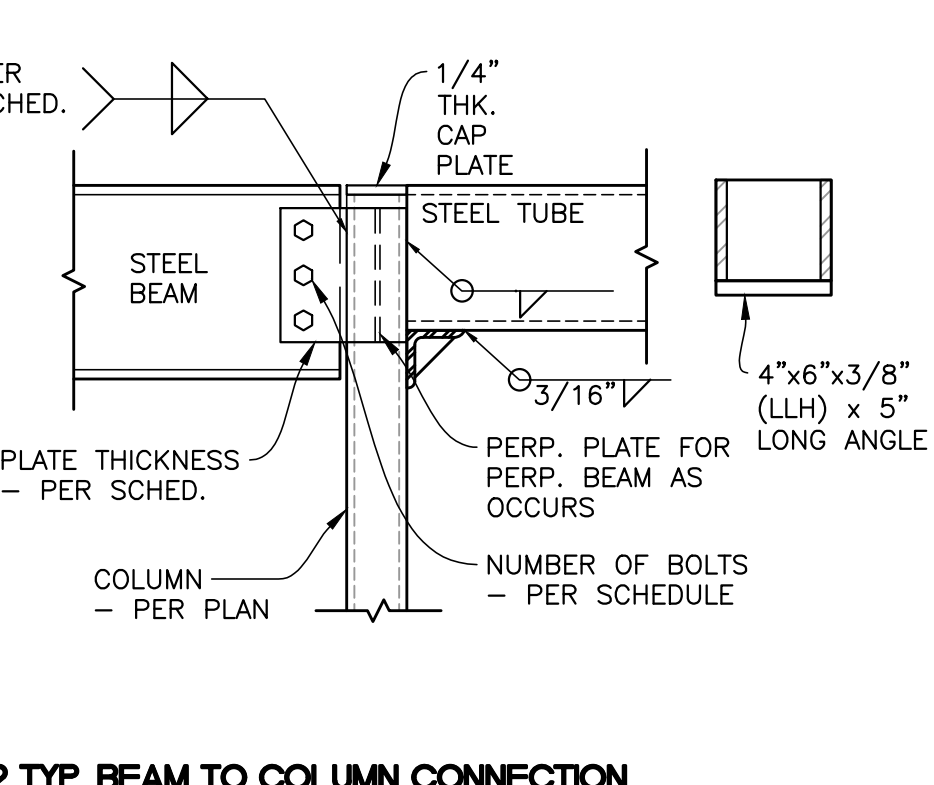
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4 X-BRACING INTERSECTION
SCALE: N.T.S



3 ROOF CONNECTION X-BRACED FRAME
SCALE: N.T.S



1 TYP. ANCHOR ROD DETAIL
SCALE: 3/4"=1'-0"

- NOTES:
- REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
 - REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
 - ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
 - PROTECT ANCHOR RODS FROM DAMAGE.
 - ANCHOR SHALL BE SET SO AS NOT TO VARY FROM THE DIMENSIONS SHOWN ON THE ERECTION DRAWINGS BY MORE THAN THE FOLLOWING:
 - A. 1/8" CENTER TO CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
 - B. 1/4" CENTER TO CENTER OF ADJACENT ANCHOR RODS GROUPS.
 - C. ELEVATION OF THE TOPOF ANCHOR RODS ± 1/2"
 - D. MAXIMUM ACCUMULATION OF 1/4" PER HUNDRED FEET ALONG THE ESTABLISHED COLUMN LINE.
 - E. 1/4" FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
 - FOR BEAM TO COLUMN WEB CONNECTION AT W14 & SMALLER COLUMNS, SEE EXTENDED PLATE DETAIL.
 - PROVIDE MINIMUM 1" NON-SHRINK GROUT AT ALL BASE PLATES.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE

STEEL FRAMING DETAILS

DRAWING NUMBER: **S03E** SHEET NO. _____



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

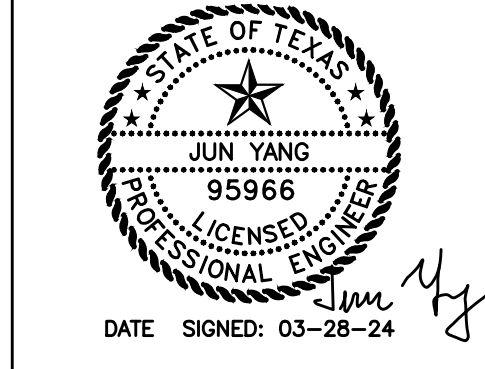
PROJECT NUMBER
CEF22-S03E.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

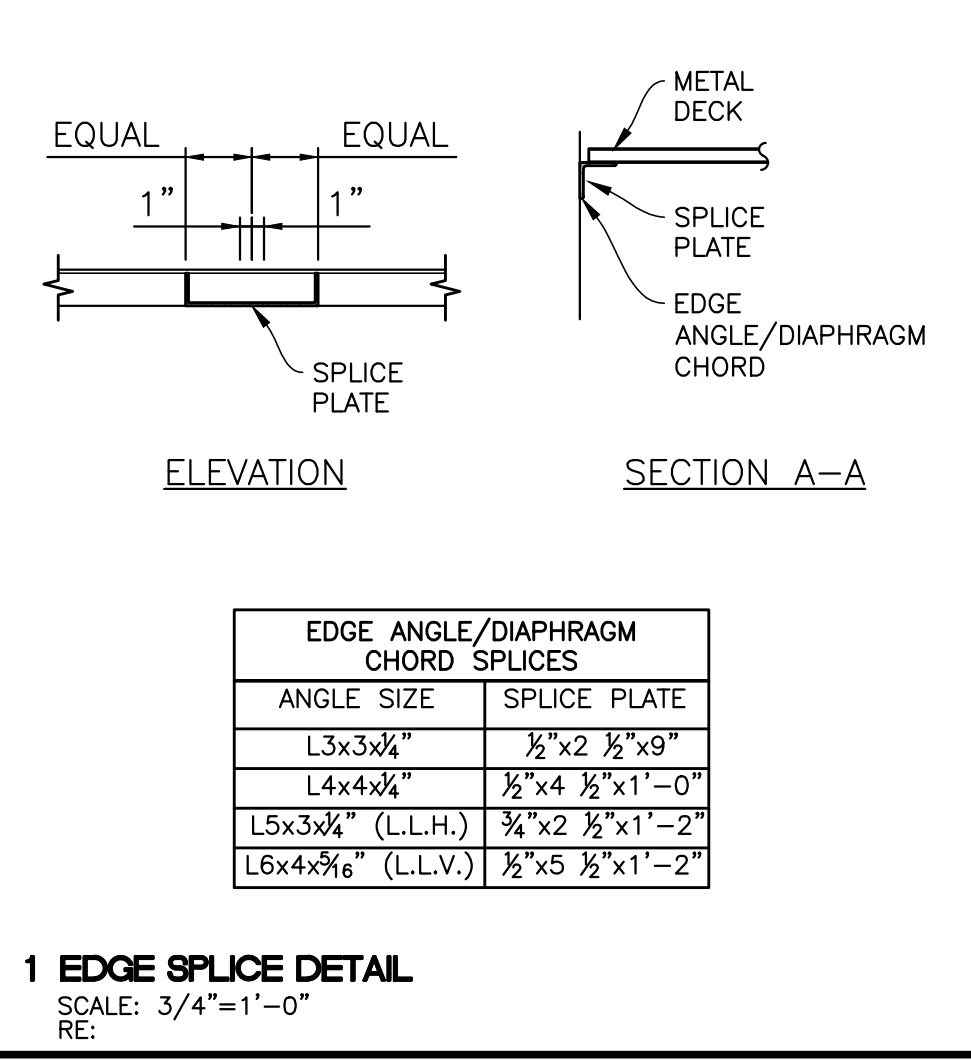
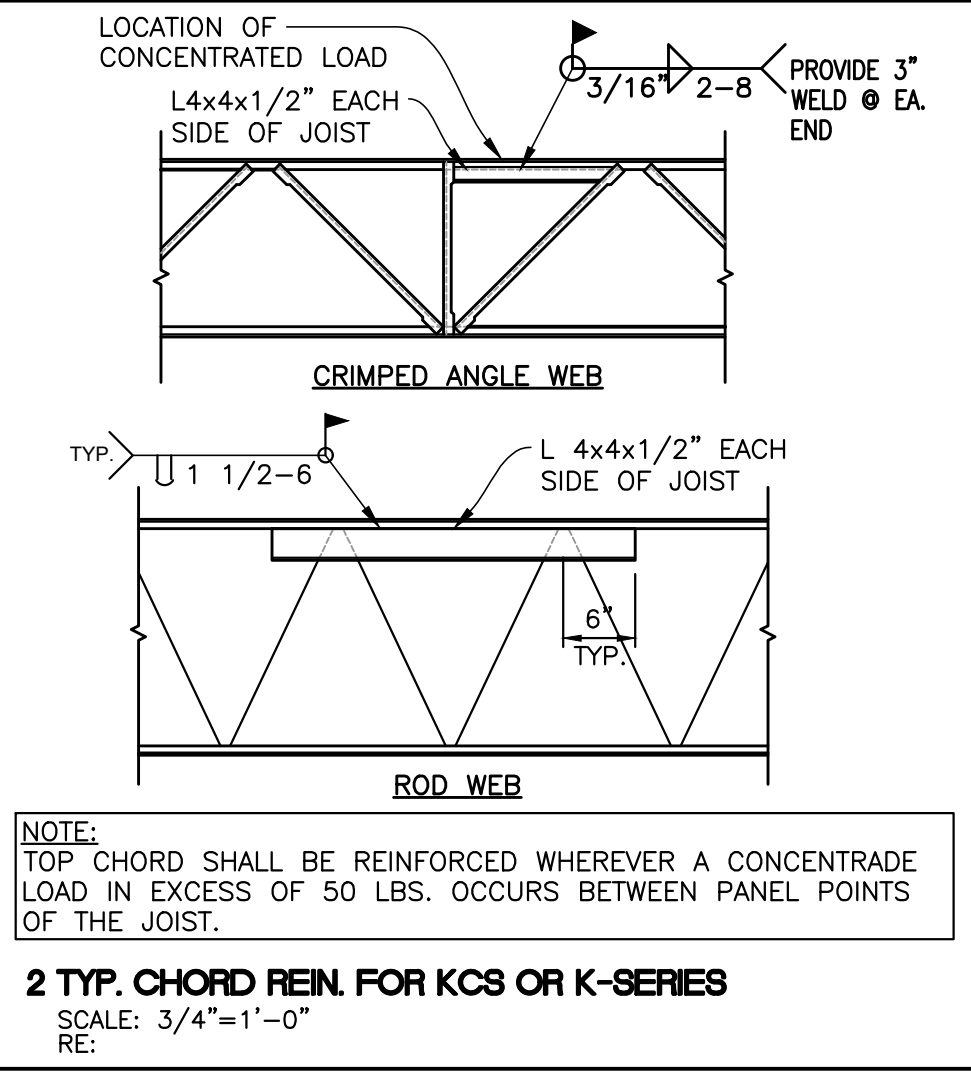
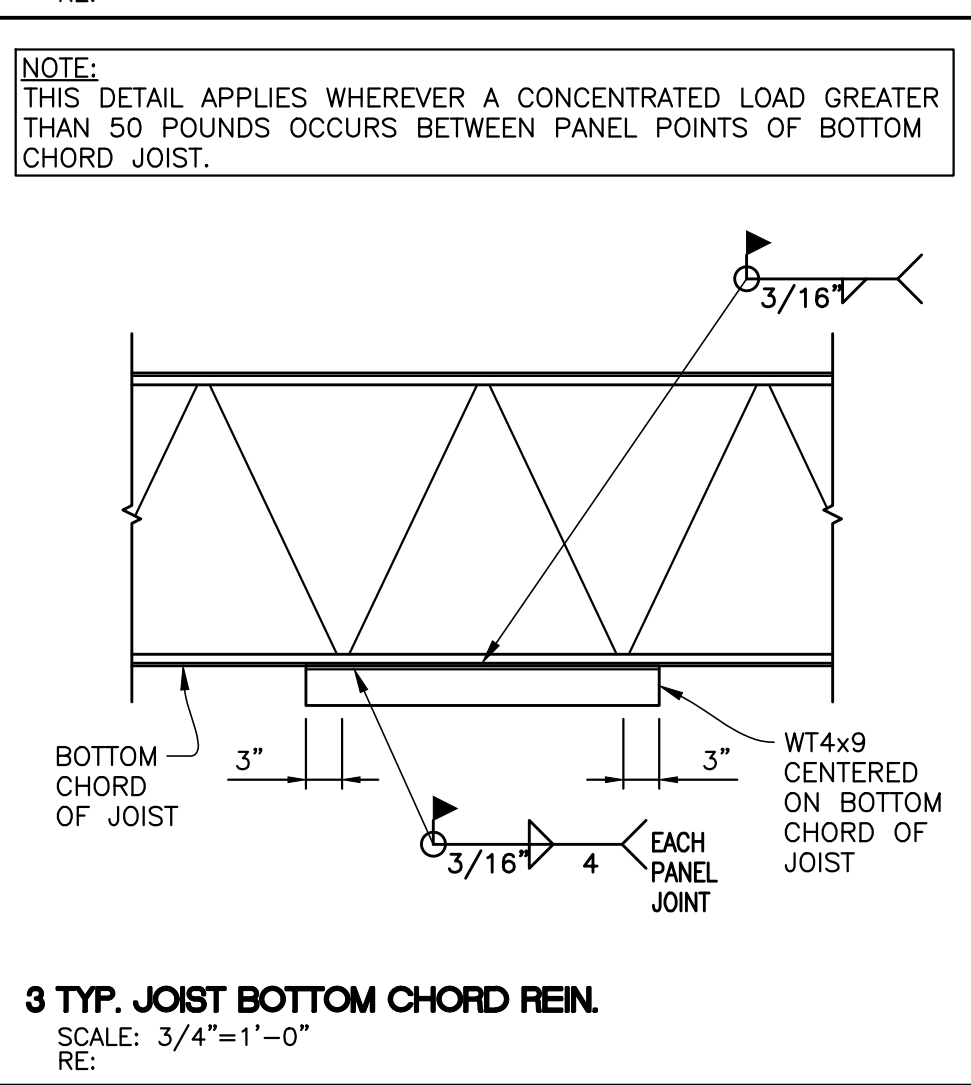
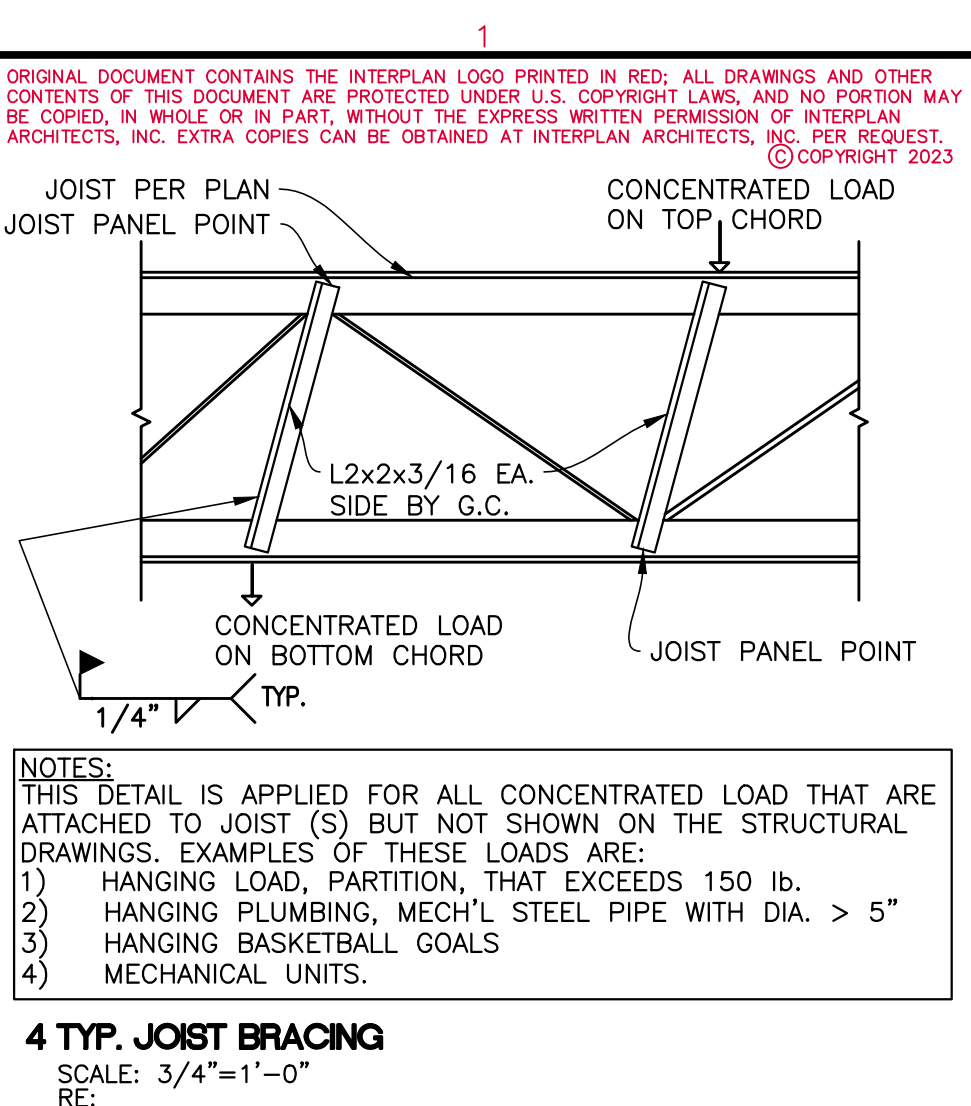
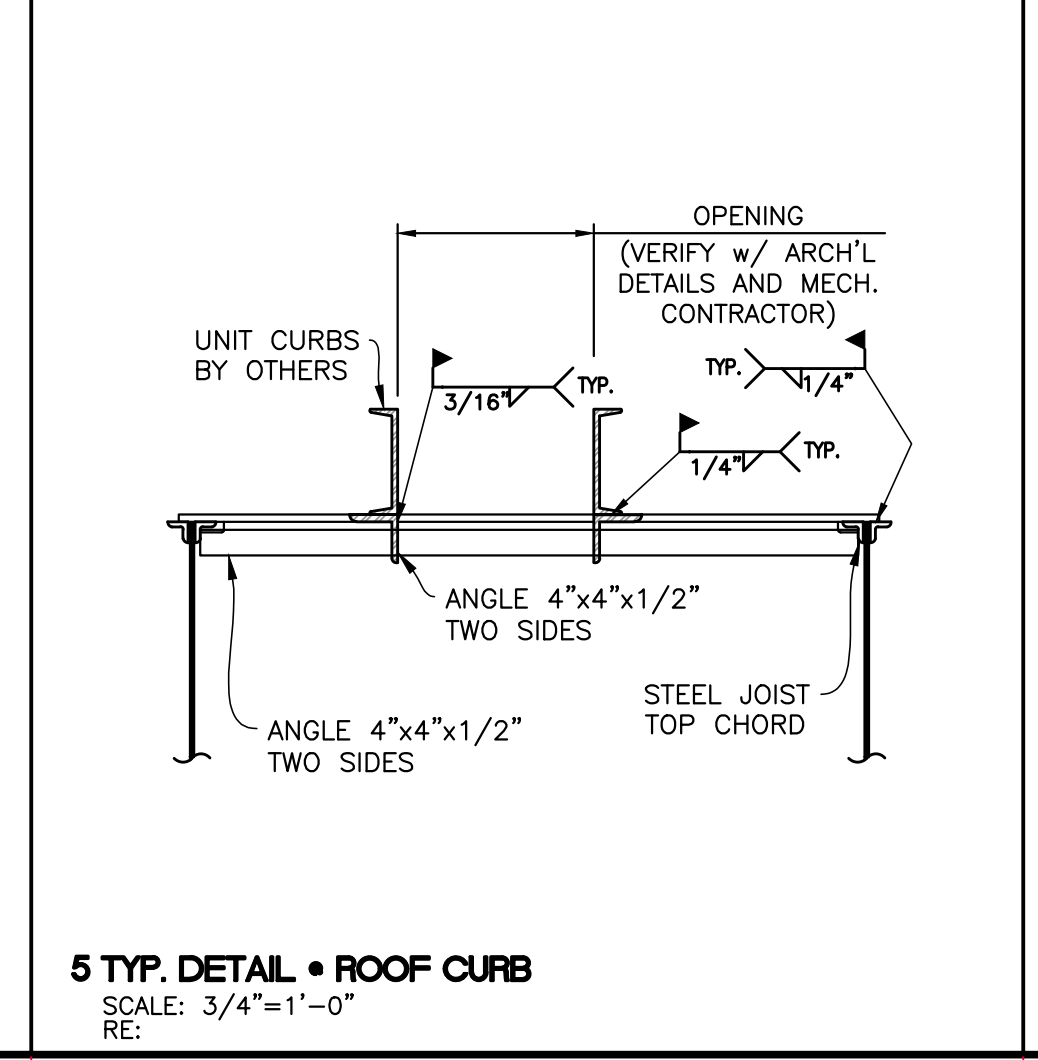
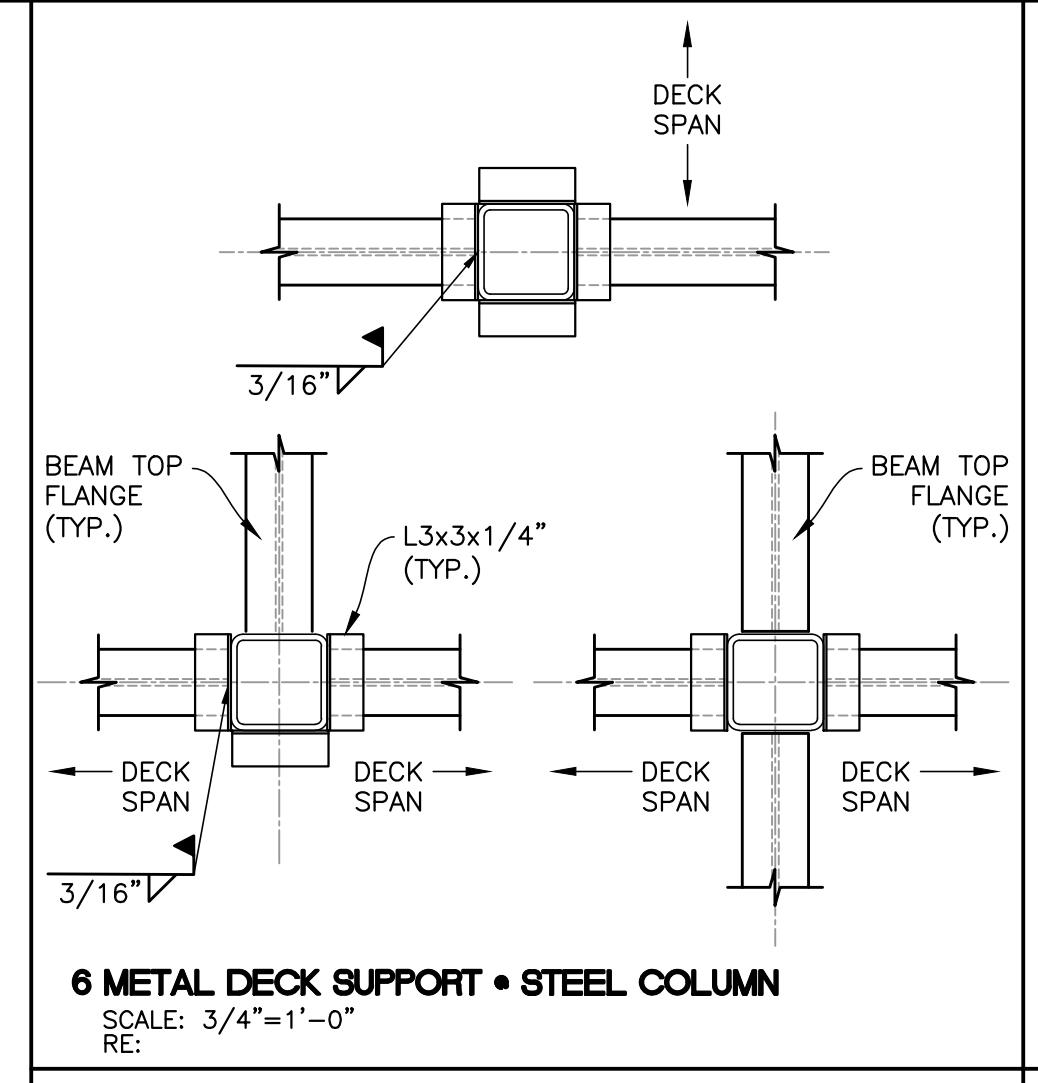
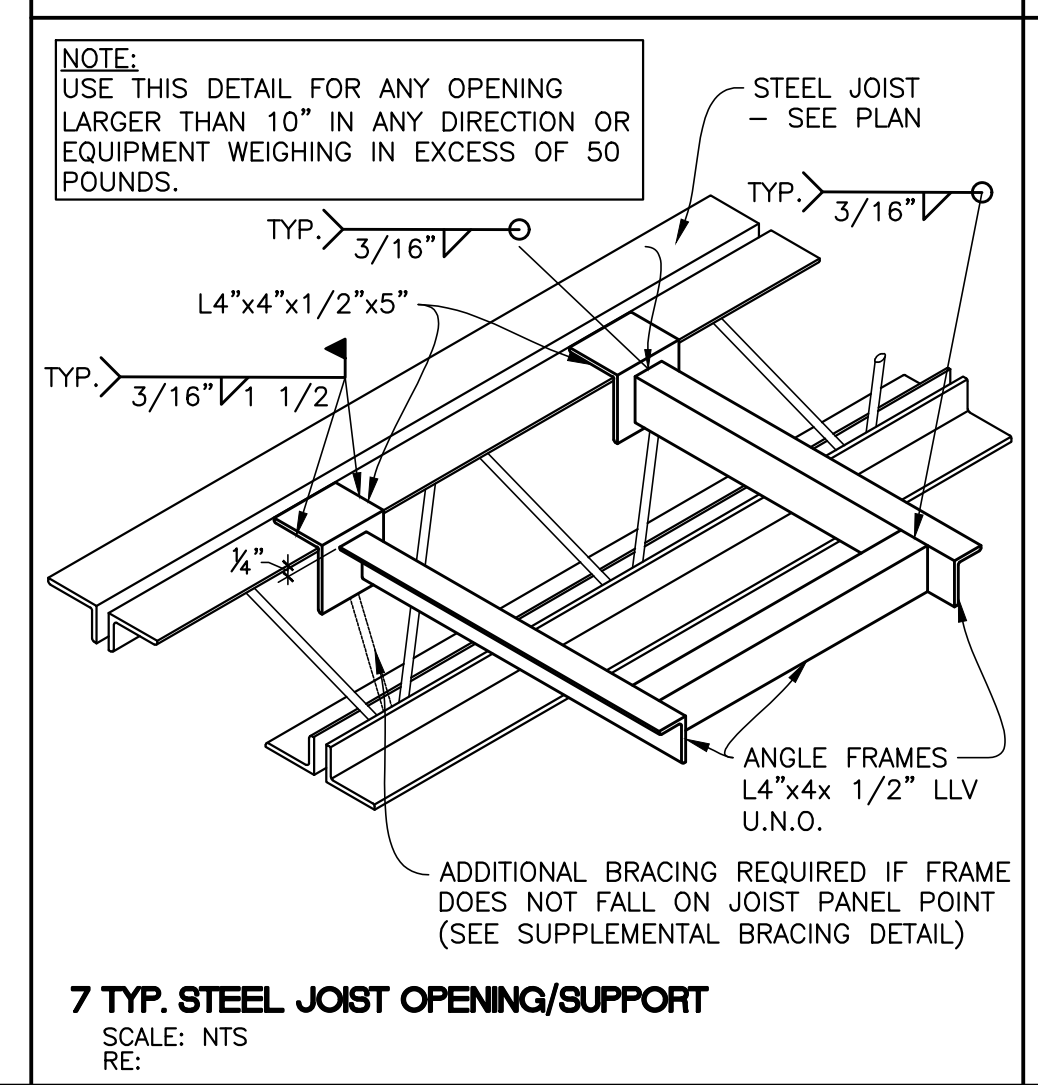
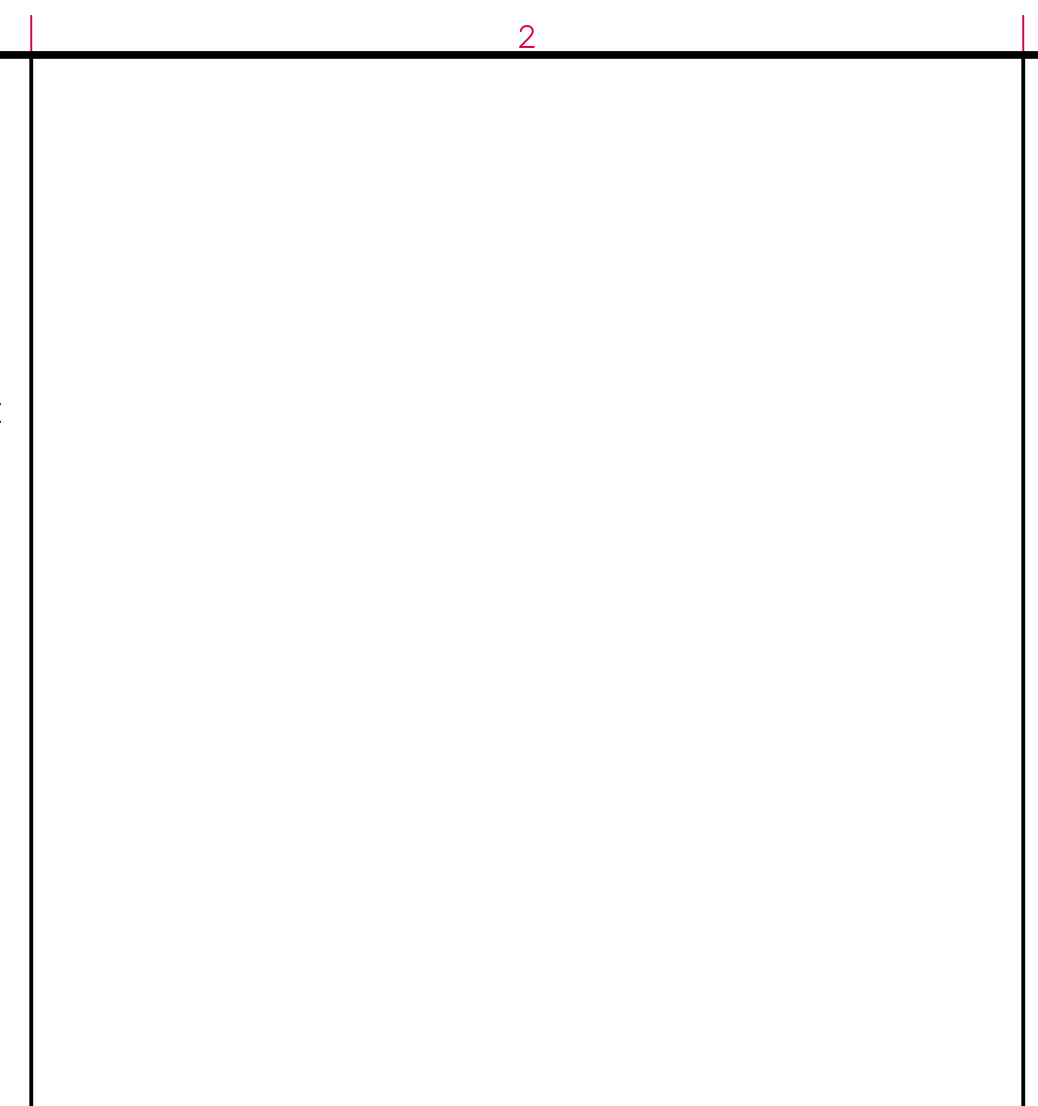
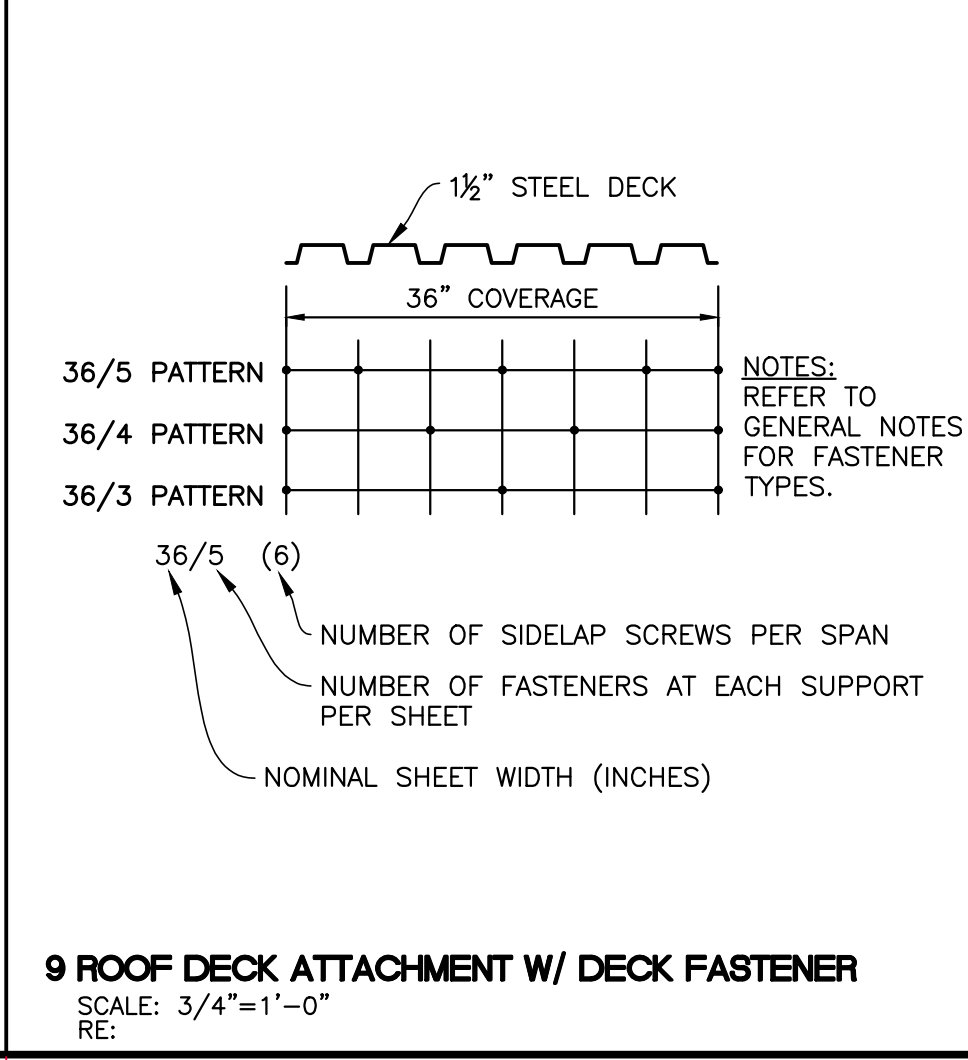
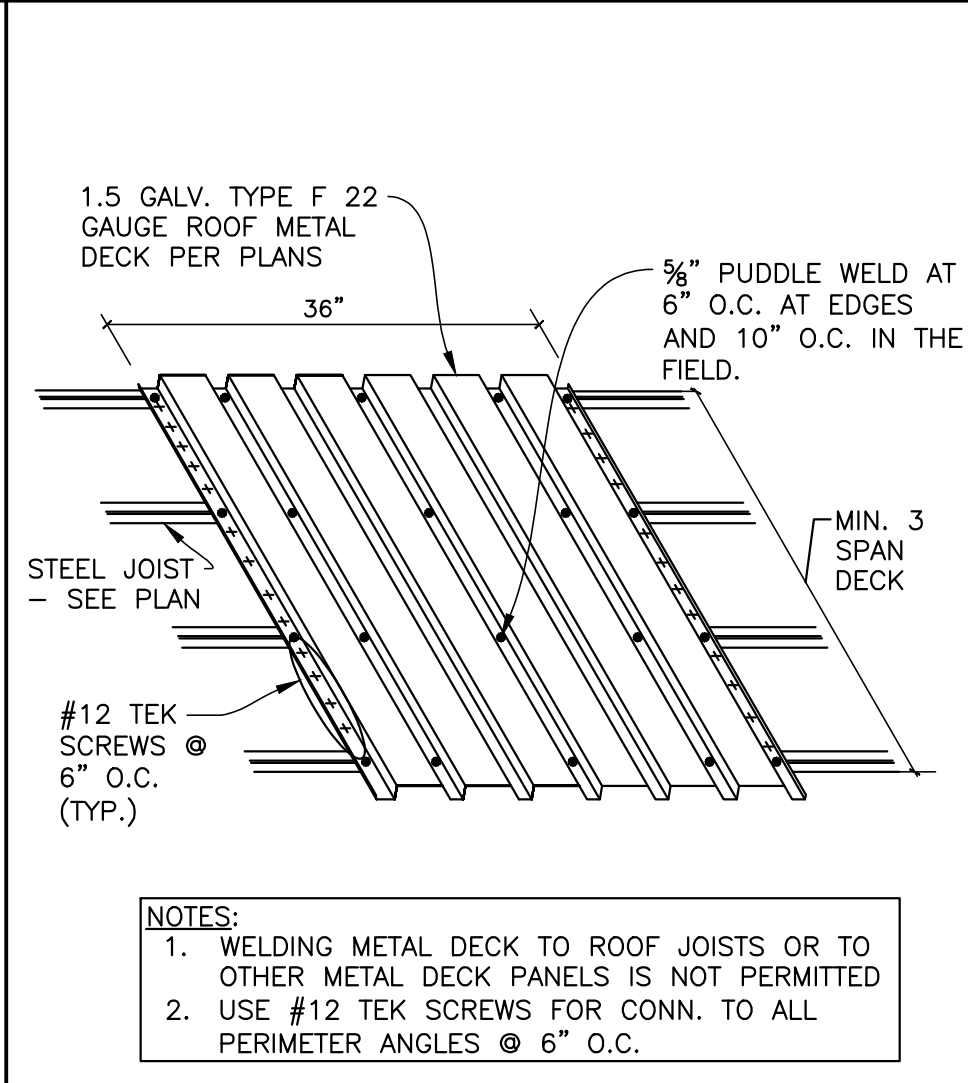
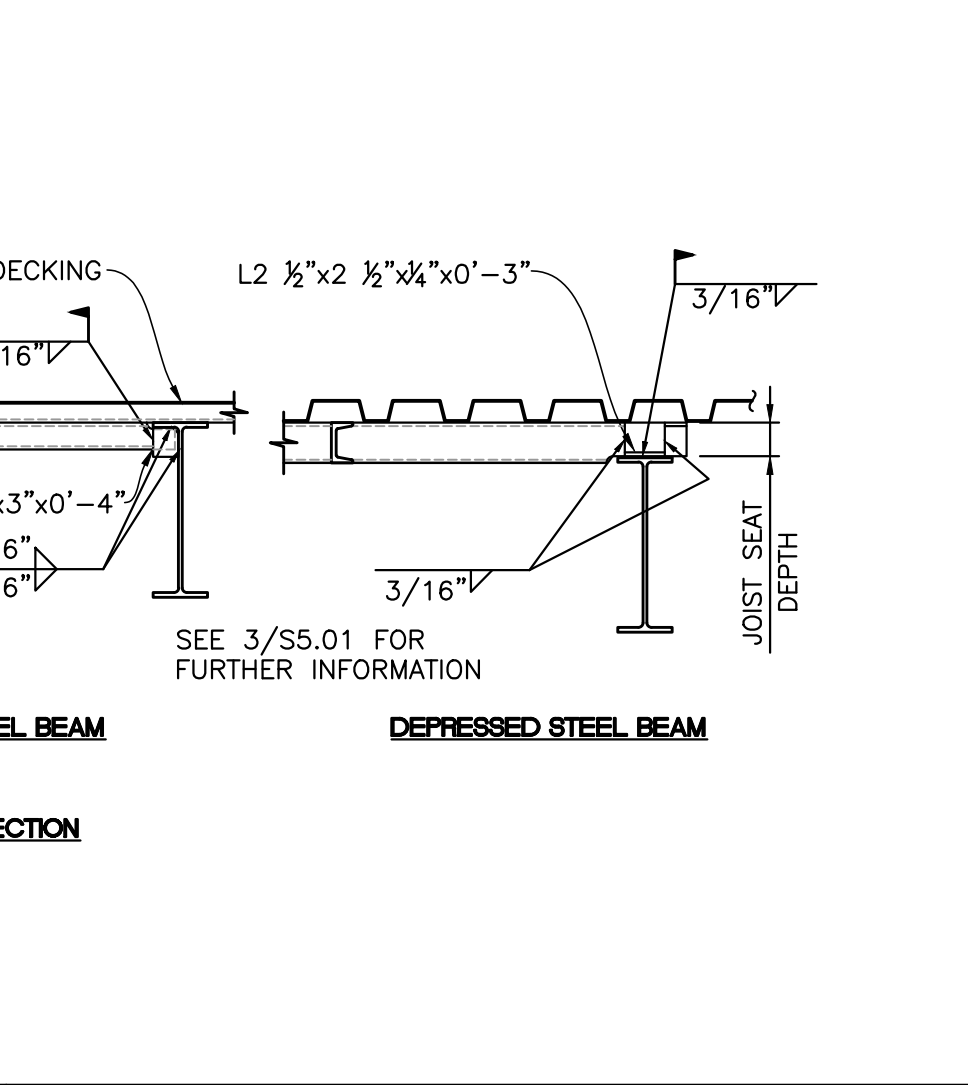
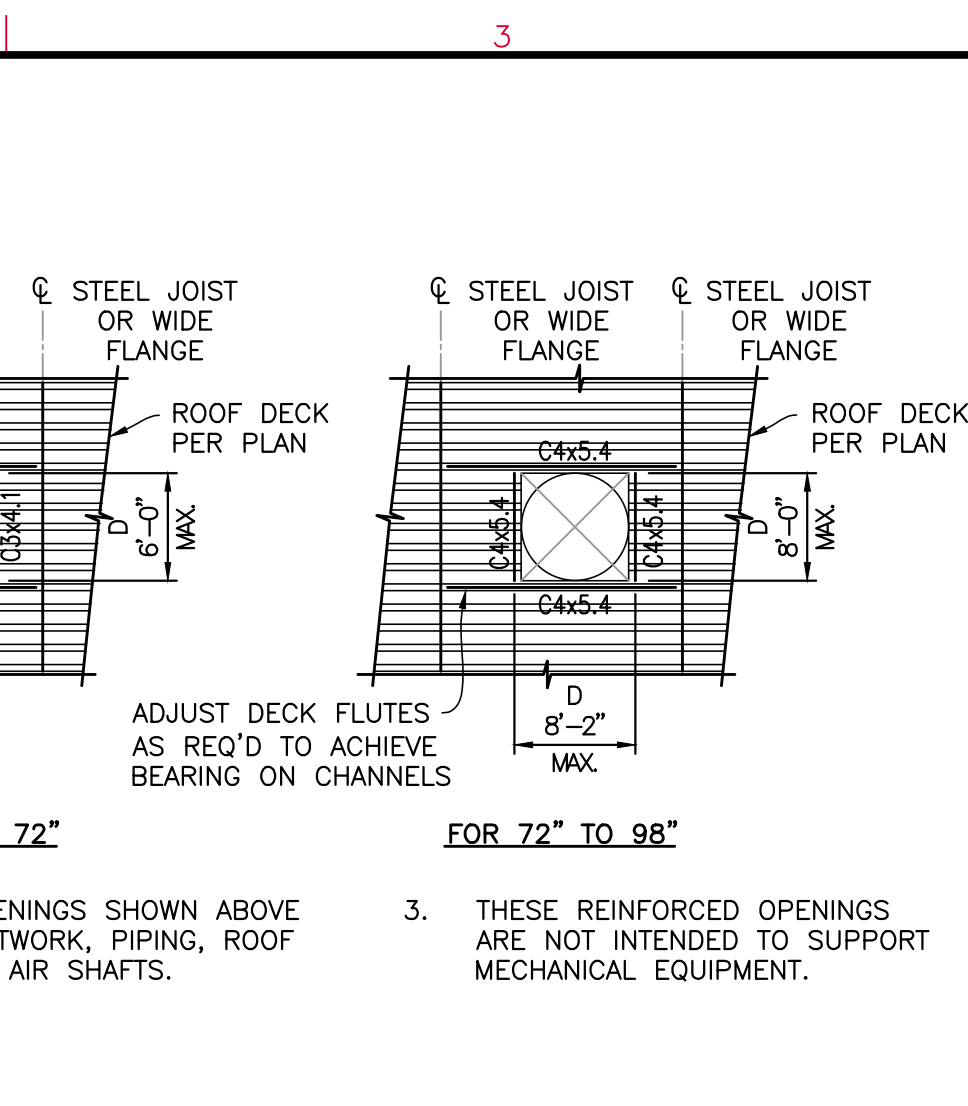
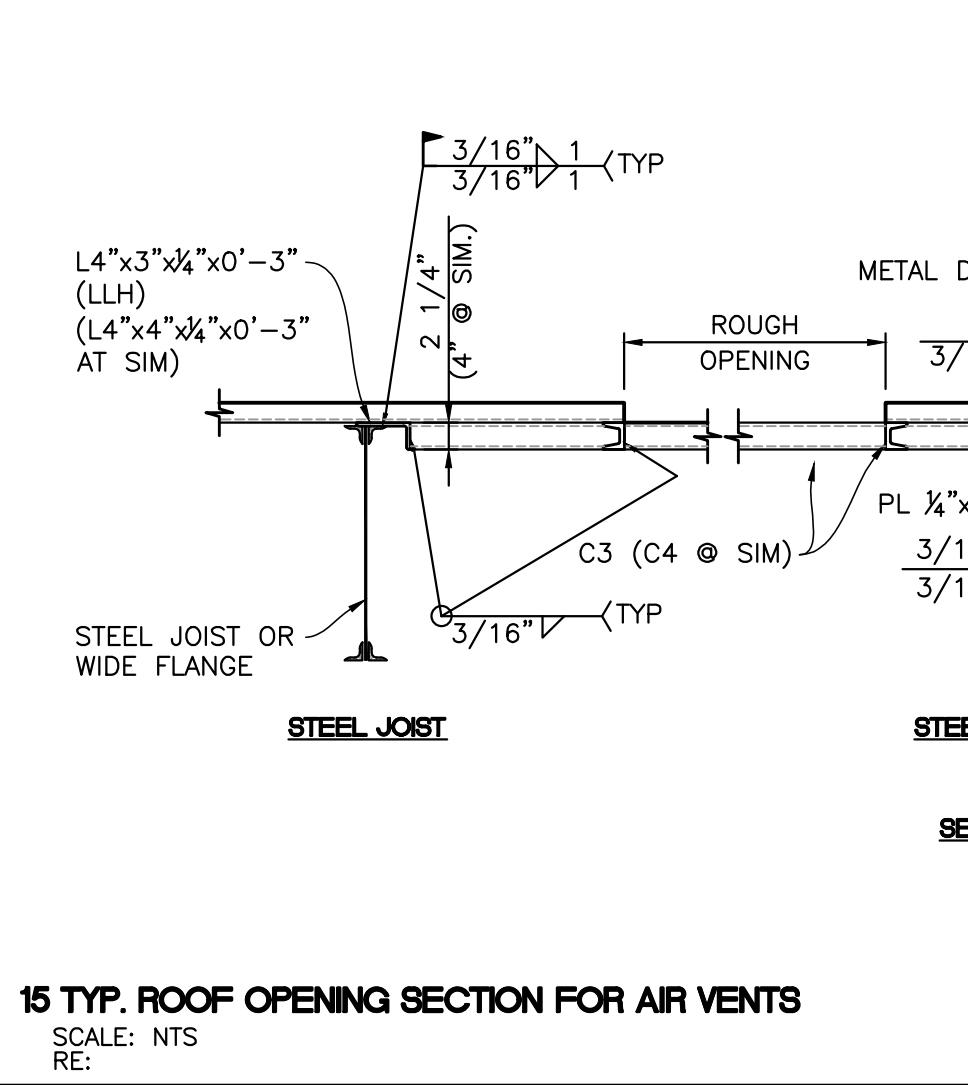
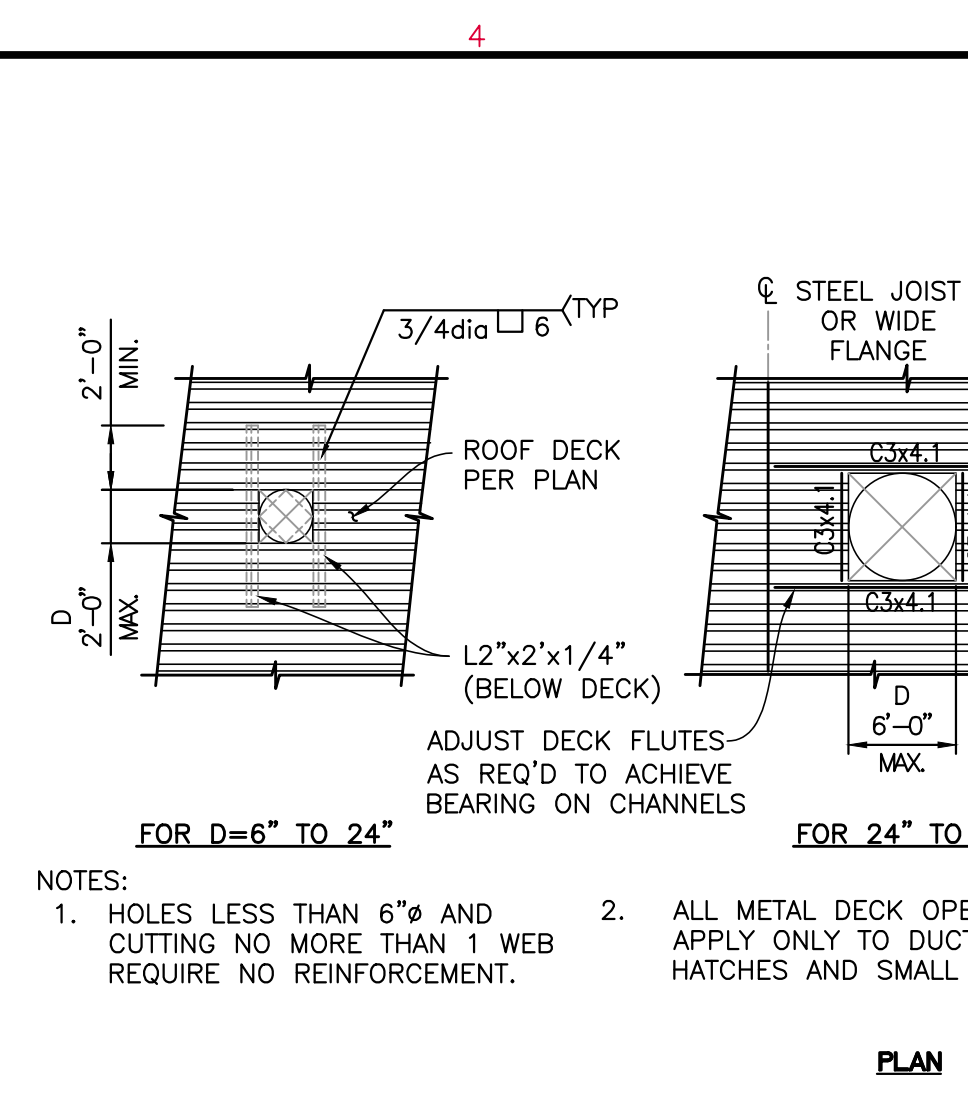
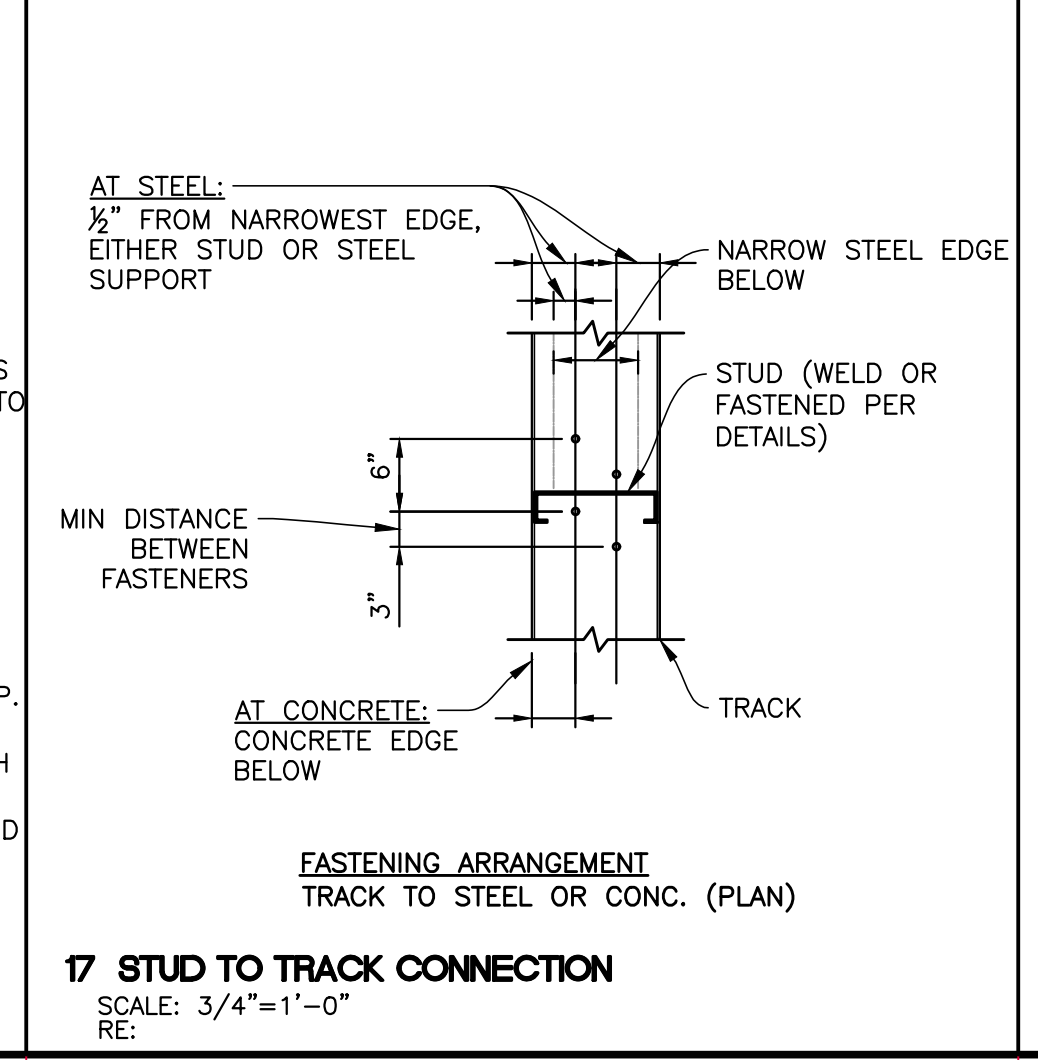
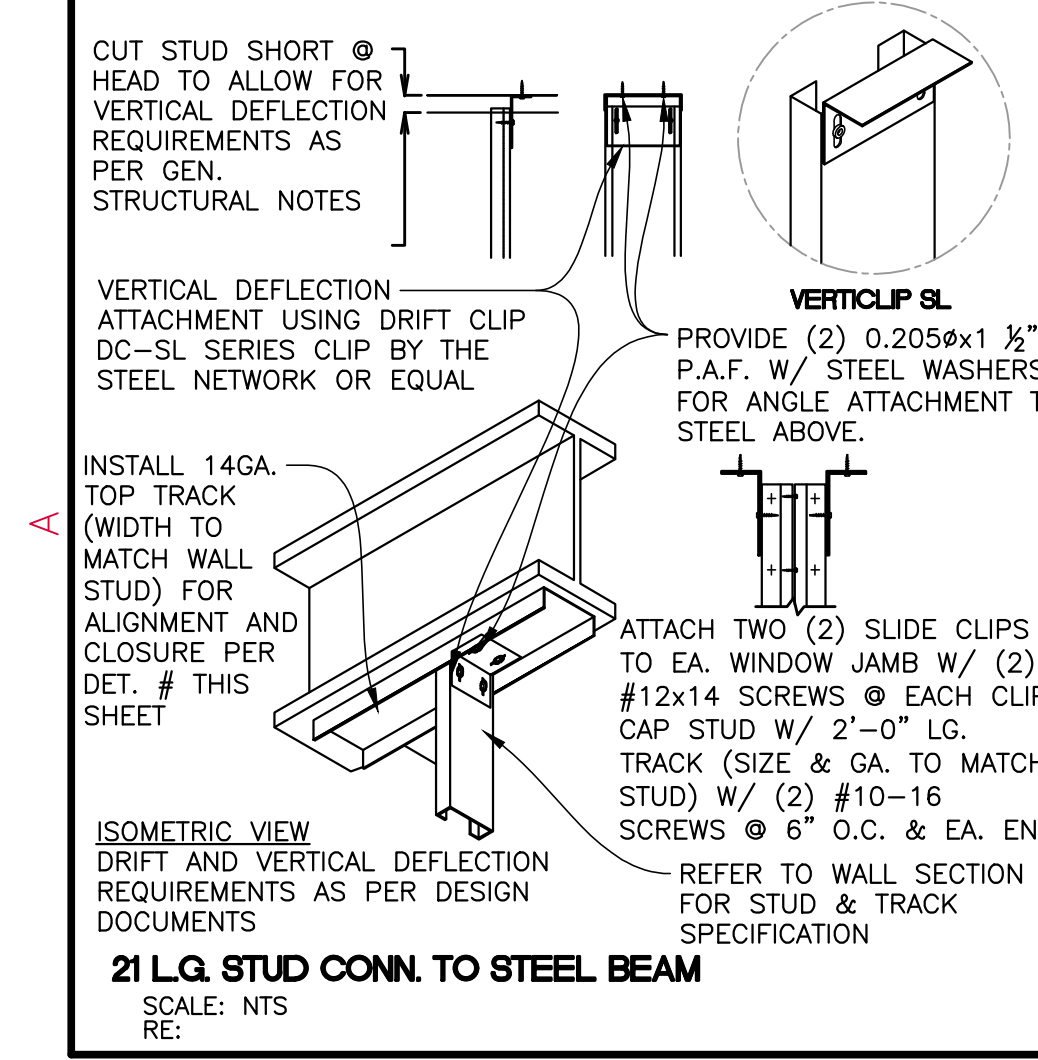
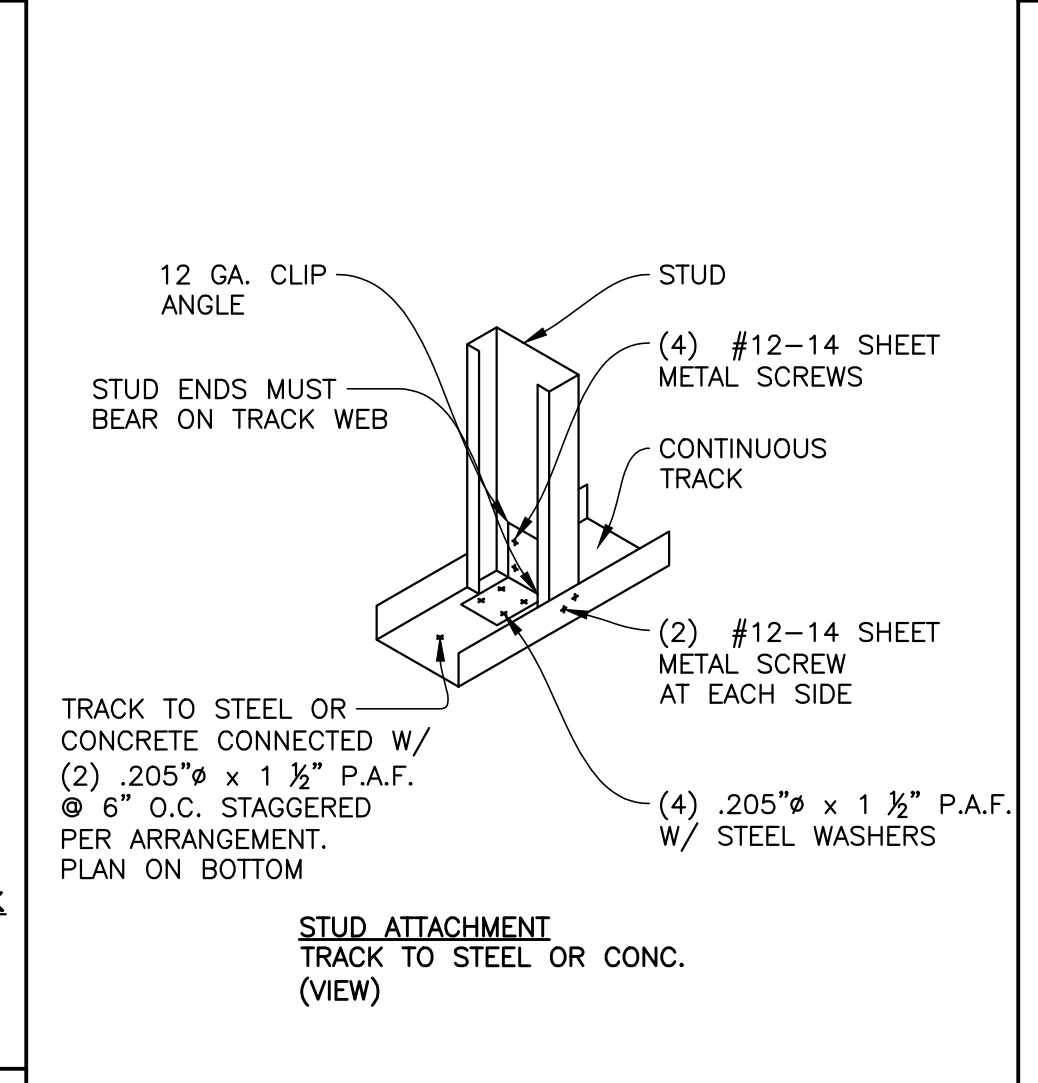
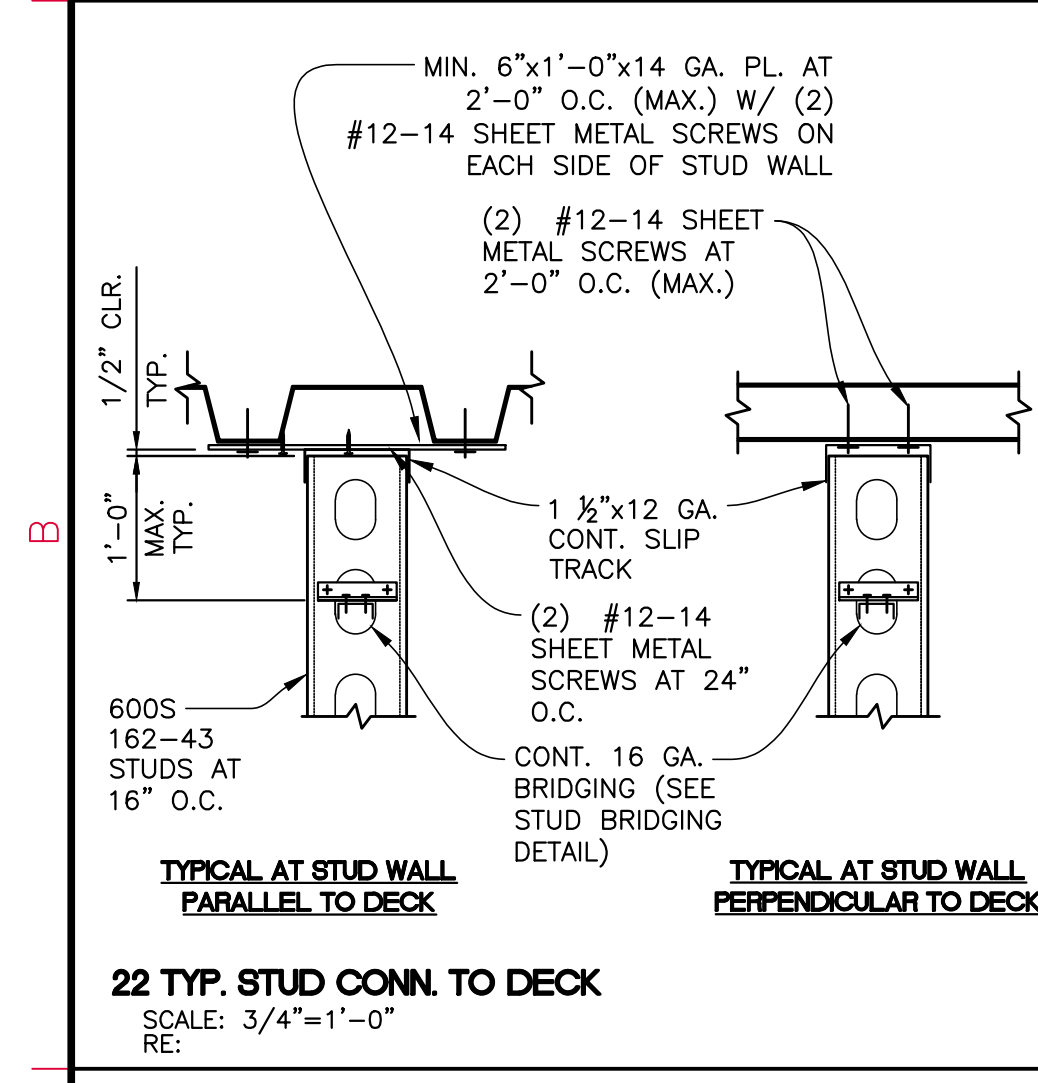
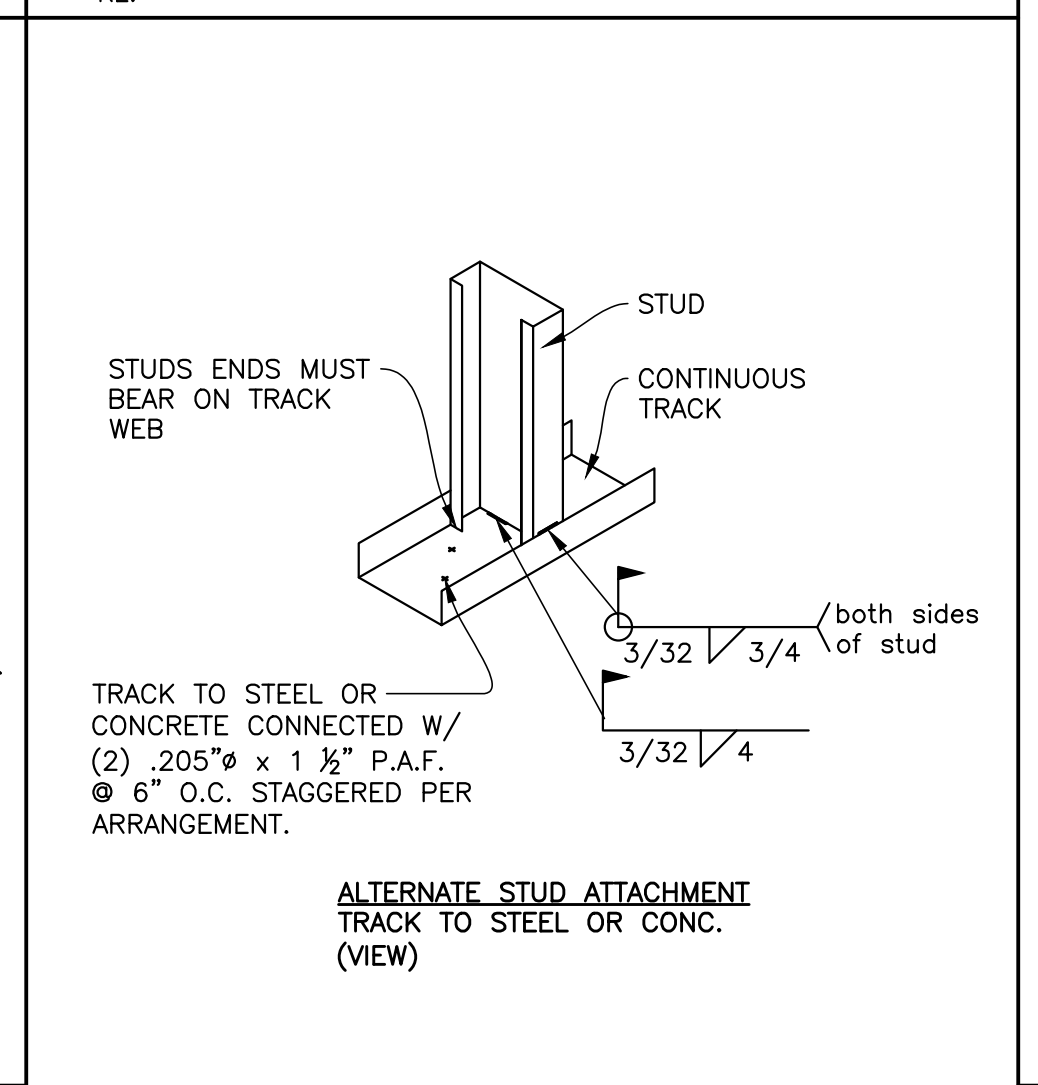
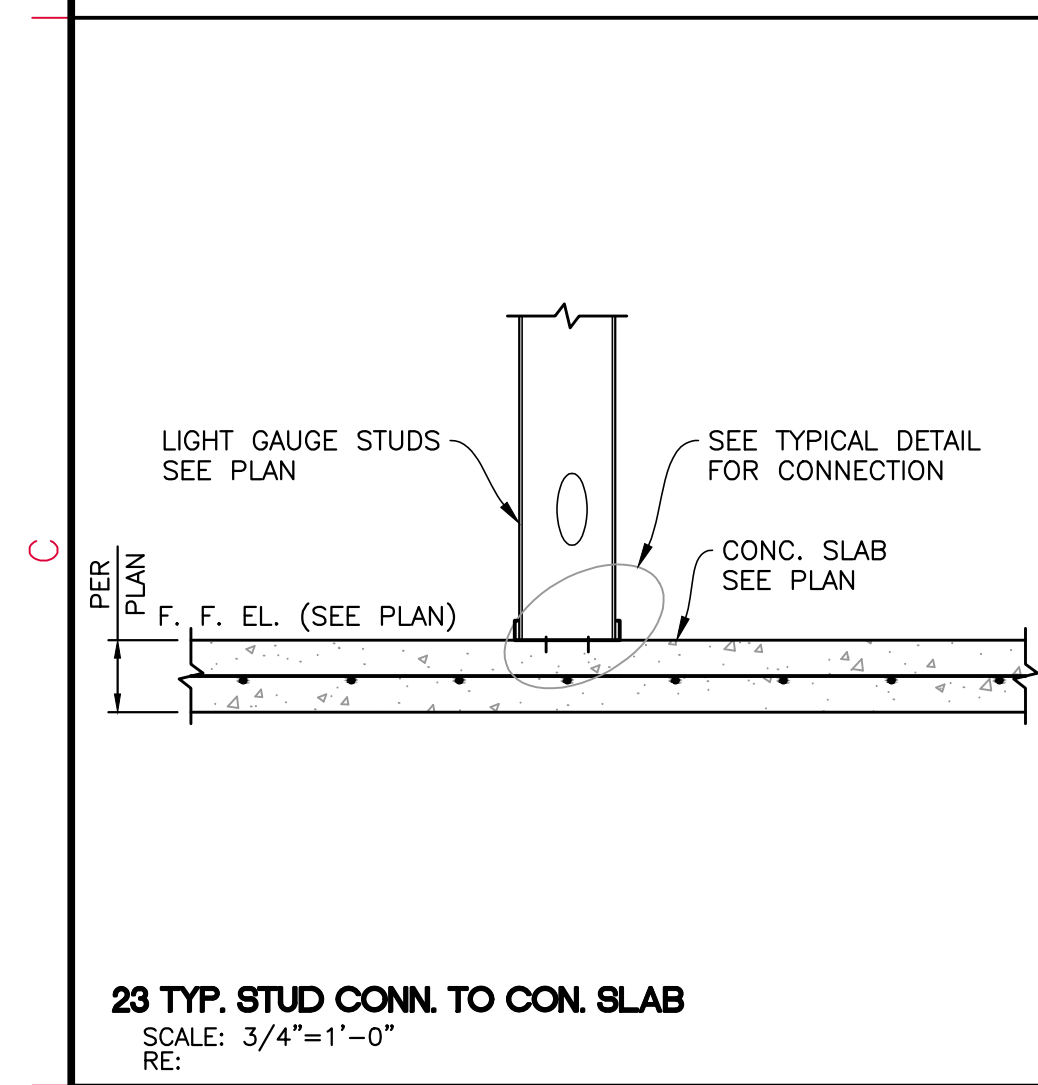
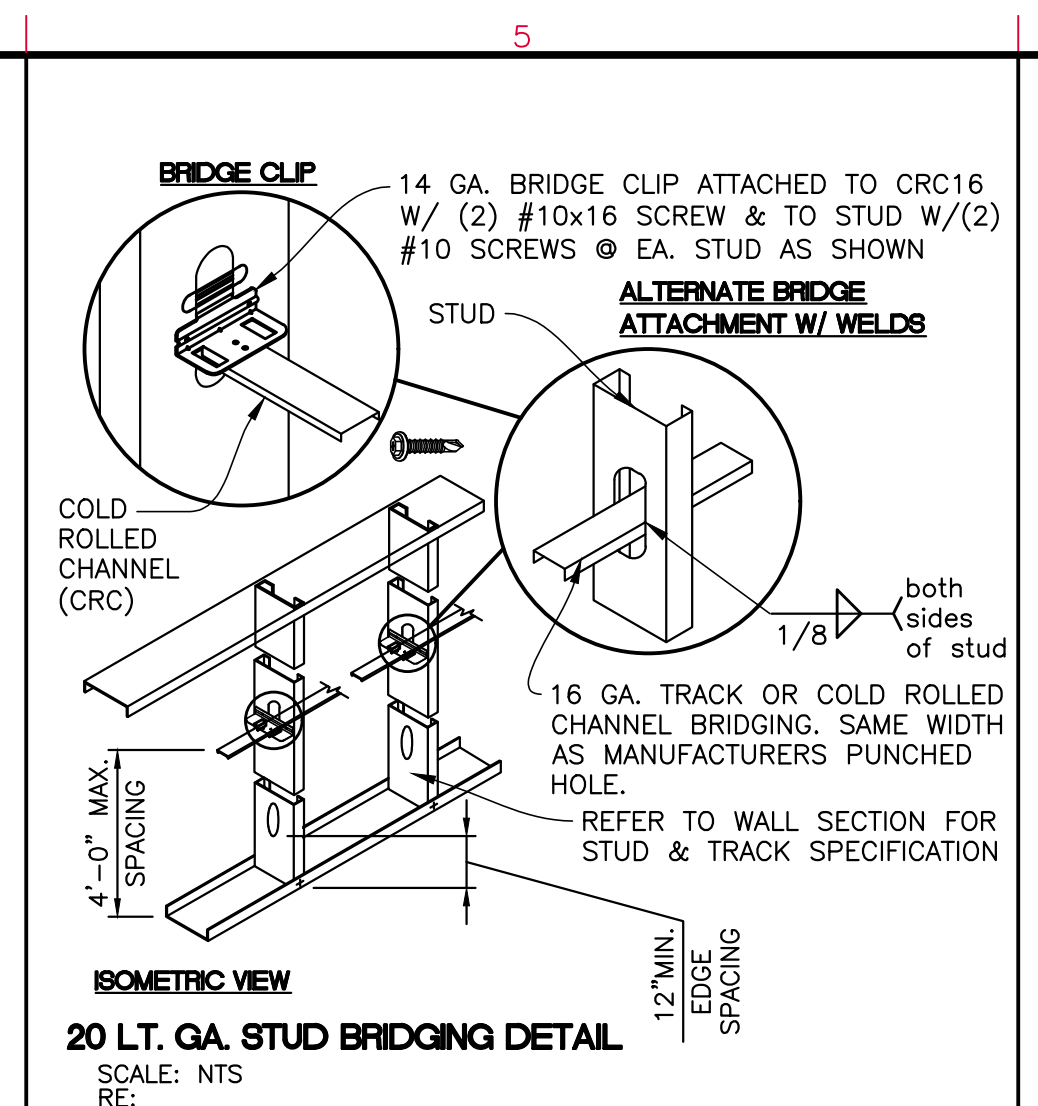
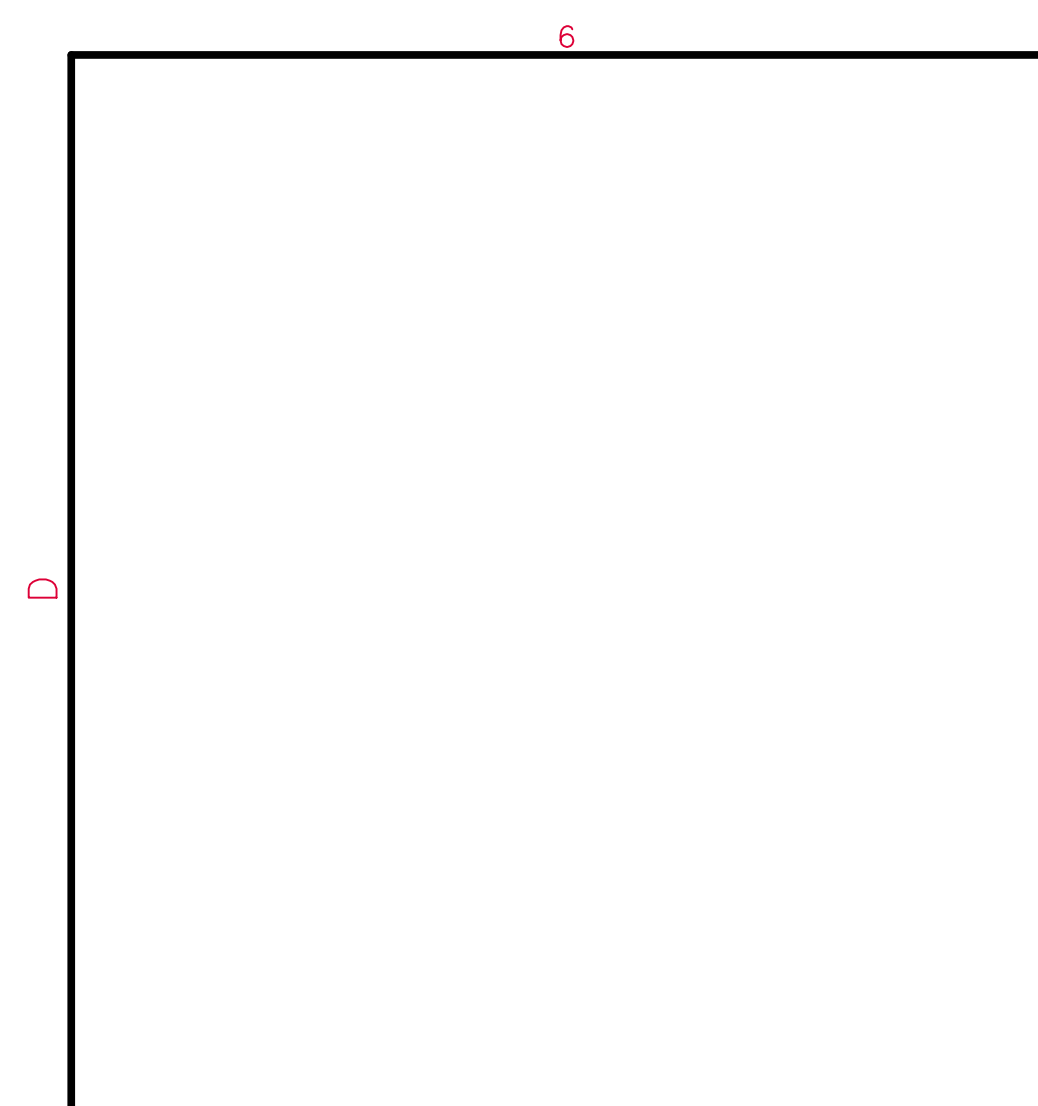
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DATE	DESCRIPTION
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER: CEF22-S03E.DWG
PROJECT TITLE: CEFECO CONVENIENCE STORES #0047

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL: JUN YANG, LICENSED PROFESSIONAL ENGINEER, NO. 12652, DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:
09-09-20 MARCEL CAD
10-08-20 PROGRESS PRINT
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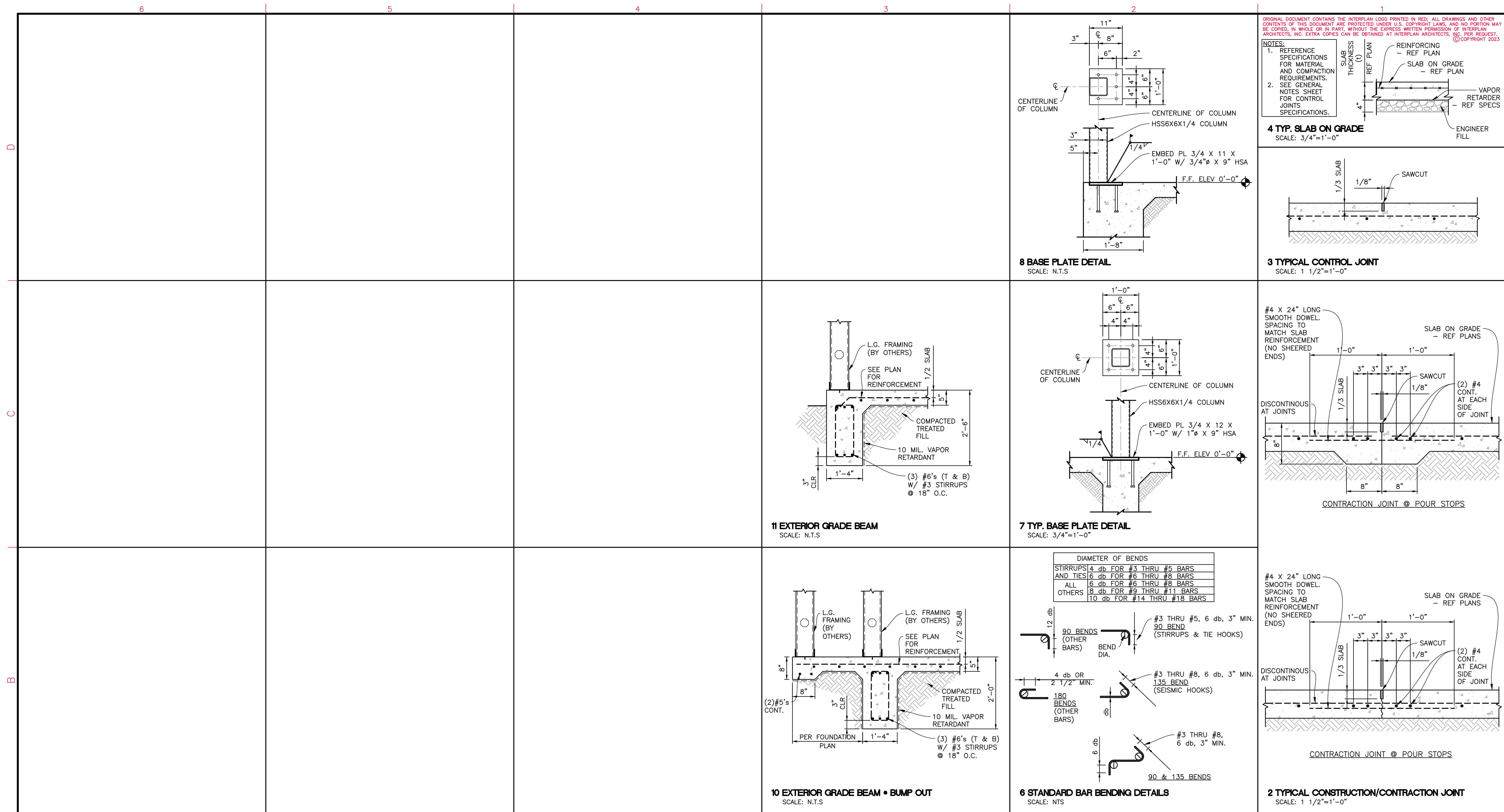
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE: **ROOF FRAMING DETAILS**

DRAWING NUMBER: **S03F** SHEET NO. _____



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NOTES:
1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.
2. SEE GENERAL NOTES SHEET FOR CONTROL JOINTS SPECIFICATIONS.



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-S04.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM REG. NO: 12652
STATE OF TEXAS
JUN YANG
95966
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

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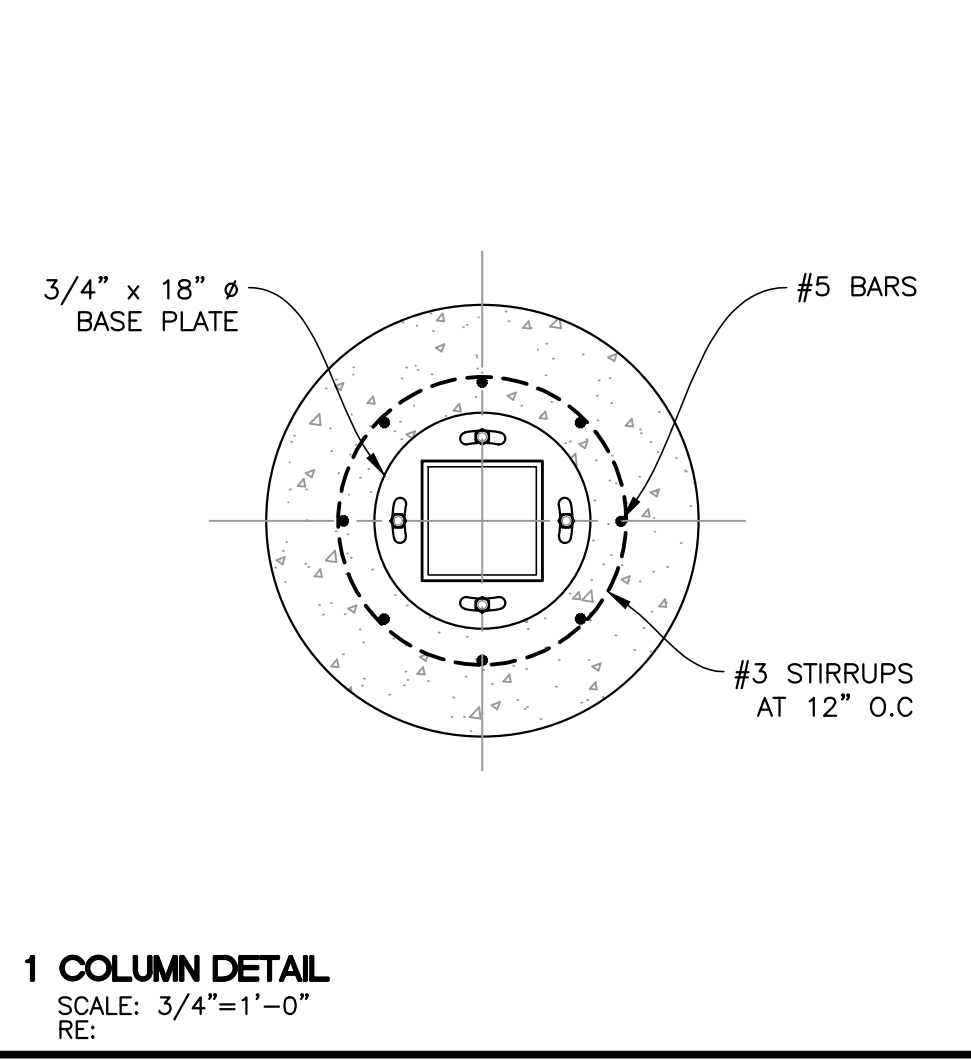
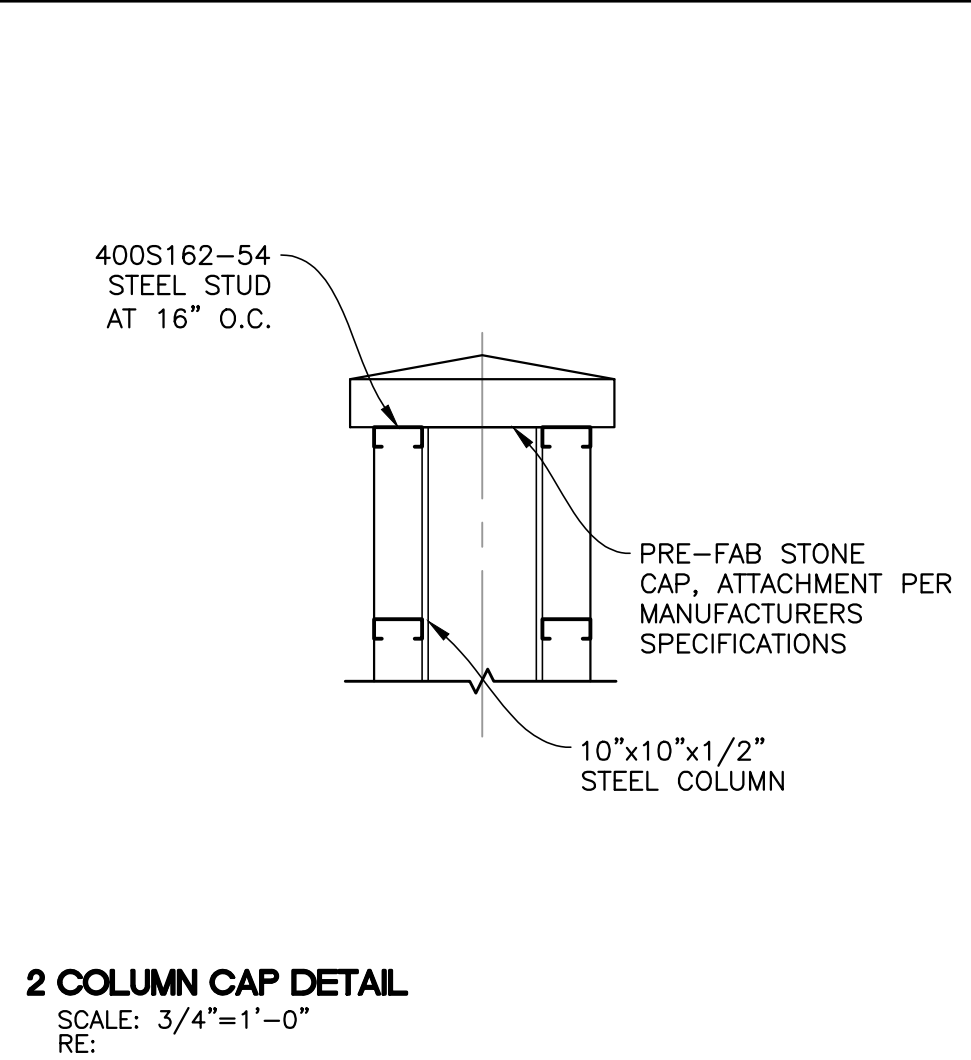
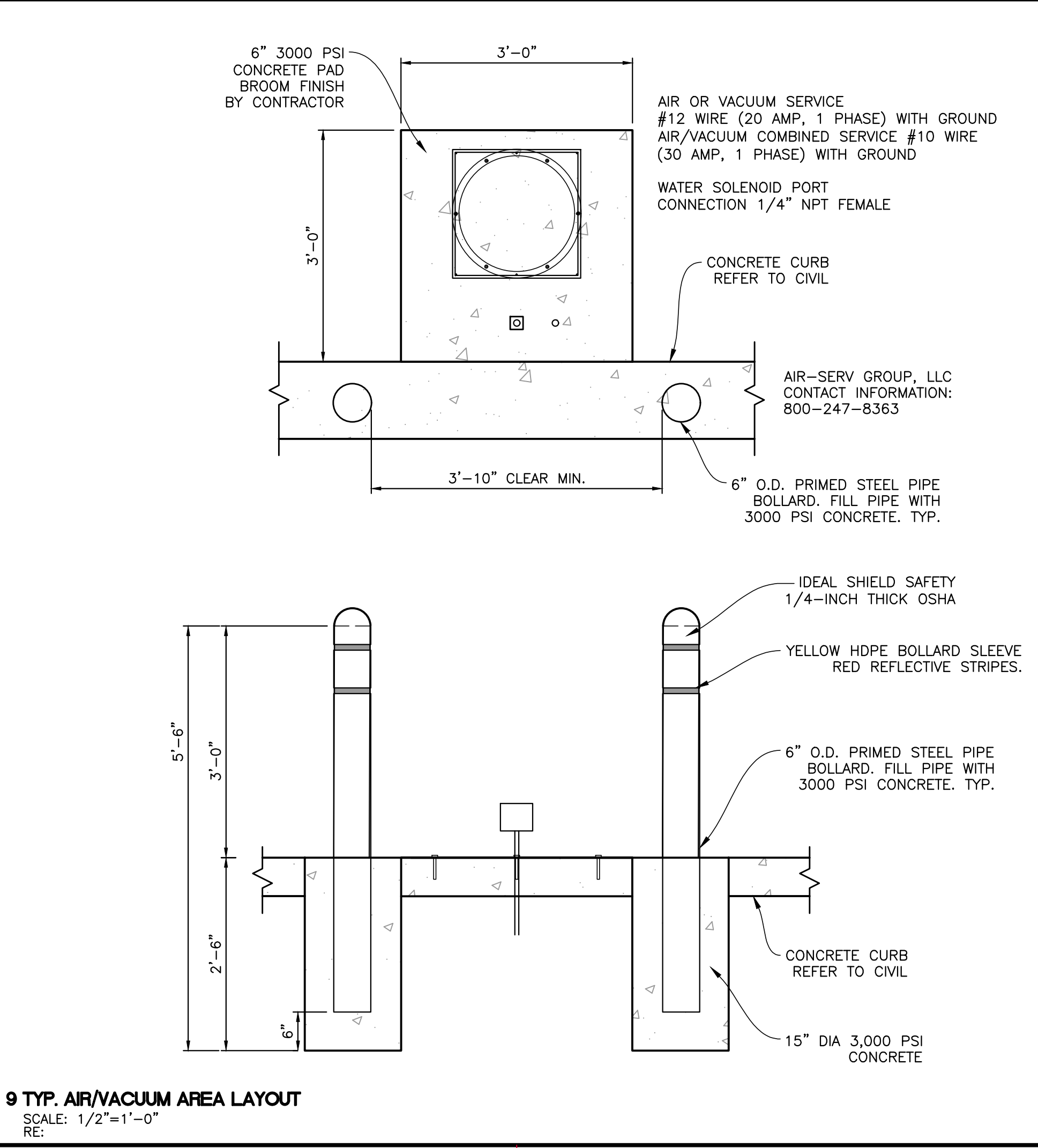
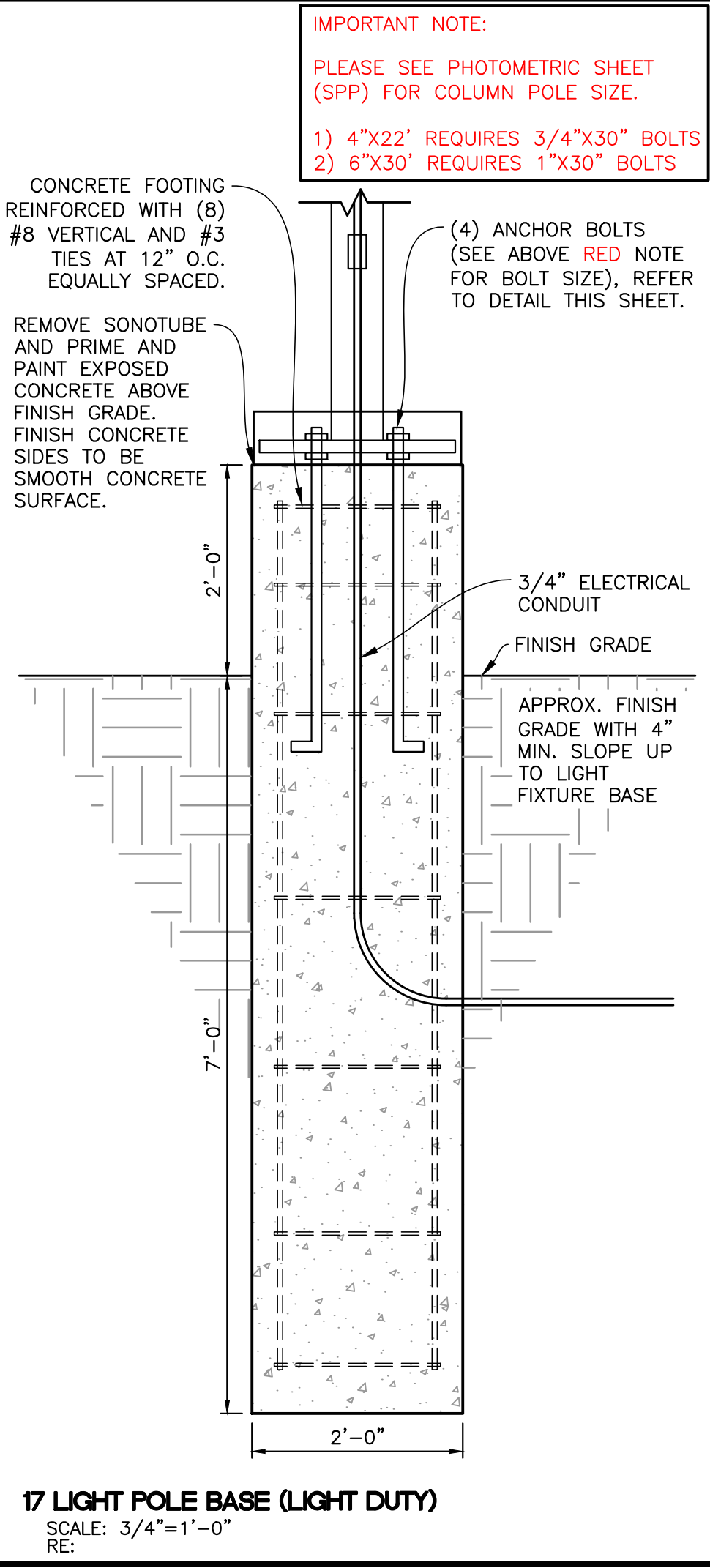
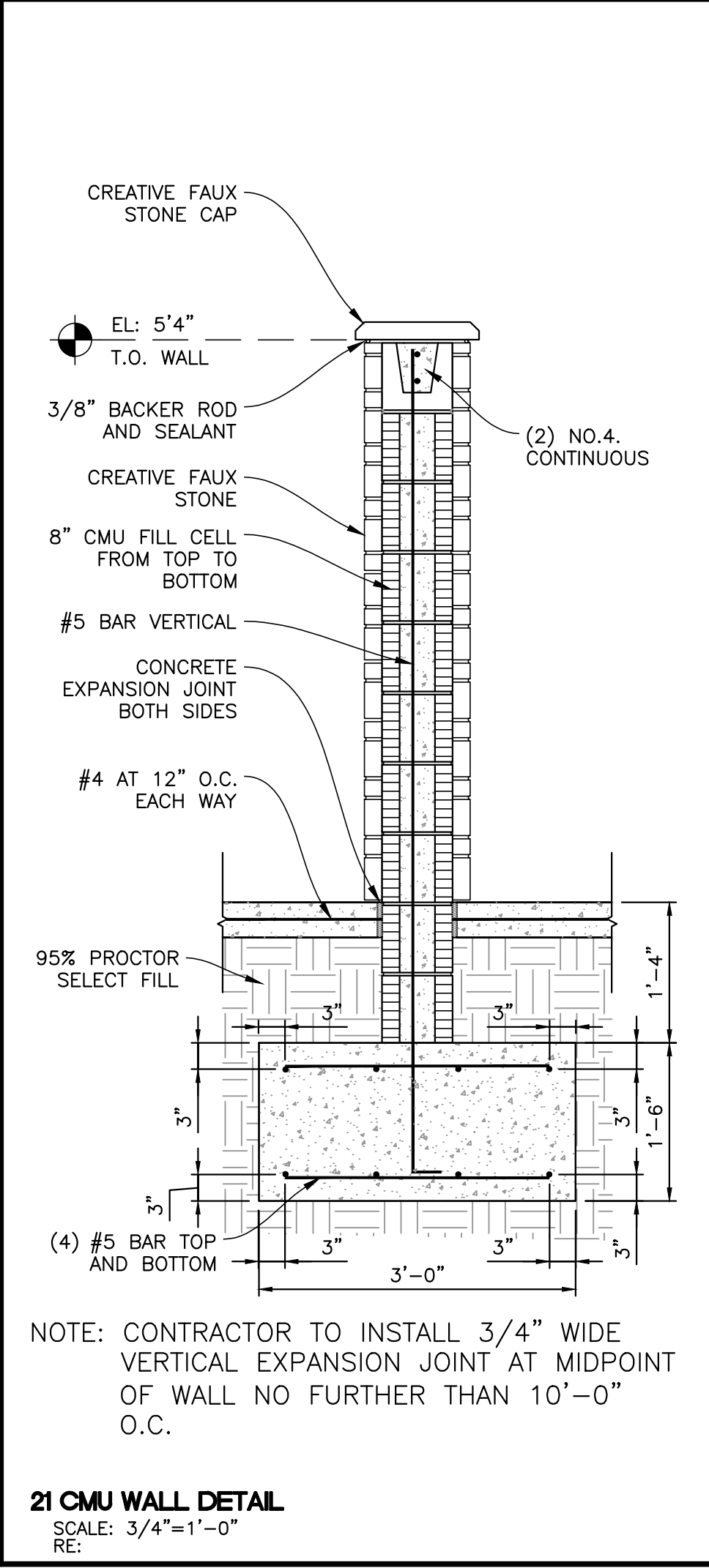
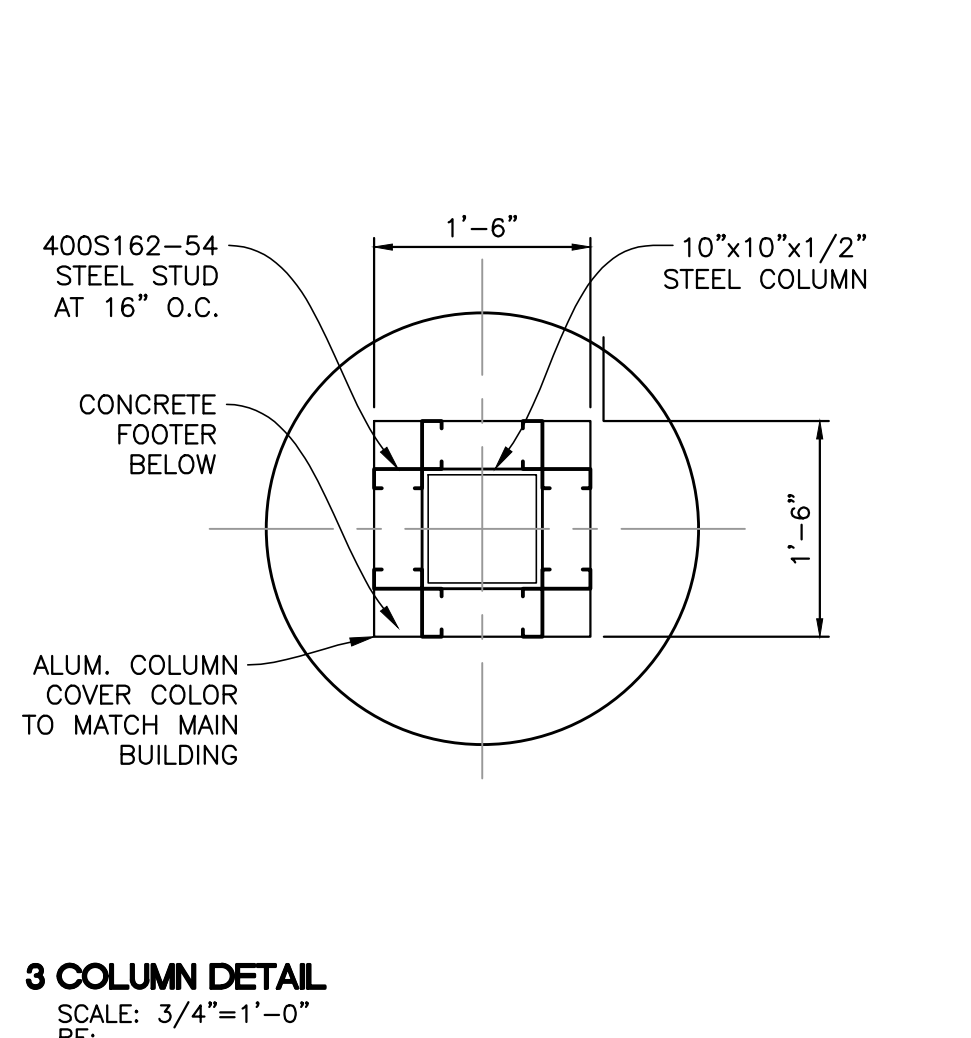
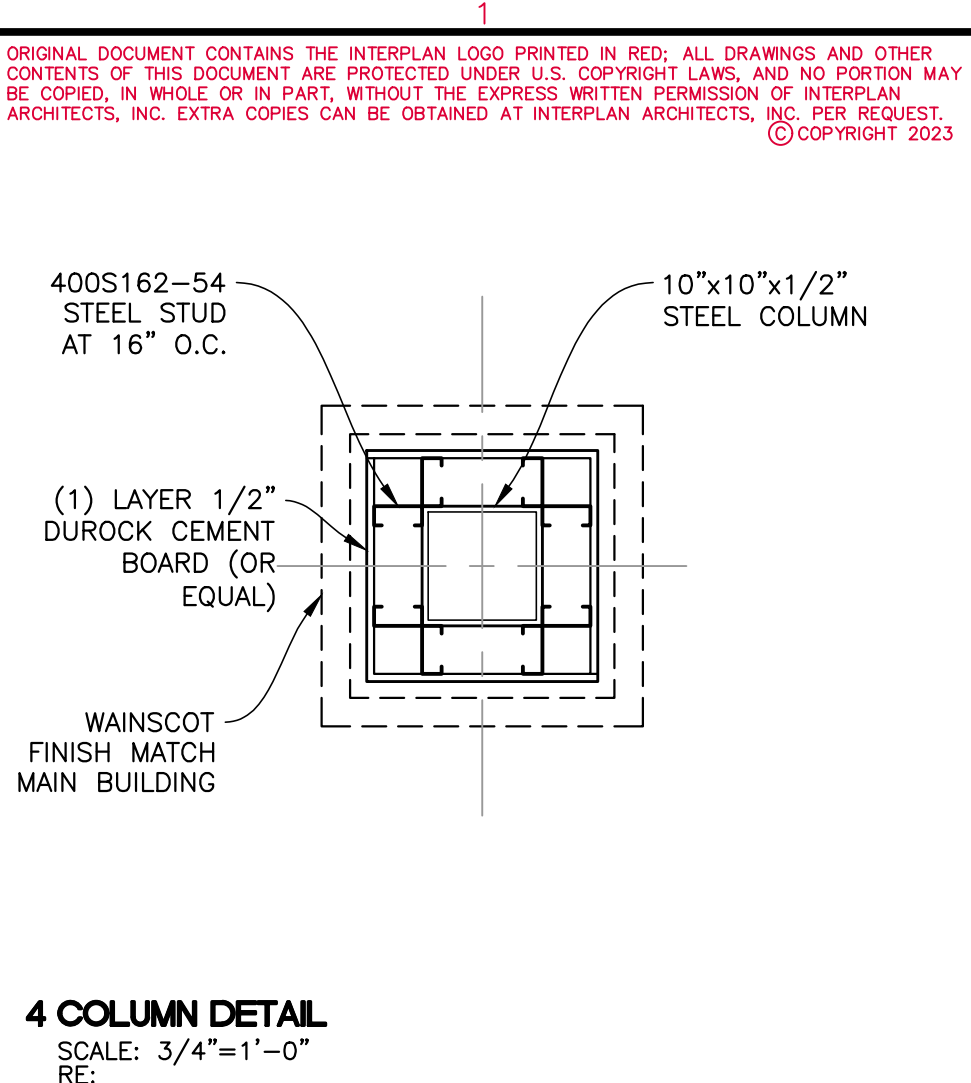
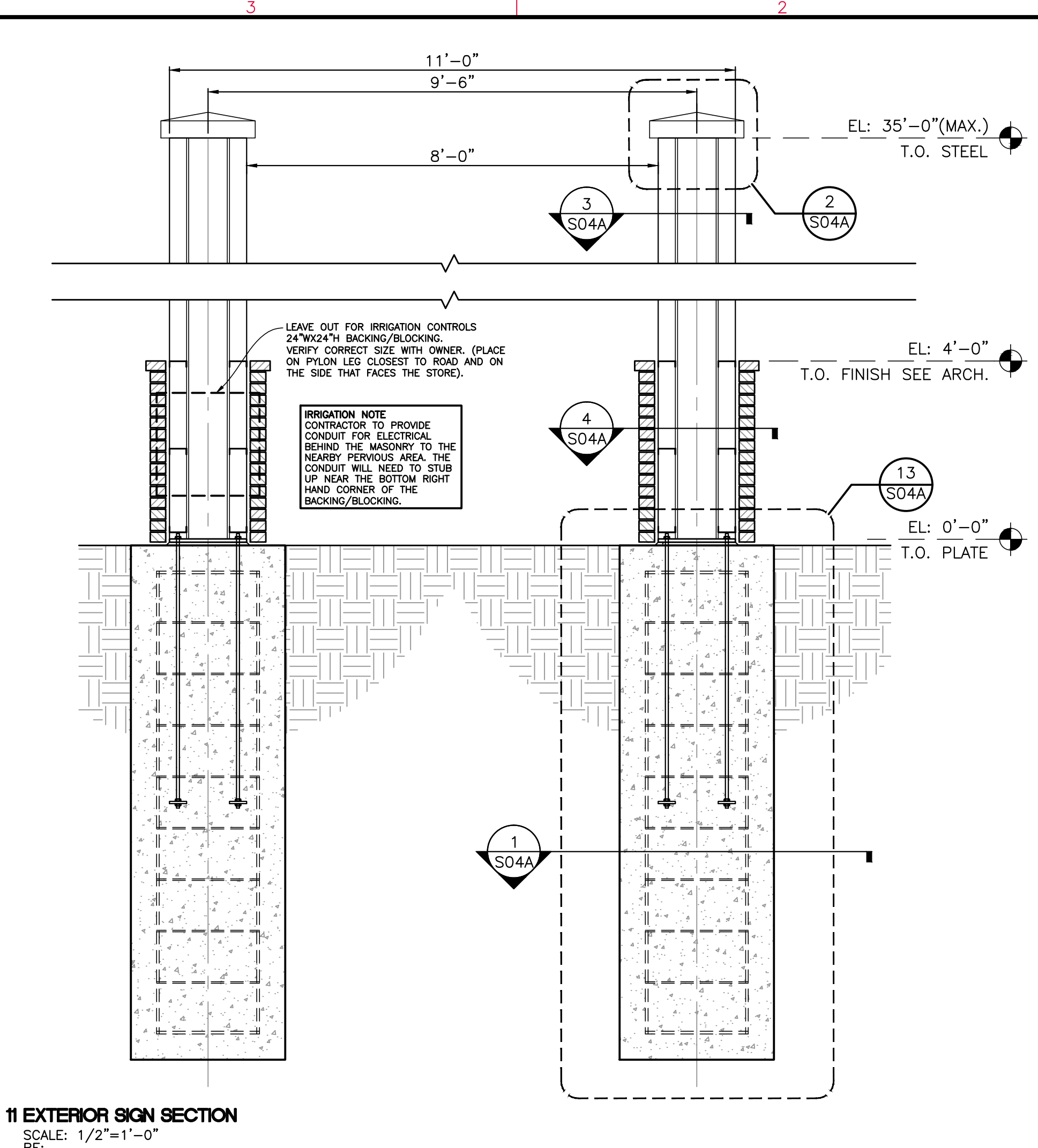
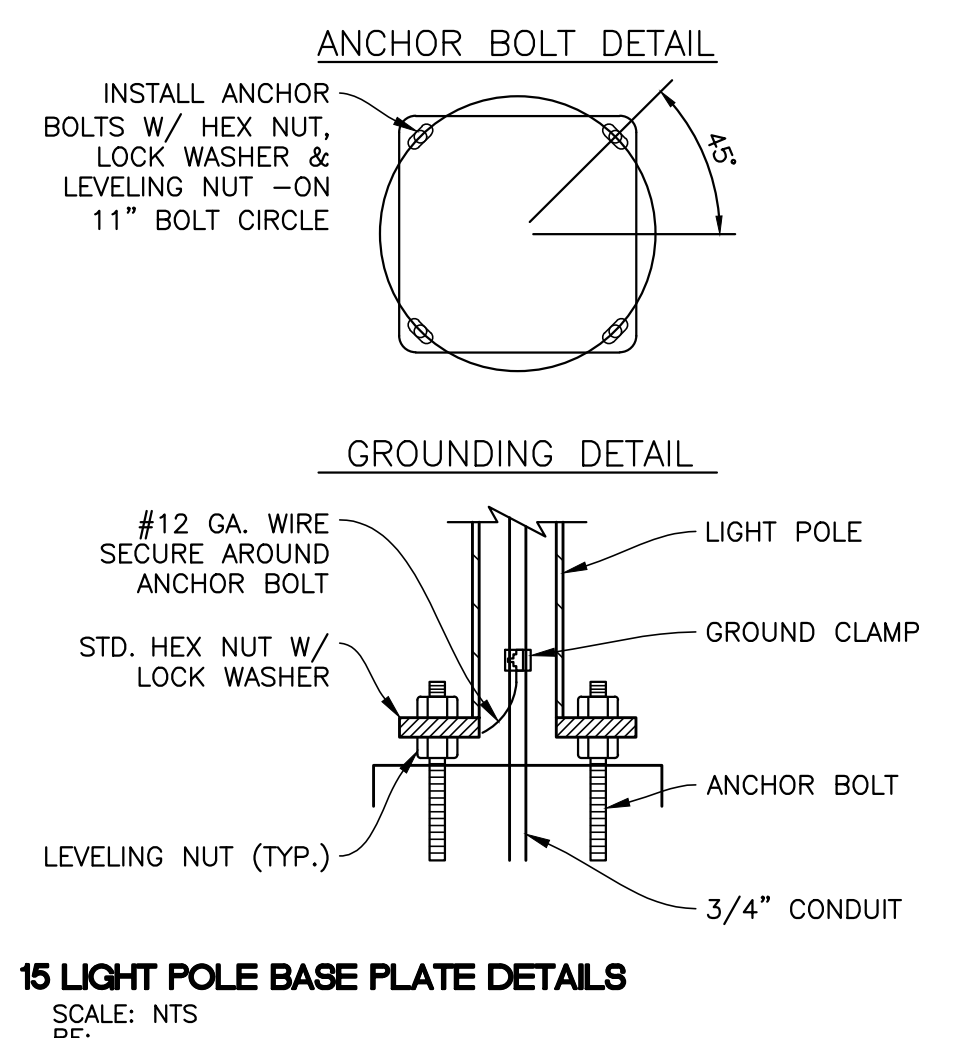
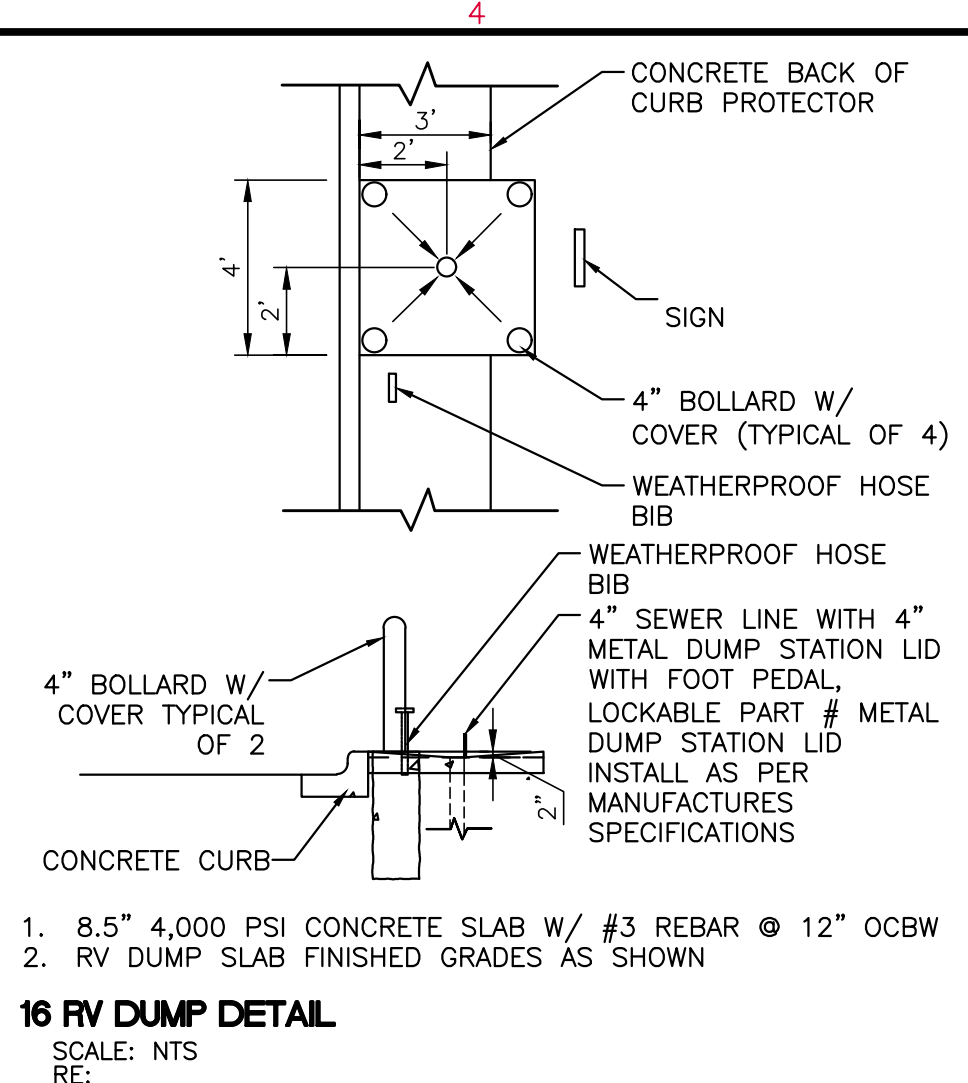
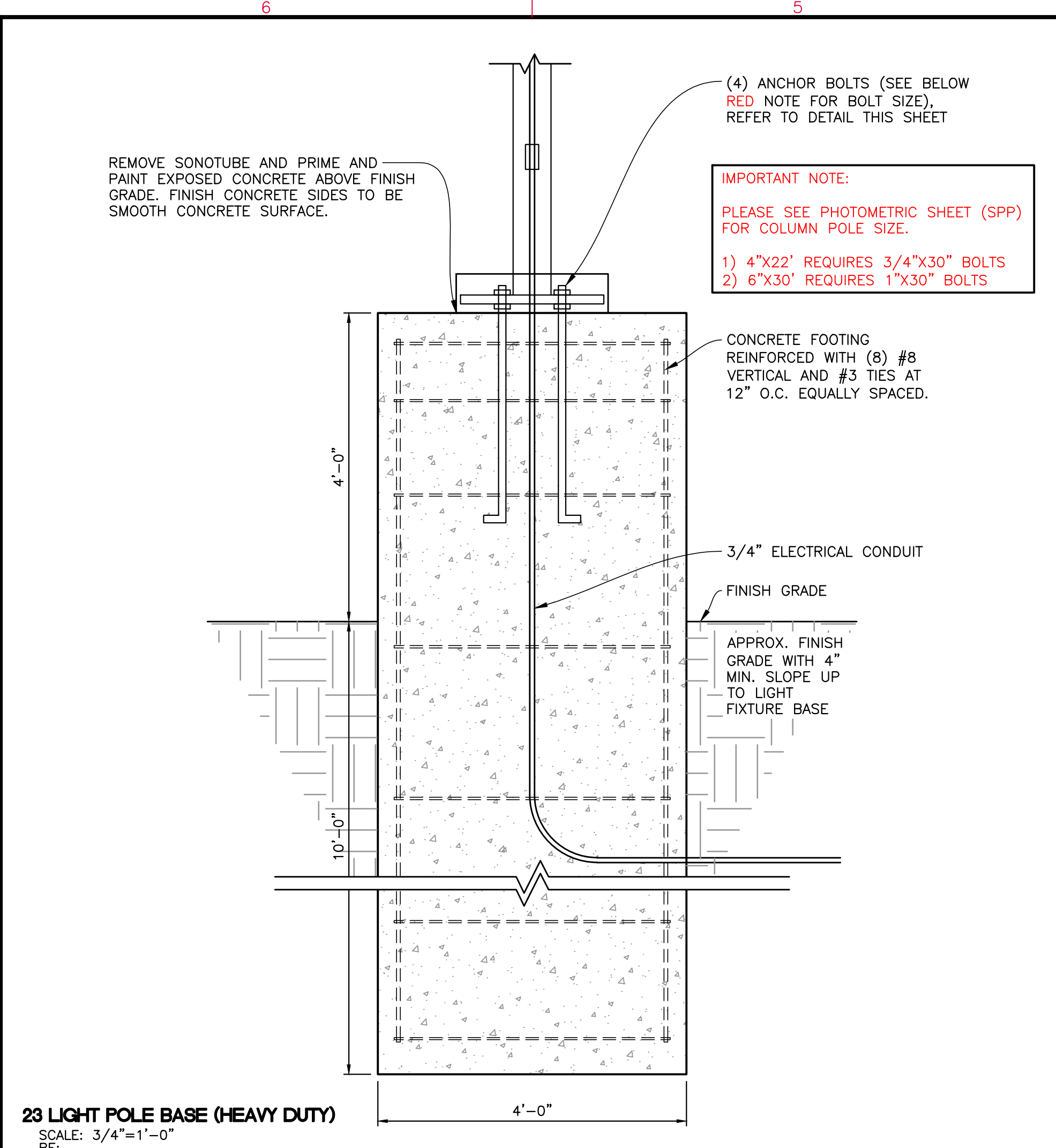
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
FOUNDATION DETAILS

DRAWING NUMBER
S04



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-S04A.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

CEFCO
F2501-B SERIES
RIGHT FACING

PROFESSIONAL SEAL FIRM REG. NO: 12652

STATE OF TEXAS
JUN YANG
95966
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
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02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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SHEET TITLE
STRUCTURAL FOUNDATION DETAILS

DRAWING NUMBER SHEET NO.
S04A

CONCRETE NOTES (CONT'D)

- 15. TERMINATE ALL VERTICAL REINFORCING AT THE TOP AND BOTTOM WITH 10" ACI HOOKS.
- 16. SOILS SHALL BE TREATED.

LIGHT GAUGE STEEL

- 1. STRUCTURAL LIGHT GAUGE STEEL SHALL CONFORM TO ASTM A1003/A1003M WITH MIN. FY = 33 KSI
- 2. BUYOUT LIGHT GAUGE STEEL SHAPES SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS AS CALLED OUT IN THE DESIGN CALCULATIONS/DRAWINGS.
- 3. DESIGN OF LIGHT GAUGE STRUCTURAL STEEL SHALL BE DONE IN ACCORDANCE WITH THE ANSI COLD FORMED STEEL DESIGN MANUAL.

DESIGN PARAMETERS FOR WIND LOAD COMPLIANCE

- 1. RISK CATEGORY II
- 2. 2021 INTERNATIONAL BUILDING CODES WITH LOCAL AMENDMENTS AND ASCE 7-10
- 3. BUILDING DESIGN IS ENCLOSED
- 4. MEAN ROOF HEIGHT IS 15'-0"
- 5. ROOF PITCH 1/4":12" DEGREES
- 6. INTERNAL PRESSURE COEFFICIENT ± 0.18
- 7. WIDTH OF END ZONE A = 6'-0"
- 8. WIND SPEED (VULT) 120 MPH 3-SECOND GUST (VASD) 93 MPH 3-SECOND GUST
- 9. WIND EXPOSURE CLASSIFICATION: C
- 10. ADJUSTMENT FACTOR FOR EXPOSURE AND HEIGHT = 1.00

EFF. AREA (SQ.FT.)	WIND COMPONENTS AND CLADDING PRESSURES (PSF)				
	ROOF			WALL	
	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
< 10	+16.00/-25.9	+16.00/-43.5	+16.00/-65.4	+25.9/-28.1	+25.90/-34.70
20	+16.00/-25.2	+16.00/-38.8	+16.00/-54.2	+24.7/-26.9	+24.70/-32.40
50	+16.00/-24.4	+16.00/-32.7	+16.00/-39.3	+23.20/-24.40	+23.20/-29.30
100	+16.00/-23.7	+16.00/-28.1	+16.00/-28.1	+22.00/-24.20	+22.00/-26.90

SOFFIT PRESSURES (PSF)		
EFFECTIVE AREA (SQ.FT.)	ZONE 2	ZONE 3
< 10	-37.6	-61.85
20	-36.9	-48.55
50	-36.05	-31.00
100	-35.35	-17.70

ALL THESE WIND PRESSURES ARE MULTIPLIED WITH ADJUSTMENT FACTOR FOR BUILDING AND HEIGHT AND REDUCED PRESSURES PER FBC /IBC WITH MULTIPLYING FACTOR: 0.6

THE DESIGN WIND PRESSURE FOR C&C OF BUILDINGS SHALL NOT BE LESS THAN A NET PRESSURE OF 16 LBS/SQ. FT. ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.

- 11. LOADS:
- ROOF / DEAD : 25 PSF
- ROOF / LIVE : 30 PSF
- WALL : 19 PSF (MWFRS)

DESIGN PARAMETERS FOR SEISMIC LOAD COMPLIANCE

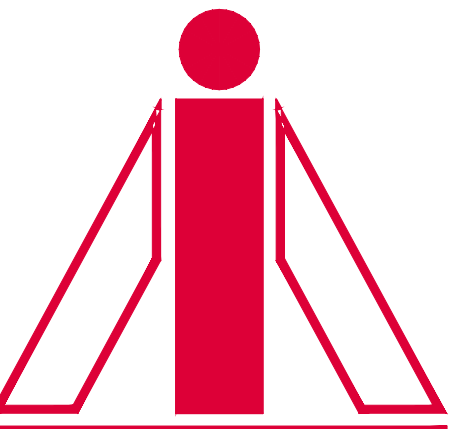
- 1. IMPORTANCE FACTOR = 1.0
- 2. OCCUPANCY RISK CAT. II
- 3. SPECTRAL RESPONSE ACCELERATIONS
S_s = 0.135
S_i = 0.069
- 4. SITE CLASS D
SPECTRAL RESPONSE COEF.
S_{ds} = 0.144
S_{d1} = 0.11
- 5. SEISMIC DESIGN CAT. B
- 6. SEISMIC FORCE RESISTING SYSTEM
SPECIAL STEEL CONCENTRICALLY
- 7. BRACE FRAMES R=3.25
- 8. ANALYSIS PROCEDURE
EQUIVALENT LATERAL FORCE
- 9. SEISMIC BASE SHEAR 3.8% OF W

LATERAL FORCE-RESISTING SYSTEMS SHALL MEET SEISMIC DETAILING REQUIREMENTS AND LIMITATIONS PRESCRIBED IN ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A, EVEN WHEN WIND LOAD EFFECTS ARE GREATER THAN SEISMIC LOAD EFFECTS. ALL STRUCTURAL FRAMING SHALL MEET ULTIMATE WIND SPEED REQUIREMENTS AS SET FORTH IN CHAPTER 16, IBC 2021

SOIL:

GEOTECHNICAL REPORT:
RETL JOB NO. : 0303382
PROVIDED BY PSI
DATE: 02/29/2012, SUGGESTED TO USE MIN. 6FT. SOIL CUT & FILL W/ LOW PLASTICITY SELECT FILL. PROOF ROLLED & PROPERLY COMPACTED BEFORE ANY FOUNDATIONS POURED.

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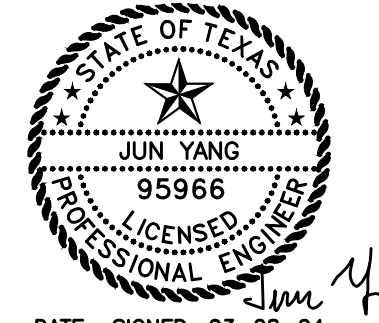
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SHEET TITLE
STRUCTURAL GENERAL NOTES

DRAWING NUMBER SHEET NO.
S05

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR FOR ERECTOR STARTING WORK.
2. ANY DEVIATIONS FROM THESE DRAWINGS DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
3. THE GENERAL CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION DURING THE CONSTRUCTION TO COMPLY WITH LOCAL CODES, FEDERAL, AND OSHA REGULATIONS.
4. THE GENERAL CONTRACTOR SHALL GRADE, BACKFILL, LEVEL AND OTHERWISE PREPARE THE JOBSITE FOR SAFE WORKING CONDITIONS PRIOR TO ERECTION OF ANY KIND.
5. NO STEEL SHALL BE ERECTED ON THE FOUNDATIONS / FOOTINGS UNTIL THE CONCRETE HAS CURED A MINIMUM OF (3) DAYS.
6. ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE NEC, AND PERFORMED BY A LICENSED ELECTRICIAN.
7. A TYPICAL FOUNDATION DESIGN WILL BE PROVIDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT SOIL CONDITIONS AT THE SITE ARE ADEQUATE FOR TYPICAL FOUNDATIONS PROVIDED, UPON REQUEST, THE ENGINEER OF RECORD WILL PROVIDE THE REQUIRED DESIGN LOADS AND ANCHOR BOLT PATTERNS FOR A CUSTOM FOUNDATION DESIGNED BY OTHERS.
8. THE GENERAL CONTRACTOR SHALL PROVIDE ALL THE NECESSARY MEANS FOR GARBAGE AND DEBRIS REMOVAL.

SITE CONDITIONS

1. PROVIDE A DRIVE ACCESSIBLE TO WITHIN 15' OF THE PERIMETER OF THIS STRUCTURE IN ORDER TO UNLOAD MATERIALS AND PERFORM WORK.
2. FILL ALL OPEN TANK HOLES AND TRENCHES WITHIN 15' OF THE PERIMETER OF THIS STRUCTURE FROM THE TIME THAT THE STRUCTURE ANALYSIS UNTIL ERECTION IS COMPLETE.
3. THE JOBSITE MUST BE DRY ENOUGH FOR VEHICLES AND PERSONNEL TO PERFORM WORK. IF NECESSARY, THE GENERAL CONTRACTOR SHOULD LAY GRAVEL IN EXCESSIVELY MUDDY AREAS TO ENSURE ADEQUATE WORKING CONDITIONS.
4. POURED CONCRETE PAVING UNDER AND AROUND THE PERIMETER OF THE STRUCTURE TO BE EXCLUSIVELY FOR WORK SPACE AND STAGING OF MATERIALS.
5. ALL OVERHEAD OBSTRUCTIONS ARE TO BE REMOVED PRIOR TO THE ARRIVAL OF MATERIALS.
6. FORM, SET, AND POUR FOUNDATIONS AS PER PROVIDED FOUNDATION PLAN. ALL FORMS SHALL BE REMOVED PRIOR TO ARRIVAL OF MATERIALS AND ALL ANCHOR BOLT THREADS SHALL BE FREE OF DEBRIS / DUST AND SHALL BE ACCESSIBLE.
7. ALL ANCHOR BOLTS (WITH NUTS INSTALLED) SHALL BE SET AT THE PROPER ELEVATIONS WITH NO MORE THAN 1/4" TOLERANCE.
8. PROVIDE TEMPORARY POWER SOURCE (110 VOLTS) WITHIN 100 FEET OF THE STRUCTURE FOR THE ERECTORS USE.
9. OBTAIN ALL REQUIRED PERMITS FROM LOCAL AUTHORITIES AND ARRANGE ALL LOCAL INSPECTIONS UNLESS PROVIDED BY THE ENGINEER OF RECORD.

ERECTOR NOTES

1. VERIFY ALL ITEMS UNDER THE SITE CONDITIONS IF THESE ITEMS HAVE NOT BEEN ADDRESSED. CONTACT YOUR SUPERVISOR PRIOR TO UNLOADING MATERIALS.
2. VERIFY DIMENSIONS OF ALL FOOTING LOCATIONS PRIOR TO UNLOADING MATERIALS.
3. DESIGNATE A SAFE AND SECURE STAGING AREA AND UNLOAD ALL MATERIALS.
4. SET LEVELING NUTS TO PROPER ELEVATIONS.
- 4.1 NOTE: ALL LEVELING NUTS TO BE AT THE SAME ELEVATION.
5. SET COLUMNS IN PLACE. LEVEL, PLUM, AND TIGHTEN NUTS ON ALL COLUMNS PRIOR TO PROCEEDING.
6. INSTALL ALL OVERHEAD STEEL FRAMING ONCE ALL FRAMING HAS BEEN INSTALLED. SQUARE UP FRAMING BY VERIFYING LATER DIMENSIONS.
7. CLEAN ALL DECKING PRIOR TO INSTALLATION. INSTALL ALL FASTENERS AT THE CENTERLINES OF THE DECK RIBS.
8. INSTALL OVERFLOW SCUPPERS AND WATERPROOF ENTIRE GUTTER.
9. INSTALL DECK SUPPORTS AT COLUMNS WHERE DECK RIBS WERE CUT FOR INSTALLATION PURPOSES.
10. WATERPROOF THE ENTIRE STRUCTURE AND CLEAN ALL PRE-FINISHED MATERIALS. TOUCH UP ALL EXPOSED FASTENERS.
11. CLEAN UP ALL DEBRIS AND REMOVE FROM JOBSITE (EACH DAY AT THE COMPLETION).
12. REMOVE ALL METAL SHAVINGS FROM CANOPY.

STRUCTURAL STEEL

1. STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A-992, GRADE 50, FY = 50 KSI
2. SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 KSI
3. STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, FY = 35 KSI
4. CHANNELS, ANGLES AND PLATES ASTM A36
5. STRUCTURAL STEEL DESIGN SHALL BE DONE IN ACCORDANCE WITH AISC "MANUAL OF STEEL CONSTRUCTION".
6. ALL STRUCTURAL STEEL TO BE PAINTED ONE SHOP COAT OF RUST INHIBITIVE PAINT OR EQUAL TO RUSTOLEUM.
7. STRUCTURAL STEEL FABRICATIONS AND ERECTION SHALL BE DONE IN ACCORDANCE WITH THE AISC LA TEST CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

SITE CONDITIONS

1. ANCHOR BOLTS SHALL BE ASTM A325N MATERIAL.
2. INSTALLATION OF ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH THE ANSI CODE OF STANDARD PRACTICE, SECTIONS 7.5.

WELDING

1. STRUCTURAL WELDING SHALL CONFORM TO AWS D1.1.
2. STRUCTURAL LIGHT GAUGE WELDING SHALL CONFORM TO AWS 1.3.
3. STRUCTURAL WELDING SHALL BE DONE IN THE SHOP OF A LICENSED FABRICATOR.
4. ALL STRUCTURAL FIELD WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.
5. AWS E70XX ELECTRODES SHALL BE USED FOR ALL STRUCTURAL WELDS, EXCEPT FOR SPECIAL CLIPS.
6. ALL STRUCTURAL WELDS TO BE 1/4" FILLET, FULL PENETRATION WELDS, UNLESS OTHERWISE SPECIFIED.

BOLTS

1. ALL BOLTS SHALL BE ASTM A325 HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE ON THESE DRAWINGS.
2. HIGH STRENGTH BOLTS SHALL BE INSTALLED USING THE "TURN OF BUT" TIGHTENING METHOD. BOLTS SHALL BE BROUGHT TO THE SNUG TIGHT CONDITION AND THEN TIGHTENED 1/3 TURN.

SCREWS

1. SHEET METAL SCREWS SHALL BE MADE FROM CARBON STEEL WIRE.
2. SIZE AND SPACING SHALL BE INDICATED ON DETAIL SHEETS.

POP RIVETS

1. ALL POP RIVETS SHALL BE THE BREAK MANDREL BLIND RIVET TYPE AND SHALL CONFORM TO IFI STANDARD 114.
2. FINISHES SHALL BE ALUMINUM OR STAINLESS STEEL.
3. SIZE AND SPACING SHALL BE INDICATED ON THESE DRAWINGS.
4. POP RIVETS SHALL NOT BE USED IN STRUCTURAL APPLICATIONS UNLESS SPECIFICALLY CALLED FOR BY THE DESIGN CALCULATIONS.

ROOFING NOTES

1. ROOFING MATERIAL SHALL BE ATTACHED PER MANUFACTURERS SPECIFICATIONS TO MEET THE DESIGN CRITERIA PRESCRIBED IN THESE PLANS.
2. ROOF TO BE PITCHED A MINIMUM OF 1/4" PER FOOT.

FOUNDATION NOTES

1. SOIL TO BE COMPACTED TO AT LEAST 95% MAX. DRY DENSITY AS DETERMINED BY ASTM - 1557 (MODIFIED PROCTOR).
2. FOUNDATIONS ARE DESIGNED BASED ON A PRESUMPTIVE MINIMUM SOIL BEARING PRESSURE OF 2000 PSF.
3. FOOTINGS SHALL BE PLACED ON COMPACTED SOIL FREE OF ORGANIC DEBRIS.
4. ASSUMED BEARING CAPACITY OF SOIL = 2000 PSF.

STEEL STUD NOTES

1. MATERIALS:
 - 1.1 STUDS AND TRACKS : 16 GA & 18 GA. STUDS. TRACKS TO MATCH GAUGE OF STUDS.
 - 1.1.1. ASTM A446 GRADE D, FY - 50 KSI MIN.
 2. ALL WELDING TO BE DONE BY A CERTIFIED WELDER.
 3. CONNECTIONS:
 - 3.1 FIELD BOLTED / TEK SCREWED W/ #14 x 3/4" GALV. TEK SCREWS (4 MIN. PER CONNECTION).
 - 3.2. ALL MATERIAL IS GALVANIZED COATED IN ACCORDANCE WITH ASTM 525-G60.
 - 3.3 APPLY ZIN RICH COATING TO ALL FIELD WELDS.
 4. SUBMIT SHOP DRAWINGS FOR ALL STUD MATERIAL PRIOR TO FABRICATION.
 5. ALL EXTERIOR STUDS ARE TO BE 6" WIDE, 16 GA. MIN @ 16" O.C.
 6. ALL STUD MEMBERS AND THEIR CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR/ INSTALLER FOR A HORIZONTAL WIND LOAD NOTES IN THESE DESIGN PARAMETERS, PROVIDE CALCUALTIONS STMAPED AND SIGNED BY A REGISTERED ENGINEER IN THE STATE WHERE PROJECT IS LOCATED.
 7. DEFLECTION LIMIT IS L/240OR L/360 FOR PLASTER APPLICATIONS.
 8. WELD SIZES ARE TO BE 1/8" MIN. WITH AWS TYPE 6013 OR 7014 FILLER.
 9. PROVIDE CONTINUOUS BRIDGING @ 4'-0" O.C. MAX. FOR ALL WALLS.
 10. BRIDGING FOR ROOF JOISTS SHALL BE 8'-0" O.C. MAX.

STEEL ROOF DECK NOTES

1. DECK SHALL BE 1-1/2", 22 GA. GALV. (G60), TYPE F.
2. DECK ENDS MAY BE EITHER BUTTED OR LAPPED OVER SUPPORTS.
3. ON JOIST FRAMING, APPROPRIATE END LAPS SHALL OCCUR OVER A TOP CHORD SUPPORT ANGLE FOR ANCHORAGE.
4. ATTACH METAL DECK TO STRUCTURAL STEEL WITH A 5/8" DIA. PUDDLE WELD @ 6" O.C. AT THE EDGES AND 10" O.C. IN THE FIELD.
5. FASTEN SIDE LAPS WITH #12 X 3/4" GALV. TEK SCREWS @ 6" O.C.

STEEL BAR JOIST NOTES

1. FABRICATION AND ERECTION PER SJI REQUIREMENTS.
2. JOIST BRIDGING:
 - 2.1 THE NUMBER OF ROWS AS SHOWN ON THE CONTRACT DRAWINGS.
 - 2.2 SHOULD NOT BE LESS THAN REQUIRED BY SJI.
 - 2.3 USE HORIZONTAL BRIDGING FOR K-SERIES.
 - 2.4 USE DIAGONAL ROW NEAREST TO THE MID SPAN WHERE 4 OR 5 ROWS ARE REQUIRED BY SJI.
 - 2.5 DIAGONAL BRIDGING TO BE BOLTED TO THE JOISTS AT THEIR POINT OF INTERSECTION.
 - 2.6 ENDS TO BE ANCHORED W/ HORIZ. BRIDGING.
 - 2.7 HORIZ. BRIDGING MAY BE IN NO MORE THAN (2) CONSECUTIVE BAYS TO PROVIDE PASSAGE FOR DUCT WORK.
3. JOIST BEARING:
 - 3.1 WELD ALL JOISTS TO THE SUPPORTING STEEL W/ (3) INCHES OF 1/8" FILLET WELDS FOR K-SERIES JOIST EA. SIDE OF BEARING.
 - 3.2 JOIST TO BE FIELD BOLTED NEAR OR ON THE COLUMN LINES.
 - 3.3 IF THERE IS NO JOIST @ COLUMN LINE, FIELD BOLT CLOSEST TO THE COLUMN ON EA. SIDE.
 - 3.4 EXTEND BOTTOM CHORDS OF THE SAME JOISTS AND WELD THEM W/ 1/4" WELDS TO THE BEAM OR COLUMN.
 - 3.5 EXTEND ALL JOISTS 1" MIN. PAST THE CENTERLINE OF THE SUPPORTING STEEL MEMBERS (WHERE POSSIBLE).
 - 3.6 BEARING LOCATION TO BE PER SHOP DRAWINGS ACCORDING TO THE STANDARD PROVISIONS OF SJI.
4. SHOP DRAWINGS:
 - 4.1 FURNISH (2) PRINTS OF EA. SHOP AND ERECTION DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, STEEL JOISTS, AND MISC. STEEL TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION.

WINDOWS AND DOOR NOTES

1. WINDOWS, DOORS, SHUTTERS, AND ALL COMPONENTS SHALL BE DESIGNED AND INSTALLED PER THE MINIMUM DESIGN PRESSURES AS PRESCRIBED IN THESE PLANS.
2. ALL WINDOWS ARE TO BE INSTALLED ON 2X PRESSURE TREATED BUCKS, AND AS PER MANUFACTURERS SPECIFICATIONS UNLESS OTHERWISE NOTED.

SHOP DRAWINGS

1. SHOP DRAWINGS ARE TO BE SUBMITTED FOR ALL STRUCTURAL ELEMENTS OF THE BUILDING, FOUNDATION, ETC., FOR REVIEW IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
 - 1.1 DRAWINGS SHALL BE LEGIBLE AND CLEARLY MARKED WITH MATERIAL SIZE, SPECIFICATION, ETC.
 - 1.2 ALLOW A MINIMUM OF 2 WEEKS FOR SHOP DRAWING REVIEW.
 - 1.3 CONTRACTOR IS RESPONSIBLE FOR CLEAR AND CONCISE SHOP DRAWING SUBMITTAL FOR REVIEW TO THE ENGINEER OF RECORD.
 - 1.3.1 ALL DIMENSIONS, SIZES, DESIGN COMPLIANCE, ETC., IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BEFORE DRAWINGS ARE SUBMITTED TO THE ENGINEER OF RECORD FOR FINAL REVIEW.
 - 1.4 IF THERE ARE ANY DISCREPANCIES BETWEEN THE SHOP DRAWINGS AND
 2. STRUCTURAL DRAWINGS, THE STRUCTURAL DRAWINGS SHALL GOVERN. PROVIDE SUBMITTALS FOR THE FOLLOWING MATERIALS:
 - 2.1 CONCRETE MIX DESIGN
 - 2.2 CURING COMPOUND
 - 2.3 REINFORCING STEEL AND ALL STRUCTURAL STEEL
 - 2.4 METAL DECKING
 - 2.4.1 LAYOUT, TYPES, ANCHORAGE, CHANNELS, OPENINGS, ACCESSORIES, ETC.

CONCRETE NOTES

1. ENGINEER OF RECORD MUST BE NOTIFIED WITHIN 48 HOURS OF PLACING CONCRETE.
2. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
3. STRUCTURAL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 3000 PSI UNLESS OTHERWISE NOTED.
4. CONCRETE, WHEN PLACED, SHALL HAVE A SLUMP OF 4" PLUS OR MINUS 1".
5. PROVIDE A MINIMUM OF 6 MIL. VAPOR BARRIER AT ALL AIR CONDITIONED SPACES AND GARAGES. HOLES IN VAPOR BARRIER ARE NOT PERMITTED AROUND ALL SEAMS AND CUT-OUTS.
6. ALL REINFORCING SHALL CONFORM TO ASTM A615 FOR GRADE 60, STEEL/WELDED WIRE MESH TO CONFORM TO ASTM A-185.
 - 6.1. PROVIDE CHAIRS AND BOLSTERS.
 - 6.1.1. BOLSTERS TO HAVE PLASTIC COATED LEGS AND FEET (IF EXPOSED TO EXTERIOR ELEMENTS).
 - 6.2 ENSURE MESH IS EMBEDDED 1" FROM THE TOP SLAB. LAP JOINTS @ 8" AND TIE.
 7. WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A185 AND SHALL BE ADEQUATELY SUPPORTED @ 3'-0" O.C. EACH WAY.
 8. THE MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS:
 - CAST AGAINST EARTH: 3"
 - EXPOSED TO EXTERIOR ELEMENTS: 1"
 - FORMED SURFACES: 1"
 - CONSTRUCTION JOINTS DESIGN AND LOCATIONS SHALL CONFORM STRICTLY TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. ANY CONSTRUCTION OR CONTROL DESIRED OR PREFERRED BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION OF THOSE AREAS INVOLVED.
 9. CHECK ALL DRAWINGS AND APPLICABLE MANUFACTURER'S SHOP DRAWINGS FOR LOCATION OF ALL EMBEDDED ITEMS SUCH AS PIPE SLEEVES, ANCHOR BOLTS, ETC., PRIOR TO PLACING CONCRETE.
 10. REINFORCEMENT FOR CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AND SPLICED WITH A FULL 30" LAP. PROVIDE CORNER BARS.
 11. CONTRACTOR SHALL PROVIDE SAWCUTS IN SLAB @ A MAX. SPACING OF 20'-0" ON CENTER EACH WAY OR 400 S.F. AND AT ALL RE-ENTRANT CORNERS. SAW CUT SHALL BE 1/4 OF THE SLAB DEPTH AND SHALL BE PERFORMED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH TO PREVENT THE AGGREGATE FROM DISLODGING BY THE SAW BLADE. THIS IS AN EFFORT TO CONTROL THE STRESSES, AN INHERENT PROPERTY OF CONCRETE WHICH SOMETIMES RESULTS IN CRACKS (WHICH IS NOT UNCOMMON).
 12. CONCRETE FOR SLABS ON GRADE AND ELEVATED SLABS SHALL HAVE 3/4" LARGE AGGREGATE. "PEAROCK" IS NOT PERMITTED FOR SLABS.
 13. ELEVATED SLABS SHALL BE TEMPORARILY SHORED UNTIL FULLY CURED.
 14. ALL CONCRETE THAT IS ALTERED (WATER, ADDITIVES, ETC.) SHALL BE TESTED TO ENSURE STRENGTH REQUIREMENTS ARE MET.

CONT'D ON S05



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

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CEF22-S05.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047

I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

CEFCO
F2501-B SERIES
RIGHT FACING

PROFESSIONAL SEAL FIRM REG. NO: 12652

DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE
STRUCTURAL GENERAL NOTES

DRAWING NUMBER SHEET NO.
S05A

NOTES TO DRAWINGS

DEMOLITION

- CONTRACTOR TO DEMOLISH AND REMOVE ALL TRACES FROM SITE OF ALL EXISTING STRUCTURES ABOVE GROUND (AND BELOW GROUND AS INDICATED ON DRAWINGS) NOT NOTED AS REMAINING OR RELOCATED. DISREGARD THIS NOTE IF NO DEMOLITION IS INDICATED ON DRAWINGS.
- GENERAL CONTRACTOR TO PROVIDE AND MAINTAIN ALL FENCES, BARRICADES, LIGHTS, SHORING AND OTHER PROTECTIVE DEVICES NECESSARY FOR THE SAFETY OF WORKMEN, EQUIPMENT, THE PUBLIC AND PROPERTY AS REQUIRED BY STATE AND FEDERAL LAWS AND REGULATIONS AND LOCAL ORDINANCES. MAKE PROVISIONS TO CLOSE AND LOCK THE BUILDING AS SOON AS IT IS POSSIBLE TO DO SO. PROTECT ALL DOOR OPENINGS, WHEN NECESSARY, WITH TEMPORARY BATTEN DOORS. COVER WINDOWS AND OPENINGS WITH SUITABLE MATERIALS WHEN WEATHER CONDITIONS REQUIRE.
- THE SITE OF THIS OPERATION SHALL BE FULLY PROTECTED AS REQUIRED BY LOCAL AUTHORITIES. WARNING SIGNS, BARRICADES, ETC. SHALL BE PROVIDED BY THE CONTRACTOR.
- GENERAL CONTRACTOR TO PROVIDE SUFFICIENT FIRE EXTINGUISHERS ON THE JOB SITE DURING THE COURSE OF CONSTRUCTION, OF THE TYPES AND SIZES RECOMMENDED BY THE NFPA TO CONTROL FIRES RESULTING FROM THE PARTICULAR HAZARDOUS WORK BEING PERFORMED. INSTRUCT EMPLOYEES IN THE USE OF EXTINGUISHERS AND PLACE THEM IN THE IMMEDIATE VICINITY OF THE HAZARDOUS WORK, AVAILABLE FOR IMMEDIATE USE. COMMENCE NO HAZARDOUS WORK UNTIL FIRE EXTINGUISHERS OF AN APPROVED TYPE AND CAPACITY ARE PLACED IN THE WORKING AREA, AVAILABLE FOR IMMEDIATE USE.
- THE CONTRACTOR WILL BE VIGILANT AND RESPONSIBLE FOR MAINTAINING JOB SAFETY AND SECURITY. THE OCCUPATIONAL, SAFETY AND HEALTH ACT FEDERAL SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES.

NOTES TO DRAWINGS

INTERIOR WORK

- ALL SURFACES SHALL BE PROPERLY PREPARED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS PRIOR TO THE INSTALLATION OF WALL COVERING. WALL FINISH TO BE SAMPLED FOR APPROVAL. FLAME SPREAD RATINGS FOR INTERIOR FINISHES ARE TO BE IN ACCORDANCE WITH APPLICABLE CODES.
- ALL WORK NOTED "N.I.C." OR "NOT IN CONTRACT" IS TO BE ACCOMPLISHED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE PART OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH "OTHER" CONTRACTORS AS REQUIRED.
- CONTRACTOR SHALL COOPERATE AND COORDINATE ALL JOB OPERATIONS WITH THE OPERATIONS OF OTHERS DOING ADJACENT WORK, SO AS TO PREVENT DELAYS AND CONFLICTS, OR DAMAGES TO EITHER PARTY'S OPERATIONS OR MATERIALS.
- WHERE CLEARANCE PROBLEMS ARISE IN LOCATION OF LIGHT FIXTURES, RETURN AIR GRILLES, SUPPLY DIFFUSERS AND TROFFERS, ETC., AS SHOWN BY DRAWINGS, CONTRACTOR HAS THE OPTION TO RELOCATE BUILDING SYSTEMS WITHIN EACH ROOM AREA WITHOUT AFFECTING THE REQUIRED LIGHT LEVELS AND CFM AIR DISTRIBUTION TO WORK WITHIN THE SPECIFIED CONSTRUCTION CLEARANCES.
- PARTITIONS ARE TO BE CONTINUOUS OVER DOORS, WHEN APPLICABLE, SIMILAR TO ADJACENT WALLS WHERE DRYWALL CONTINUES TO STRUCTURE ABOVE.
- UNLESS NOTED OTHERWISE, ALL PARTITIONS SHALL BE TYPE "A".
- CONTRACTOR SHALL PROVIDE WOOD TREATED AND FLAME RETARDANT BLOCKING OR REINFORCING IN PARTITIONS THAT ARE COMMON FOR THE NEED OF SUPPORTING FIXTURES, CABINETS, EQUIPMENT, FURNITURE ETC., AS MAY BE REQUIRED OR SHOWN BY DRAWINGS.
- CONTRACTOR SHALL PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL PLUMBING CHASES INDICATED AND BEHIND ALL COUNTERS WHICH ACT AS WET PRONE AREAS.
- THE SUSPENSION GRID CEILING SYSTEM SHALL RUN CONTINUOUS AND NO MAIN TEES MAY BE CUT FOR ANY REASON, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE OWNER.
- ALL FLOOR MATERIALS AND COLOR CHANGES FROM ROOM TO ROOM SHOULD OCCUR AT THE CENTER LINE OF DOOR PANEL, ENCASMENT OPENING, OR AS INDICATED BY THE DRAWINGS.
- CONTRACTOR TO CONFIRM ALL INDIVIDUAL LOCK SETS AND THEIR KEYING REQUIREMENTS, THE QUANTITY AND MASTERING SYSTEM WITH THE OWNER.
- ALL HEIGHTS ARE MEASURED FROM THE TOP OF SLAB UNLESS INDICATED OTHERWISE.
- ALL TELEPHONE EQUIPMENT, WIRING, CONDUITS, ETC., SHALL BE SUPPLIED AND INSTALLED BY THE OWNER AT THEIR EXPENSE. WHERE TELEPHONE COAXIAL OUTLETS ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE PULL STRING, TELEPHONE OR COAXIAL CABLE REQUIRED TO BE LOCATED IN AN EXTERIOR OR INTERIOR WALL SILL BELOW A GLASS PANEL OR AN OPEN ENCASMENT OF THE WALL SHALL BE ACCESSED WITH THE MEANS OF CONDUIT AND PULL STRING.
- ALL TELEPHONE LINES SHALL BE TEFLON COATED AND MEET WITH THE LATEST CODE REQUIREMENTS IN JURISDICTION.
- CONTRACTOR SHALL PROVIDE 3/4" PLYWOOD PANEL PAINTED TO MATCH ADJACENT WALL, FOR TELEPHONE EQUIPMENT. MOUNT PANEL, SIZE AND LOCATION, AS SHOWN IN DRAWINGS.
- ALL OCCUPANT FURNITURE, EQUIPMENT AND MISCELLANEOUS WILL BE PROVIDED AND INSTALLED BY EQUIPMENT CONTRACTOR. THE EQUIPMENT LISTED IN DRAWINGS SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL REVIEW EQUIPMENT AND ARCHITECTURAL DRAWINGS IN ORDER TO VERIFY ANY DISCREPANCIES, ERRORS, OR OMISSIONS WITHIN THE CONTRACT DOCUMENTS. INDICATE ANY AND ALL CONFLICTS TO THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK.
- MATERIALS WHICH ARE CUSTOM-ORDERED FOR THE PROJECT AND WHICH CANNOT BE RETURNED ARE TO BE SUBMITTED FOR SAMPLE APPROVAL PRIOR TO SHIPMENT OF MATERIAL. ARCHITECT IS TO BE NOTIFIED IMMEDIATELY OF ANY ITEMS WITH LONG DELIVERY TIMES.
- SAMPLES OF CUSTOM PAINT COLORS ARE TO BE SUBMITTED FOR ARCHITECTS APPROVAL PRIOR TO PURCHASE OF MATERIALS.
- THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS SHALL DOCUMENT AS-BUILT CONDITIONS WHEN DIFFERENT FROM THE CONSTRUCTION DOCUMENTS, AND SHALL PROVIDE SAID DOCUMENTATION TO THE ARCHITECT UPON COMPLETION OF THE WORK.

NOTES TO DRAWINGS

MILLWORK

- THE CONTRACTOR SHALL PROVIDE FOR THE MILLWORK TO CONFORM TO THE DETAILS SHOWN ON THE DRAWINGS AND SHALL BE FABRICATED IN ACCORDANCE WITH THE ARCHITECTURAL WOODWORKING INSTITUTE AND THEIR REQUIREMENTS FOR CUSTOM GRADE QUALITY CONSTRUCTION, UNLESS NOTED OTHERWISE.
- PROVIDE ALL FINISHES AS REFERENCED ON THE DRAWINGS AND ELEVATIONS AND AS NOTED IN THE SPECIFICATIONS FOR FINISHES.
- SUBMIT SAMPLES FOR REVIEW BY THE ARCHITECT FOR APPEARANCE AND FINISH ONLY.
- ALL MILLWORK FABRICATORS SHALL PROVIDE EDGING ON ALL EXPOSED WOOD PARTICLE BOARD AND/OR PLYWOOD EDGES. ALL EDGING SHALL RUN CONTINUOUSLY AND BE SOLID MATERIAL MATCHING FACE VENEER EXCEPT FOR FIR PLYWOOD, WHICH SHALL BE EDGE BANDED WITH FAS CLEARGLUM. MITER EDGING AT CORNERS AND GLUE SURFACES SOLIDLY.
- INSTALL THE WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. ALL DIMENSIONS, PROFILES, JOINTS AND REVEALS SHALL BE HELD EXACT. INSTALL CABINET DOORS AND DRAWERS SO THEY FIT OPENINGS PROPERLY AND ARE PROPERLY ALIGNED - ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENCUMBERED OPERATION. COMPLETE THE INSTALLATION OF HARDWARE AND ACCESSORY ITEMS AS INDICATED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWING SHOWING THE LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE SCALE DETAILS, ATTACHMENT DEVICES AND OTHER RELATED COMPONENTS. CONTRACTOR TO SUBMIT ONE (1) SET OF EACH ORIGINAL AND THREE (3) BLUE LINE PRINTS OF EACH ORIGINAL FOR ARCHITECTS APPROVAL.

MILLWORK HARDWARE

- UNLESS NOTED OTHERWISE, ALL CABINETS SHOWN IN DRAWINGS AND WHICH ARE APPLICABLE TO THE PROJECT SHALL RECEIVE THE FOLLOWING HARDWARE. REFER TO CABINET ELEVATIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PULLS: "STANLEY 4484" / US 26
- MAGNETIC CATCHES: STANLEY NO. 41 / ONE PER DOOR PANEL. TWO PER DOOR PANEL 4'-0" HIGH OR HIGHER.
- DRAWER GLIDES: GRANT NO. 329 - ONE PAIR PER DRAWER.
- HINGES: "STANLEY 335" / US 26 - EQUALLY PLACED AT TOP, MIDDLE, AND BOTTOM.
- LOCKS: "CORBIN 15760" / US 26
- CABINET SHELF STD. AND BRACKETS: K AND V 255NP AND 256NP, MAXIMUM 5'-0" FOR SHELF LENGTH, 4 PER SHELF
- OPEN SHELVING STD. AND BRACKETS: K AND V 80 PLUS 180 MANUFACTURER STANDARD "WHITE" PAINTED FINISH AT 3'-0" ON CENTER, WITH MINIMUM 2 PER SHELF
- IN CASE OF SUBSTITUTION, CONTRACTOR SHALL SUBMIT TO ARCHITECT SAMPLES OF PROPOSED MILLWORK HARDWARE WITH PRIOR APPROVAL OF OWNER FOR ARCHITECTS FINAL APPROVAL.

NOTES TO DRAWINGS

ENERGY NOTES

- GENERAL NOTES:
- ALL BARRIER AND THERMAL BARRIER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - IC-RATED RECESSED LIGHTING FIXTURES SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATE <2.0 CFM LEAKAGE AT 75 PA.
 - AUTOMATIC OR GRAVITY DAMPERS ARE INSTALLED ON ALL OUTDOOR AIR INTAKES AND EXHAUSTS.
 - WALL INSULATION WILL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - CEILING INSULATION WILL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. BLOWN INSULATION MARKED EVERY 300 SF.
 - VENTED ATTICS WITH AIR PERMEABLE INSULATION INCLUDE BAFFLE ADJACENT TO SOFFIT AND EAVE VENTS THAT EXTENDS OVER INSULATION.
 - ALL SOURCES OF AIR LEAKAGE IN THE BUILDING THERMAL ENVELOPE ARE SEALED, CAULKED, GASKETED, WEATHER STRIPPED OR WRAPPED WITH MOISTURE VAPOR PERMEABLE WRAPPING MATERIAL TO MINIMIZE AIR LEAKAGE.
 - RECESSED LUMINAIRES IN THERMAL ENVELOPE TO LIMIT INFILTRATION AND BE IC RATED AND LABELED. SEAL BETWEEN INTERIOR FINISH AND LUMINAIRE HOUSING.

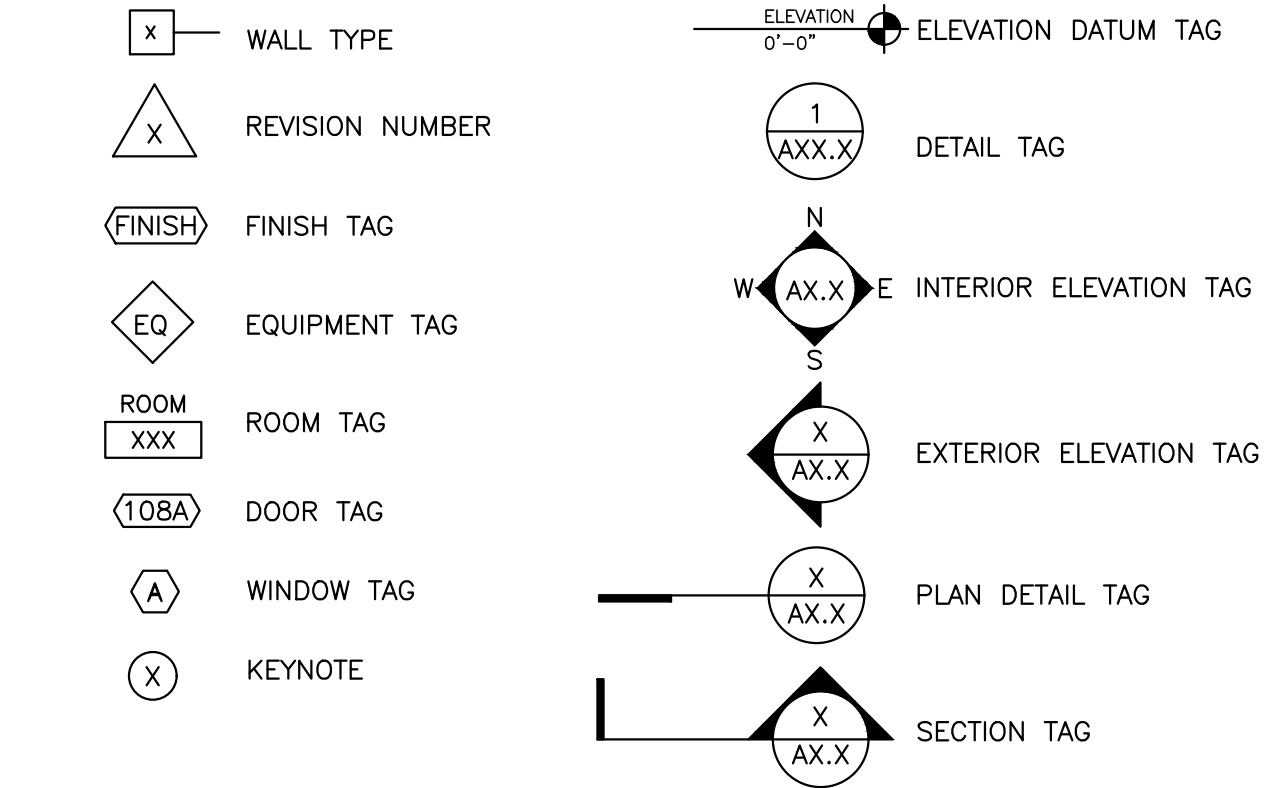
ENVELOPE:

- ROOF INSULATION INSTALLED PER MANUFACTURER'S INSTRUCTIONS. BLOWN LOOSE-FILL INSULATION IS INSTALLED ONLY WHERE THE ROOF SLOPE IS LESS THAN 3 IN 12.
- EXTERIOR INSULATION PROTECTED AGAINST DAMAGE, SUNLIGHT, MOISTURE, WIND, LANDSCAPING AND EQUIPMENT MAINTENANCE ACTIVITIES.
- INSULATION INTENDED TO MEET THE ROOF INSULATION REQUIREMENTS CANNOT BE INSTALLED ON TOP OF A SUSPENDED CEILING.
- HIGH-ALBEDO ROOFS SATISFY ONE OF THE FOLLOWING: 3-YEAR-AGED SOLAR REFLECTANCE IS ≥ 0.55 AND THERMAL EMITTANCE ≥ 0.75 OR 3-YEAR AGED SOLAR REFLECTANCE INDEX ≥ 64.0 .

FENESTRATION:

- FENESTRATION PRODUCTS RATED IN ACCORDANCE WITH NFRC, PRODUCTS ARE CERTIFIED AS TO PERFORMANCE LABELS OR CERTIFICATES PROVIDED.
- THE VERTICAL FENESTRATION AREA IS LESS THAN 30 PERCENT OF THE GROSS ABOVE-GRADE WALL AREA.
- THE SKYLIGHT AREA IS LESS THAN 3 PERCENT OF THE GROSS ROOF AREA.
- SPACES WHERE THE TOTAL AREA NET OF DAYLIGHT ZONES ADJACENT TO VERTICAL FENESTRATION IS LESS THAN 2,500 SF AND WHERE LIGHTING IS CONTROLLED.

GENERAL GRAPHIC SYMBOLS

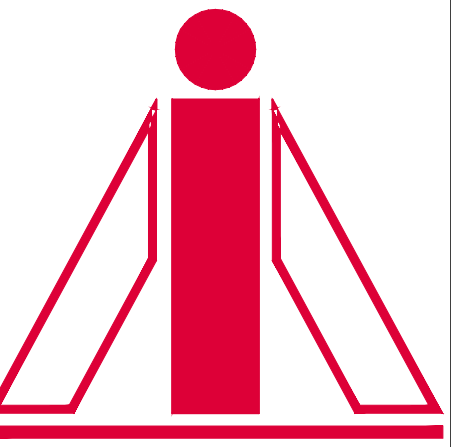


ABBREVIATIONS OF TEXT

ACST	ACOUSTICAL ARCHITECTURAL ACST CEILING TILE	ID	INSIDE DIAMETER	SATC	SUSPENDED ATC
ARCH	ARCHITECTURAL	INSF	INSULATING FILL	SECY	SECRETARY
ATC	ARCHITECTURAL ACST CEILING TILE	INSUL	INSULATION	SHLV	SHELVING
BD	BOARD	JT	JOINT	SHWR	SHOWER
BLK(G)	BLOCKING	SPC	SPACING	SPC	SENIOR OFFICER
BOL	BOLLARD	SR	SKIRTING	SR	SENIOR
BR	BEDROOM	STC	SOUND TRANSM. COEFF.	STC	SEATING
BSMT	BASEMENT	KS	KITCHEN SINK	STG	STORAGE
CAB	CABINET	LAB	LABORATORY	SUB	SUBCONTRACTOR
CER	CERAMIC	LAM	LAMINATE	SYM	SYMMETRICAL
CHBD	CHALK BOARD	LAV	LAVATORY	TKBD	TACK BOARD
CJ	CONSTRUCTION JOINT	LVR	LOUVER	TAG	TONGUE AND GROOVE
CLD	CLOSET	MLD	MOLDING	TB	TILE BASE
CLWC	CLEAR WIRE GLASS	MTR	METAL FURRING	TZ	TERRAZZO
COMP	COMPUTER	MUL	MULLION	THR	THRESHOLD
CDR	CORRIDOR	MWK	MILLWORK	TRWLD	TROWEL LED
CPL	CEMENT PLASTER	NO	NUMBER	UNFN	UNFINISHED
CPT	CARPET	NET	NON-SLIP TREAD	US	UNLESS
CT	CERAMIC TILE	NTS	NOT TO SCALE	VCT	VINYL COMPOSITION TILE
DC	DOOR CLOSER	OFF	OFFICE	VB	VINYL BASE
DEPT.	DEPARTMENT	OPH	OPPOSITE HAND	VCB	VINYL COVE BASE
DJ	DUMMY JOINT	OPN	OPENING	VWC	VINYL WALL COVERING
DR	DOOR	PRD	PARTICLE BOARD	VP	VISION PANEL
DWR	DRAWER	PLAS	PLASTER	WOW	WINDOW
EF	EACH FACE	PLWD.	PLYWOOD	WGL	WIRE GLASS
EXP	EXPANSION JOINT COVER	PREP	PREPARATION	WHS	WAREHOUSE
EXEC	EXECUTIVE	PT	PAINT(ED)	WLCOV	WALL COVERING
FAS	FASTEN	PW	PASS WINDOW	WST	WANGSOT
FT	FLOORING	QT	QUARRY TILE	WV	WINDOW WALL
FL(G)	FLOORING	QTY	QUANTITY		
FRM	FRAME	RB	RUBBER BASE		
GR	GUARD RAIL	RECP	RECEPTION		
GL	GLASS	REFL	REFLECTED		
GWB	GYPSUM WALL BOARD	RPH	ROOF HATCH		
GYP	GYPSUM	RH	RIGHT HAND		
HW	HARDWARE	RLG	RAILING		
HM	HOLLOW METAL	RT	RIGHT HAND		
HPT	HIGH POINT	RVS	REVERSE		

MANUFACTURERS STANDARDS

APA AMERICAN PLYWOOD ASSOCIATION 1115 A STREET TACOMA, WASHINGTON 98401 301 - 272-2283	NPA NATIONAL PARTICLE BOARD ASSOCIATION 2305 PERKINS PLACE SILVER SPRING, MARYLAND 20910 301 - 587-2204
AWI ARCHITECTURAL WOODWORK INSTITUTE 5035 SOUTH CHESTERFIELD ROAD ARLINGTON, VIRGINIA 22206 703 - 671-9100	NPCA NATIONAL PAINT AND COATING ASSOCIATION 1500 RHODE ISLAND AVENUE N.W. WASHINGTON, D.C. 20005 202 - 462-6272
BHMA BUILDERS HARDWARE MANUFACTURERS ASSOCIATION 60 EAST 42ND STREET NEW YORK, NEW YORK 10017 212 - 682-8142	TCA TITLE COUNCIL OF AMERICA, INCORPORATED BOX 329 PRINCETON, NEW JERSEY 08540 609 - 921-7000
CRI THE CARPET AND RUG INSTITUTE 310 HOLIDAY DRIVE BOX 2040, DALTON, GEORGIA 30720 404 - 278-3176	UL UNDERWRITERS LABORATORIES INCORPORATED 207 EAST 34TH STREET CHICAGO, ILLINOIS 60611 312 - 642-6969
DHI DOOR AND HARDWARE INSTITUTE 1815 N. FT. MYER DRIVE, SUITE 412 ARLINGTON, VIRGINIA 22209 703 - 527-2069	WFI WOOD AND SYNTHETIC FLOORING INSTITUTE 1000 PICK WICK AVENUE GLEN VIEW, ILLINOIS 60029 312 - 724-7700
GA GYPSUM ASSOCIATION 1603 ORRINGTON AVENUE EVANSTON, ILLINOIS 60201 312 - 491-1744	WIC WOODWORK INSTITUTE OF CALIFORNIA 850 S VAN NESS SAN FRANCISCO, CALIFORNIA 94109
HPMA HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION BOX 6246 ARLINGTON, VIRGINIA 22206 703 - 671-6262	



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-AIS.DWG

PROJECT TITLE
#0047



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A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
LICENSE, EXP.: 11-30-24

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ARCHITECTURAL INFORMATION SHEET

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AISS

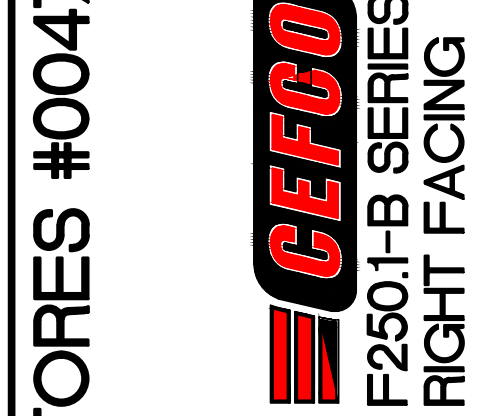
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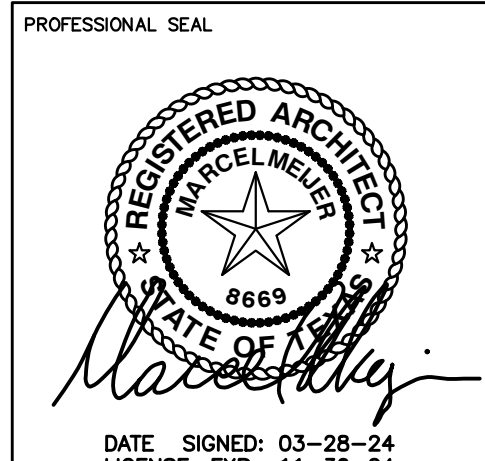
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ARCHITECTURAL SITE PLAN

DRAWING NUMBER: **A01** SHEET NO.

GENERAL NOTES:

- ROAD SIGN AND BASE ARE BY THE SIGN CONTRACTOR. CONDUIT AND WIRING ARE BY THE GENERAL CONTRACTOR. SIGN CONTRACTOR IS RESPONSIBLE TO COMPLY AND TO CONFORM WITH THE SOILS REPORT RECOMMENDATION FOR THIS PARTICULAR SITE.
- BASES, ANCHOR BOLTS, CONDUIT, AND WIRING FOR ALL OTHER SIGNS ARE BY THE GENERAL CONTRACTOR.
- PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATION SHALL BE DETERMINED BY GENERAL CONTRACTOR FOR MOST ECONOMICAL INSTALLATION. RE: CIVIL DOCUMENTS.
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINTS OF SERVICE CONNECTION AT EXISTING SITE UTILITIES. REFER TO THE BUILDING ELECTRICAL AND PLUMBING SHEETS FOR UTILITY SERVICE ENTRANCE LOCATION, SIZE, AND CIRCUITING.
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.
- FINISH WALK AND CURBS ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT ELEVATION SHOWN. RE: CIVIL DOCUMENTS.
- ALL LANDSCAPED AREAS SHALL BE ROUGH GRADED TO 3" BELOW TOP OF ALL WALKS, CURBS, AND PAVEMENT WITHOUT CURB. FINISH GRADING, LANDSCAPING AND SPRINKLER SYSTEM (IF APPLICABLE), ARE BY THE OWNER.
- LOT LIGHTING CONCRETE FOOTINGS TO CONFORM WITH THE SOILS REPORT RECOMMENDATIONS FOR THIS PARTICULAR SITE.
- STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION APPROVED STRIPING SHALL BE USED WHEREVER INDICATED.
- THE GENERAL CONTRACTOR SHALL RUN A ROTO-ROOTER THROUGH SEWER LINES THAT CONNECT TO A CITY MAIN PRIOR TO OPENING DAY.
- ALL DIMENSIONS SHOWN ARE FROM FACE TO FACE OF CURB UNLESS SHOWN OTHERWISE. RE: CIVIL DOCUMENTS.
- ALL CURBS AND WALKS ARE TO HAVE EXPANSION JOINTS EVER 20'-0" MAXIMUM. RE: CIVIL DOCUMENTS.
- CONTRACTOR TO ERECT ORANGE CONSTRUCTION FENCING AROUND ALL EXISTING LANDSCAPING AND TREES (OUT TO THE DRIP LINE). THIS FENCING MUST BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION AND MUST BE MAINTAINED PRIOR TO COMMENCING CONSTRUCTION AND MUST BE FOR THE DURATION OF CONSTRUCTION.
- CONTRACTOR TO COORDINATE ALL WORK OUTSIDE THE PROPERTY LINES WITH ADJACENT PROPERTY OWNER.

ACCESSIBLE PARKING SPACE TITLE 16 PART 4 CHAPTER 68 RULE 68.104

- (A) A PAVED ACCESSIBLE PARKING SPACE MUST INCLUDE:
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY PAINTED CONSPICUOUSLY ON THE SURFACE IN A COLOR THAT CONTRASTS THE PAVEMENT;
 - THE WORDS "NO PARKING" PAINTED ON ANY ACCESS AISLE ADJACENT TO THE PARKING SPACE. THE WORDS MUST BE PAINTED:
 - IN ALL CAPITAL LETTERS;
 - WITH A LETTER HEIGHT OF AT LEAST TWELVE INCHES, AND A STROKE WIDTH OF AT LEAST TWO INCHES; AND
 - CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE; AND
 - A SIGN IDENTIFYING THE CONSEQUENCES OF PARKING ILLEGALLY IN A PAVED ACCESSIBLE PARKING SPACE. THE SIGN MUST:
 - AT A MINIMUM STATE "VIOLATORS SUBJECT TO FINE AND TOWING" IN A LETTER HEIGHT OF AT LEAST ONE INCH;
 - BE MOUNTED ON A POLE, POST, WALL OR FREESTANDING BOARD;
 - BE NO MORE THAN EIGHT INCHES BELOW A SIGN REQUIRED BY TEXAS ACCESSIBILITY STANDARDS, 502.6; AND
 - BE INSTALLED SO THAT THE BOTTOM EDGE OF THE SIGN IS NO LOWER THAN 48 INCHES AND NO HIGHER THAN 80 INCHES ABOVE GROUND LEVEL.
 - A PARKING SPACE IDENTIFICATION SIGN THAT COMPLIES WITH TEXAS ACCESSIBILITY STANDARDS, 502.6, THAT INCLUDES THE REQUIREMENTS IN SUBSECTION (A)(3)(A) SATISFIES SUBSECTION (A)(3).

NOTE:

- ALL (NEW) TELEPHONE AND CABLE TELEVISION UTILITY LINES AND ALL ELECTRIC UTILITY LATERAL AND SERVICE LINES AND WIRES SHALL BE PLACED UNDERGROUND, EXCEPT AS OTHERWISE HEREIN PROVIDED.
- WHERE EXISTING OVERHEAD ELECTRICAL SERVICE EXISTS, ELECTRIC UTILITY SERVICE LINES FOR STREET OR SITE LIGHTING SHALL BE PLACED UNDERGROUND.
- ALL ELECTRICAL, CABLE TELEVISION, AND TELEPHONE SUPPORT EQUIPMENT (TRANSFORMERS, AMPLIFIERS, SWITCHING DEVICES, ETC.) NECESSARY FOR UNDERGROUND INSTALLATIONS IN SUBDIVISIONS SHALL BE PAD MOUNTED OR PLACED UNDERGROUND IN A PUBLIC UTILITY EASEMENT RATHER THAN A RIGHT-OF-WAY.

NOTE:

ALL EXTERIOR LOUVERS, EXHAUSTS, VENTS, FANS, FLASHING, PANEL BOXES, SWITCHGEAR, CONDUIT ELECTRICAL GUTTERS, BOLLARDS, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES OF THE BUILDING.

ON-SITE STRIPING NOTE:

ALL PAVEMENT MARKINGS SHALL BE AXCEL GORILLA STRIPING. <https://www.axcelcorp.com/products/traffic-paint/products/the-original-gorilla-acrylic-zone-marking-paint>

- PARKING STRIPING
- HANDICAP PARKING
- CROSS STRIPED PAVEMENT AREAS
- STOP BARS
- DIRECTIONAL ARROWS
- FIRE LANE STRIPING
- WHEEL STOPS

TXDOT STRIPING SHALL BE THERMOPLASTIC PER DOT STANDARD REQUIREMENTS AND SPECIFICATIONS. THIS APPLIES TO ALL TXDOT DRIVEWAYS AND ROADWAYS MARKINGS.

ENSURE T.A.S. COMPLIANCE: AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH T.A.S. REQUIREMENTS. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50

ENSURE T.A.S. COMPLIANCE: GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP RESISTANT, AND SHALL COMPLY WITH T.A.S. REQUIREMENTS.

ENSURE T.A.S. COMPLIANCE: PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.

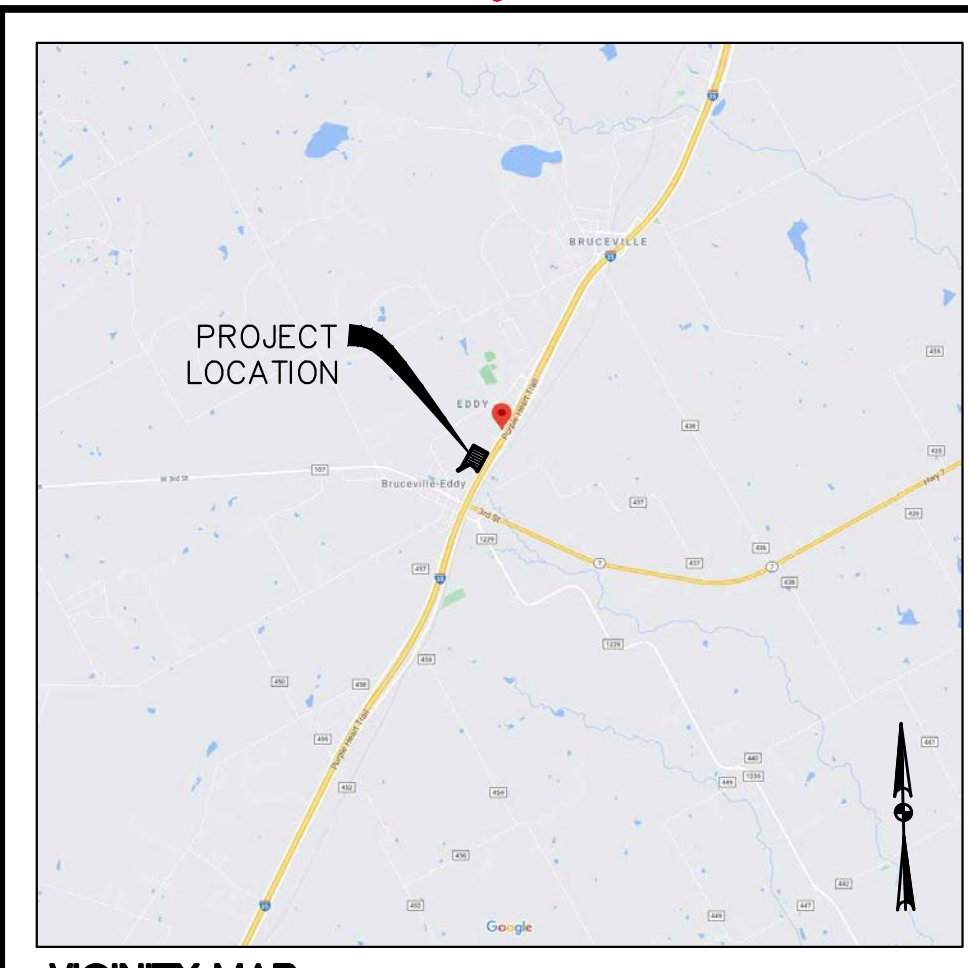
DEVINEY NANCY LITE
53.498 ACRES
DOC.# 2017008683
DRMCT

N28°27'10"E 1388.21'
(CALLS N28°27'21"E 1388.24')

REFER TO CIVIL DRAWINGS FOR MASTER SITE PLAN

Line Table

Line #	Direction	Length
L1	S80°46'40"W	30.00
L2	N30°06'36"W	39.73
L3	N79°51'28"E	69.35
L4	N58°46'18"E	53.34
L5	S31°10'08"E	90.38



VICINITY MAP
N.T.S.

COMMERCIAL DESIGN GUIDELINES

BUILDING AREA CALCULATION	
CEFCO CONVENIENCE STORE:	5,974 SQ. FT.
TOTAL BUILDING GROSS AREA:	5,974 SQ. FT.
FUEL CANOPY AREA:	8,512 SQ. FT.
TRUCK CANOPY AREA:	4,620 SQ. FT.
PARKING AREA CALCULATION	
CEFCO EXPRESS FOOD MART:	
CARS REQUIRED - 1/200 S.F.:	30 SPACES
(2 OF WHICH MUST BE H.C ACCESSIBLE)	
TOTAL CARS REQUIRED:	30 SPACES
CEFCO CONVENIENCE STORE:	
CARS PROVIDED:	53 SPACES
HANDICAP PARKING PROVIDED:	3 SPACES
FUEL CANOPY CARS PROVIDED:	20 SPACES
TOTAL CARS PROVIDED:	73 SPACES

SITE PLAN ARCHITECTURAL NOTES:

- PROPOSED BUILDING (RE: ARCHITECTURAL FLOOR PLANS)
- PROPOSED DUMPSTER ENCLOSURE (RE: SHEET S03A, S03AA, & S03B)
- PROPOSED 56'X152' FUEL CANOPY (RE: FUEL SHEETS)
- 3 UNDERGROUND FUEL STORAGE TANKS, BY WATCO TANKS INC. AND XERXES
 - 40,000 GAL. TANK FOR DIESEL (WATCO)
 - 40,000 GAL. TANK DIVIDED AT 26,000 REGULAR, 8,000 PREMIUM AND 6,000 ETHANOL (WATCO)
 - 8,000 GAL. TANK FOR DEF (XERXES)
- PROPOSED 6" ELEVATED CONCRETE PAD FOR AIR UNIT 6" BOLLARDS
- I.D. SIGN, ALL SIGNAGE SHALL BE ON PRIVATE PROPERTY ONLY AND MUST BE PERMITTED SEPARATELY BY A SIGN CONTRACTOR.
- PROPOSED 4" WHITE PARKING/AISLE STRIPE
- VAN ACCESSIBLE RESERVED PARKING
- PROPOSED 4" HANDICAP PARKING/AISLE STRIPE ACCESSIBLE ROUTE IN COMPLIANCE W/ 402 T.A.S. REQUIREMENTS.
- N/A
- N/A
- N/A
- PROPOSED ADA PARKING SIGN TO COMPLY W/ LATEST T.A.S. (RE:TAS1)
- PROPOSED LSI 20'-0" HIGH LIGHT POLES ARE TO BE ROUND, TAPERED STEEL BRONZE COLOR. LIGHTING FIXTURE SHALL BE "SHOE BOX" TYPE, SUPER METAL HALIDE TYP. *CONTRACTOR TO ENSURE NO CONFLICT WITH UNDERGROUND UTILITIES. LIGHT DUTY POLE BASE RE: S04A
- PROPOSED LSI 20'-0" HIGH LIGHT POLES ARE TO BE ROUND, TAPERED STEEL BRONZE COLOR. LIGHTING FIXTURE SHALL BE "SHOE BOX" TYPE, SUPER METAL HALIDE TYP. *CONTRACTOR TO ENSURE NO CONFLICT WITH UNDERGROUND UTILITIES. HEAVY DUTY POLE BASE RE: S04A
- PROPOSED 6" WHEEL STOP.
- PROPOSED MOUNTABLE CURB.
- PROPOSED PARIS FURNISHINGS DUAL PEDESTAL RECTANGULAR SHADED PICNIC TABLES. 3-DPS SPS 1-9PS APS. (CLIENT APPROVAL REQUIRED PRIOR TO BID/ORDER) -BY JIMCO
- PROPOSED 6" HIGH X 6" WIDE CURB AND GUTTER. RE: CIVIL DOC.
- PROPOSED CMU SCREEN WALL. RE: S04A/#21
- PROPOSED PARIS FURNISHINGS ADA RECTANGULAR SHADED PICNIC TABLES. (CLIENT APPROVAL REQUIRED PRIOR TO BID/ORDER) -BY JIMCO
- 1000 GAL UNDERGROUND PROPANE TANK (16'-0"X3'-5") WITH TANKHOLE OF 19'X6'X5". 4" CONCRETE SLAB RECOMMENDED AND THE STRAPPED DOWN (BY SSP). 3" PIPE INSTALL FROM BACK OF BUILDING TO THE TANK. COORDINATE WITH VENDOR, SMITH AND SMITH PROPANE FOR MORE DETAILS. PROPANE COMPANY TO DIG AND BURY TANK. CEFCO TO INSTALL YARD LINE FROM TANK TO BUILDING.
- N/A
- PROPOSED WALL PACK LIGHTS. RE: EXTERIOR ELEVATIONS.
- PROPOSED WATER METER LOCATION. RE: CIVIL DOCUMENTS.
- APPROXIMATE LOCATION OF 1'-4" SCHED. 40 PVC SLEEVE EXTEND 5' BEYOND FACE OF CURB (TYP. AT DRIVEWAYS). ALSO FOR IRRIGATION. RE: IRR
- 3'-0" ACCESSIBLE ROUTE OF TRAVEL.
- CAP ALL ENDS, TYPICAL (DO NOT CEMENT/GUE)
- SIGNAGE FROM TEXAS REPUBLIC SIGNS. RE:01 & TEXAS REPUBLIC SIGNS' SUBMITTAL.

SIGNAGE NOTES:
ALL SIGNAGE (INDOOR AND OUTDOOR) WILL BE PERMITTED THROUGH SIGNS ADMINISTRATION AND ARE NOT PART OF THESE DRAWINGS.

NOTE:
REFER TO CIVIL DRAWINGS FOR PLUMBING AND FIRELANE SHEETS.

NOTE:
REFER TO CIVIL DRAWINGS FOR SLAB DETAILS.

ENSURE T.A.S. COMPLIANCE: MINIMUM MANUEVERING CLEARANCES AT DOORS THAT ARE NOT AUTOMATIC OR POWER-ASSISTED SHALL BE AS T.A.S. REQUIREMENTS. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR. ENSURE ENTRY DOORS FROM THE EXTERIOR ARE LEVEL NOT TO EXCEED 1:50 CROSS SLOPE IN ANY DIRECTION.

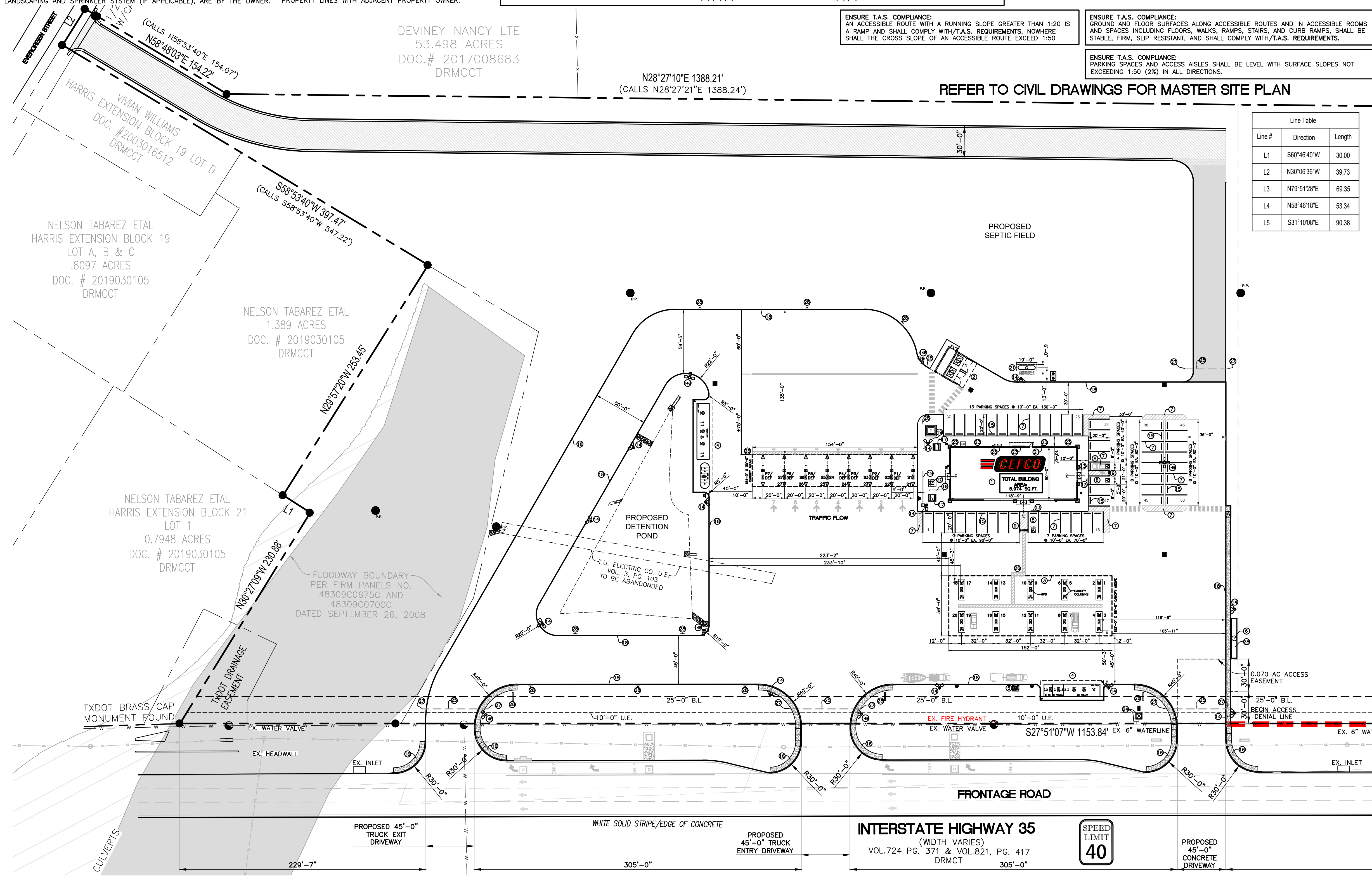
ENSURE T.A.S. COMPLIANCE: ALL FUEL DISPENSERS TO BE IN COMPLIANCE W/THE LATEST TEXAS ACCESSIBILITY STANDARDS.

FINISH FLOOR ELEVATIONS AT DOOR. RE: CIVIL FLOOR OR LANDING ON EACH SIDE OF DOORS ARE AT THE SAME ELEVATION ON EACH SIDE OF THE DOORS. LANDING SHALL BE LEVEL EXCEPT THAT EXTERIOR LANDINGS MAY HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) AS PER T.A.S. REQUIREMENTS.

SITE PLAN - ARCHITECTURAL

SCALE: 1:50
RE: SURVEY
TOTAL LAND AREA: 10.124 ACRES (441,000 SQ. FT.)

GENERAL NOTE:
COORDINATE SITE DRAWINGS WITH CIVIL DRAWINGS.



KEYED NOTES:

- 1 ALL INTERIOR WALLS AND EXPOSED WALK IN COOLER WALLS IN CUSTOMER AREA ARE TO BE COVERED W/ 5/8" FIRE CODE GYPSUM BOARD.
- 2 WALK IN COOLER FACES ARE TO BE COVERED WITH 1/4" GYPSUM BOARD LAMINATE TO WALL.
- 3 ALL WALK IN COOLER DOORS ARE TO BE COORDINATED WITH OWNER AND COOLER VENDOR (BASIS OF DESIGN: GEMTRON-SIERRA 30" X 75").
- 4 EXTERIOR ALUMINUM LADDER MODEL NO. 564HD-C WITH SECURITY DOORS MODEL NO. H-300 PRIMED AND PAINTED AS PER OWNERS SPECIFICATIONS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
- 5 ELECTRICAL PANEL, GAS READOUT AND TELEPHONE BOARDS WILL REQUIRE 5/8" F.R.T. CDX PLYWOOD PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. PAINT MATTE WHITE, MUST BE CLEANABLE SURFACE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. LEAVE (1) F.R.T. LABEL VISIBLE FOR INSPECTION (UNPAINTED) EA. PANEL.
- 6 SECURITY SYSTEM: PROVIDE 3/4" CONDUIT STUBBED UP ABOVE CEILING HEIGHT, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 7 GASOLINE EQUIPMENT LINES TO BE RUN UNDER FINISHED FLOOR. REFER TO TANK DRAWINGS.
- 8 BEVERAGE LINES BAG-IN-BOX TO FOUNTAIN DRINK DISPENSER TO BE RUN ABOVE CEILING GRID. LOW VOLTAGE EQUIPMENT AREA: SEE LOW VOLTAGE PLAN FOR MORE DETAILED INFORMATION.
- 9 LOW VOLTAGE EQUIPMENT AREA: SEE LOW VOLTAGE PLAN FOR MORE DETAILED INFORMATION.
- 10 RECESSED JUNCTION BOX FOR BULK CO2 CONNECTION.
- 11 PROVIDE TWO (2) - 12" X 60" X 3/4" PLYWOOD SHELVES WITH LAMINATE ON WALL MTD. ADJ. SHELF STANDARDS.
- 12 DOORS WITH CLOSERS SHALL BE ADJUSTED SUCH THAT FROM AN OPENING POSITION OF 90 DEGREES THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH SHALL TAKE 5 SECONDS MIN. ALL INTERIOR SWINGING EGRESS DOORS SHALL OPERATE WITH A PUSH/PULL FORCE OF 5 LBS, TEXAS ADA CODES CHAPTER 4.
- 13 ICS OR EQUAL WALK-IN COOLER, VAULT, AND RELATED EQUIPMENT FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER
 - ELECTRICAL CONNECTIONS FOR FANS, CONDENSER
 - CONNECTIONS BY ELECTRICAL CONTRACTOR
 - PLUMBING CONNECTIONS FOR CONDENSATION LINES BY PLUMBING CONTRACTOR
 - REFRIGERATION CONNECTIONS BY HVAC CONTRACTOR
- 14 ALL WET AREAS: SINKS, LAVATORY, URINAL AND TOILET LOCATIONS SHALL HAVE CEMENT BOARD BACKING UP TO 48" AFF. USE MOISTURE RESISTANT COVERED GYPSUM BOARD ABOVE CEMENT BOARD WHERE APPLICABLE.
- 15 ALL CONDUITS FROM BACK ROOM OVER GYPSUM BOARD CEILING TO BE PLACED IN CONDUIT PROPERLY SIZED FOR SERVICE LINE. CONDUIT TO EXTEND TO EDGE OF GYPSUM BOARD CEILING WITH SWEEPS.
- 16 2 - REMOVABLE SMOOTH 3/8" PLYWOOD PANELS 3/8" PAINTED BOTH SIDES. PANELS TO START AT APPROX. 1/2" ABOVE DRINK COUNTER TO 9'-8" AFF OR 4" FROM CEILING GRID WITH LATCH TO SECURE DOORS IN PLACE.
- 17 NOT USED.
- 18 NOT USED.
- 19 NOT USED.
- 20 NOT USED.
- 21 FURRED WALLS AT TOP OF COOLER TO BE 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" MOISTURE RESISTANCE GYPSUM WALLBOARD, ALIGN FACE WITH 1/4" GYPSUM WALLBOARD ON COOLER.
- 22 ALL WALLS TO RECEIVE FLOOR TO CEILING FRP AND COVE BASE, VERIFY SPECIFICATIONS WITH OWNER.

GENERAL NOTES

1. PROVIDE BLOCKING FOR ALL EQUIPMENT AS REQUIRED.
2. INTERIOR LAYOUT DIMENSIONS ARE FACE TO FACE OF DRYWALL OR FINISH SURFACE, (U.N.O.).
3. LAYOUT AS DIMENSIONED ONLY: DO NOT SCALE, REFER TO SHEET A9 FOR PARTITION TYPES.
4. ALL FIXTURES AND/OR EQUIPMENT FURNISHED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE SPECIFIED.
5. SEE SHEET A08A FOR DOOR AND HARDWARE SCHEDULE.
6. SEE SHEET A06A AND A06B FOR INTERIOR FINISH SPECIFICATIONS.
7. SEE SHEET A03 FOR EQUIPMENT SCHEDULE & LOCATION.
8. ALL CONSTRUCTION SHALL COMPLY W/ ALL CURRENT A.D.A. SPECIFICATIONS. GC TO ADDRESS ALL SELF-SERVICE & DISPENSING DEVICES 2012 TEXAS ADA CODES CHAPTER 9.
9. SEE MEP DRAWINGS FOR LOCATIONS OF ALL CONDUIT
10. EXTERIOR WALLS ARE SHOWN AS 6" METAL STUDS WITH STUCCO FINISH AND CREATIVE FAUX STONE SYSTEM. IF OTHER CONSTRUCTION METHODS ARE USED, IT BECOMES THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ADJUST THE OVERALL OUTSIDE DIMENSIONS IN ORDER TO MAINTAIN THE INSIDE CLEAR DIMENSIONS AS INDICATED.

ALL DOORS HARDWARE SHALL HAVE LEVER HANDLES OR EQUIVALENT MOUNTED NOT MORE THAN 42" A.F.F. EXCEPT AT ACCESSIBLE STALLS WHICH SHALL BE MOUNTED 34" TO 38" A.F.F. THE MAX. OPENING FORCE FOR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 8.5 POUNDS. THE MAX. OPENING FORCE FOR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5.0 POUNDS. ALL LOCK SETS TO BE KEVED SEPARATELY CLOSURES AND LOCK SETS SHALL MEET ADA AND LOCAL REQUIREMENTS ATTACH A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE EXIT DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHILE THE BUILDING IS OCCUPIED" (IBC 2021 1008.1.8.3) IN ONE INCH LETTERS CONTRASTING BACKGROUND.

HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SWINGING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. IN COMPLIANCE W/ 404.2.7 LATEST I.A.S.

CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF IN COMPLIANCE W/ 309/309.4 LATEST I.A.S.

ALL METAL STUDS ON EXTERIORS OF BUILDING SHALL BE 16 GA. AND ALL INTERIORS TO BE 20 GA. METAL STUDS.

ALL INSULATION MATERIALS IN THIS PROJECT SHALL HAVE A FLAME-SPREAD RATING NOT TO EXCEED 75 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED.

ALL COUNTERTOPS IN THIS PROJECT SHALL NOT BE MORE THAN 34" IN HEIGHT FOR ACCESSIBILITY AND IN COMPLIANCE W/ 904 LATEST I.A.S.

ALL LAVATORIES TO HAVE HOT AND COLD RUNNING WATER TO BE SUPPLIED WITH COMBINATION VALVE.

PROVIDE SHIELDING FOR ALL ARTIFICIAL LIGHTING FIXTURES LOCATED OVER, BY, OR WITHIN FOOD STORAGE, PREPARATION, SERVICE AND DISPLAY FACILITIES WHERE UTENSILS AND EQUIPMENT ARE CLEANED AND STORED.

STORE ALL POISONOUS OR TOXIC MATERIALS IN CABINETS OR SIMILARLY PHYSICALLY SEPARATED COMPARTMENTS OR FACILITIES USED FOR NO OTHER PURPOSE. EACH OF THE THREE CATEGORIES OF POISONOUS OR TOXIC MATERIALS SHALL BE PHYSICALLY SEPARATED FROM EACH OTHER IN STORAGE AND LOCATION.

SPECIAL CONDITIONS LEGEND

- ⊙ BEVERAGE CONDUIT STUB UP
- R— REFRIGERATION LINE SET
- WALL BLOCKING
- ENGINEERED STRUCTURAL SUPPORT
- ▬ NON-COMBUSTIBLE WALL CONSTRUCTION

UNLESS NOTED OTHERWISE, ALL CUSTOMER USE DOORS TO HAVE A BLANK EXTERIOR WITH AN ADA APPROVED THUMB TURN LOCKSET INTERIOR VERIFY WITH OWNER ON ALL DOOR HARDWARE REQUIRED.

CONFIRM ALL MILLWORK DIMENSIONS WITH MILLWORK VENDOR BEFORE INSTALLATION.

ALL PAINTED INTERIOR DOORS, WHICH ADJOIN WHITE FINISHES (SUCH AS TILE, FRP, ETC.) SHOULD GET WHITE PAINT.

VENTILATION NOTES

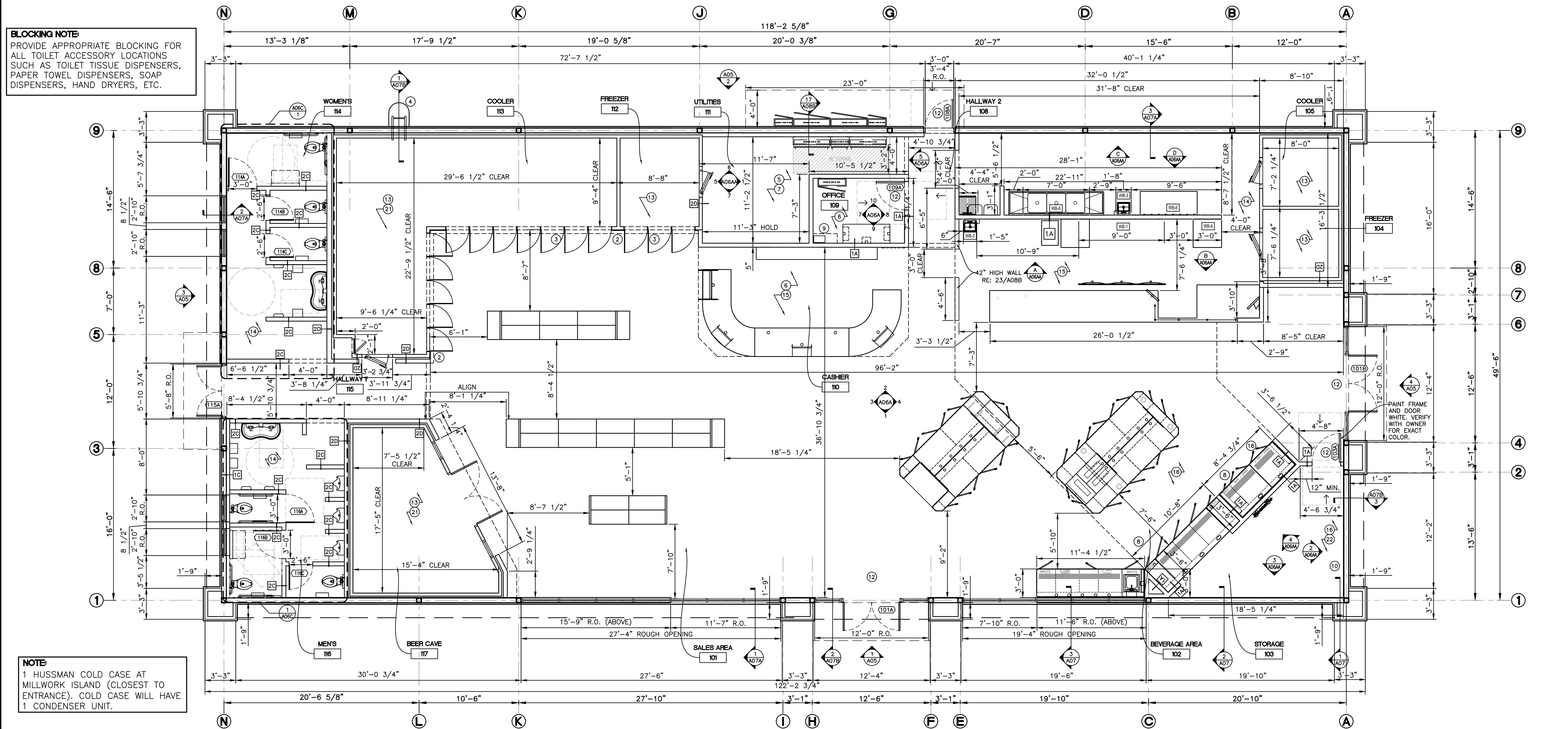
- A. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE NON-COMBUSTIBLE WALL CONSTRUCTION AT EXHAUST HOOD LOCATIONS.
- B. GENERAL CONTRACTOR AND/OR SUBDIVISIONS SHALL PROVIDE STRUCTURALLY ENGINEERED BRACING FOR HANGING HOODS FROM STRUCTURE. VERIFY REQUIREMENTS.
- C. EXISTING EXHAUST HOOD TO BE RELOCATED. VERIFY SIZE OF EXISTING HOOD.

WALL BLOCKING NOTES (DIVISION 6)

WB-1 6" AFF TO 18" AFF FOR RESTRAINING DEVICE
 WB-2 18" AFF TO 30" AFF FOR WATER FILTER
 WB-3 30" AFF TO 54" AFF FOR HAND SINK
 WB-4 48" AFF TO 60" AFF FOR WALL SHELF/PROP RACK/POT FILLER
 WB-5 48" AFF TO 78" AFF FOR 2-TIER WALL SHELVES
 WB-6 48" AFF TO 84" AFF FOR RACK SHELF/WALL GRID
 WB-7 54" AFF TO 90" AFF FOR WALL CABINET/SALAMANDER
 WB-8 60" AFF TO 78" AFF FOR WATER FILTER
 WB-9 66" AFF TO 84" AFF FOR POT RACK
 WB-10 72" AFF TO CEILING FOR FIRE SUPPRESSION HOOD CONTROL
 WB-11 78" AFF TO 114" AFF FOR EXHAUST HOOD
 WB-12 84" AFF TO 102" AFF FOR WATER FILTER/AIR CURTAIN
 WB-13 102" AFF TO 114" AFF FOR CLG MOUNT AIR CURTAIN
 WB-14 VERIFY WITH ARCHITECT FOR BACK BAR SUPERSTRUCTURE

NOTE: ALL WALL BLOCKING TO BE 5/8" FIRE RATED/TREATED PLYWOOD MINIMUM OR 18 GAUGE METAL WHERE REQUIRED.

BLOCKING NOTE:
 PROVIDE APPROPRIATE BLOCKING FOR ALL TOILET ACCESSORY LOCATIONS SUCH AS TOILET TISSUE DISPENSERS, PAPER TOWEL DISPENSERS, SOAP DISPENSERS, HAND DRYERS, ETC.



1 FLOOR PLAN - ARCHITECTURAL
 SCALE: 3/16" = 1'-0"
 TOTAL AREA: 5,974 SQ. FT.

INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047

CEFCO
 F2501-B SERIES
 RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL

REGISTERED ARCHITECT
 MARCEL CAD
 STATE OF TEXAS
 LICENSE NO. 8669

DATE SIGNED: 03-28-24
 LICENSE EXP.: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
ARCHITECTURAL FLOOR PLAN

DRAWING NUMBER
A02

SHEET NO.
A02

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SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	EGRESS WIDTH
	EMERGENCY EXIT SIGN (DIRECTIONAL) WITH BATTERY BACKUP
	NOTICE / WARNING SIGN FOR LIGHT-FRAME TRUSS TYPE CONSTRUCTION PER FBC
	FIRE EXTINGUISHER-BRACKET MOUNTED, MULTIPURPOSE DRY CHEMICAL 3-A:40-B-C
	FIRE EXTINGUISHER-BRACKET MOUNTED, KITCHEN UL 711A
	EMERGENCY PUSH-BUTTON SHUT-OFF SWITCH FOR FUEL SYSTEM. NFPA AND SIGNAGE @ 42" AFG
	KNOX BOX INSTALLED AS PER FIRE MARSHALL'S SPECIFICATIONS
	DIAGONAL DISTANCE AND EXIT REMOTENESS
	MAXIMUM TRAVEL DISTANCE / PATH OF TRAVEL FROM THE MOST REMOTE POINT TO NEAREST EXIT
	COMMON PATH OF TRAVEL
	CHOICE OF EXIT
	PRIMARY EXIT

PLUMBING FIXTURE REQUIREMENTS						
MINIMUM NUMBER OF PLUMBING FIXTURES: IPC-PLUMBING (TABLE 403.1)						
OCCUPANTS TOTAL 85	WATER CLOSETS	LAVS	DRINKING FOUNTAINS	BATH / SHOWER	OTHER	
REQUIRED	1	1	1	0	1 SERVICE SINK	
PROVIDED	6 W.C. & 3 URINALS (2 ADA W.C.)	4 (2 ADA)	0	0	4 SERVICE SINKS	

BUILDING AREA		CODE ANALYSIS	
C-STORE	SF	C-STORE	
SALES AREA - M	2,978	OCCUPANCY GROUP	M - MERCANTILE
WALK-IN COOLER/FREEZER - S	526	OCCUPANCY GROUP	S - ACCESSORY
BEER CAVE - M	227	CONSTRUCTION TYPE	IIB (UNPROTECTED)
RESTROOMS - S	473	OCCUPANT LOAD	64
PREP AREA - S	276	SNOW LOAD : PER IBC 1608, SNOW LOAD = 5 LBS	
STORAGE - S	162	WIND LOAD : PER IBC 1609, WIND LOAD = 115 MPH	
UTILITIES - S	162	MAXIMUM EXIT ACCESS TRAVEL DISTANCE	200'
OFFICE - S	67	MAXIMUM COMMON PATH OF TRAVEL	75'
CASHIER AREA - S	251	EXITS REQUIRED	2 REQUIRED
DELI - S	339	EXITS PROVIDED	4 PROVIDED
COOLER/FREEZER COMBO - S	133	OCCUPANCY (CONVENIENCE STORE)	OCCUPANT LOAD
MISC/WALL AREA - S	380	M-MERCANTILE	3,205 SF 1 PER 60 SF GROSS 54
		S-ACCESSORY	2,769 SF 1 PER 300 SF GROSS 10
GROSS BUILDING	5,974	SUBTOTAL	5,974 SF 64

APPLICABLE CODES
 INTERNATIONAL BUILDING CODE (IBC), (2021)
 MECHANICAL CODE, (IMC), (2021)
 PLUMBING CODE, (IPC), (2021)
 ELECTRICAL CODE, (2005)
 FUEL GAS, 5TH EDITION (2021)
 ENERGY CONSERVATION, (2021)
 FIRE CODE, (2021)
 TEXAS ACCESSIBILITY STANDARDS (2012)

NOTE:
 CONTRACTOR TO ENSURE FIRE EXTINGUISHERS DO NOT PROJECT MORE THAN 4 INCHES FROM WALL IN CIRCULATION PATH OF COMMON AREAS IN ACCORDANCE WITH ADA, TAS, AND ANSI 307.2.



INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
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PROJECT TITLE

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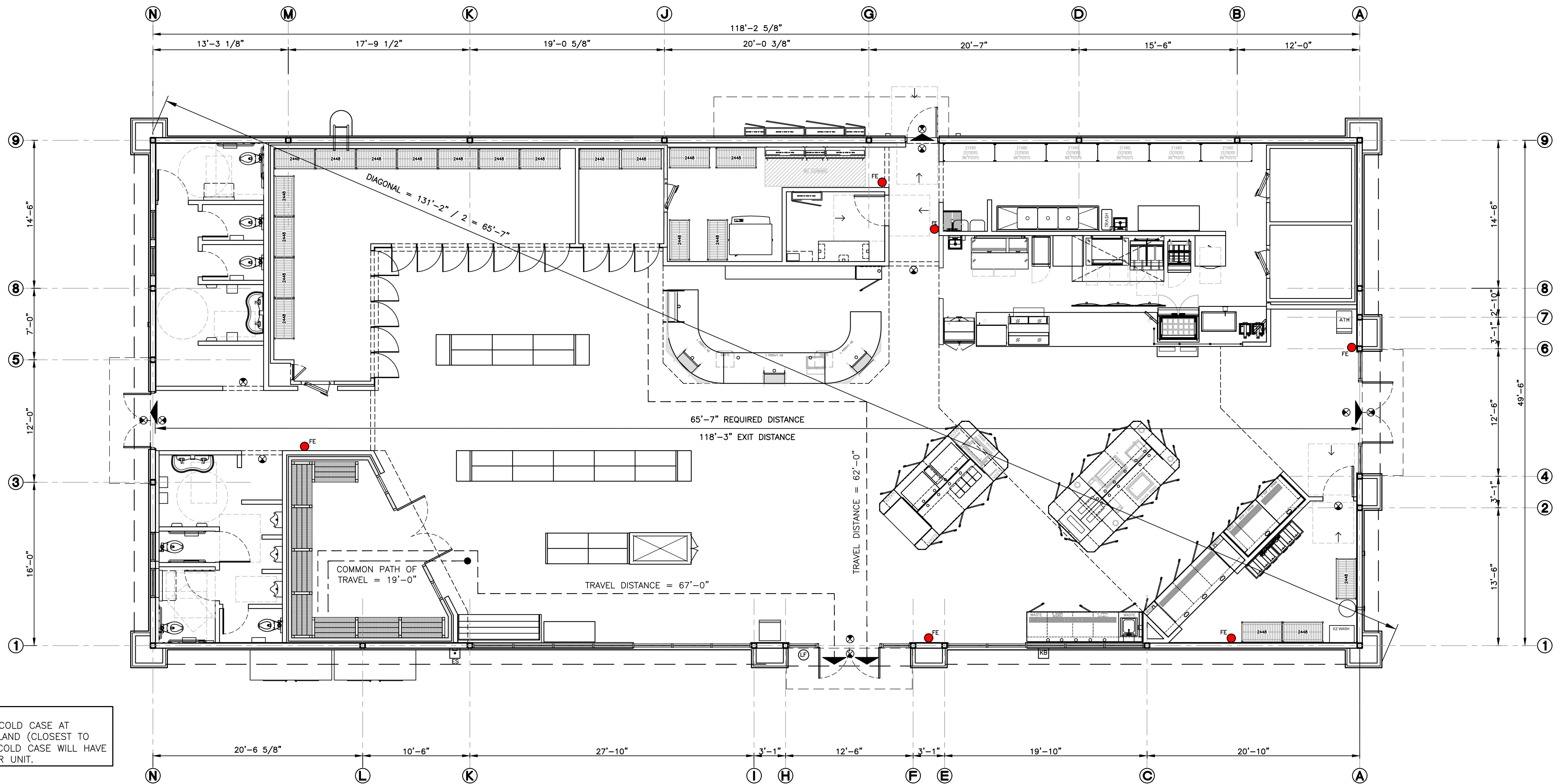
REVISIONS		
NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE

LIFE SAFETY PLAN

DRAWING NUMBER
A02A



NOTE
 1 HUSSMAN COLD CASE AT MILLWORK ISLAND (CLOSEST TO ENTRANCE). COLD CASE WILL HAVE 1 CONDENSER UNIT.

1 FLOOR PLAN - LIFE SAFETY PLAN
 SCALE: 3/16" = 1'-0"
 TOTAL AREA: 5,974 SQ. FT.

KEYED NOTES

- 1 FLOOR DRAINS PROVIDED IN RESTROOMS, COORDINATE WITH PLUMBING DRAWINGS.
- 2 NO TILE REQUIRED, SEAL CONCRETE NON-SLIP. CONTRACTOR TO ADD H&C SHARKGRIP TO COOLER & BEER CAVE AREAS.
- 3 RENO RAMP (SCHLUTER), PROVIDED BY OWNER

KEYED LEGEND

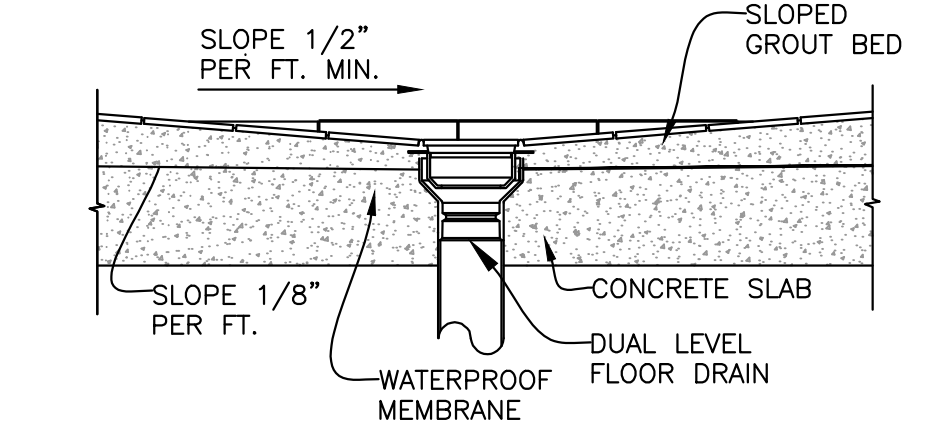
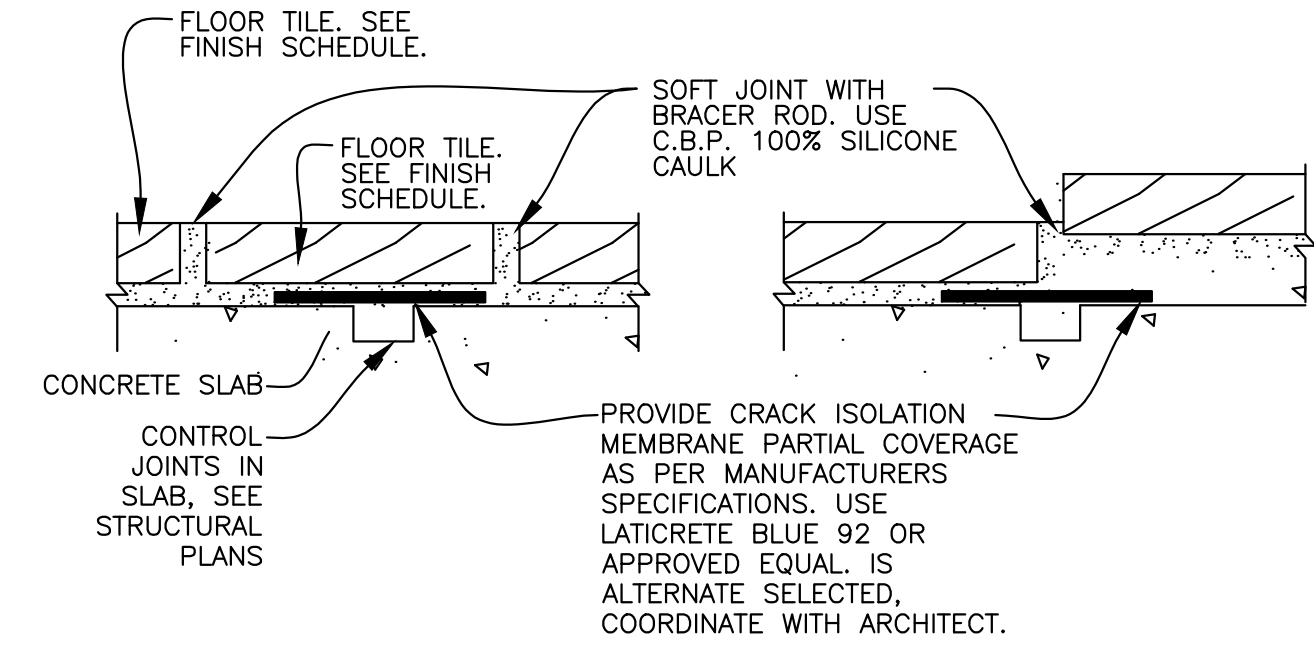
- OUTLINE DENOTES FRP WALL
- OUTLINE DENOTES STAINLESS STEEL WALL

ALL FOOD/DRINK PREP & CUSTOMER SELF SERVICE AREAS:
 FLOORS: SMOOTH, DURABLE, NONABSORBENT AND EASILY CLEANABLE.
 WALLS & CEILINGS: LIGHT COLORED SMOOTH, NONABSORBENT, AND EASILY CLEANABLE.
 NO PIPES OR CONDUITS EXPOSED.
 NO STUDS, JOISTS, OR RAFTERS EXPOSED.

GENERAL NOTES

1. SEE REFLECTED CEILING PLAN FOR CEILING MATERIALS AND HEIGHTS.
2. SEE A06A FOR ADDITIONAL FINISH INFORMATION.
3. SEE SHEET A06B FOR FINISH LEGEND.
4. ALL LOCATIONS WITH FLOOR TO WALL TILE TRANSITION ARE TO RECEIVE INTEGRAL SLANT BASE.
5. ALL CORNERS WITHOUT TILE TO RECEIVE R0100AE ALUMINUM CORNER GUARDS. VERIFY WITH OWNER.
6. ALL CORNERS WITH TILE TO RECEIVE CLEAR, PLASTIC CORNER GUARDS FROM TOP OF BASE COVE TO 36" AFF. VERIFY WITH OWNER.

SCHLUTER DILEX IS TO BE USED AT ALL AREAS WHERE TILE IS SHOWN.



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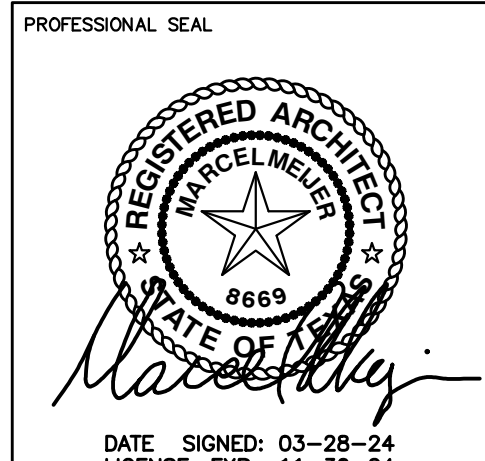
INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
 LICENSE EXP: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

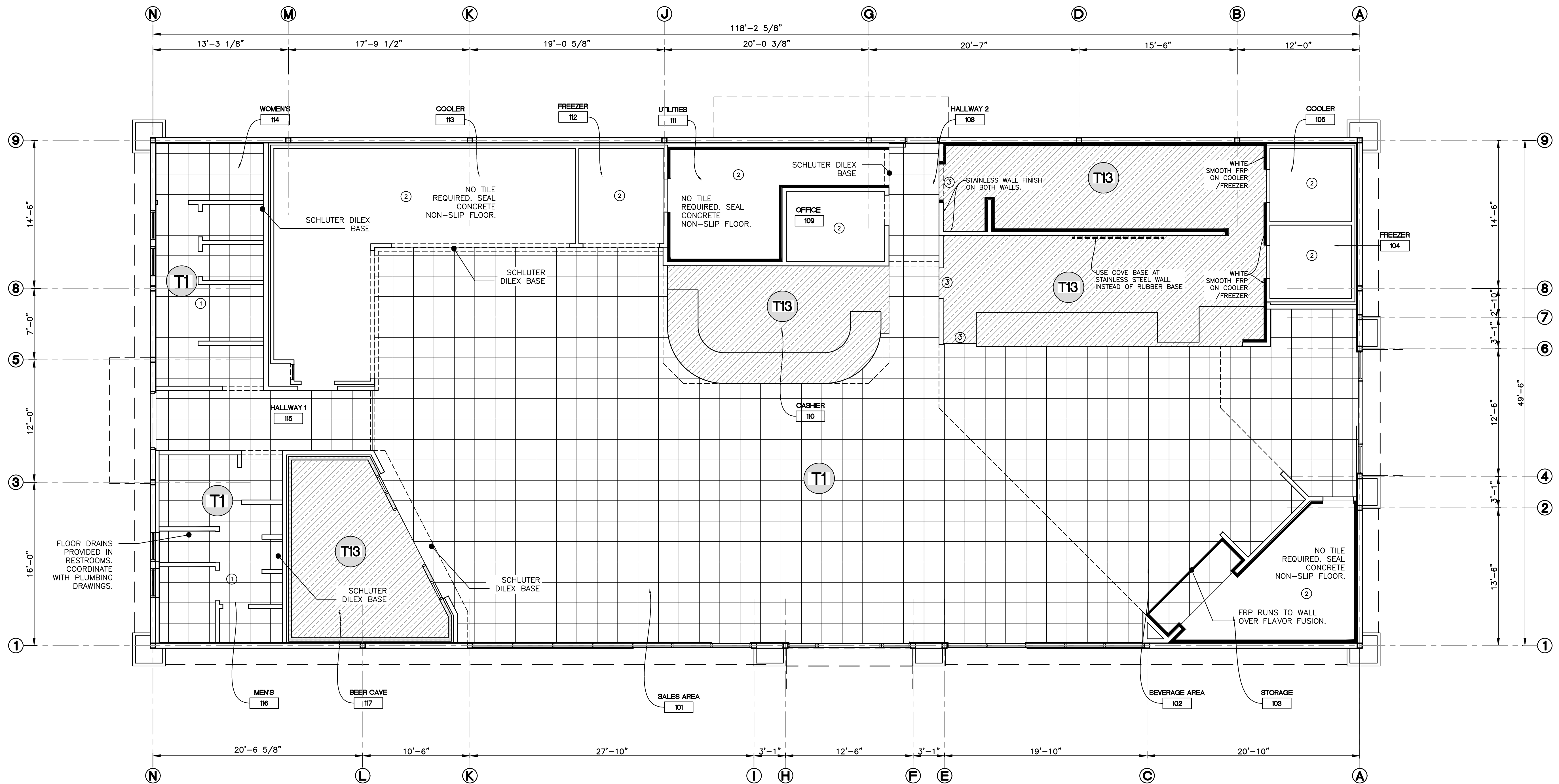
NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE

FINISH PLAN

DRAWING NUMBER
A02B



1 FLOOR PLAN - FINISH PLAN
 SCALE: 3/16"=1'-0"
 TOTAL AREA: 5,974 SQ. FT.

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	FURNISHED BY	INSTALLED BY
14	BEER CAVE	KPS	PDT1030	G.C.	G.C.
15	CONDENSING UNIT	HEATCRAFT	MOZ025M63C	G.C.	G.C.
16	EVAPORATOR	HEATCRAFT	SME130BEE	G.C.	G.C.
17	DOORS	ANTHONY	101/103 LED	G.C.	G.C.
18	3-DOOR FREEZER	ICS	PDT1030	G.C.	G.C.
19	CONDENSING UNIT	HEATCRAFT	MOZ055L63C	G.C.	G.C.
20	EVAPORATOR	BOHN	LET160BEK	G.C.	G.C.
21	TEA BREWER DISPENSER	BUNN	39600.0047	OWNER	G.C.
22	CO2 BOTTLE			OWNER	G.C.
23	BAG-N-BOX			OWNER	G.C.
24	FOUNTAIN FLAVOR FUSION	CORNELIUS	621057652	OWNER	G.C.
25	FUEL MANAGEMENT			OWNER	G.C.
26	CASH REGISTER			OWNER	G.C.
27	CREDIT CARD			OWNER	G.C.
28	N/A				
29	N/A				
30	UNDER COUNTER SAFE	ARMORSAFE	CS6-7102	OWNER	G.C.
31	FILTER SYSTEM	EVERPURE	EV9328-06	OWNER	G.C.
32	TEA BREWER-ITB VIF W/OWNER BEFORE PURCHASE	BUNN	52000.0301	OWNER	G.C.
33	N/A				
34	TRASH RECEPTACLE	RUBBERMAID	FG354060BLA	OWNER	OWNER
35	COFFEE DISPENSERS	BUNN	27850.0212	OWNER	G.C.

36	CAPPUCCINO MACHINE	BUNN	38600.033	OWNER	G.C.
37	ICE TWIN SH. COFFEE BREWER	BUNN	51200.0100	OWNER	G.C.
38	HEATED DISPLAY CASE (COUNTERTOP)	HATCO	6RS05-36T	OWNER	G.C.
39	MICROWAVE	PANASONIC	NE-1054F	OWNER	G.C.
40	N/A				
41	GONDOLA SHELVING	LOZIER OR EQUAL	PER MANUF. SPECS	OWNER	G.C.
42	ICE MAKER	HOSHIZAKI	KM-1601SRJ	OWNER	G.C.
43	ICE MAKER CONDENSER	HOSHIZAKI	URC-22F	OWNER	G.C.
44	ICE BAGGER	KLOPPENBERG	DISP-1000	OWNER	G.C.
45	ATM	ANY CARD		OWNER	G.C.
46	SANDWICH/SALAD PREP REF.	KELVINATOR	KCHMT48.18	OWNER	G.C.
47	3 SIDED BAKERY CASE	MILLWORK SUPPLIER			
48	FROZEN UNCARBONATED BEVERAGE MACHINE	BUNN	58000.0011	OWNER	G.C.
49	MOP SINK	ADVANCE TABCO	9-0P-24FM-SSR	G.C.	G.C.
50	3 COMPARTMENT SINK 24X24X24 WITH BRASS FAUCET: SPR-8W14-C	ADVANCE TABCO	FC-3-2424-24RL-X	G.C.	G.C.
51	STORAGE SHELVING	THUNDER GROUP INC.		OWNER	G.C.
52	HOT DOG GRILL	STAR	75STBDE	OWNER	G.C.
53	HEATED LOW TEMP HOLDING CABINET	ALTO-SHAAM	500-2D	OWNER	G.C.
54	DUAL GAS FRYER	BY OWNER	CUSTOM	OWNER	G.C.
55	SANDWICH/SALAD PREP REF.	KELVINATOR	KCHMT29.12	OWNER	G.C.
56	REFRIGERATED COUNTERTOP DISPLAY HEATED DISPLAY CASE (COUNTERTOP)	VOLLRATH	RDC08-36SS	OWNER	G.C.
57	N/A				
58	ICE MAKER	CORNELIUS	C569200079	OWNER	G.C.
59	ICE MAKER CONDENSER	CORNELIUS	C638090690	OWNER	G.C.
60	HAND SINK WITH SPLASH GUARDS ON BOTH SIDES	ADVANCE TABCO	7-PS-EC-SP-1X	G.C.	G.C.
61	WORK TABLE	ADVANCE TABCO	KMSLAG-303-X	OWNER	G.C.
62	BOHA TERMINAL	TRANSACT		OWNER	G.C.
63	CONDENSING UNIT	HUSSMANN	ASH9812MPP1	OWNER	G.C.
64	WORK TABLE	ADVANCE TABCO	KMSLAG-306-X	OWNER	G.C.
65	CHILI/CHEESE DISPENSER	GEHL'S 2.0		OWNER	G.C.
66	COLD CASE	HUSSMANN	IM-05-IN4-R	OWNER	G.C.
67	PIZZA PREP TABLE REF.	KELVINATOR	KCHPT7.9	OWNER	G.C.
68	ICE MERCHANDISER	LEER	L060SAP	OWNER	G.C.
69	FANLESS GAS WATER HEATER	NAVIER	NPE-240A2-NG	G.C.	G.C.
70	WIRE SHELVING UNIT	THUNDER GROUP INC.		OWNER	G.C.
71	TYPE-1 8" HOOD WITH SUPPRESSION SYSTEM. (STAINLESS STEEL PANELS TO BE PROVIDED BY G.C.)	CAPTIVE AIRE	5424ND-2	OWNER	G.C.
72	HEATED DISPLAY CASE	ALTO-SHAAM	HSM-36/55	OWNER	G.C.
73	REFRIGERATED CHEF BASE	KELVINATOR	KCHC848R	OWNER	G.C.
74	GAS GRIDDLE	AVANTCO	CAG-36-MG	OWNER	G.C.
75	DUAL GAS FRYER	HENNY PENNY	OCA322.0	OWNER	G.C.
76	N/A				
77	HAND DRYER	WORLD DRYER CORP.	VEREDRI Q-973A	G.C.	G.C.
78	CONDENSING UNIT	HEATCRAFT	MOZ025L63C	G.C.	G.C.

79	DROP-IN HOT WELLS	ALTO-SHAAM	300-HW/D6	OWNER	G.C.
80	HAND SINK	EAGLE GROUP	SR18-16-13 S-1	G.C.	G.C.
81	EASIWASH HOSE RE-PO4			OWNER	G.C.
82	EASIWASH WASH RE-PO4			OWNER	G.C.
83	FRONT COUNTER MILLWORK	SHOPCO	CUSTOM	OWNER	G.C.
84	VECTOR MULTI-COOK OVEN	ALTO-SHAAM	VMC-H4	OWNER	G.C.
85	FLAT TORTILLA PLATE	WARING	WSC300	OWNER	G.C.
86	SSS COLD CASE	HUSSMANN	S55-8M	OWNER	G.C.
87	EVAPORATOR	HEATCRAFT	LET090BEK	G.C.	G.C.
88	WALK-IN COOLER	ICS	PDT1030	G.C.	G.C.
89	CONDENSING UNIT	HEATCRAFT	MOZ060M63C	G.C.	G.C.
90	WALK-IN COOLER	BOHN	ADT120AEK	G.C.	G.C.
91	CONDENSING UNIT	HEATCRAFT	MOZ005M63C	G.C.	G.C.
92	EVAPORATOR	BOHN	ADT070AEK	G.C.	G.C.
93	CONDENSER	HUSSMANN	ASH94402MPP1	OWNER	G.C.
94	N/A				
95	GLASS SNEEZE GUARD			OWNER	G.C.
96	DROP-IN COLD WELL	ALTO-SHAM	100-CW	OWNER	G.C.
97	HEATED DISPLAY MERCHANDISER	HATCO	GRHW-1SGD	OWNER	G.C.
98	2SH STAND	BUNN	27875.0200	OWNER	G.C.
99	VECTOR OVEN STAND	ALTO-SHAAM	VMC-H50281 73	OWNER	G.C.
100	GLASS DOOR COOLER	EXCELLENCE INDUSTRIES	GDR-12HC	OWNER	G.C.
101	N/A				

102	WALL GRID SHELVING	METRO	SWK36-1	OWNER	G.C.
103	SERVICE SINK FAUCET	ADVANCE TABCO	K-240	G.C.	G.C.
104	UTILITY SHELF	ADVANCE TABCO	K-245	OWNER	G.C.
105	N/A				
106	22" KDS MONITOR	DELL	E2216HV	OWNER	G.C.
107	TV SCREEN			OWNER	G.C.
108	PAPER TOWEL DISPENSER	KIMBERLY-CLAR K	09996	OWNER	G.C.
109	SOAP DISPENSER, WALL MOUNTED	SCOTT	92145	OWNER	G.C.
110	LAVATORY-2 BAY	SLOAN	ELS-72000	G.C.	G.C.

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GENERAL NOTES:

- GENERAL CONTRACTOR TO COORDINATE WORK AND PROVIDE FINAL MECHANICAL & ELECTRICAL HOOK-UPS TO ALL EQUIPMENT AS REQUIRED. EQUIPMENT SUPPLIERS TO MATCH THESE PLANS FOR FLOOR SINK AND/OR DRAIN LOCATIONS.
- GENERAL CONTRACTOR TO VERIFY WALK-IN COOLERS SIZE, MANUFACTURER, & POWER REQUIREMENTS.
- GENERAL CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING BETWEEN STUDS FOR SUPPORT OF ALL WALL HUNG FIXTURES, WATER LINES, SHELVES, ETC.
- ALL DIMENSIONS TO BE VERIFIED PRIOR TO EQUIPMENT FABRICATION.
- LIGHTS: 12W / FOOT DOOR & FRAME HEATER: 4.24A: 2-DOOR 30x75 (4.54A TOTAL) 16.5A: 8-DOOR 30x75 (17.4A TOTAL) 120V - 3x0.9A/3W (1) FAN MOTOR/DOOR - 0.45A/54W LIGHTING - 1.99A/229W DOOR HEATERS 208V - 8.65/1800W DEFROST COORDINATE WITH EQUIPMENT MANUFACTURER FOR RECEPTACLE REQUIREMENTS. PROVIDE 40A, 3W + GND EQUIPMENT CORD AND PLUG WITH MATCHING RECEPTACLE. REFER TO EQUIPMENT CUT-SHEETS FOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS.

INTERIOR ILLUMINATION LEVEL STD.

FUTURE KITCHEN	75 FOOT CANDLE AVERAGE
FRONT COUNTER	
RESTROOMS	50 FOOT CANDLE AVERAGE
STORAGE AREA	
UTILITY	30 FOOT CANDLE AVERAGE
WALK-IN COOLERS & FREEZER	



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
REGISTERED ARCHITECT
MARCEL CAD
STATE OF TEXAS
8669
DATE SIGNED: 03-28-24
LICENSE: EXP: 11-30-24

DRAWINGS ISSUED FOR:

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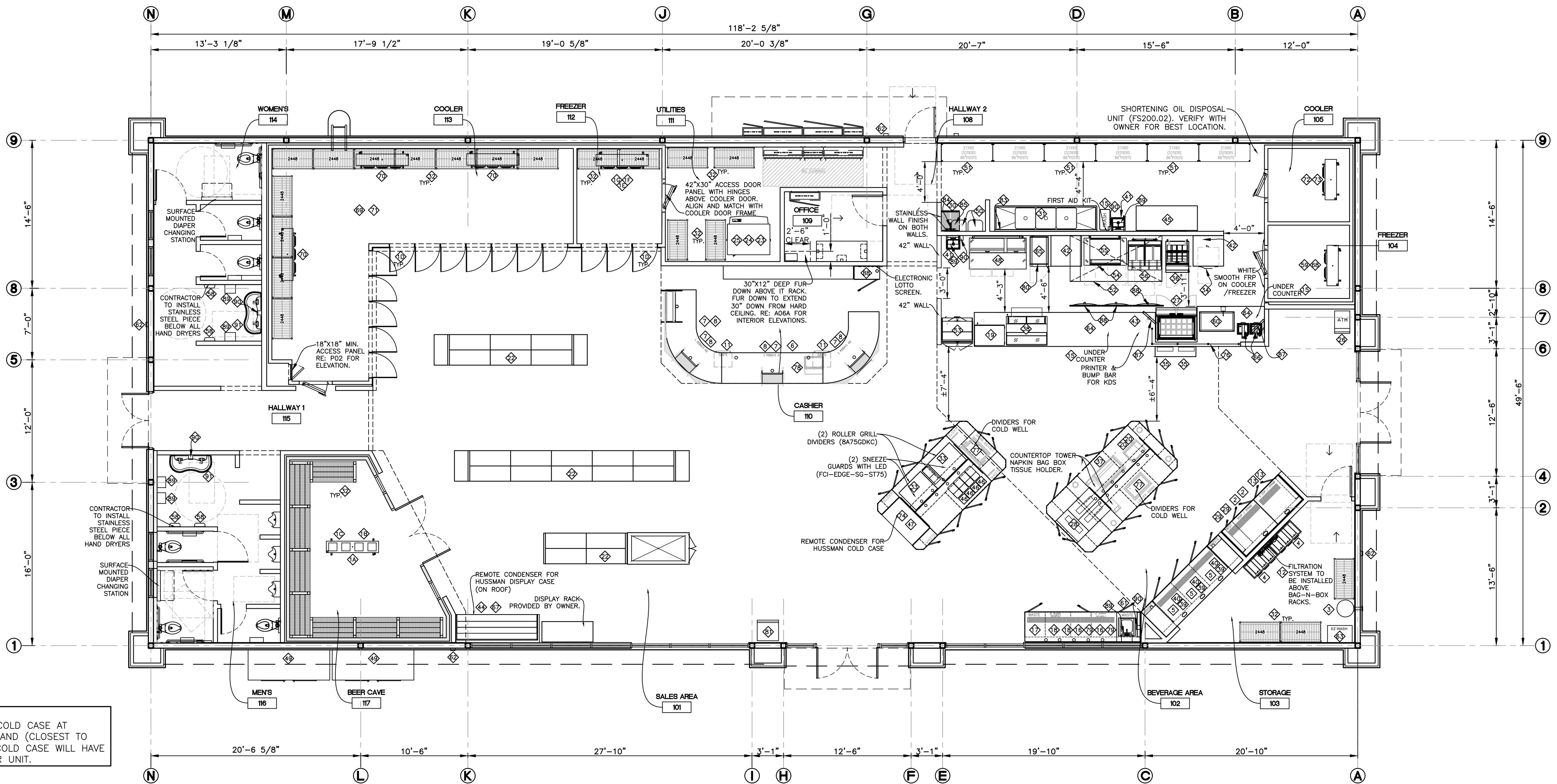
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
FIXTURE AND EQUIPMENT PLAN

DRAWING NUMBER
A03



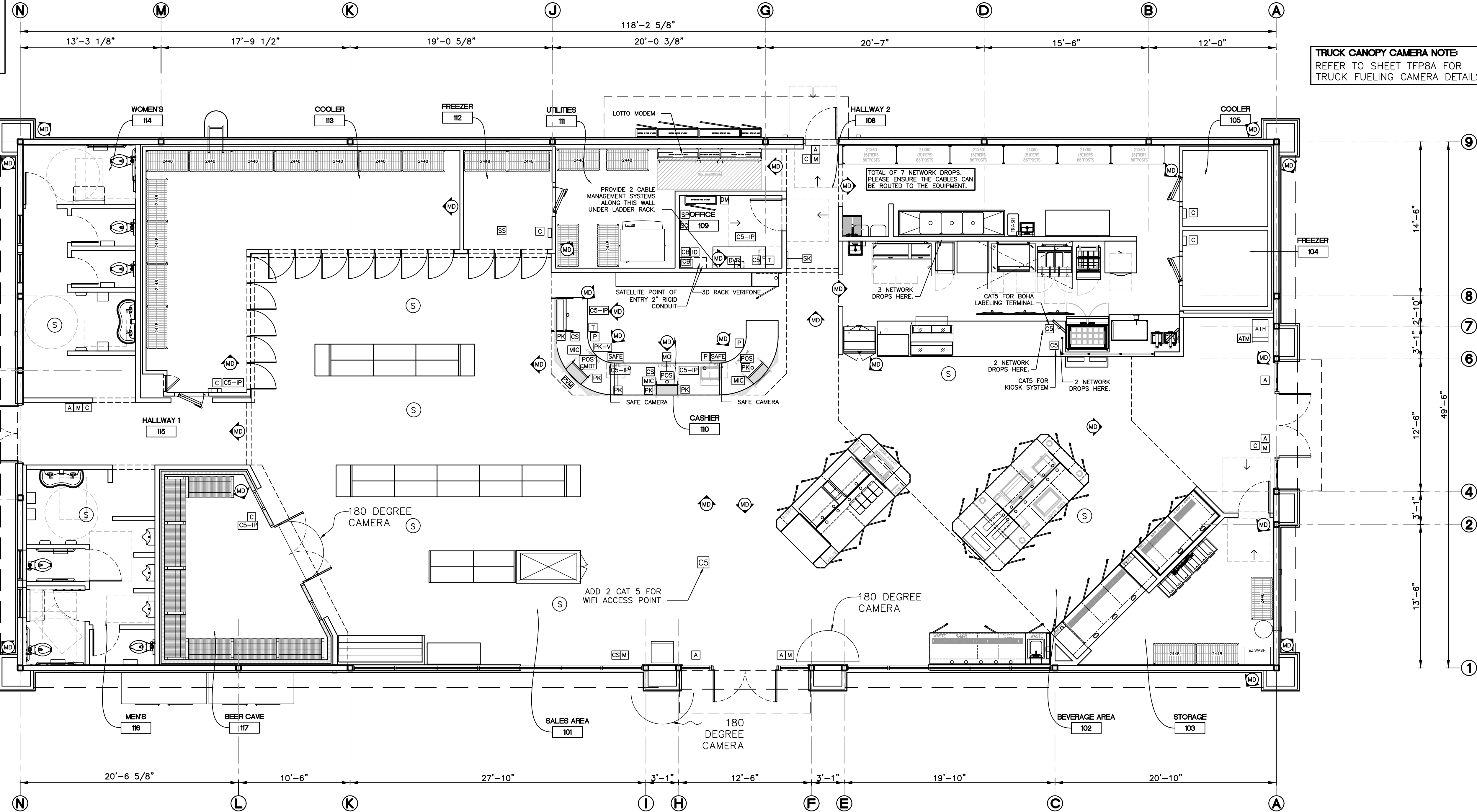
NOTE
1 HUSSMAN COLD CASE AT MILLWORK ISLAND (CLOSEST TO ENTRANCE). COLD CASE WILL HAVE 1 CONDENSER UNIT.

1 FLOOR PLAN - FIXTURE AND EQUIPMENT
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

6	5	4	3	2	1
CAMERAS CEFCO <ul style="list-style-type: none"> 18/2 CAT5 CABLE (POWER AND COMMUNICATION ARE ATTACHED). 4 BOXES OF 500'. LEAVE 10' OF EXTRA CABLE AT EACH CAMERA LOCATION POINT. LEAVE 6' OF EXTRA CABLE AT OFFICE TERMINATION POINT. LABEL ALL WIRES WITH CAMERA #'S OR LOCATION. <p>#1 REGISTER 1 #2 REGISTER 2 #3 REGISTER 3 #4 BEHIND COUNTER #5 SAFE CAMERA #6 FRONT OF COUNTER #7 FRONT DOOR #8 SIDE DOOR #9 TRUCKER ENTRANCE #10 AISLE 1 #11 AISLE 2 #12 AISLE 3 #13 STORE VIEW #14 FOUNTAIN VIEW 1 #15 FOUNTAIN VIEW 2 #16 BEER CAVE ISLE #17 BEER CAVE #18 SODA COOLER 1 #19 SODA COOLER 2 #20 HALLWAY / BACK DOOR #21 OFFICE #22 ICE / STORAGE #23 STORAGE #24 KITCHEN 1 #25 KITCHEN 2 #26 KITCHEN WALK INS #27 KITCHEN 3</p> <p>GENERAL CONTRACTOR TO PROVIDE 2" X 12" X 16" +/- WOOD BLOCKING AT HEIGHT DETERMINED BY OWNER FOR ALL EXTERIOR SECURITY CAMERAS.</p>	DVR <p>18/2 SHIELDED WITH GROUND. RUN FROM OFFICE TO FRONT COUNTER. (LEAVE EXTRA 10' AT BOTH TERMINATION POINTS)</p> <p>MIC MICROPHONE - 22/4 SHIELDED WITH GROUND. RUN UNDERGROUND AND TERMINATED ON THE INSIDE OF EACH POS SHROUD</p> <p>SAFE CAT 5 - RUN FROM OFFICE TO SAFE LOCATION (LEAVE EXTRA 10' AT BOTH TERMINATION POINTS)</p> <p>ATM (INDOOR) 2 - CAT 5 FROM THE OFFICE TO ATM POSITION</p> <p>LOTTERY LOTTO - CAT 5 FROM MODEM TO FRONT COUNTER TERMINAL (LEAVE ADDITIONAL 10 FT) CAT 5 FROM SALES COUNTER TO TICKET SCANNER (LEAVE ADDITIONAL 10 FT)</p> <p>CONDUIT BOX CONDUIT BOX (LOCATED INSIDE WALL)</p> <p>PORT PATCH PANEL 24-PORT PATCH PANEL 4-PORT PATCH PANEL 4 PORT PATCH PANEL WITH VIDEO</p> <p>CONDUITS - SPARE CONDUIT STUB UP AUDIO CABLE</p>	SECURITY SYSTEM <p>SP SECURITY PANEL - ORIGINATE AT THE SECURITY PANEL AT D-MARK. (LEAVE ADDITIONAL 10 FT OF WIRE)</p> <p>A DOOR CONTACT: 22/4 WIRE (FRONT, SIDE AND BACK DOORS) - ALL WIRING TO BE LOCATED WITHIN DOOR FRAMES</p> <p>P PANIC BUTTONS: 22/4 WIRE (TO ALL 3 REGISTERS)</p> <p>M MOTION DETECTORS: 22/4 WIRE MD#1 ATM MD#3 SIDE DOOR MD#2 FRONT DOOR MD#4 BACK DOOR</p> <p>SK SECURITY KEYPAD: 22/4 WIRE (TERMINATE FROM PUNCH BOARD AREA)</p> <p>SS SECURITY SIRDN: 22/4 WIRE (TERMINATE IN STORE ABOVE FREEZER)</p> <p>TELEPHONE STANDARD PHONE LINE LOCATED AT D-MARK - PULL PHONE LINES FROM PATCH PANEL TO THE REQUIRED TERMINATED POSITIONS. IRM SILE AND CONFIRM DIAL TONE.</p> <p>D-MARK STANDARD D-MARK: 5-CAT 5 (FROM D-MARK TO OFFICE)</p> <p>CHIME CHIME CONNECTED TO ENTRY DOORS. CHIMES IN COOLERS, BACK OFFICE/STORAGE ROOM AREA AND DELI PREP AREA WILL BE 22/4 WIRING, WHICH WILL BE PULLED INTO THE BACK OFFICE/STORAGE ROOM AREA AND NEAR THE ALARM PANEL. (A CONTROL PANEL WILL BE LOCATED THERE.) DOOR WIRING FOR THE ENTRY DOORS WILL BE TWO HOME RUNS (22/4 AT EACH) FROM THE BACK OFFICE/STORAGE ROOM AREA AND WITH EACH WIRE BEING SPLIT TO EACH DOOR, PER EACH POINT OF ACCESS. THIS WILL BE IN ADDITION TO THE 22/4 WIRING AT EACH SET OF DOORS, PER THE ALARM CONTRACTORS.</p>	TRUSONIC <p>SC SPEAKER CONTROLS - ORIGINATE SPEAKER WIRES IN OFFICE NEXT TO VOLUME CONTROLS.</p> <p>8 - TOTAL SPEAKERS</p> <p>4 - SPEAKERS IN RETAIL AREA (CEILING MOUNTED) - INTERIOR SALES AREA SPEAKERS USE ON EACH RUN OF 16/4 SPEAKER CABLE DAISY CHAINED FOR THESE FOUR SPEAKERS. SPK #1 HOT FOOD/DRINK AREA SPK #2 AISLE 2 AREA SPK #3 FREEZER AREA SPK #4 ATM AREA</p> <p>2 - SPEAKERS IN RESTROOMS 1 SPEAKER IN EACH RESTROOM (CEILING MOUNTED). RESTROOM SPEAKERS USE ONE RUN OF 16/4 SPEAKER CABLE DAISY CHAINED FOR THESE TWO SPEAKERS.</p> <p>3 - SPEAKERS CENTERED IN EACH LAND BETWEEN ISLANDS (CEILING MOUNTED). USE ONE RUN OF 16/4 CHEMICAL RESISTANT CABLE TO CANOPY SPEAKERS. DAISY CHAIN BETWEEN SPEAKERS.</p> <p>PRICER ID RUN A BELDON 1420A 060, SHIELDED, 20 AWG, 3 TWISTED PAIR COMMUNICATION CABLE FROM EACH PRICER SIGN TO THE BACK OFFICE. 500 FOOT LENGTH FOR EACH ID SIGN.</p> <p>DATA LINES RUN TWENTY-FOUR (24) CAT 5 LINES FROM OFFICE TO THE SALES AREA COUNTER. RUN TWO (2) CAT 5 LINES FROM OFFICE TO THE KITCHEN AREA BEHIND OVEN AREA. RUN THREE (3) CAT 5 PHONE LINES & THREE (3) ALARM PANIC BUTTON LINES FROM D-MARK. RUN CAT 5 FROM D-MARK TO PATCH PANEL (TWO LINES/PER PHONE, 1) CASHIER. RUN CAT 5 FROM AUTOMATIC TANK GAUGE TO BACK OFFICE. IP CAT 5 LINES (TERMINATE LINES AS SHOWN)</p>	GENERAL NOTES <ol style="list-style-type: none"> ALL CABLE RUNS ARE HOME RUNS (WITHOUT SPLICING) UNLESS OTHERWISE NOTED OR APPROVED BY OWNER. ALL CABLEING TO THE SALES COUNTER TO BE IN ONE OF THE THREE (3) 2" UNDER SLAB CONDUITS DEPENDING ON THE CABLE'S POINT OF ORIGIN. ALL CAMERAS USE 18/2 RG 59 SHIMMIE CABLE AND HOME RUN FOR EACH CAMERA. FOR EXTERIOR CAMERAS, PROVIDE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM THE EIFS LOCATION OF THE CAMERA TO ACCESSIBLE INTERIOR CEILING SPACE. ONE CONDUIT BOX TO BE MOUNTED ON THE 2" CONDUIT FROM THE SALES COUNTER. EACH CONDUIT BOX TO HAVE A 2" CONDUIT RAN FROM THE TOP OF THE BOX TO ACCESSIBLE CEILING NEAR THE OFFICE. BOTH BOXES OPEN INTO THE OFFICE AND SHOULD BE UNDER THE WORK COUNTER IF POSSIBLE. TELEPHONE OUTLET IN OFFICE AND ATM/LOTTO DATA BOX TO BE 1" CONDUIT RAN UP THE WALL TO ACCESSIBLE CEILING. ALL CABLEING REQUIRED TO BE IN A WALL SPACE, TO AN EXTERIOR POINT, OR TO HARD SURFACED CEILING SPACE REQUIRE CONDUIT TO ACCESSIBLE CEILING AREA. ALL CABLEING TO BE PERMANENTLY LABELED AT BOTH ENDS OF THE CABLE AND A LEGEND OF THE CABLE LABELS PROVIDED TO THE OWNER. DVR WILL BE IN THE CEFCO BACK OFFICE. <p>POINT OF ENTRY (POE) RUN THE HUGHES SATELLITE AND THE LOTTERY DISH THROUGH THE 2" POINT OF ENTRY (COMMUNICATIONS POE).</p> <p>INSTALL POINT OF ENTRY (POE) NEAR ROOF WALKING PATH.</p> <p>POINT OF SALES POS POINT OF SALES COM DATA POINT OF SALES - COM DATA RMOT MONEY ORDER REMOTE MONEY ORDER</p>	<p>ORIGINAL DOCUMENT CONTAINS THE INTERPLAN LOGO PRINTED IN RED; ALL DRAWINGS AND OTHER CONTENTS OF THIS DOCUMENT ARE PROTECTED UNDER U.S. COPYRIGHT LAWS, AND NO PORTION MAY BE COPIED, IN WHOLE OR IN PART, WITHOUT THE EXPRESS WRITTEN PERMISSION OF INTERPLAN ARCHITECTS, INC. EXTRA COPIES CAN BE OBTAINED AT INTERPLAN ARCHITECTS, INC. PER REQUEST. © COPYRIGHT 2023</p> <p>PROJECT NUMBER CEF22-FLR.DWG</p> <p>PROJECT TITLE CEFCO CONVENIENCE STORES #0047</p> <p>CEFCO F2501-B SERIES RIGHT FACING</p> <p>CEFCO CONVENIENCE STORES #0047 I-35 FRONTAGE ROAD EDDY, TEXAS 76524 BRUCEVILLE - EDDY CITY LIMITS MCLENNAN COUNTY A PROJECT OF: FIKES WHOLESALE, INC.</p>
LOW VOLTAGE EQUIPMENT NOTES <ol style="list-style-type: none"> ONE MODEL # 4 U 2 POLE RACK WITH 19" MOUNT DISTANCE, SECURED TO FLOOR. COLOR: BLACK FOUR VENTILATED 15" SHELVES - SINGLE SIDE MOUNT. COLOR: BLACK ONE RACK MOUNT SURGE PROTECTOR WITH MOUNTING HARDWARE. MINIMUM SIX OUTLETS - WITH MINIMUM 15 AMPS CAPACITY. COLOR: BLACK NE 48 PORT CAT5 PATCH PANEL. COLOR: BLACK <p>THE FOLLOWING EQUIPMENT TO BE PROVIDED BY LOW VOLT CONTRACTOR.</p>					

STANDARD CEFECO REQUIREMENT/NOTE:

- CAT5 FOR ALL CAMERAS.
- 4 DATA PORT BOX AT THE SERVICE ISLE, BENEATH THE COUNTER, THE SHARED METAL MILLWORK WALL WITH THE TRASH RECEPTACLE.
- REFER TO M01 FOR RTU CAT5 CABLE ROUTES.



NOTE
1 HUSSMAN COLD CASE AT MILLWORK ISLAND (CLOSEST TO ENTRANCE). COLD CASE WILL HAVE 1 CONDENSER UNIT.

TRUCK CANOPY CAMERA NOTE
REFER TO SHEET TFP8A FOR TRUCK FUELING CAMERA DETAILS.

1 FLOOR PLAN - LOW VOLTAGE CABLING
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.



DRAWINGS ISSUED FOR:

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03-28-24	100% SET
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REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE
LOW VOLTAGE CABLING PLAN

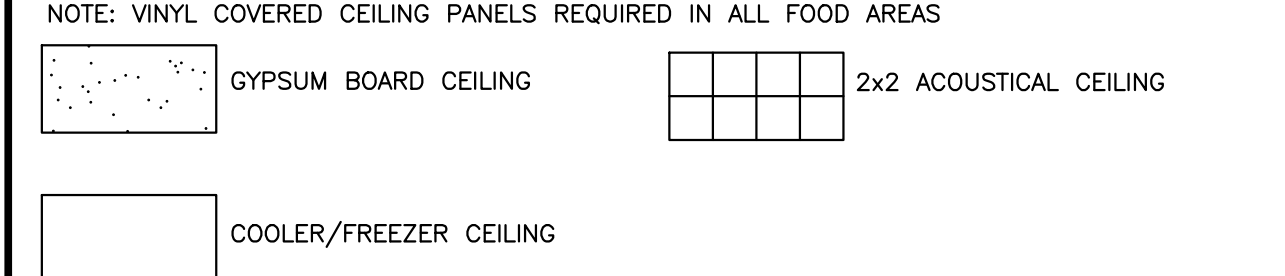
DRAWING NUMBER
A03A

SHEET NO.

CEILING FINISH SCHEDULE

SYMBOL	DESCRIPTION
CT-1	ARMSTRONG "CIRRUS" SERIES SUSPENDED ACOUSTICAL LAY-IN CEILING PANELS. 24 X 24 X 3/4 SQUARE GRID CUT WITH WHITE FINISH 15/16 PRELUDE T-BAR GRID SYSTEM WITH WHITE FINISH
CT-2	ARMSTRONG "CLEAN ROOM VL" VINYL SUSPENDED ACOUST. LAY-IN CEILING PANELS. 24 X 24 X 3/4 SQUARE CUT WITH WHITE FINISH 15/16 PRELUDE T-BAR GRID SYSTEM WITH WHITE FINISH
CT-3	5/8" FIRE RATED GYPSUM WALLBOARD CEILING SMOOTH FINISH COLOR: GLOSS WHITE SW 7005
CT-4	5/8" FIRE RATED GYPSUM WALLBOARD CEILING SMOOTH FINISH COLOR: WHITE
CT-5	INSULATED COOLER/FREEZER CEILING

1. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS AND LOCATIONS OF SWITCHES.
2. REFER TO SITE PLAN DRAWING FOR SITE LIGHTING INFORMATION.
3. REFER TO CANOPY PLAN DRAWING FOR LIGHTING INFORMATION.



REFLECTED CEILING PLAN LEGEND

SYMBOL	ID	DESCRIPTION	COUNT	SYMBOL	ID	DESCRIPTION	COUNT
[Symbol]	A	2' X 4' LED ARCHITECTURAL TROFFER	25	[Symbol]	KE	2' X 4' LED TROFFER - EMERGENCY BATTERY BACK-UP	7
[Symbol]	AE	2' X 4' LED ARCHITECTURAL TROFFER - EMERGENCY BATTERY BACK-UP	9	[Symbol]	CRUS	LED CANOPY LUMINAIRE, 10525 LUMEN, 142 EFFICACY, B3-U0-G1, SYMMETRIC DISTRIBUTION, 50K COLOR TEMP.	6
[Symbol]	B	6" DEEP RECESSED LED DOWNLIGHT	46	[Symbol]	L2	QWIK STIK FLAT SERIES 2' LED FIXTURE, RE:E03A	3
[Symbol]	BE	6" DEEP RECESSED LED DOWNLIGHT - EMERGENCY BATTERY BACK-UP	7	[Symbol]	L5T	QWIK STIK FLAT SERIES 5'-4" LED FIXTURE, RE:E03A	8
[Symbol]	C	4' LAY-IN FIXTURE (OUTSIDE COOLERS)	10	[Symbol]	L6	QWIK STIK FLAT SERIES 6' LED FIXTURE, RE:E03A	1
[Symbol]	D	4' WET LOCATION LINEAR (INSIDE COOLERS) [PT-VT1-4F-45W-50 (4FT LED VAPORTIGHT)]	6	[Symbol]	L7	QWIK STIK FLAT SERIES 7' LED FIXTURE, RE:E03A	1
[Symbol]	DE	4' WET LOCATION LINEAR (INSIDE COOLERS) - EMERGENCY BATTERY BACK-UP [PT-VT1-4F-45W-50 (4FT LED VAPORTIGHT)]	7	[Symbol]	L8	QWIK STIK FLAT SERIES 8' LED FIXTURE, RE:E03A	15
[Symbol]	H	2' X 2' LED ARCHITECTURAL TROFFER	25	[Symbol]	M4	4FT LED STRIP DIFFUSED LUMINAIRE	1
[Symbol]	HE	2' X 2' LED ARCHITECTURAL TROFFER - EMERGENCY BATTERY BACK-UP	7	[Symbol]	M8	BFT LED STRIP DIFFUSED LUMINAIRE	8
[Symbol]	J	1' X 4' LED TROFFER	2	[Symbol]	PE	E-COULIGHT WALL SCONCE - WET LISTED NOTE: LOCATIONS NEARDOORS TO HAVE BATTERY BACK-UP	1
[Symbol]	K	2' X 4' LED TROFFER	11	[Symbol]	S	WALL SCONCE	6
				[Symbol]	W	LED TRAPEZOID WALL PACK NOTE: LOCATIONS OVER DOORS TO HAVE BATTERY BACK-UP	6
				[Symbol]	X	EMERGENCY EXIT SIGN	8
				[Symbol]	XE	EMERGENCY EXIT LIGHT	4
				[Symbol]		EXHAUST FAN, REFER TO MECHANICAL	
				[Symbol]		SUPPLY AIR, REFER TO MECHANICAL	
				[Symbol]		RETURN AIR, REFER TO MECHANICAL	

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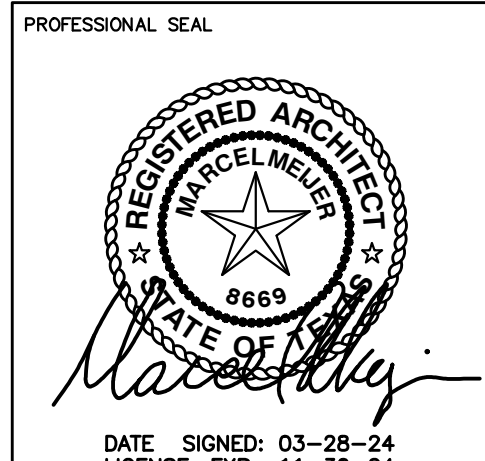


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
LICENSE: EXP: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
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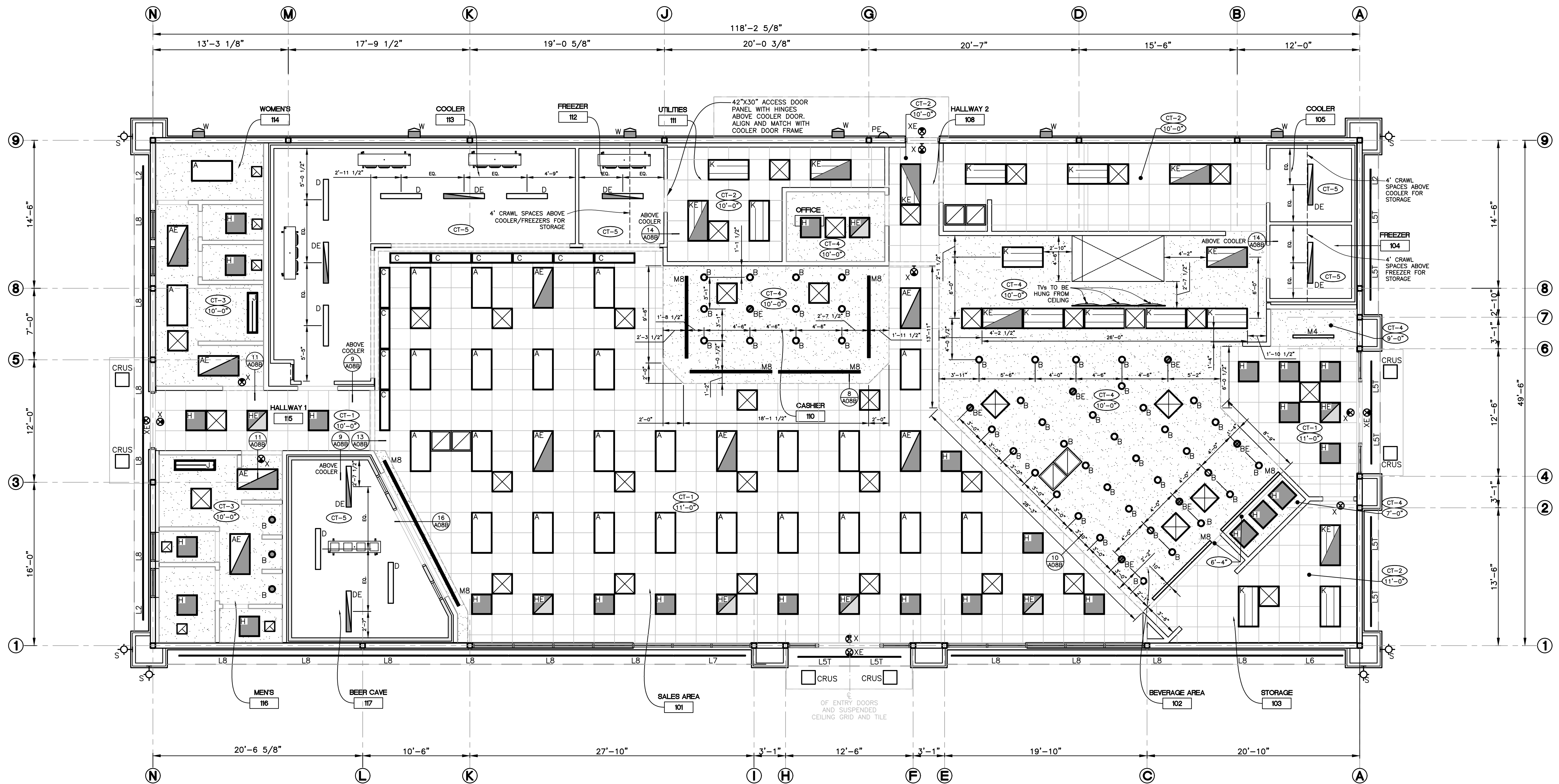
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
REFLECTED CEILING PLAN

DRAWING NUMBER
A04



1 FLOOR PLAN - REFLECTED CEILING
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

KEYED NOTES:

- 1 TWO 2 LAYERS OF THREE 3 INCH ISO INSULATION STAGGERED OVER 1 1/2" METAL DECKING.
- 2 CANDY CANE COORDINATE LOCATION WITH ELECTRICAL AND MECHANICAL CONTRACTOR. SEE DETAIL 3/A048 FOR MORE INFORMATION.
- 3 VENT THRU ROOF - PROVIDE PREFABRICATED DURO-LAST VENT FLASHING FOR ALL VENTS AND PIPE PENETRATIONS. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. SEE DETAIL 1/A048 FOR MORE INFORMATION.
- 4 5"x5" DOWNSPOUTS LOCATED AS SHOWN. TIE INTO STORM DRAINAGE PIPING UNDERGROUND. REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION.
- 5 ROOF CRICKET WITH SLOPE EQUAL TO ROOF. SEE DETAIL 5/A048 FOR MORE INFORMATION.
- 6 MECHANICAL UNIT, REFER TO HVAC PLANS.
- 7 EXHAUST FAN, REFER TO HVAC PLANS.
- 8 CONDENSER UNITS, REFER TO MECHANICAL AND ELECTRICAL FOR SPECIFICATIONS.
- 9 WALKING PAD SPECIFIED BY GC. VERIFY WITH OWNER. FURNISHED AND INSTALLED BY ROOFING SUBCONTRACTOR.
- 10 INSTALL CANDY CANE STYLE PENETRATIONS FOR ALL ROOFTOP EQUIPMENT.

GENERAL NOTES

1. THE ROOF STRUCTURE SHALL NOT BE USED FOR STOCKPILING OF EQUIPMENT OR MATERIALS UNLESS APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND THE JOIST MANUFACTURER.
2. THE ROOFING SYSTEM SHALL BE AS PER DRAWINGS AND PER CONSTRUCTION SPECIFICATIONS.
3. COORDINATE ROOF ELEVATIONS WITH STRUCTURAL DRAWINGS.
4. ROOF TOP UNITS: GENERAL CONTRACTOR TO INSTALL FLASHING AND COUNTER-FLASHING TO ROOFING MANUFACTURER SPECIFICATIONS.
5. PRESSURE WASH ROOF PRIOR TO COMPLETION OF THE STORE.

NOTE:
CONTRACTOR TO INSTALL
OVERFLOW SENSORS TO
ALL ROOF TOP RTU UNITS.

PLAN SYMBOLS

- REVISION NUMBER
- KEYNOTE
- EQUIPMENT TAG - REFER TO PAGE A3.0
- DETAIL TAG
- PLAN DETAIL
- ELEVATION DATUM TAG

ROOF DRAIN CALCULATIONS:

ROOF AREA = 5800 FT²
BUILDING DRAINS:
ROOF: 5800 FT² X 144 IN² X 4.5 IN
= 3,750,400 IN³ X 0.00434 IN
= 16,300 GPM
5 SETS OF DRAINS AT 54.2 EACH:
= 4" (FBC 1106.3)
CALCULATED PER 2021 IBC-P FIGURE 1106.1 AND TABLE 1106.3

NOTE:

CONTRACTOR TO INSTALL TWO 2 LAYERS OF THREE 3 INCH ISO INSULATION STAGGERED OVER 1 1/2" METAL DECKING. THERE CREATE 7/4 X 2 = 948 LITR R VALUE. THE INSULATION IS INSTALL FULLY ADHERED USING OLY BOND 500 SPOT SHOT BY GAF. DURO-LAST 60 ML WHITE IS FULLY ADHERED TO THE ISO INSULATION USING DURO-LAST SOLVENT BASED BONDING ADHESIVE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. ALL VERTICAL PARAPET WALLS SHALL HAVE 60 ML WHITE DURO-LAST MATERIALS INCLUDING PARAPET CAP.

NOTE:

WHERE THE PARAPET IS NOT 42 INCHES IN HEIGHT AND EQUIPMENT IS LOCATED WITHIN 10 FEET OF THE ROOF EDGE, A GUARD SHALL BE REQUIRED TO BE PLACED TO PROTECT SERVICE PERSONNEL. GUARD SHALL NOT ALLOW THE PASSAGE OF A 21-INCH SPHERE AND SHALL EXTEND 30 INCHES BEYOND EACH END OF EQUIPMENT REQUIRING SERVICE. (PER IMC 304.11)

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
LICENSE EXP: 11-30-24

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SHEET TITLE

ROOF PLAN

DRAWING NUMBER

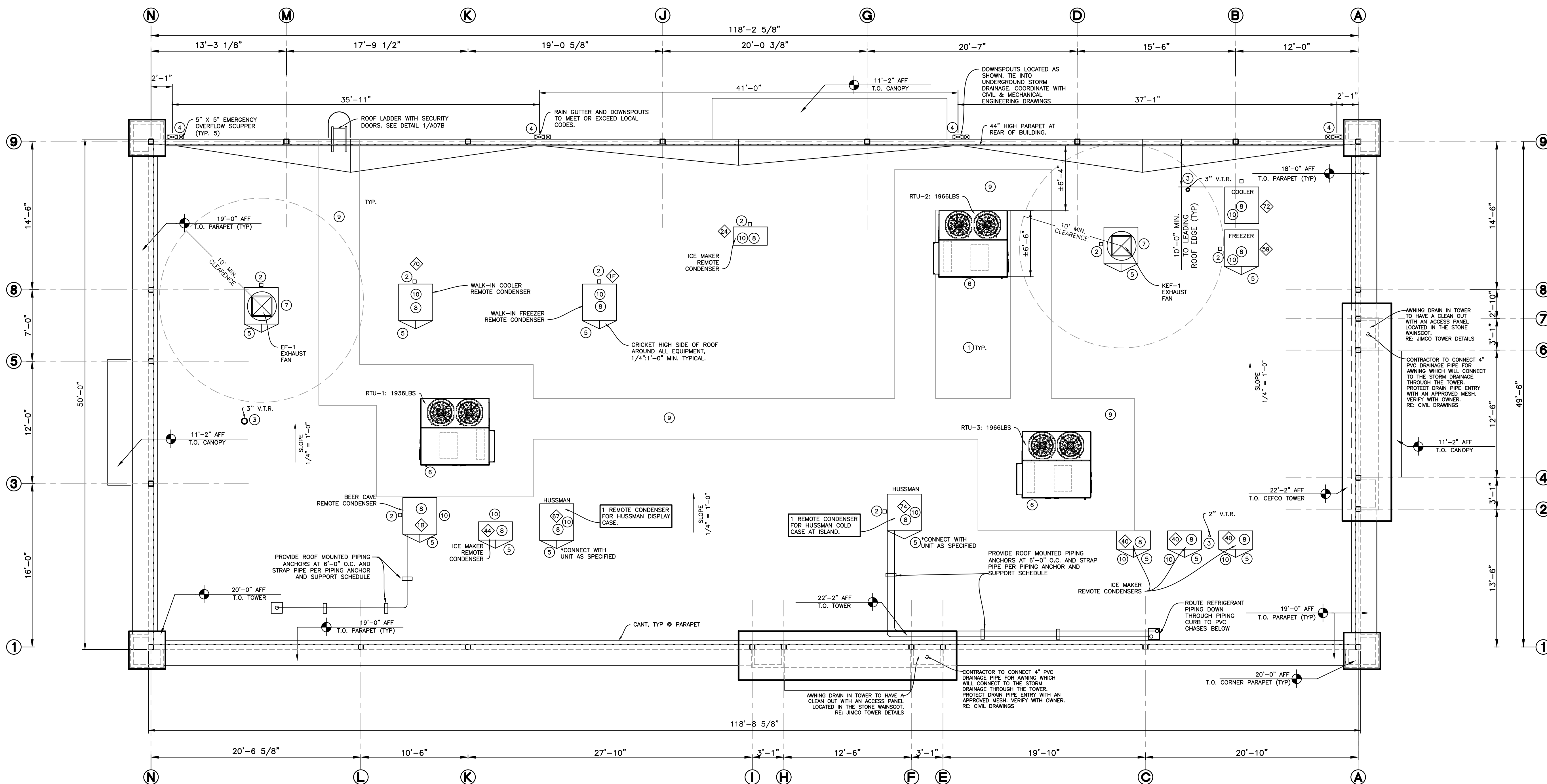
A04A

SHEET NO.

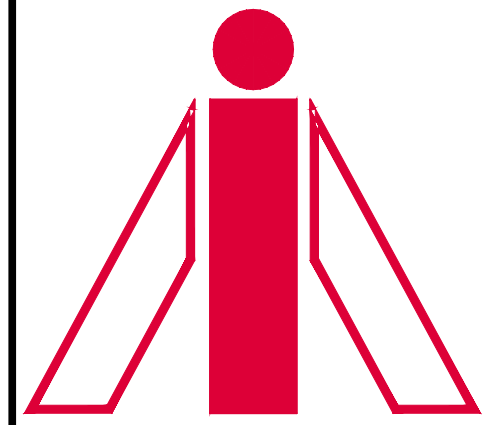
1 FLOOR PLAN - ROOF PLAN

SCALE: 3/16" = 1'-0"

TOTAL AREA: 5,974 SQ. FT.



1 FLOOR PLAN - ROOF PLAN
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-A04B.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
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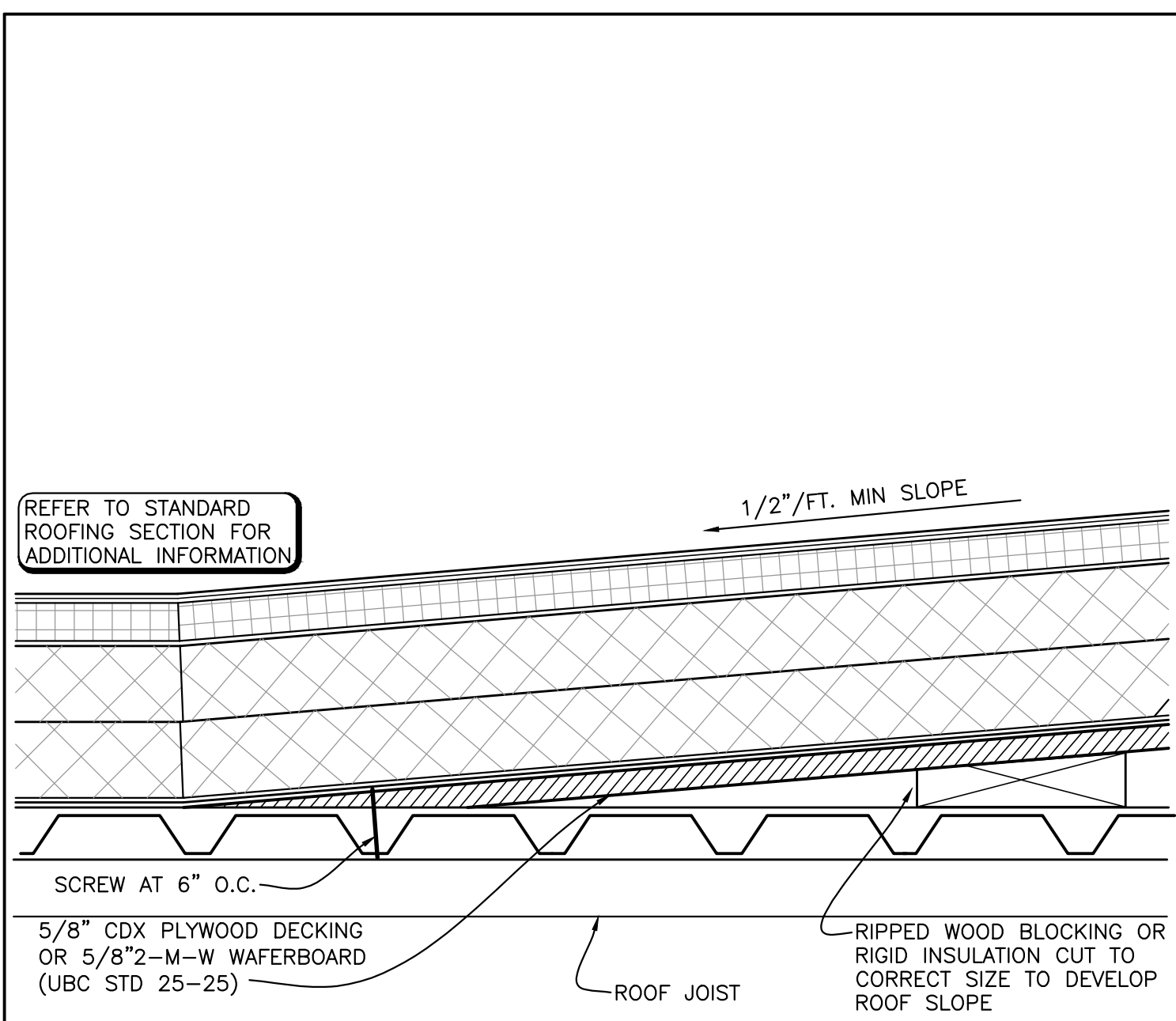
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NO.	DATE	DESCRIPTION

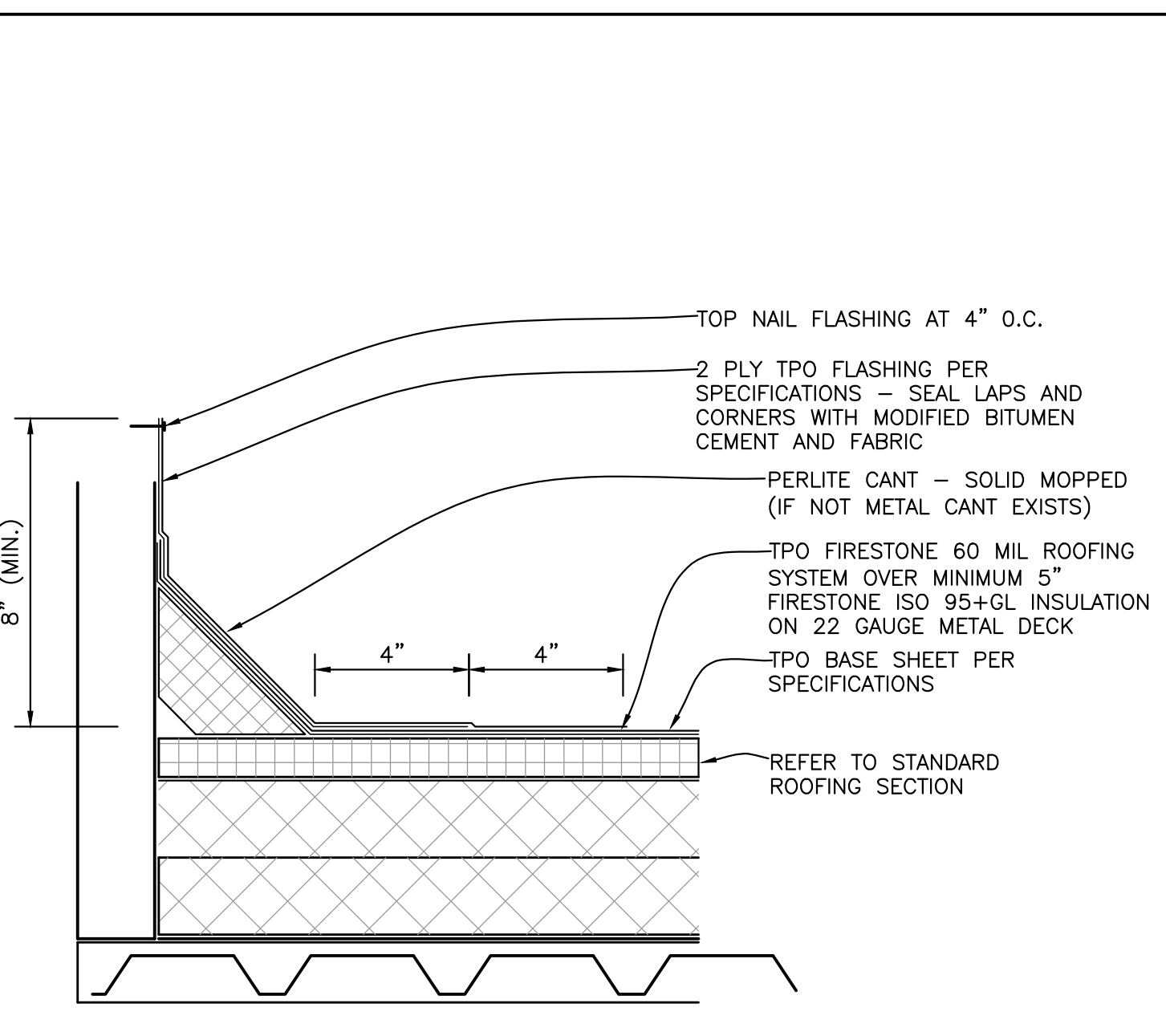
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SHEET TITLE
ROOF DETAILS

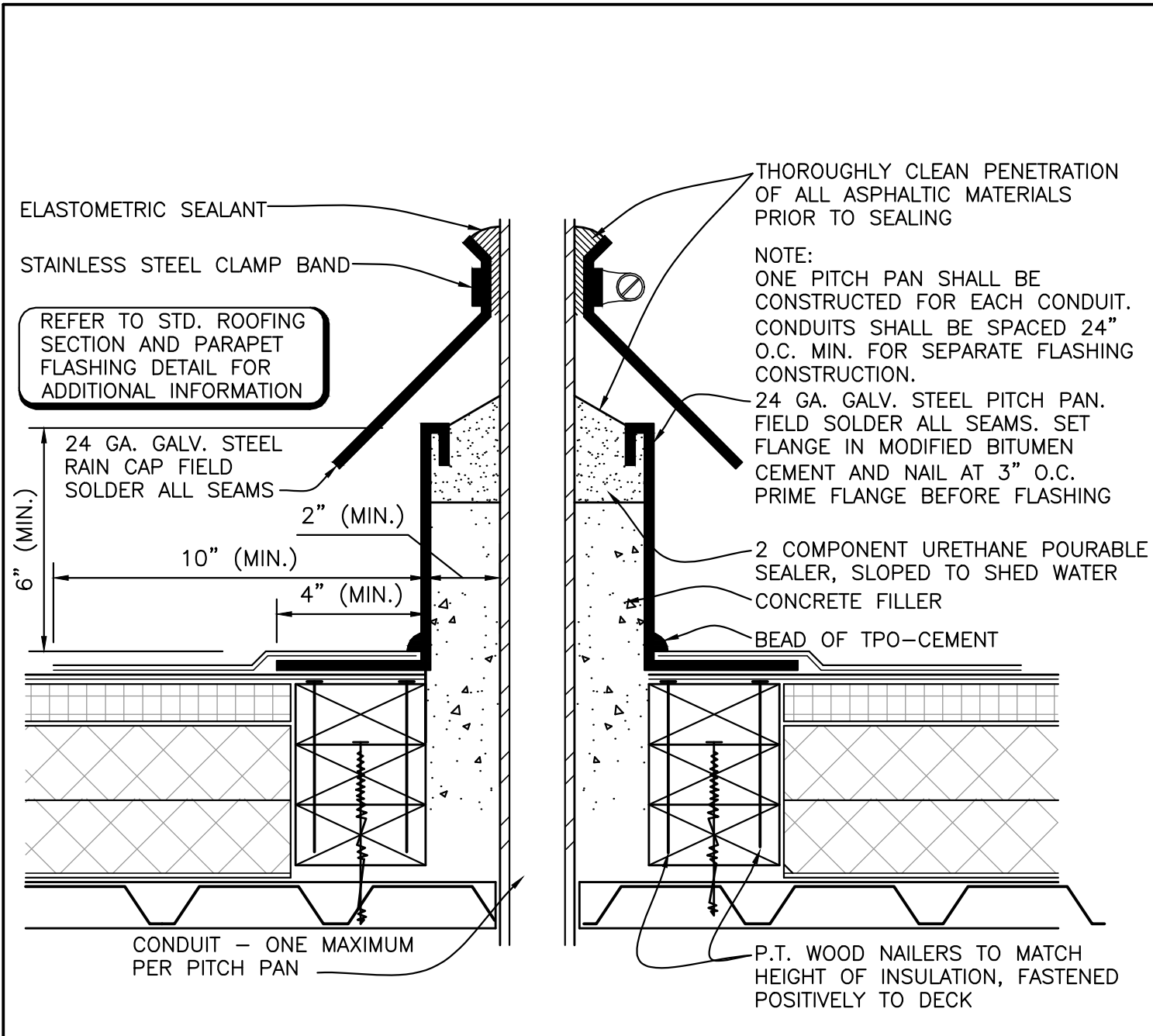
DRAWING NUMBER
A04B



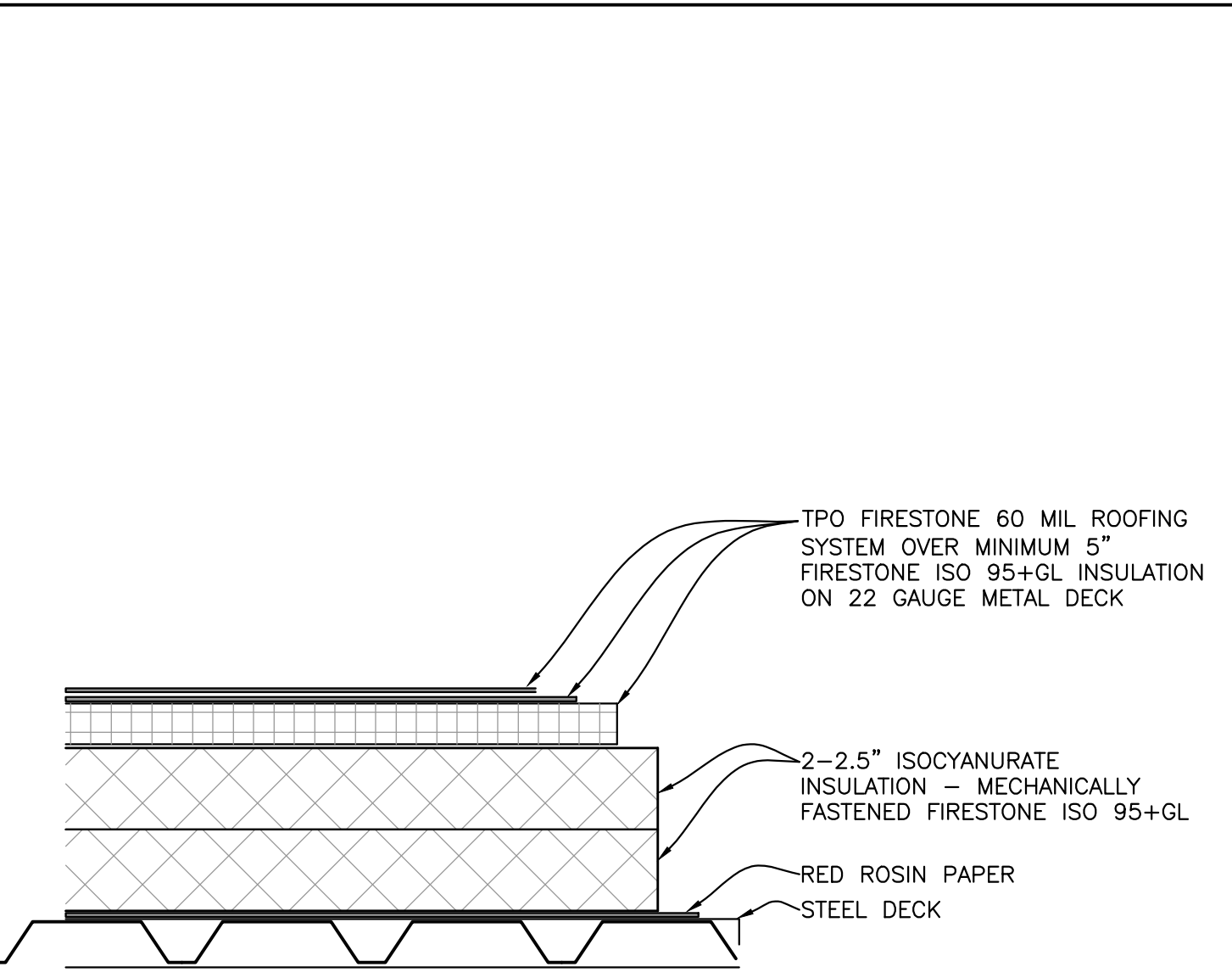
5 TYPICAL CRICKET DETAIL
SCALE: 3"=1'-0"



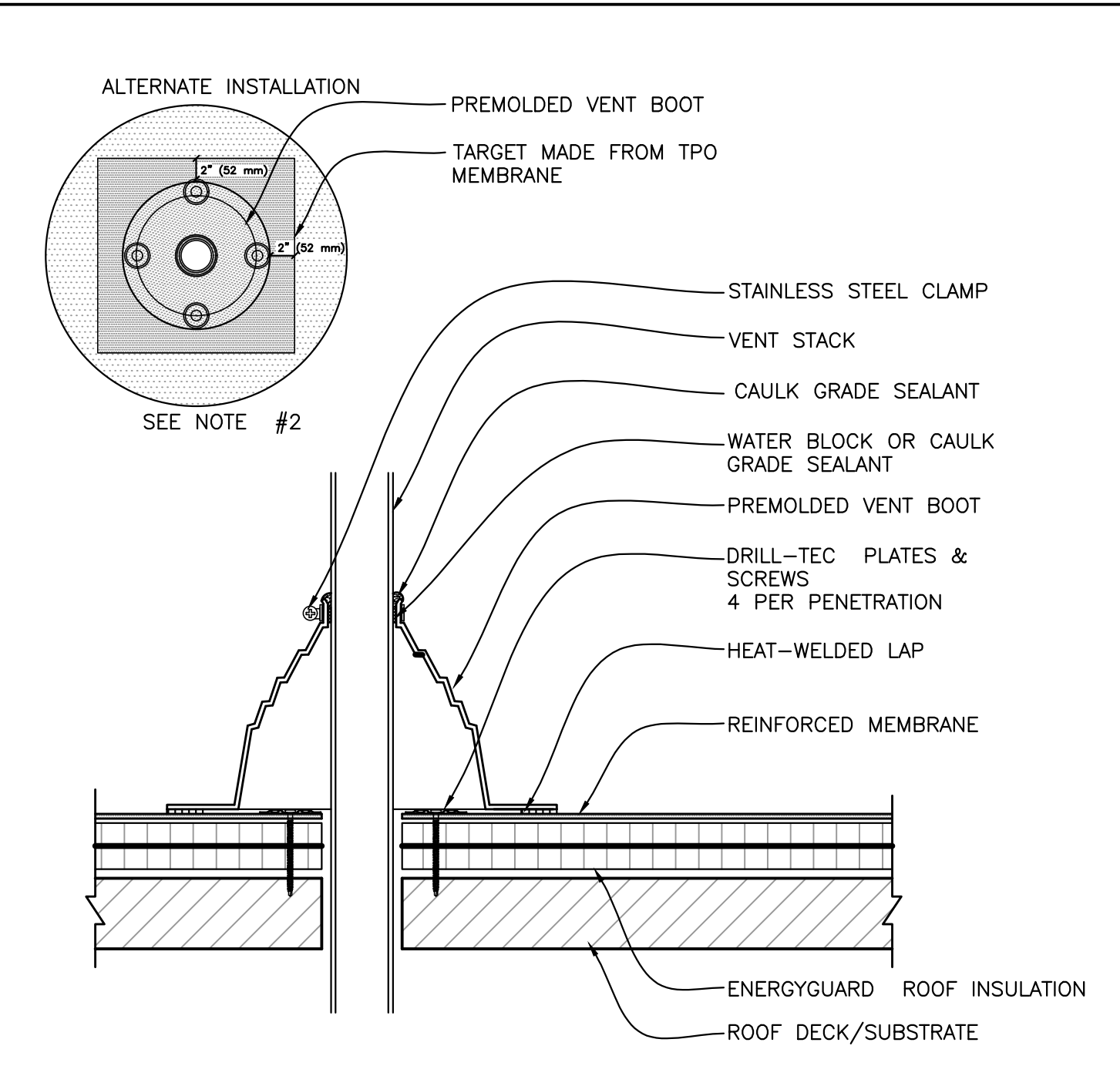
4 STANDARD BASE FLASHING DETAIL
SCALE: 3"=1'-0"



3 PITCH PAN DETAIL
SCALE: 3"=1'-0"

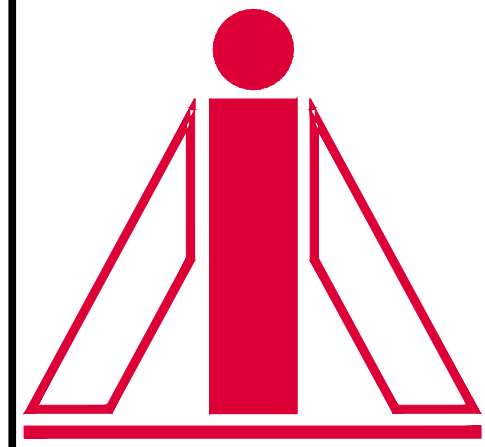


2 STANDARD ROOFING SECTION
SCALE: 3"=1'-0"



1 FLASHING DETAIL AT VENT STACK
SCALE: 3"=1'-0"

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PLANNING ARCHITECTURE INTERIORS
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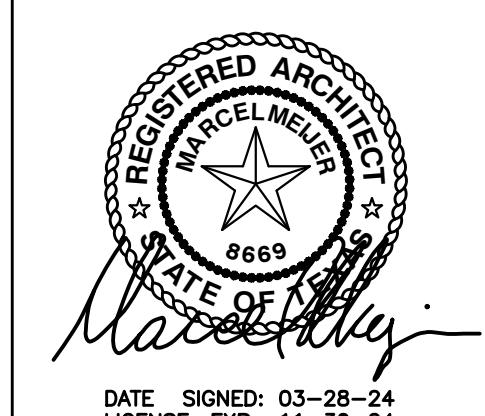
PROJECT NUMBER
CEF22-A05.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
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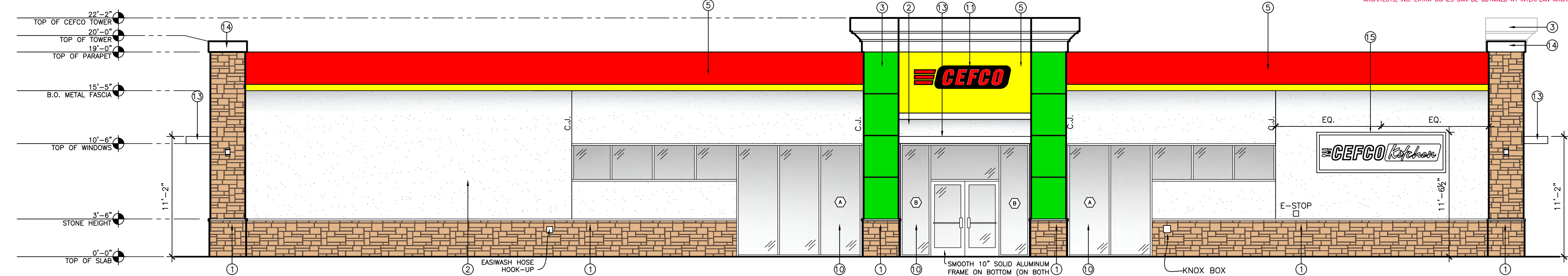
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SHEET TITLE

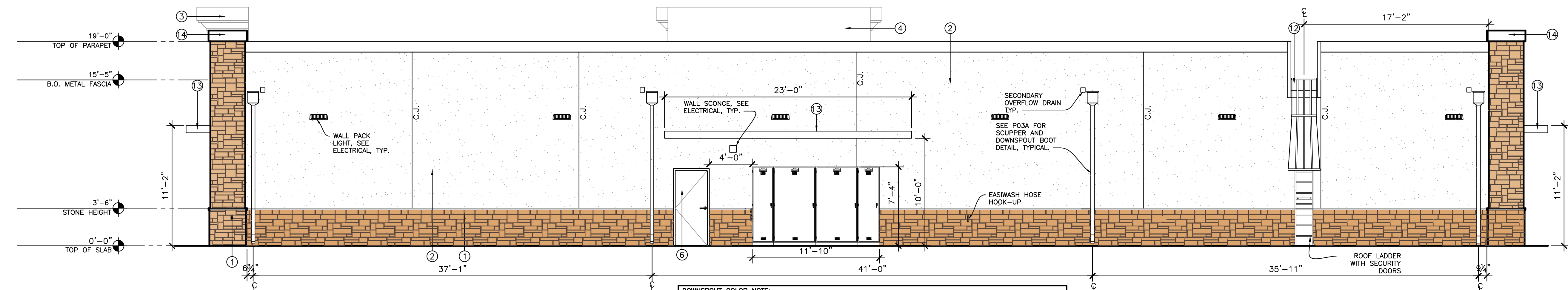
EXTERIOR ELEVATIONS

DRAWING NUMBER SHEET NO.

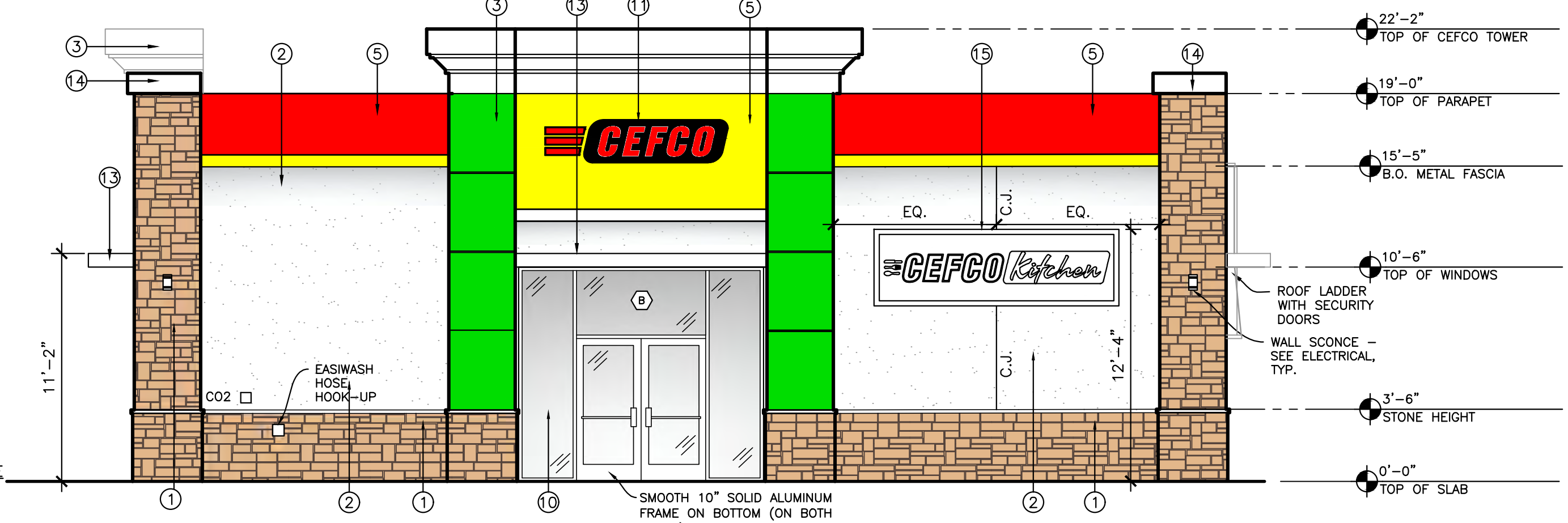
A05



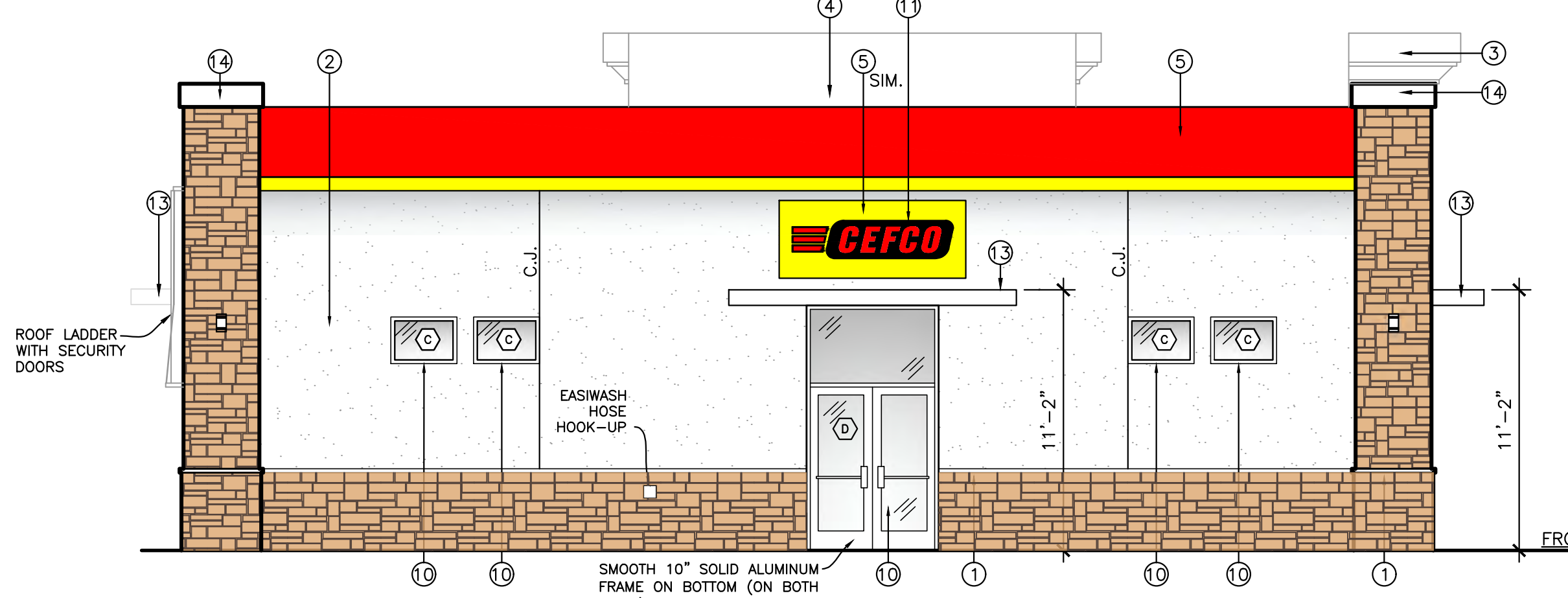
1. FRONT ELEVATION
SCALE: 3/16"=1'-0"
REF: FLOOR PLANS



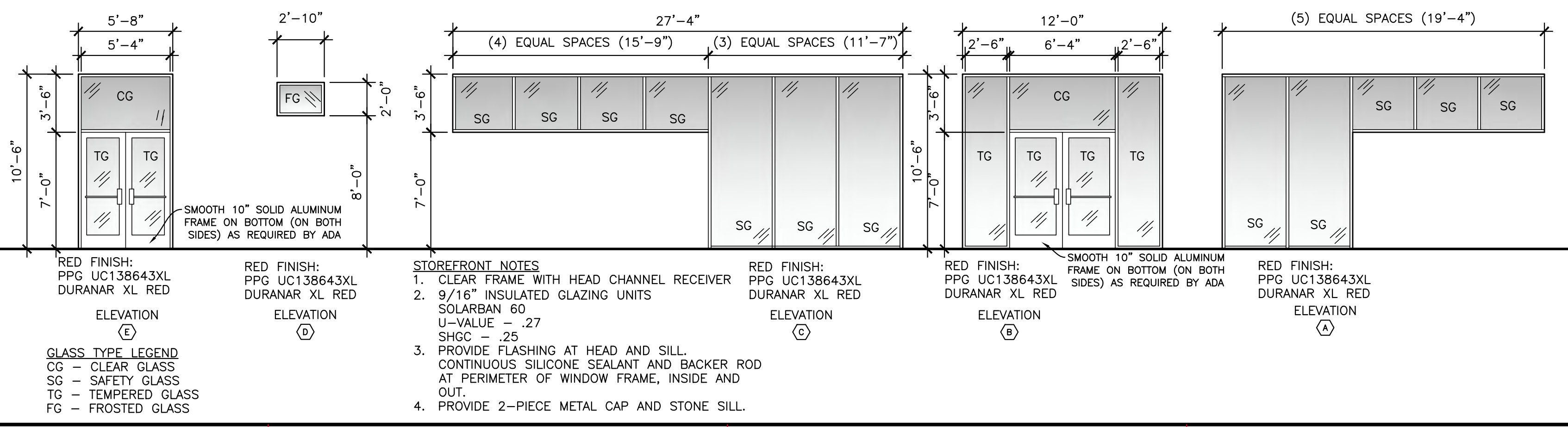
2. REAR ELEVATION
SCALE: 3/16"=1'-0"
REF: FLOOR PLANS



4. SIDE ELEVATION
SCALE: 3/16"=1'-0"
REF: FLOOR PLANS



3. SIDE ELEVATION
SCALE: 3/16"=1'-0"
REF: FLOOR PLANS



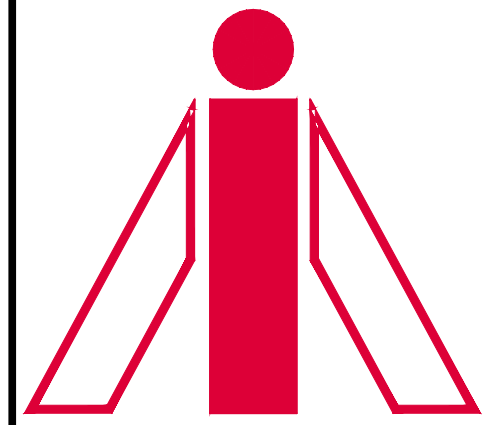
GLASS TYPE LEGEND
CG - CLEAR GLASS
SG - SAFETY GLASS
TG - TEMPERED GLASS
FG - FROSTED GLASS

STOREFRONT NOTES
1. CLEAR FRAME WITH HEAD CHANNEL RECEIVER
2. 9/16" INSULATED GLAZING UNITS SOLARBAN 60 U-VALUE = .27 SHGC = .25
3. PROVIDE FLASHING AT HEAD AND SILL. CONTINUOUS SILICONE SEALANT AND BACKER ROD AT PERIMETER OF WINDOW FRAME, INSIDE AND OUT.
4. PROVIDE 2-PIECE METAL CAP AND STONE SILL.

EXTERIOR FINISH SCHEDULE

- | | | |
|---|---|---|
| <p>EXTERIOR BUILDING SPECIFICATIONS</p> <ol style="list-style-type: none"> CREATIVE FAUX STONE AS PER OWNER'S SPECIFICATIONS. EPS SYSTEM [SPEC 07245] W/1" EPS BOARD OVER 5/8" DENSGLASS FIBERGLASS MAT GYPSUM SHEATHING W/CONTINUOUS WEATHER RESISTIVE BARRIER OVER 18 GA 6" METAL STUDS @ 16" O.C. PREFABRICATED CEFCO TOWER FW-2805 #28 BY JIMCO. GENERAL CONTRACTOR TO PROVIDE AND COORDINATE INSTALLATION. METAL PANEL 26 GAUGE R-PANEL. PAINT SHERWIN WILLIAMS SW6112 BISCUIT. MANSARD ROOF SPECIFICATIONS
36" / 54" FASCIA SYSTEM RED ACM FP-1 7" FASCIA SYSTEM YELLOW ACM FP-2. DOORS AND FRAMES
PAINT TO MATCH BUILDING, SHERWIN WILLIAMS | <p>FLASHING SPECIFICATIONS</p> <ol style="list-style-type: none"> SW6112 BISCUIT. DURO-LAST VINYL COATED METAL COPING, COLOR SW6112 BISCUIT. FROM DURO-LAST INC. 800-248-0280. COLLECTOR BOXES AND DOWNSPOUTS - BOTTOM 42". PAINT SW6115 TOTALLY TAN. TO MEET OR EXCEED ALL LOCAL, STATE AND FEDERAL CODES. COLLECTOR BOXES AND DOWNSPOUTS - ABOVE 42". PAINT SW6112 BISCUIT. TO MEET OR EXCEED ALL LOCAL, STATE AND FEDERAL CODES. ALUMINUM STOREFRONT FRAMING SYSTEM SIMILAR TO KAWNEER FA-SET S.S.G. WITH CLEAR GLAZING. 1" INSULATED GLAZING UNITS W/ LOW-E COATING. FRAME COLOR: PPG UC138643XL DURANAR XL RED. | <p>BUILDING SIGNAGE</p> <ol style="list-style-type: none"> INTERNALLY ILLUMINATED CAN SIGN WITH CEFCO LOGO. ACCESS LADDER SW6112 BISCUIT. PRE-FAB AWNING COLOR TO BE CHOSEN BY OWNER. BY JIMCO. CORNICE TRIM COLOR TO BE CHOSEN BY OWNER. SIGNAGE PROVIDED BY OTHERS. <p>GENERAL NOTES</p> <ol style="list-style-type: none"> GENERAL CONTRACTOR TO VERIFY ALL FINISHES WITH OWNER PRIOR TO CONSTRUCTION PRODUCT SUPPLIER TO SUBMIT COLOR / MATERIAL SAMPLES OF ALL MATERIALS TO OWNER |
|---|---|---|

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-A06.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
McLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

CEFCO
F2501-B SERIES
RIGHT FACING



2 SIDE ELEVATION
SCALE: 1/4"=1'-0"
RE: FLOOR PLANS

PROFESSIONAL SEAL

DATE SIGNED: 03-28-24
LICENSE EXP.: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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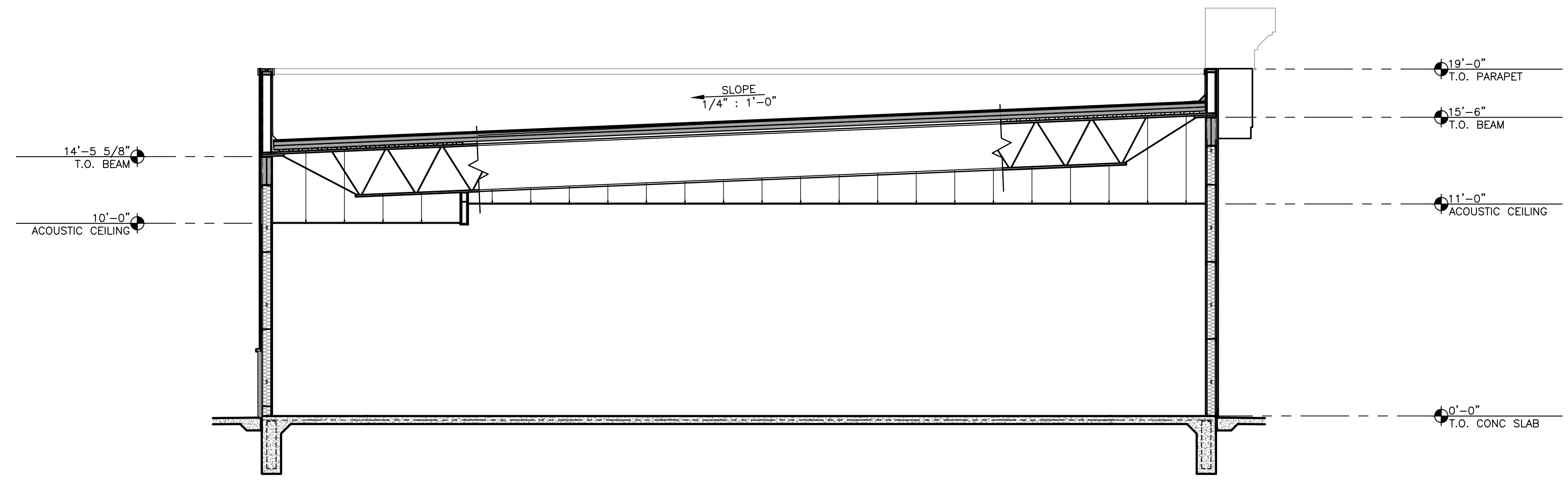
REVISIONS

NO.	DATE	DESCRIPTION

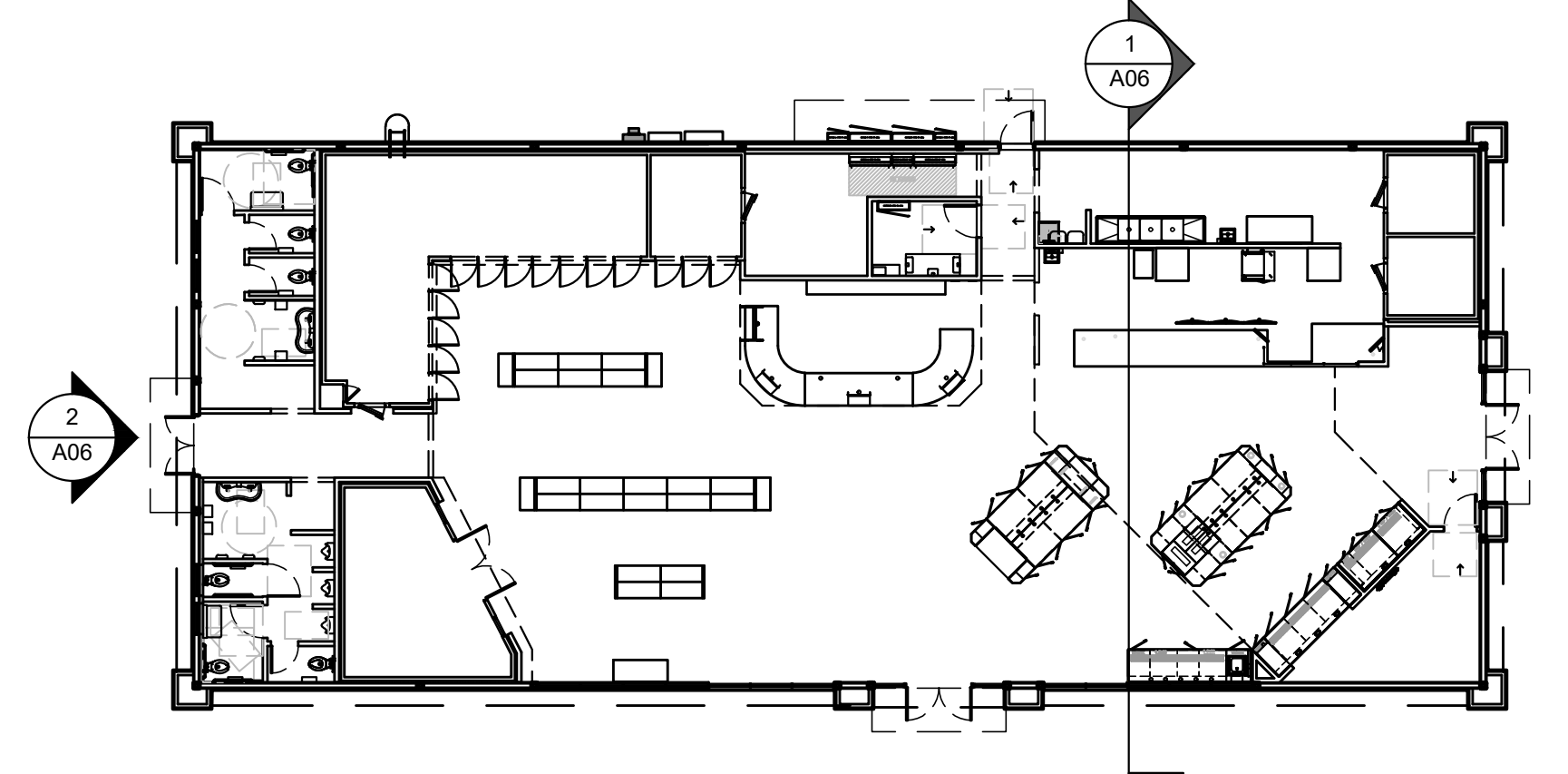
DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
BUILDING SECTION

DRAWING NUMBER
A06

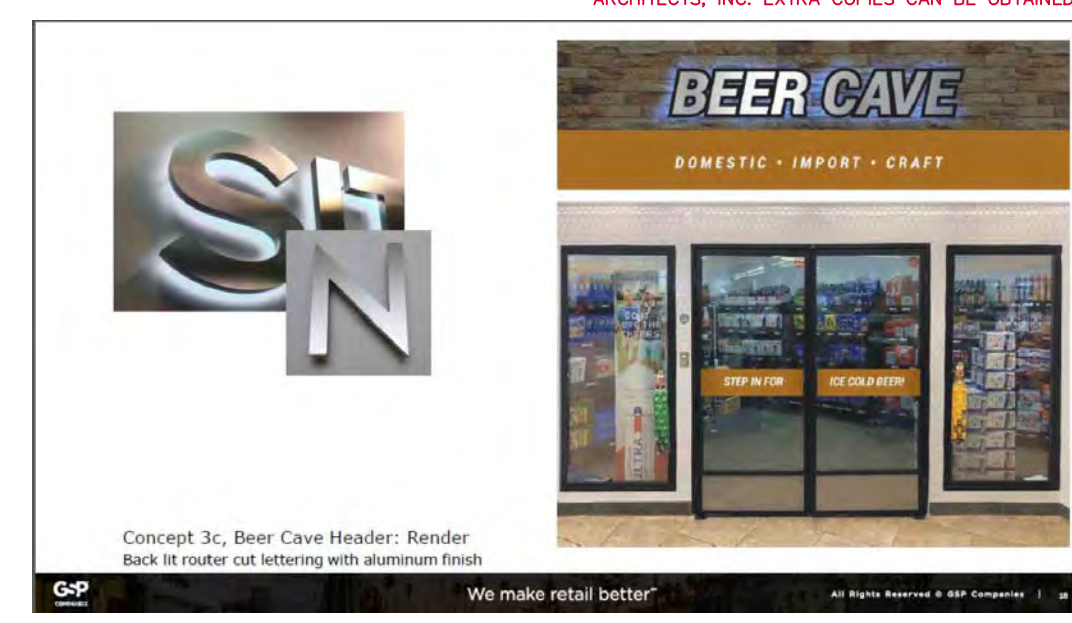


1 BUILDING SECTION
SCALE: 1/4"=1'-0"
RE: FLOOR PLANS



3 REFERENCE PLAN
SCALE: 1/2"=1'-0"
RE:

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BEER CAVE
99 x 18.5 in

6 BEER CAVE SIGNAGE



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

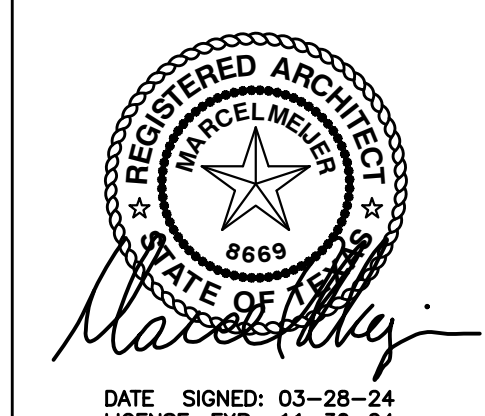
PROJECT NUMBER
CEF22-A06A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DRAWINGS ISSUED FOR:
09-09-20 MARCEL CAD
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11-10-20 PROGRESS PRINT
02-16-23 60% REVIEW SET
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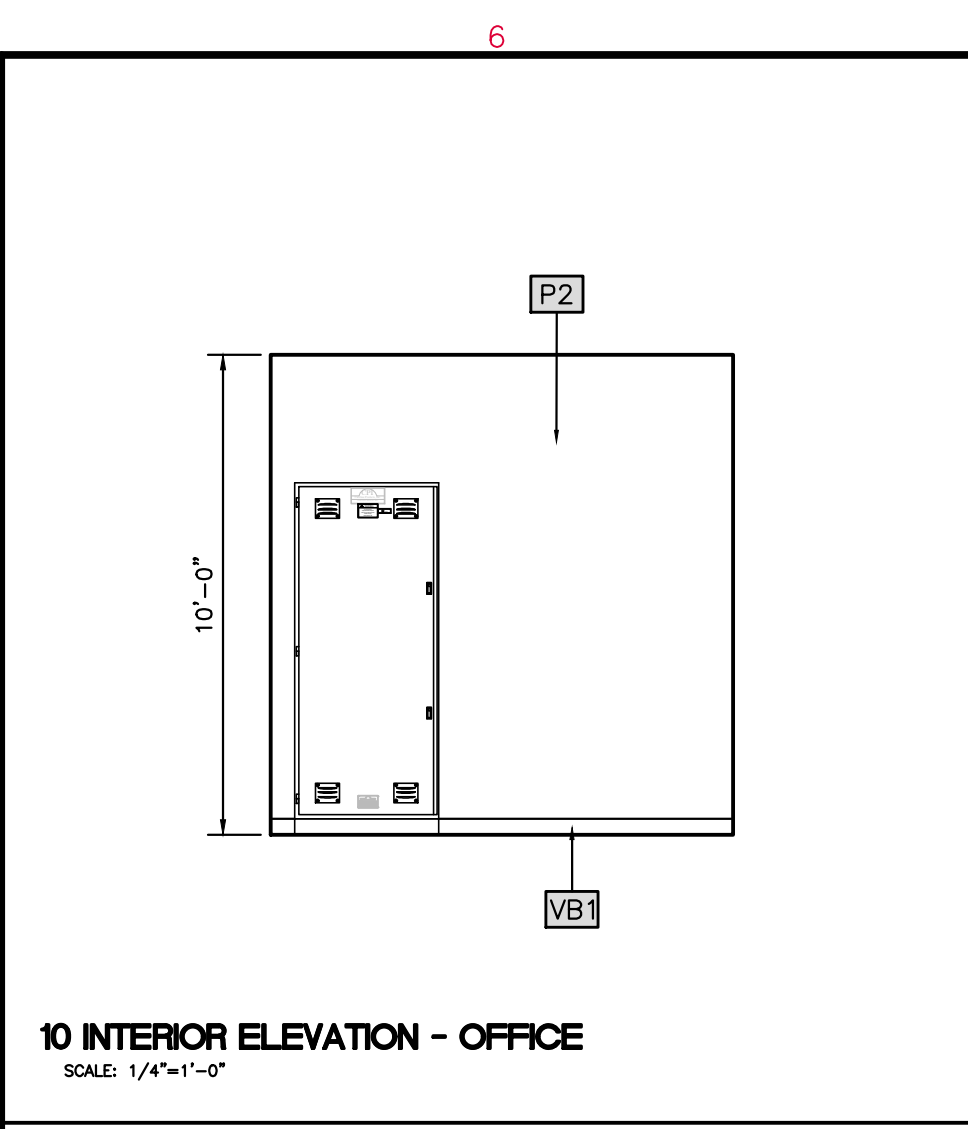
REVISIONS

NO.	DATE	DESCRIPTION

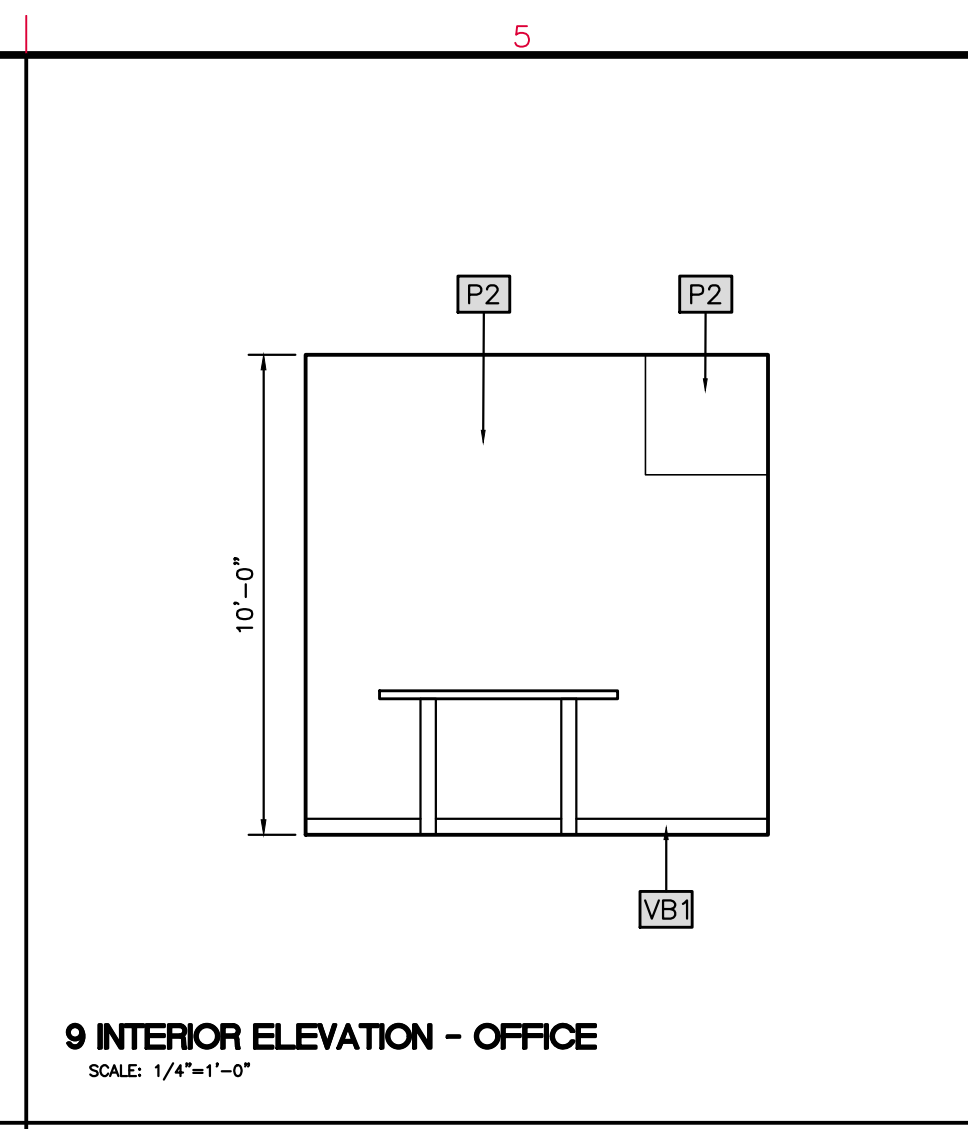
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SHEET TITLE
INTERIOR ELEVATIONS

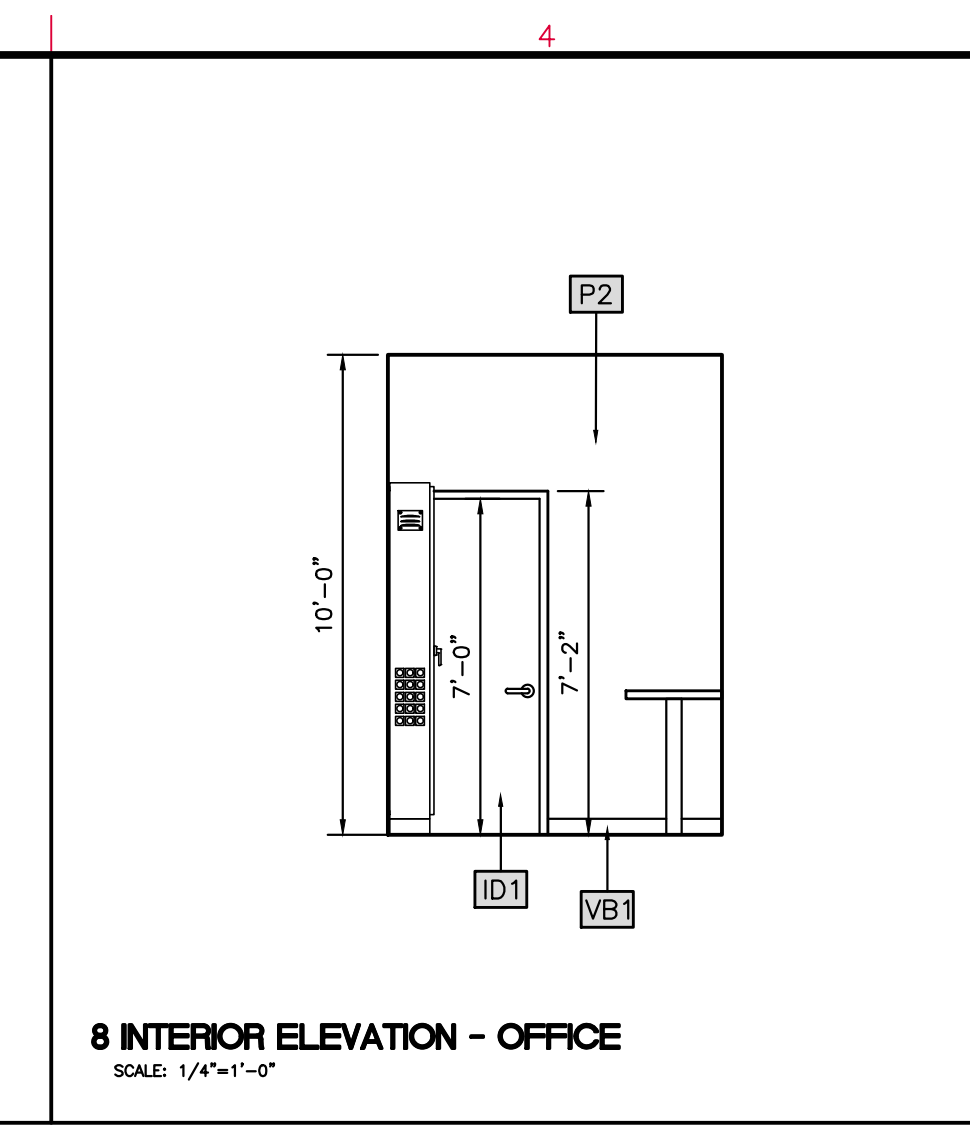
DRAWING NUMBER
A06A



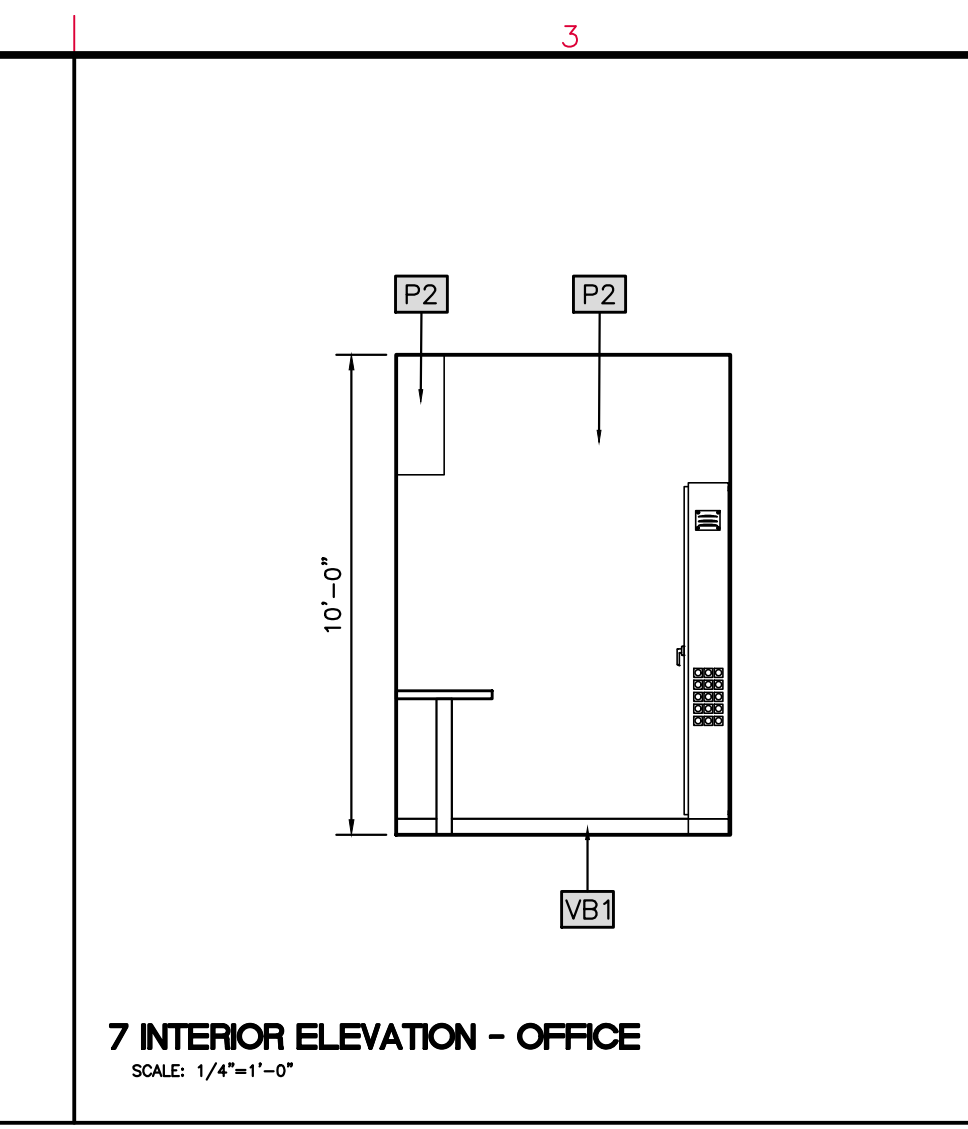
10 INTERIOR ELEVATION - OFFICE
SCALE: 1/4"=1'-0"



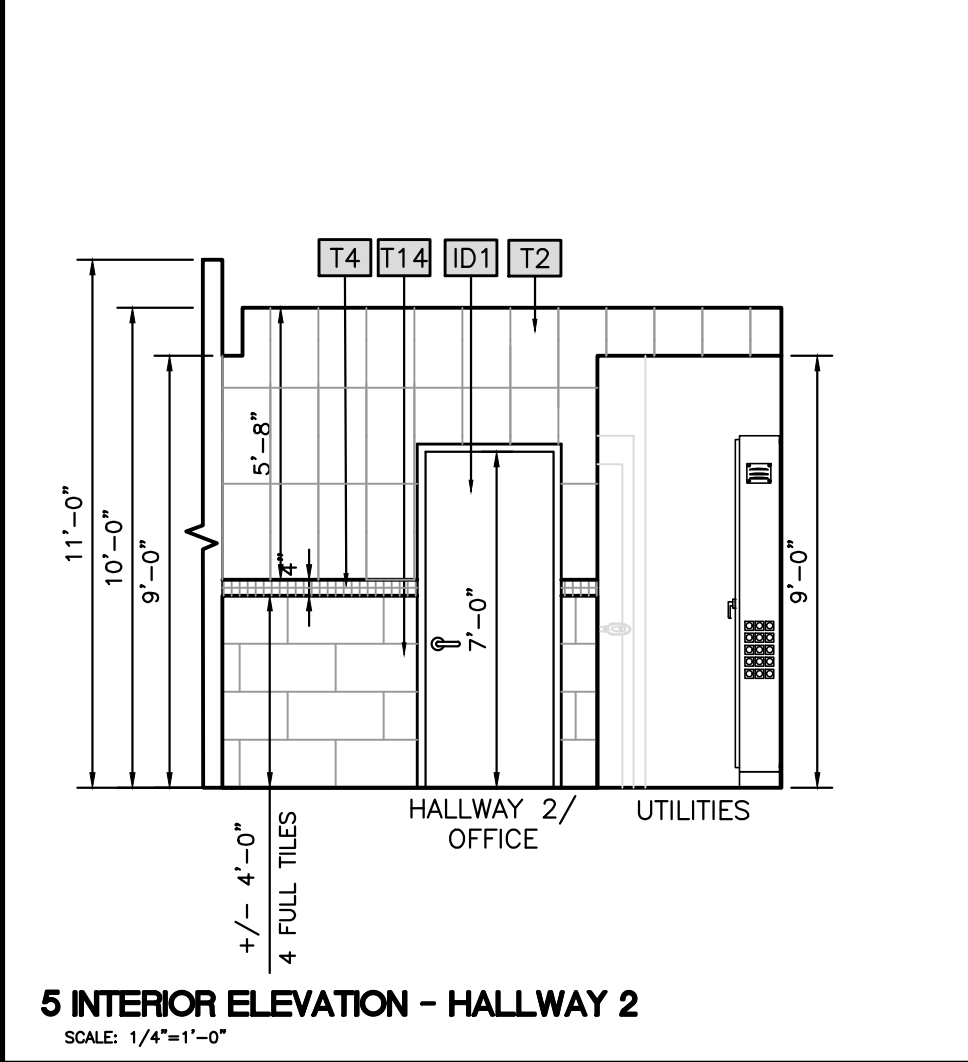
9 INTERIOR ELEVATION - OFFICE
SCALE: 1/4"=1'-0"



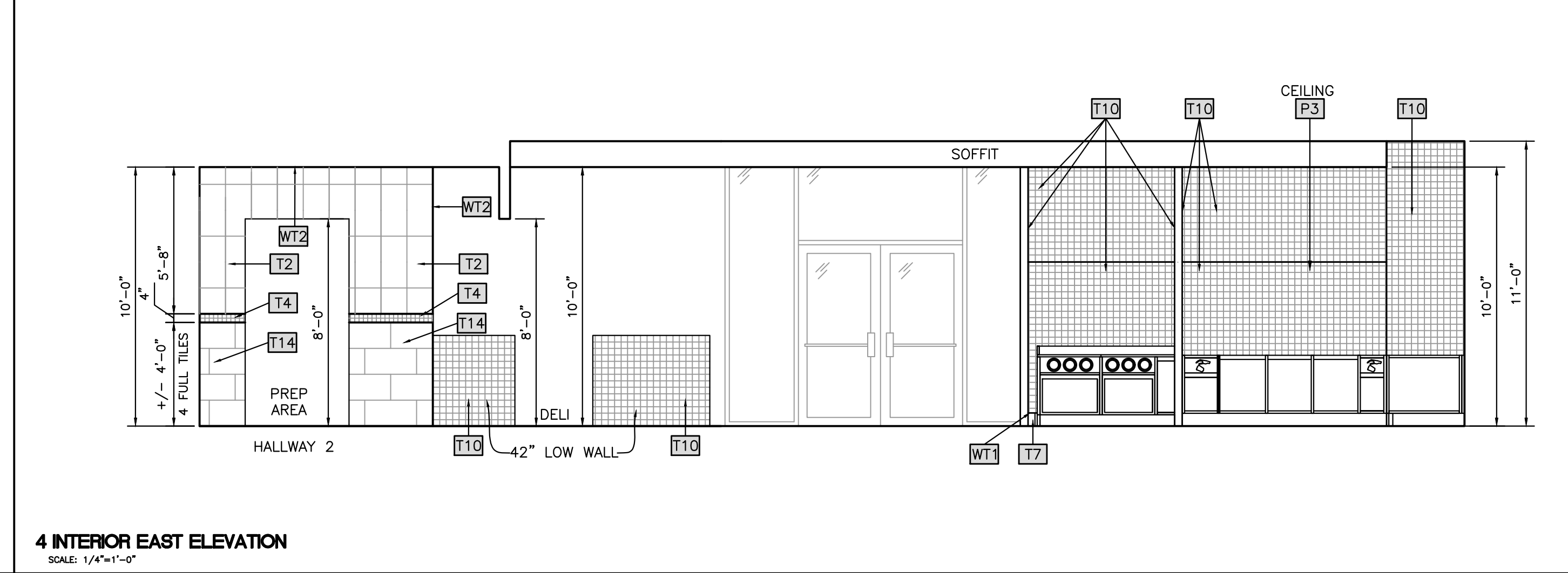
8 INTERIOR ELEVATION - OFFICE
SCALE: 1/4"=1'-0"



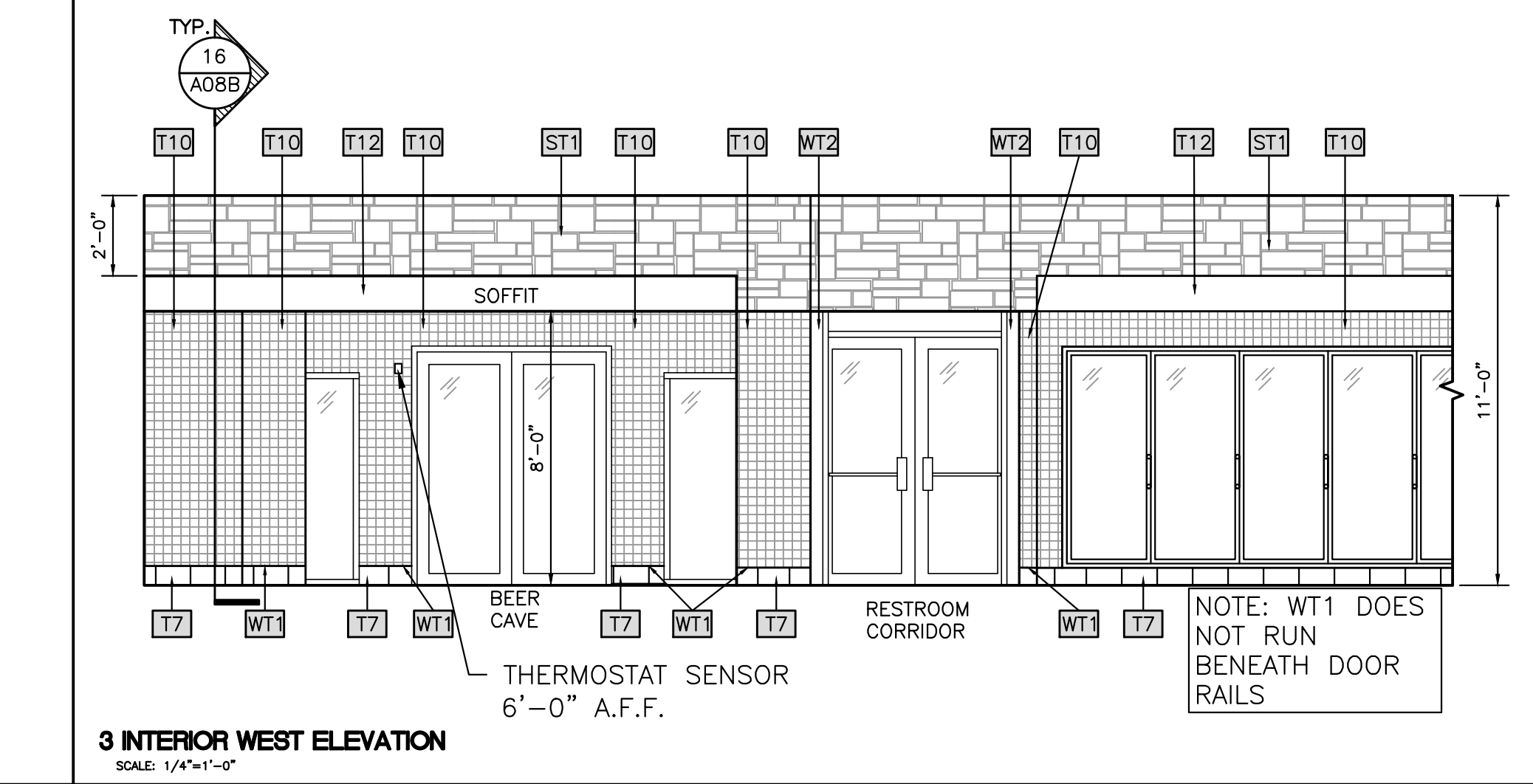
7 INTERIOR ELEVATION - OFFICE
SCALE: 1/4"=1'-0"



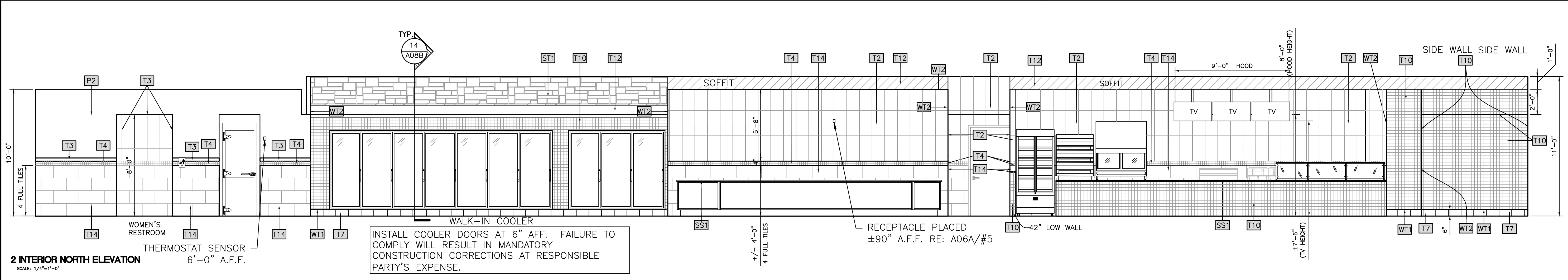
5 INTERIOR ELEVATION - HALLWAY 2
SCALE: 1/4"=1'-0"



4 INTERIOR EAST ELEVATION
SCALE: 1/4"=1'-0"



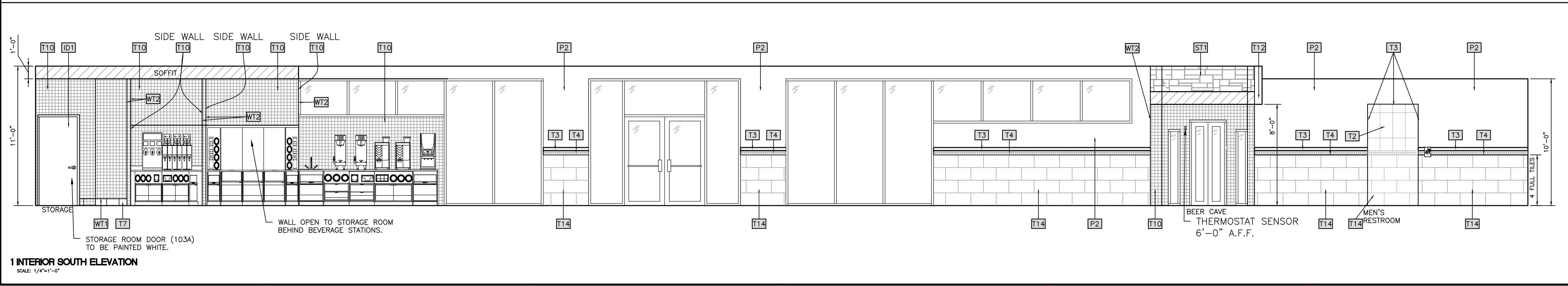
3 INTERIOR WEST ELEVATION
SCALE: 1/4"=1'-0"



2 INTERIOR NORTH ELEVATION
SCALE: 1/4"=1'-0"

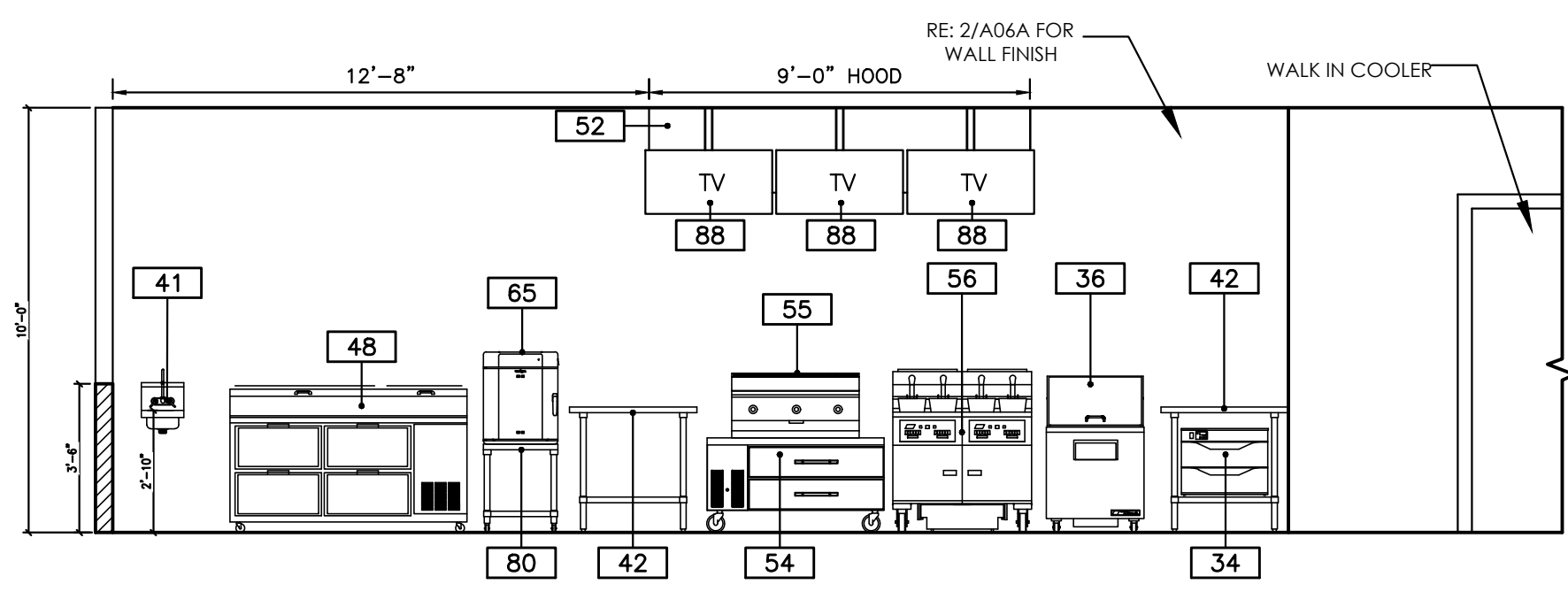
INSTALL COOLER DOORS AT 6" AFF. FAILURE TO COMPLY WILL RESULT IN MANDATORY CONSTRUCTION CORRECTIONS AT RESPONSIBLE PARTY'S EXPENSE.

RECEPTACLE PLACED ±90" A.F.F. RE: A06A/#5

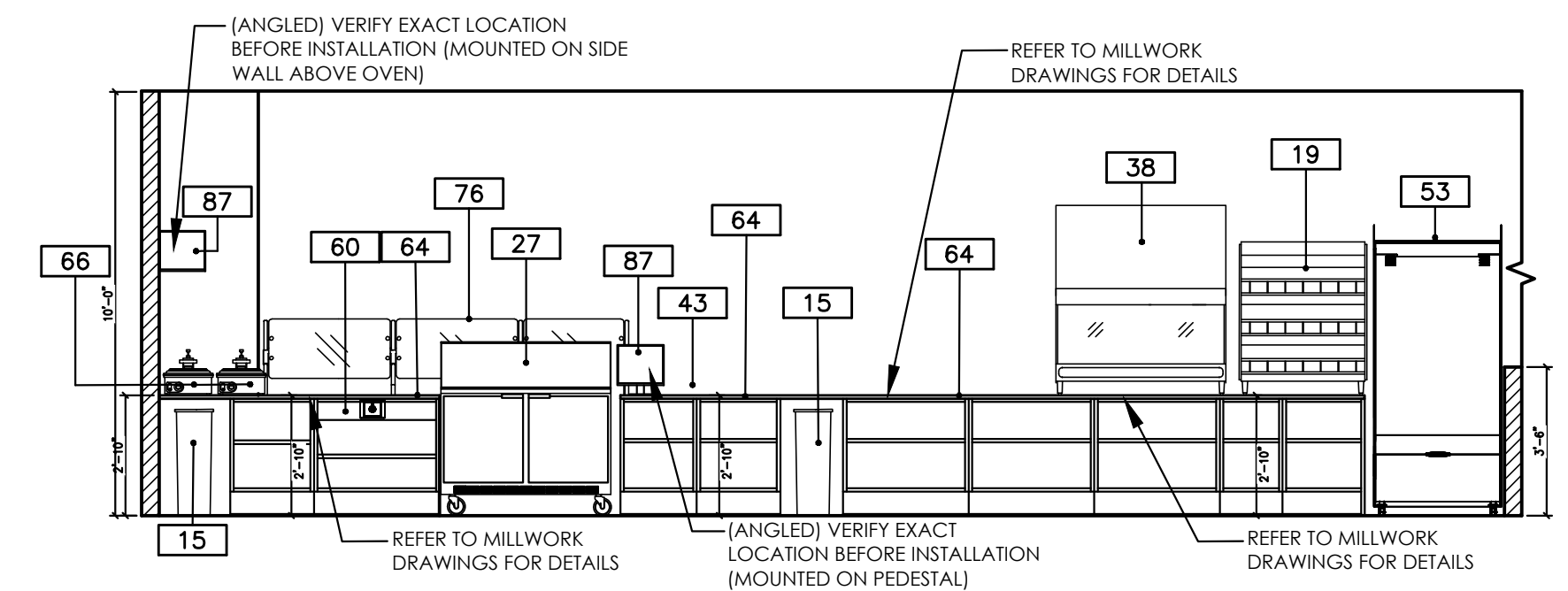


1 INTERIOR SOUTH ELEVATION
SCALE: 1/4"=1'-0"

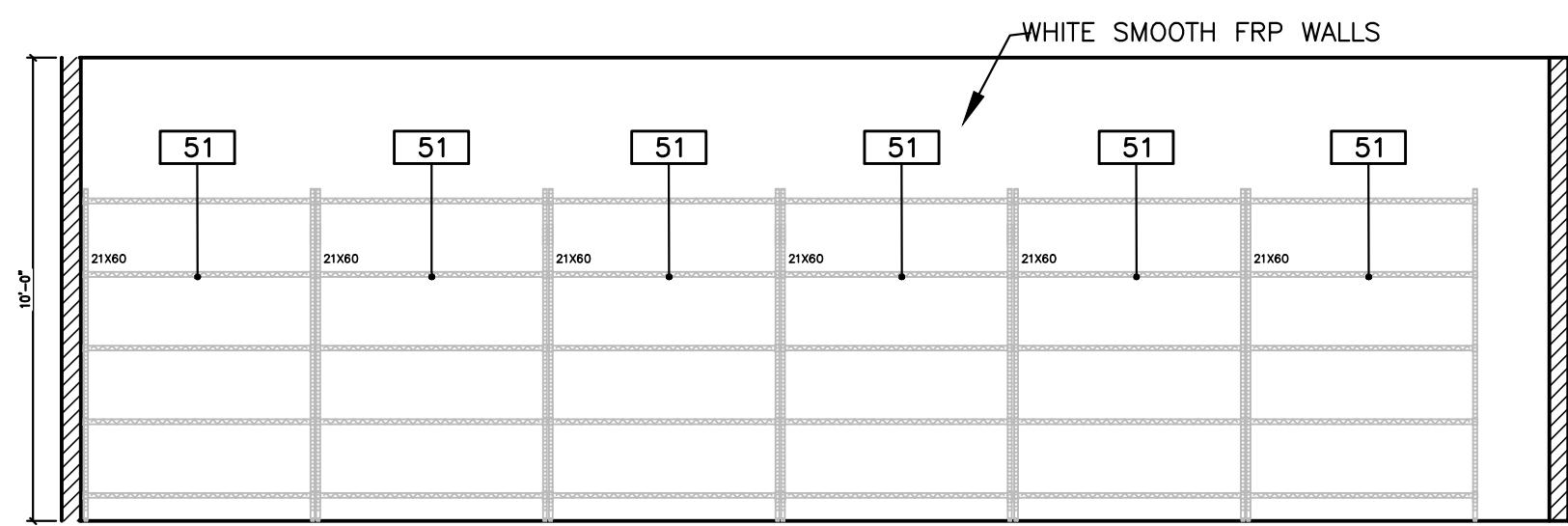
BEER CAVE THERMOSTAT SENSOR 6'-0" A.F.F.



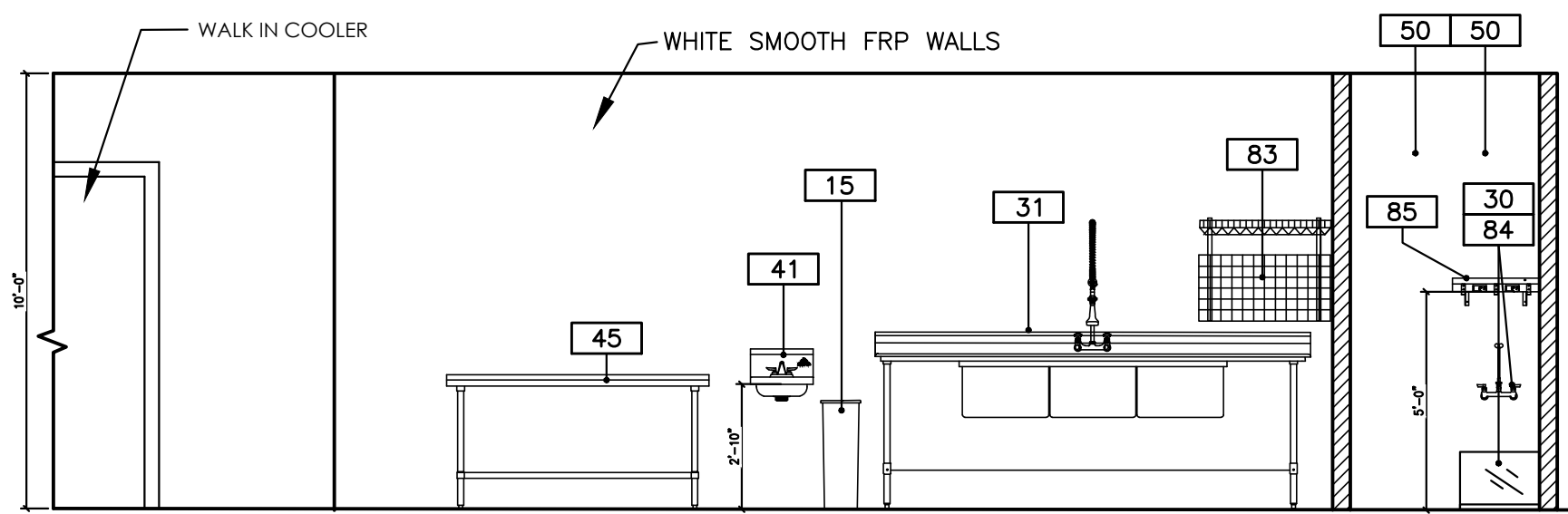
A - COOKLINE
SCALE: 1/4"=1'-0"



B - FRONT COUNTER - SERVICE SIDE
SCALE: 1/4"=1'-0"



C - DRY STORAGE
SCALE: 1/4"=1'-0"

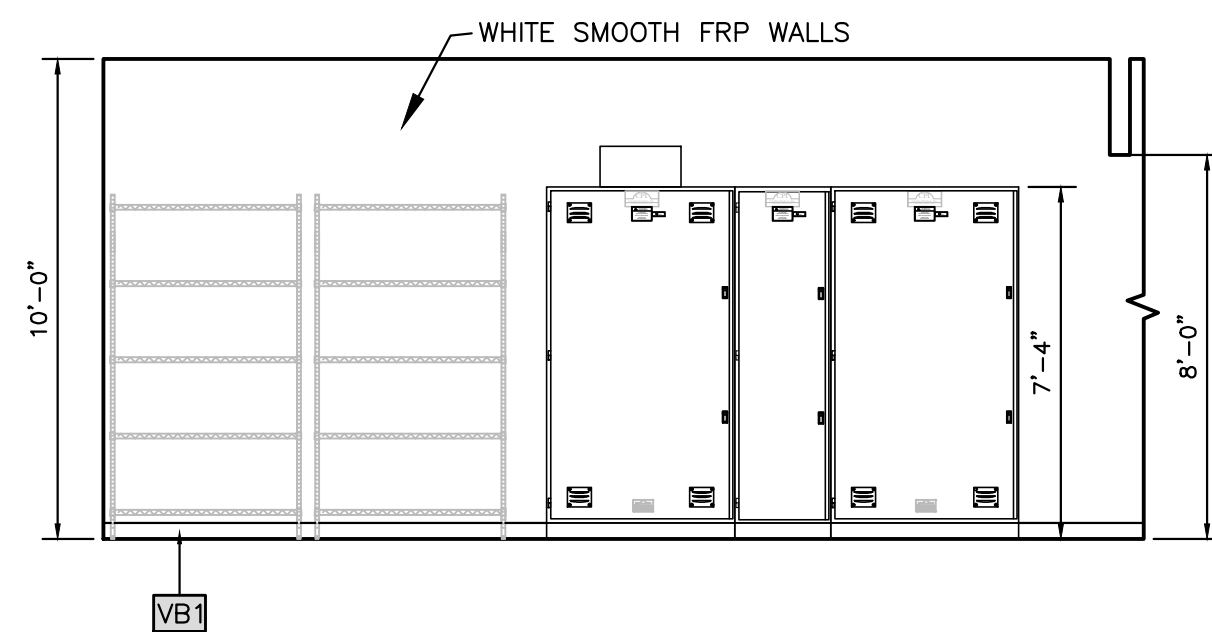


D - DISH AREA
SCALE: 1/4"=1'-0"

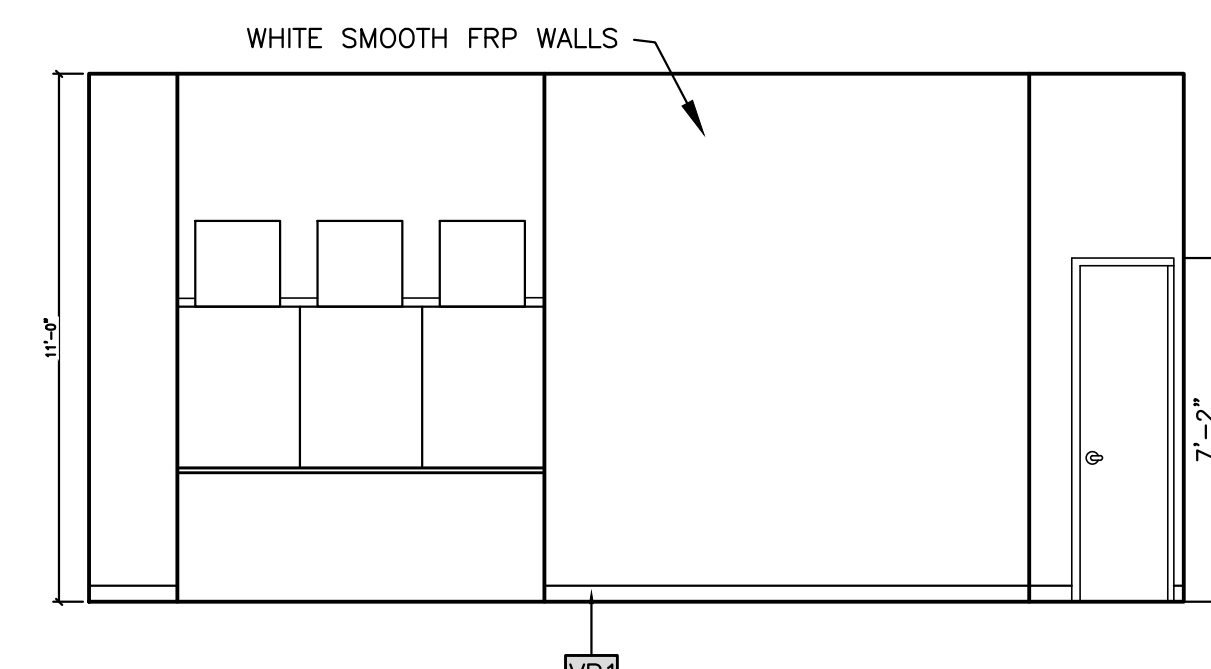
Equipment Schedule

Item No	Qty	Equipment Category	Manufacturer	Model Number
15	2	Trash Receptacle	Rubbermaid	FG354060BLA
19	1	Display Case, Heated, Countertop	Hatco	GRSDS-36T
27	1	Sandwich/Salad Prep Ref.	Kelvinator	KCHMT48.18
30	1	Sink, Mop	Advance Tabco	9-OP-24FM-SSR
31	1	3 Compartment Sink	Advance Tabco	FC-3-2424-24RL-X
34	1	Heated Low Temp Holding Cabinet	Alto-Shaam	500-2D
35	2	Customer Kiosk	By Owner	Custom
36	1	Sandwich/Salad Prep Ref.	Kelvinator	KCHMT29.12
38	1	Display Case, Heated, Countertop	Alto-Shaam	ED2-48-SS
41	2	Hand Sink, Wall Mount	Advance Tabco	7-PS-EC-SP-1X
42	2	Table, Work	Advance Tabco	KMSLAG-303-X
43	1	BOHA TERMINAL	TRANSACT	
45	1	Work Table	Advance Tabco	KMSLAG-306-X
48	1	Refrigerator, Pizza Prep	Kelvinator	KCHMT72.9
50	2	Tankless Gas Water Heater	Navien	NPE-240A2-NG
51	6	Shelving, Wire, Green Epoxy	Centaur	C2160K
52	1	Exhaust Hood	Captiveaire	Per Plan
53	1	Display Case, Heated, Floor Model	Alto-Shaam	HSM-36/5S/T
54	1	Refrigerated Chef Base	Kelvinator	KCHCB48R
55	1	Gas Griddle	Avantco	CAG-36-MG
56	1	Fryer Battery, W/Filter	Henny Penny	OGA322.0
60	1	Drop-In, Hot Wells	Alto-Shaam	300-HW/D6
64	1	Millwork, Front Counters	Custom Millwork	Per Plan
65	1	Vector Multi-Cook Oven	Alto-Shaam	VMC-H4
66	2	Flat tortilla Plate	Waring	WSC300
76	1	Glass Sneeze Guard	BY OTHERS	Per Plan
77	2	Drop-In Refrigeration	Alto-Shaam	100-CW
80	1	Vector Oven Stand	Alto-Shaam	VMC-H5028173
83	1	Wall Grid Shelving	Metro	SW36-1
84	1	Service Sink Faucet	Advance Tabco	K-240
85	1	Utility Shelf	Advance Tabco	K-245
87	2	22" KDS MONITOR	DELL	E2216HV
88	3	TV Screen		

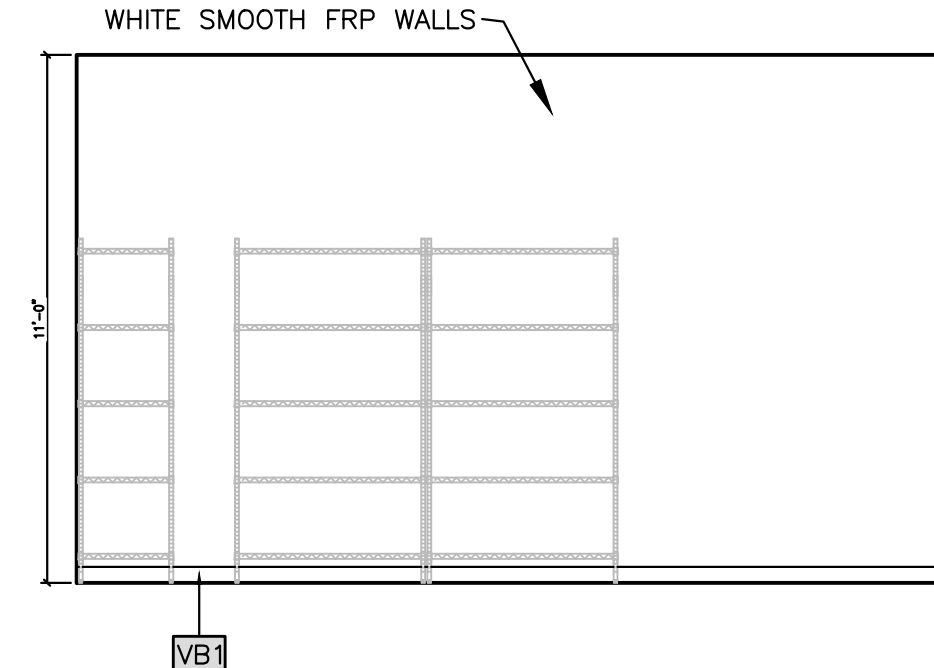
7 INTERIOR SOUTH ELEVATION
SCALE: 1/4"=1'-0"



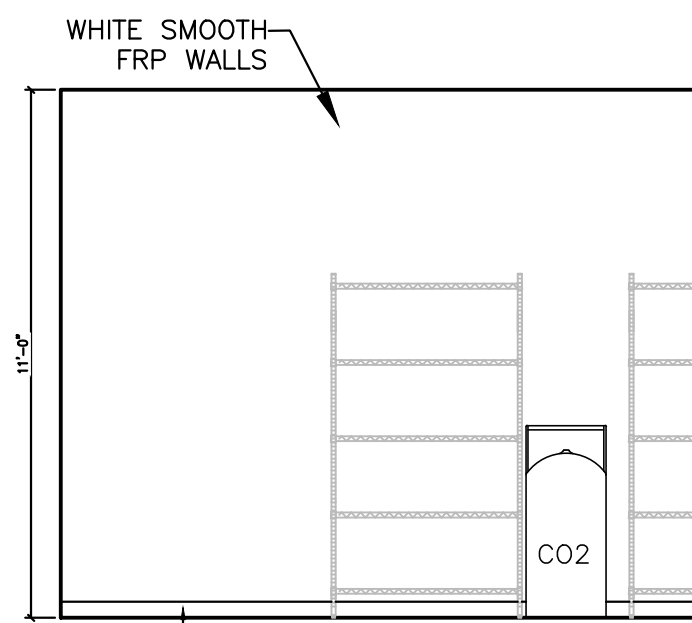
6 INTERIOR ELEVATION - UTILITY ROOM
SCALE: 1/4"=1'-0"



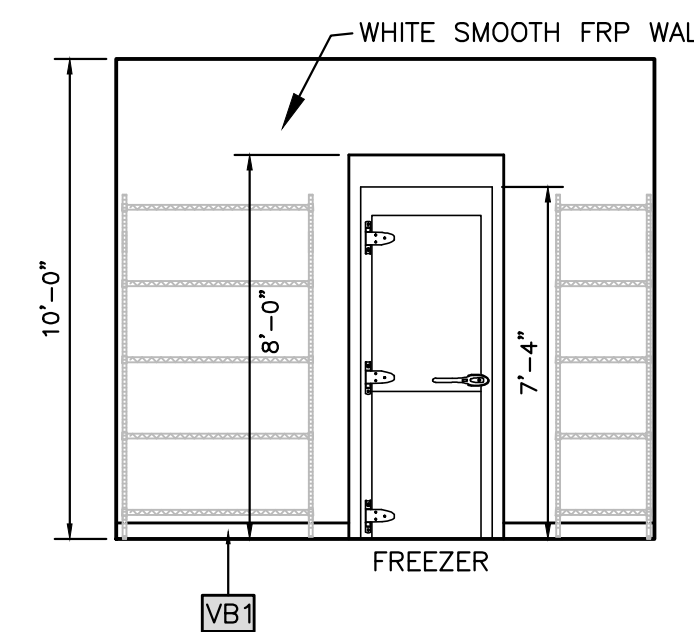
4 INTERIOR ELEVATION - STORAGE ROOM
SCALE: 1/4"=1'-0"



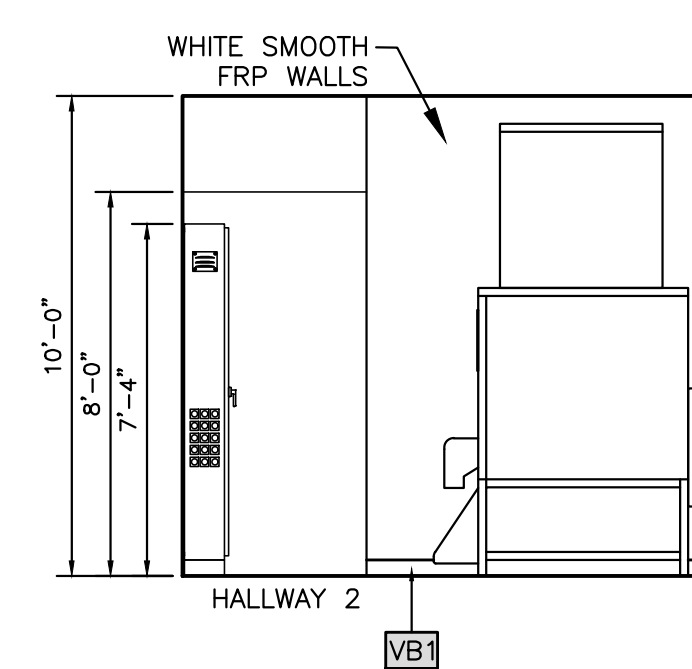
3 INTERIOR ELEVATION - STORAGE ROOM
SCALE: 1/4"=1'-0"



2 INTERIOR ELEVATION - STORAGE ROOM
SCALE: 1/4"=1'-0"



5 INTERIOR ELEVATION - UTILITY ROOM
SCALE: 1/4"=1'-0"



1 INTERIOR ELEVATION - UTILITY ROOM
SCALE: 1/4"=1'-0"

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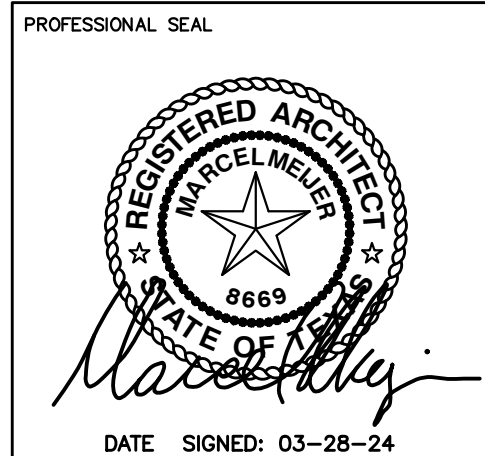
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-A06A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
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DATE SIGNED: 03-28-24
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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
KITCHEN/ADDITIONAL INTERIOR ELEVATIONS

DRAWING NUMBER
A06AA

INTERIOR FINISH MATERIALS LIST

FLOOR, BASE AND WALL TILE		SOLID SURFACE COUNTER TOP	
T1	RIDGEWOOD TAUPE RECTIFIED 24" X 24", MAPEI 5011 SAHARA BEIGE.	SS1	WILSON ART QUARTZ (COFFEE HOUSE Q6005 - 2 CENTIMETERS) APPROVED ALTERNATIVE: MOLTEN DFS1-400 (FROM BELLAVATI)
T2	LAVA SAND MATTE RECTIFIED, 12" X 24", MAPEI 5077 FROST	WALL BOARD (USED IN ALL STORAGE AREAS)	
T3	LAVA SAND BULL NOSE, 3" X 12", MAPEI 5077 FROST	WB1	AVONITE - 1/2" SOLID SURFACING - K3-8490-SATIN - COPPERMINE
T4	ELEGANT ELEMENTS SANDY CLIFF MATTE MOSAIC RANDOM STRIP, MAPEI 5077 FROST	INTERIOR DOORS	
T5	NOT USED	ID1	INTERIOR DOORS AND FRAMING TO BE PAINTED: SMOKEHOUSE #SW7040 EXCEPTION: DOOR 103A AND FRAME TO BE PAINTED WHITE.
T6	NOT USED	COOLER DOORS	
T7	ASSENT DARK GREY MATTE, 24" X 12" (FIELD CUT TO FIT BELOW REACH IN FRAMES), MAPEI 5101 RAIN	CD1	COOLER DOORS AND FRAMING TO BE FACTORY FINISHED WITH BLACK ON POLISHED ALUMINUM DECORATOR TRIM FINISH, AND VANGARD BRIGHT SILVER WITH BLACK HANDLES.
T8	NOT USED	EQUIPMENT & GONDOLA SHELVING	
T9	NOT USED	EQ	FACTORY PAINT ALL FLOOR MERCHANDISING EQUIPMENT WHITE.
T10	OMNI GLAZED MOSAIC WHITE MATTE MOSAIC HEXAGON 2" X 2", MAPEI 5101 RAIN	SH	SHELVING USED ON INTERIOR STORE DESIGN IS BY LOZIER STORE FIXTURES, INCORPORATED. FACTORY PAINT ALL GONDOLA SHELVING BLACK.
T11	NOT USED	MENU BOARD	
T12	12" BREAK METAL 25 GA. COLOR TO BE POWER COAT YELLOW ACM FP-2 OR EQUAL	MB1	MI - (3) PANEL INTERNALLY ILLUMINATED MENU BOARD SYSTEM. MENU BOARD IF REQUIRED IS "MAINSTREET" BRAND.
T13	EPOXY COATED FLOOR SYSTEM BY FLOWCRETE-FLOWFRESH SL, COLOR IS MID GRAY	FLOOR TRANSITION	
T14	RIDGEWOOD TAUPE RECTIFIED 24" X 12", MAPEI 5011 SAHARA BEIGE	FT-1	FLOOR TRANSITION BAR RENO-RAMP K SCHLUTER
VINYL BASE		GENERAL NOTES	
VB1	4" VINYL COVE BASE, COLOR: GRAY - TO MATCH SEALED CONCRETE BY RUBBERMITE - MANUFACTURED BY BURK-MERCER.	<ol style="list-style-type: none"> USE "EVERCLEAN" FLAT LATEX PAINT ON ALL PAINTED INTERIOR WALL SURFACES. USE CLEAR PLEXIGLASS WALL CORNER GUARDS IN ALL HI-TRAFFIC AREA. CHANNEL ALL ELECTRICAL COMPONENTS FOR DECORATIVE LIGHTING TO NOT BE VISIBLE TO STORE CUSTOMER'S VIEW. G.C. TO VERIFY ALL FINISHES WITH OWNER PRIOR TO CONSTRUCTION. G.C. TO SUBMIT COLOR SAMPLES OF ALL MATERIALS TO OWNER FOR APPROVAL. ALL DOOR KICK PLATES TO MATCH DOOR HARDWARE. ALL DOOR HARDWARE TO BE BRUSHED ALUMINUM FINISH UNLESS OTHERWISE NOTED. SEE SHEET A08A FOR DOOR SCHEDULE AND FINISHES. 	
FLOOR TILE NOTES:		GRAPHIC DETAILS	
<ol style="list-style-type: none"> ALL WALL TILE TO BE REINFORCED WITH MOISTURE RESISTANT COVERED GYPSUM BOARD. AREAS INCLUDED: RESTROOMS, COOLER, AND BEVERAGE AREAS. RESTROOM AREA - USE CEMENT BOARD BACKING IN ALL WET AREAS UP TO 48" AFF. USE MOISTURE RESISTANT COVERED GYPSUM BOARD ABOVE CEMENT BOARD. USE PRE-MANUFACTURED CORNER TILE PIECE OF BULL NOSE AS REQUIRED ON ALL EXPOSED CORNERS ON FLOOR BASE AND WALLS. 		1D	1/2" WOOD SIGN TO BE CONSTRUCTED WITH CHAIN ACCENTS ON TOP AND BOTTOM. SURFACE TO BE L1.
WALL COVERING: PAINT		2D	MEN'S AND WOMEN'S RESTROOM SYMBOLS TO BE ON SIGN. REFERENCE ELEVATIONS FOR DIMENSIONS. COLOR OF SYMBOLS - BLACK.
P1	SHERWIN-WILLIAMS #SW7582 SALUTE, EGGSHELL	3D	1/2" SOFFIT TO EXTEND 8" FROM WALL PAINTED P4 AND CEFCO GREEN.
P2	SHERWIN-WILLIAMS #SW7035 AESTHETIC WHITE	4D	CEFCO LOGO TO BE PRINTED AND APPLIED TO VERTICAL SURFACE.
P3	SHERWIN-WILLIAMS #SW7709 COPPER POT, EGGSHELL	5D	1/2" WOOD SIGN TO BE CONSTRUCTED SUSPENDED FROM CEILING BY CHAIN. SURFACE TO BE L1.
P4	SHERWIN-WILLIAMS #SW6898 SOCIAL BUTTERFLY, EGGSHELL	6D	FRESH EATS DELI TO BE SIGN IN FONT STYLE "ADOBE GARAMOND PRO". FONT COLOR: GOLDENROD YELLOW.
P5	SHERWIN-WILLIAMS WHITE, EGGSHELL	7D	LIFESTYLE IMAGES TO BE PRINTED AND FRAMED.
P6	SHERWIN-WILLIAMS #SW6108 LATTE, EGGSHELL	8D	NOT USED
P7	SHERWIN-WILLIAMS #SW6825 IZMIR PURPLE	9D	NOT USED
WALL COVERING: STONE		10D	NOT USED
ST1	FAUX STONE VENEER - CREATIVE SONE CEFCO RUSTIC RUBBLE	11D	NOT USED
MILLWORK LAMINATES		12D	NOT USED
L1	LAMINATED PLASTICS BY FORMICA #758-58 BLOSSOM CHERRYWOOD	13D	NOT USED
L2	LAMINATED PLASTICS BY FORMICA #909-SP BLACK	14D	NOT USED
L3	LAMINATED PLASTICS BY FORMICA #448 FEATHERED COPPER	15D	NOT USED
L4	LAMINATED PLASTICS BY FORMICA #3517-58 SAND CRYSTAL	16D	NOT USED
L5	LAMINATED PLASTICS BY FORMICA #5488-NT SMOKY BROWN PEAR	17D	NOT USED
L6	LAMINATED PLASTICS BY FORMICA #444 FEATHERED ALUMINUM	18D	NOT USED
SOFFIT EDGE WILL HAVE SCHULTER-RONDEC (AE) WITH SCHIENE RADIUS SCHLUTER (AE) FOR ALL RADIUS EDGES. (ABOVE SALES COUNTER)		19D	GRAPHIC ON WALL
WALL TRANSITION		WALL COVERING: VINYL GRAPHIC	
WT1	ALUMINUM SCHLUTER STRIP - AHK-1S1100 AE - TBD BY OWNER.	V1	VINYL GRAPHIC - BY OWNER
WT2	ALUMINUM SCHLUTER STRIP - VERTICAL 90 DEGREE 1" - TBD BY OWNER.	WALL CORNER USE RONDEC R060AE AT BATHROOM AND BEVERAGE AREA	
		SCHLUTER DILEX IS TO BE USED AT ALL AREAS WHERE TILE IS SHOWN. RE:A02B	
VERIFY WITH OWNER			



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I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE
INTERIOR ELEVATIONS MATERIAL LIST

DRAWING NUMBER
A06B

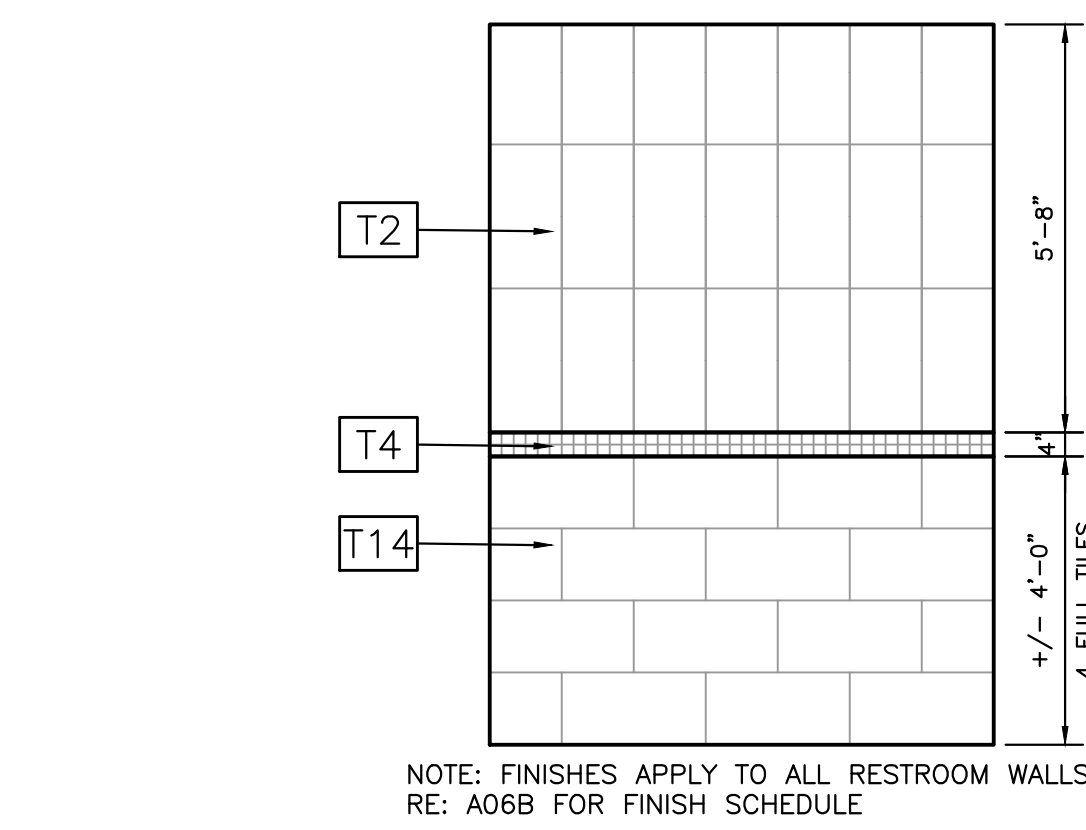
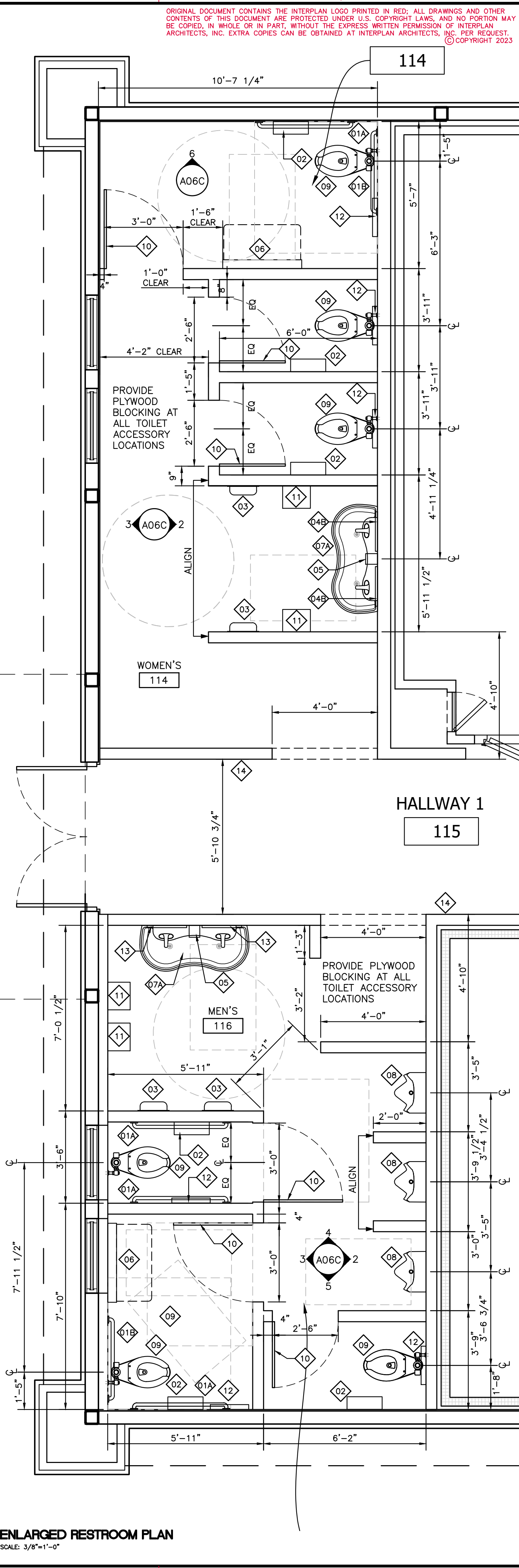
ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	FURNISHED BY	INSTALLED BY	NOTES
01	A - GRAB BAR 42"	BOBRICK	B-6806 X 42	G.C.	G.C.	1-1/2" DIAMETER
	B - GRAB BAR 36"	BOBRICK	B-6806 X 36	G.C.	G.C.	1-1/2" DIAMETER
	C - GRAB BAR 24"	BOBRICK	B-6806 X 24	G.C.	G.C.	1-1/2" DIAMETER
02	TOILET TISSUE DISP. DOUBLE, SURFACE MOUNTED	KIMBERLY-CLARK	09507	OWNER	G.C.	
03	HAND DRYER	WORLD DRYER CORP.	VERDEDRI 0-973A	ELECT. CONTRACT.	G.C.	SURFACE MOUNTED. VERIFY WITH OWNER FOR SOLID SURFACE FINISH (BEHIND DRYERS)
04	A - MIRROR ANGLE FRAME	BOBRICK	B-165 2448	G.C.	G.C.	40" MAX TO BOTTOM OF REFLECTIVE SURFACE
	B - MIRROR ANGLE FRAME	BOBRICK	B-165 1836	G.C.	G.C.	40" MAX TO BOTTOM OF REFLECTIVE SURFACE
05	SOAP DISPENSER, WALL MOUNTED	SCOTT	92145	OWNER	G.C.	
06	SURFACE MOUNTED BABY CHANGER	KOALA KARE	KB300-SS	G.C.	G.C.	COLOR: EARTH
07A	LAVATORY - 2 BAY	SLOAN	ELS-72000	G.C.	G.C.	
07B	GRID DRAIN FAUCET	KOHLER	K-13462	G.C.	G.C.	ELECTRIC SENSOR AND MIXER
	LAVATORY - 3 BAY	SLOAN	ELS-73000	G.C.	G.C.	
07C	GRID DRAIN FAUCET	KOHLER	K-13462	G.C.	G.C.	ELECTRIC SENSOR AND MIXER

08	URINAL	AMERICAN STANDARD	6590001.020	G.C.	G.C.	
	FLUSH VALVE	SLOAN	3370443	G.C.	G.C.	EXPOSED SENSOR HARDWIRED WATER CLOSET FLUSHOMETER
	TOILET	ZURN	Z5665-BWL1	G.C.	G.C.	ZURN FLOOR MOUNT TOILET BOWL
09	FLUSH VALVE	ZURN	ZEM56000AV-H ET	G.C.	G.C.	EXPOSED SENSOR HARDWIRED OPERATION FLUSH VALVE
	TOILET SEAT	MAINLINE	ML 1055SSC000	G.C.	G.C.	WHITE ELONGATED OPEN FRONT SEAT
10	COAT HOOK	BOBRICK	B-233	G.C.	G.C.	MOUNT ON INSIDE OF EACH STALL DOOR
11	PAPER TOWEL DISPENSER	KIMBERLY-CLARK	09996	OWNER	G.C.	SCOTT SLIMFOLD TOWEL DISPENSER
12	SURFACE MOUNT SANITARY SEAT COVER DISPENSER	SCOTT	09506	OWNER	G.C.	
13	TILTED MIRROR	AMERICAN SPECIALTIES, INC.	18" X 36"	G.C.	G.C.	18" X 36" - MOUNT 40" TO THE BOTTOM OF THE REFLECTIVE SURFACE
14	ACCESSIBLE RESTROOM SIGNAGE	-	-	G.C.	G.C.	NON-GLARE MATTE FINISH, COMPLIANT FONT AND TACTILE 1/32" LETTERS AND SYMBOLS. SEE 1/A06D FOR MORE INFORMATION.

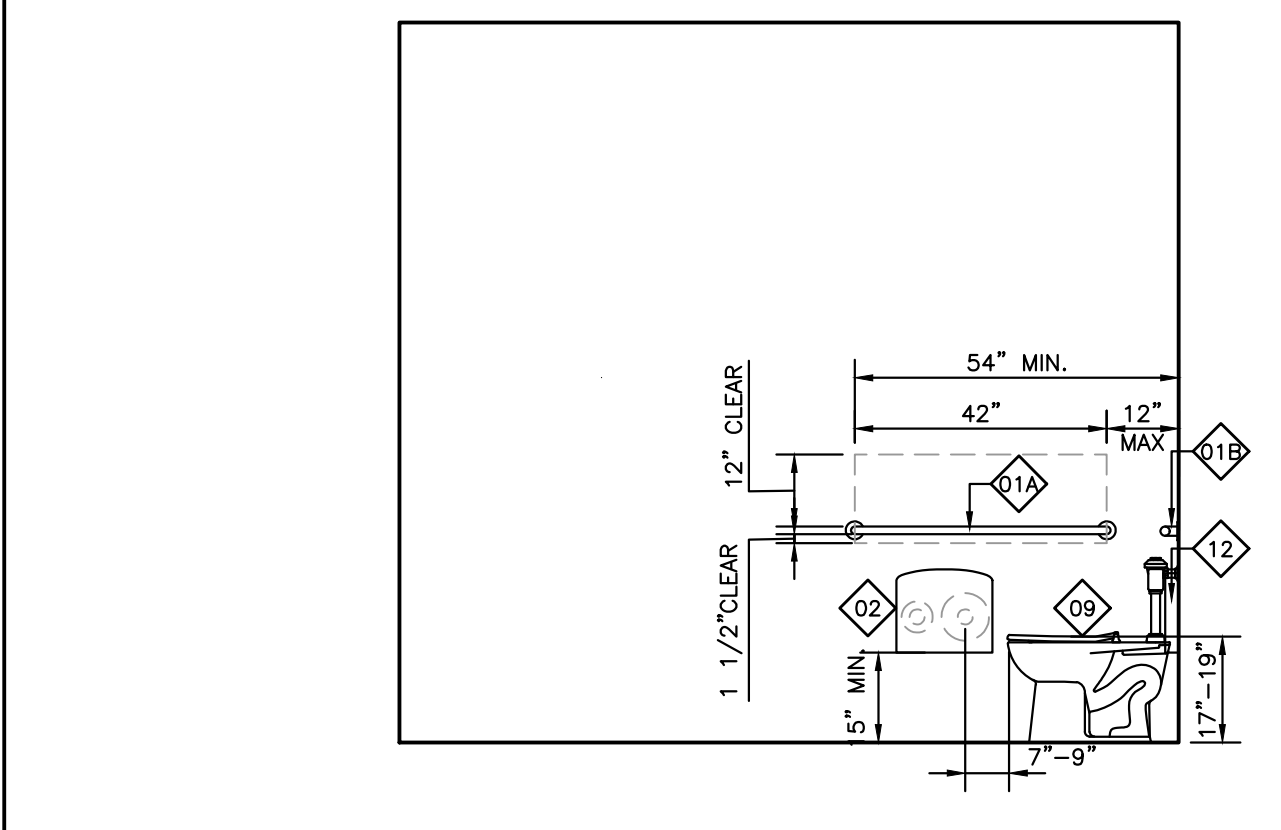
NOTE: SEE 7/A06C FOR TYPICAL RESTROOM WALL FINISHES. REFERENCE A06B FOR ADA DETAILS AND MOUNTING HEIGHTS.

UNLESS NOTED OTHERWISE, ALL CUSTOMER USE DOORS TO HAVE A BLANK EXTERIOR WITH AN ADA APPROVED THUMB TURN LOCKSET INTERIOR. VERIFY WITH OWNER ON ALL DOOR HARDWARE REQUIRED.

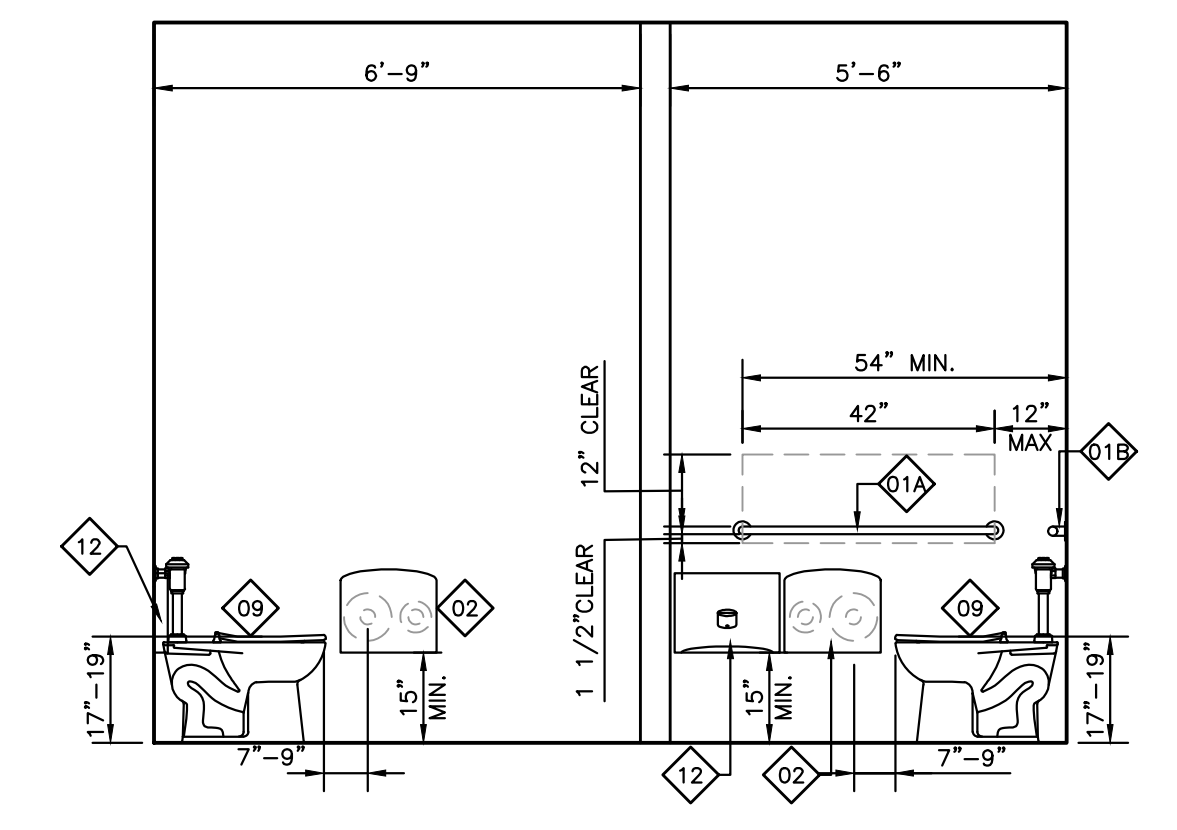
PROVIDE APPROPRIATE BLOCKING FOR ALL TOILET ACCESSORY LOCATIONS SUCH AS TOILET TISSUE DISPENSERS, PAPER TOWEL DISPENSERS, SOAP DISPENSERS, HAND DRYERS, ETC.



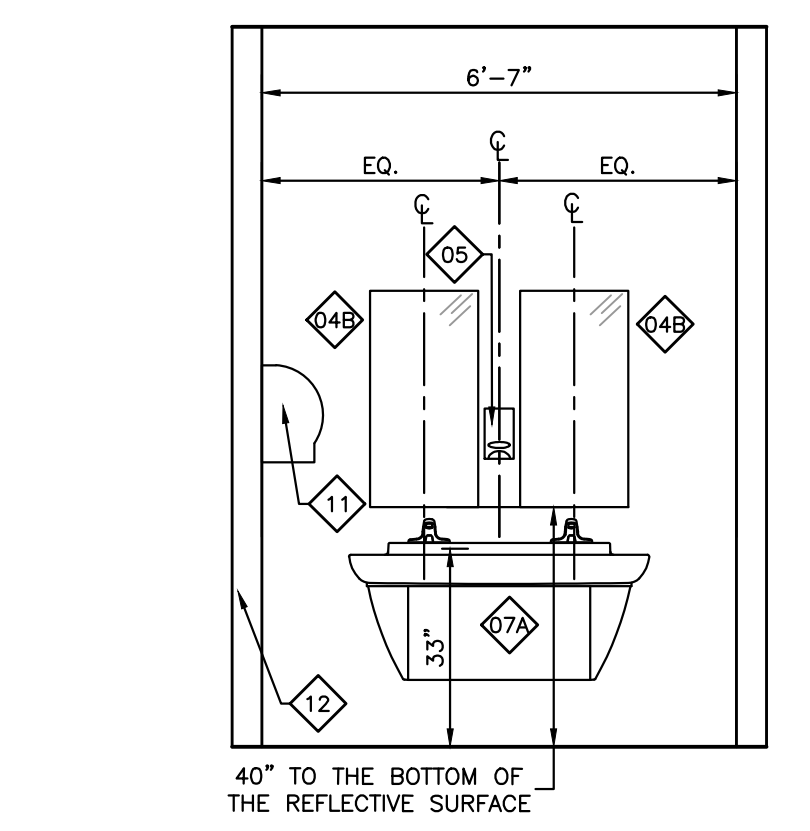
7 RESTROOM WALL FINISHES
SCALE: 3/8"=1'-0"



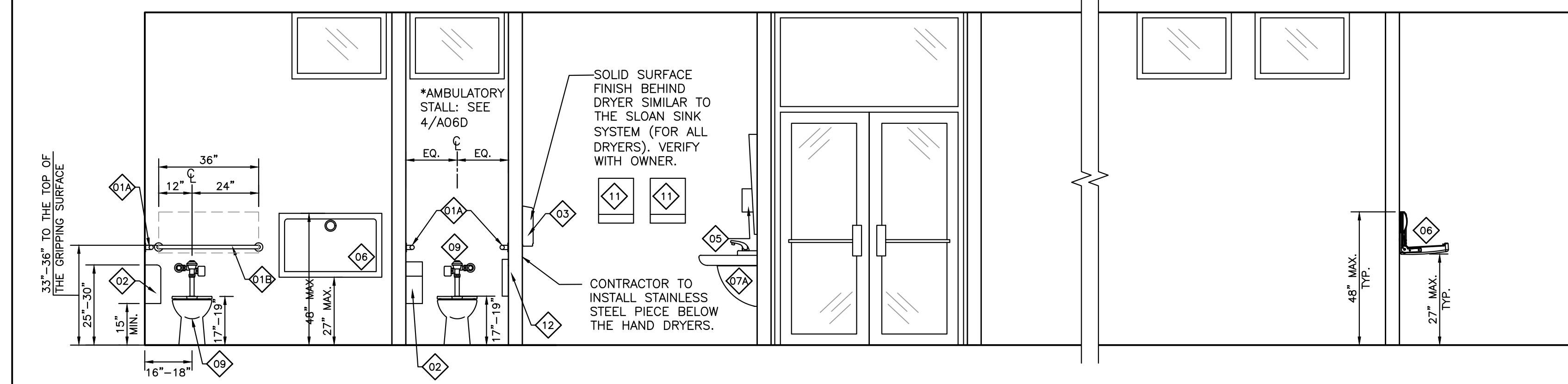
6 INTERIOR ELEVATION
SCALE: 3/8"=1'-0"



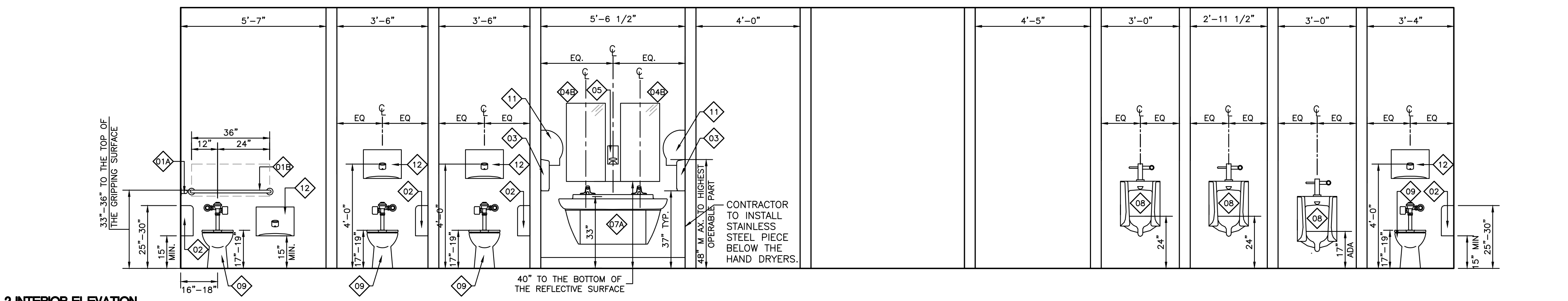
5 INTERIOR ELEVATION
SCALE: 3/8"=1'-0"



4 INTERIOR ELEVATION
SCALE: 3/8"=1'-0"



3 INTERIOR ELEVATION
SCALE: 3/8"=1'-0"



2 INTERIOR ELEVATION
SCALE: 3/8"=1'-0"



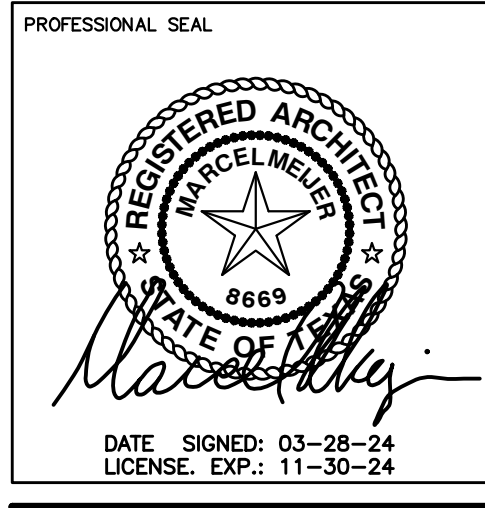
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-A06C.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
F2501-B SERIES
RIGHT FACING

1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



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SHEET TITLE
ENLARGED RESTROOM PLANS AND INTERIOR ELEVATIONS

DRAWING NUMBER
A06C

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PLANNING ARCHITECTURE INTERIORS
281-398-2020

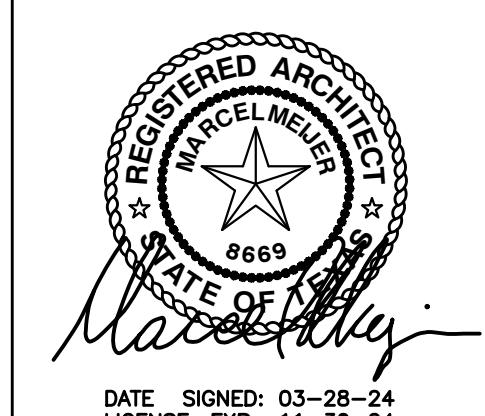
PROJECT NUMBER
CEF22-A06D.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
LICENSE EXP.: 11-30-24

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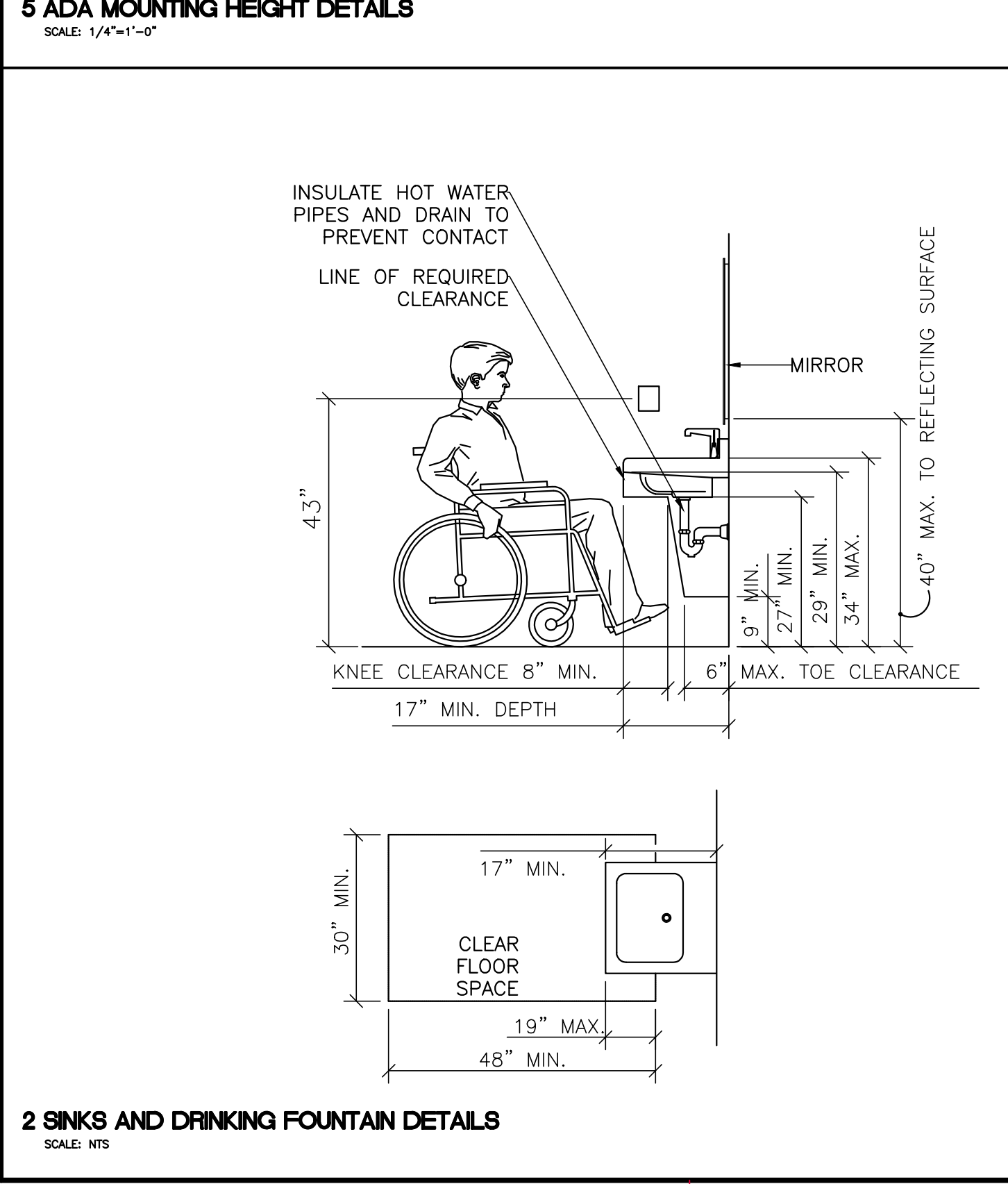
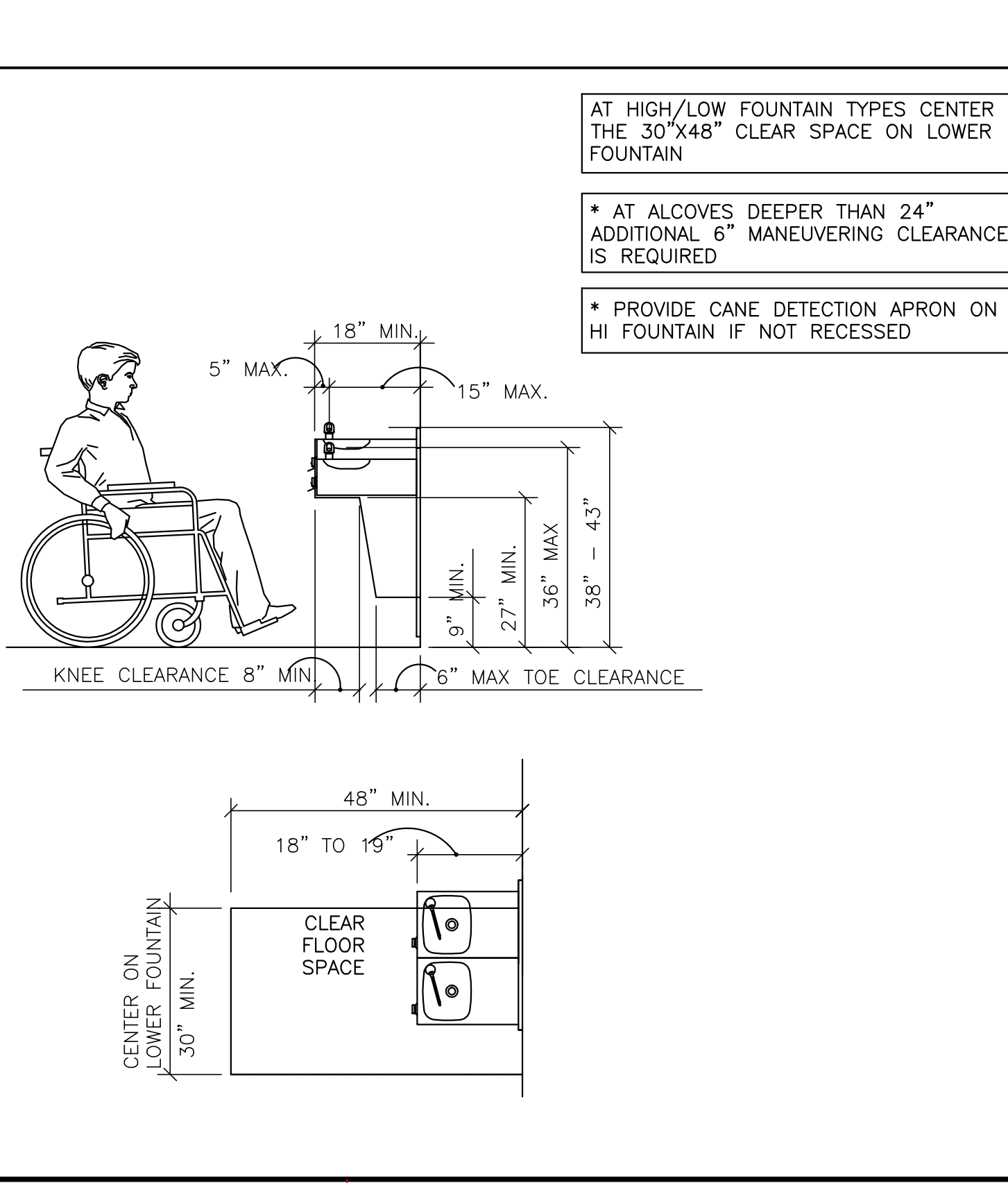
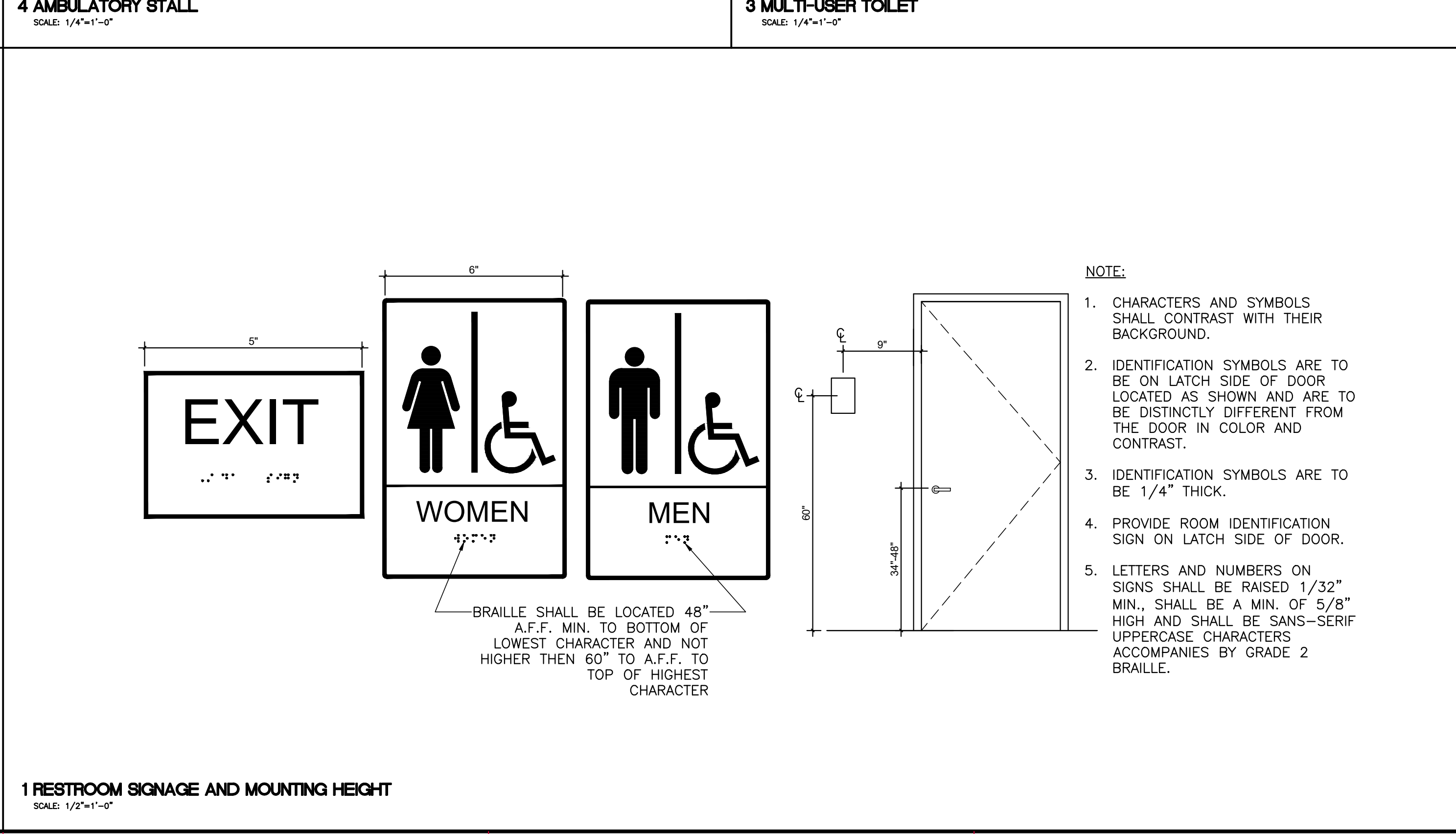
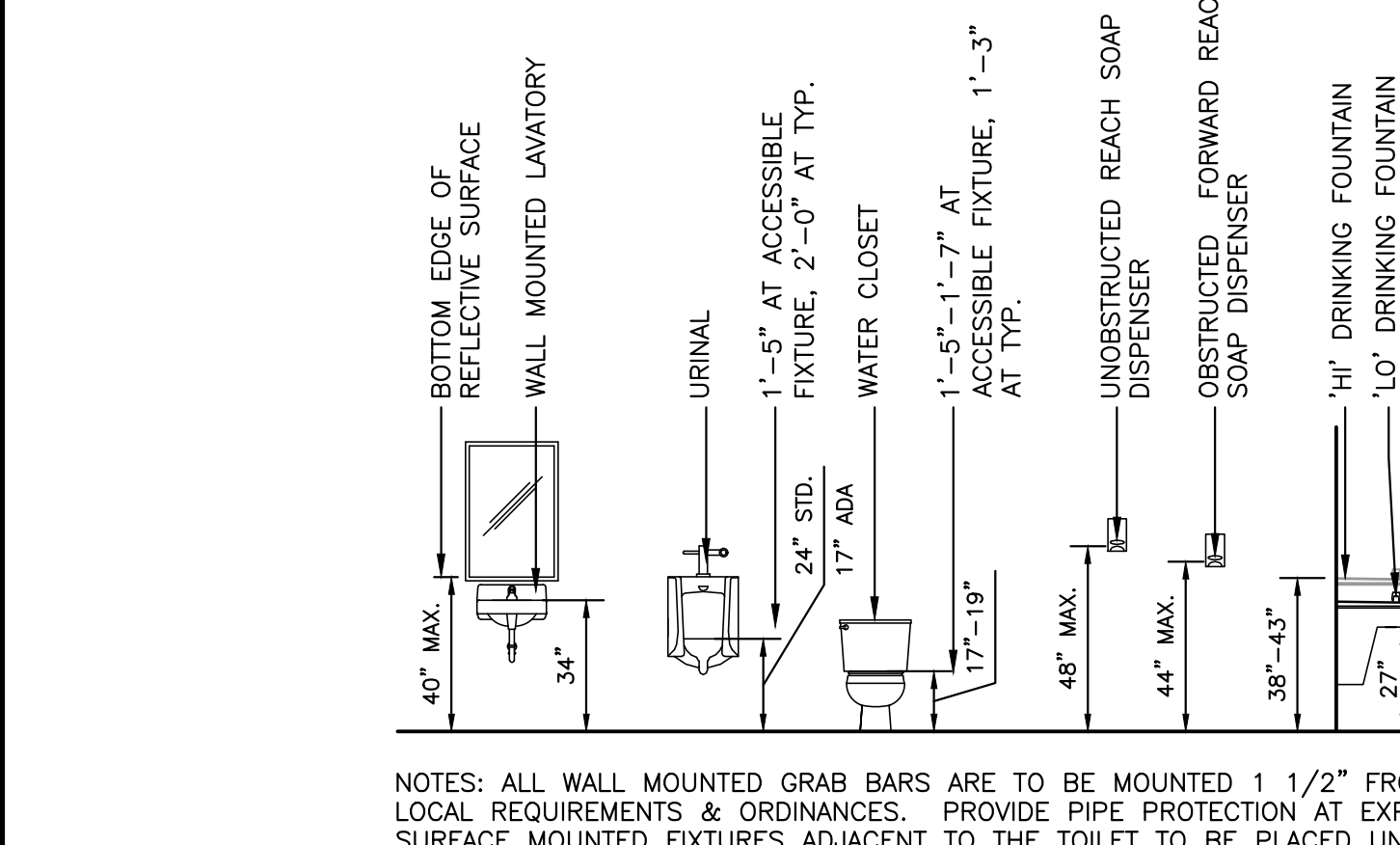
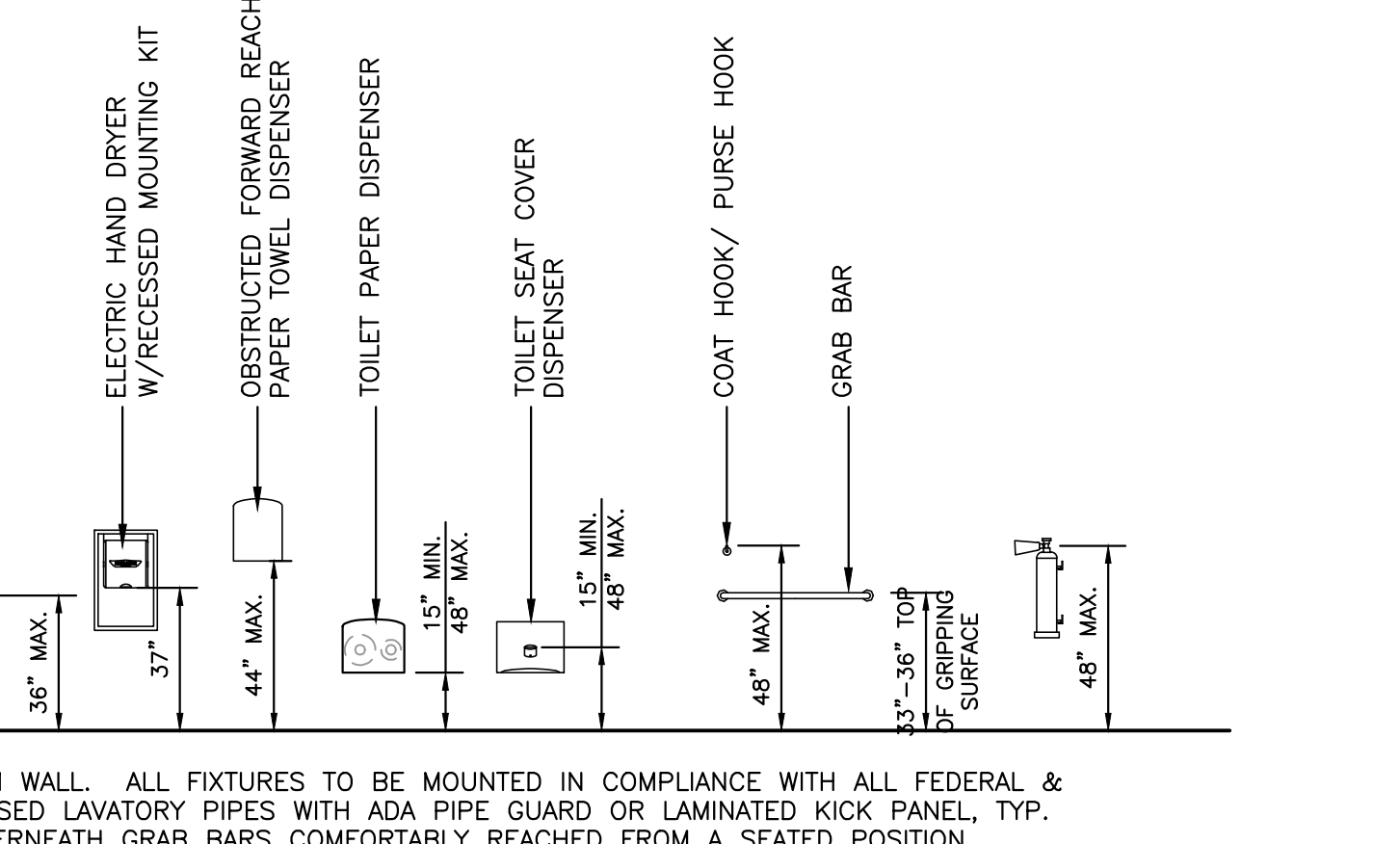
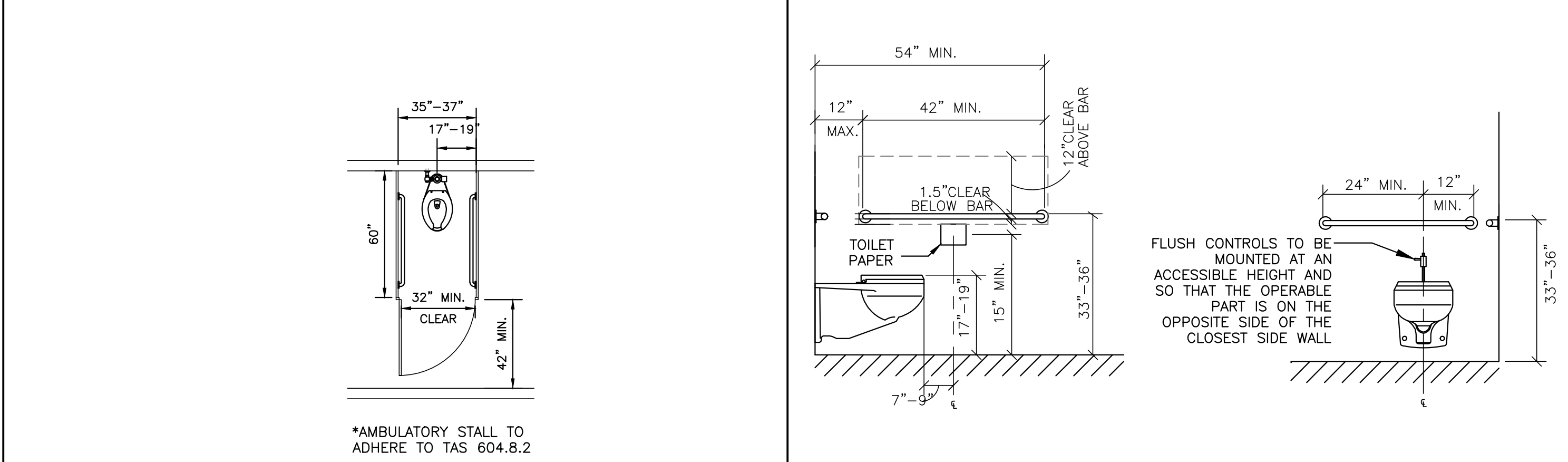
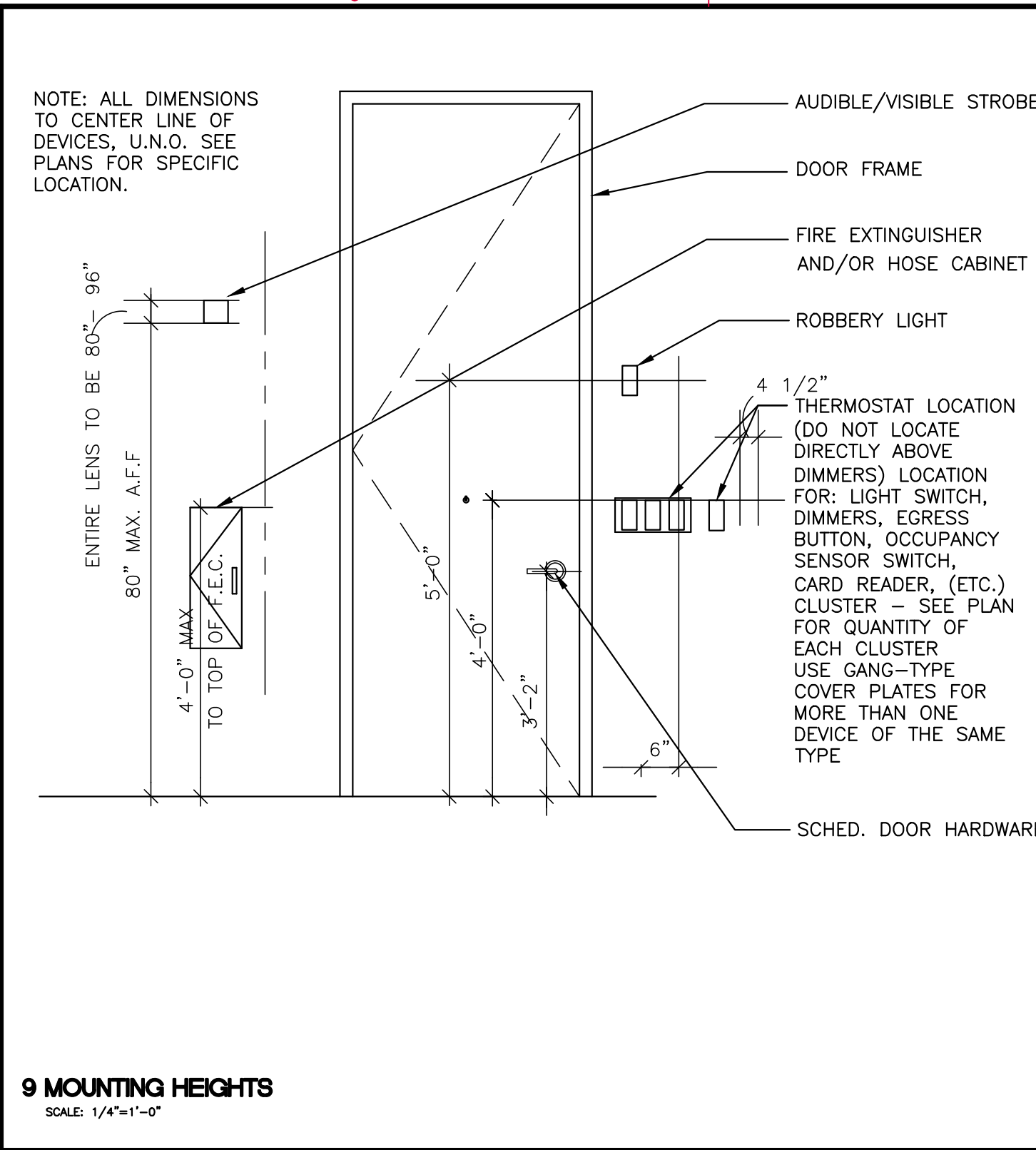
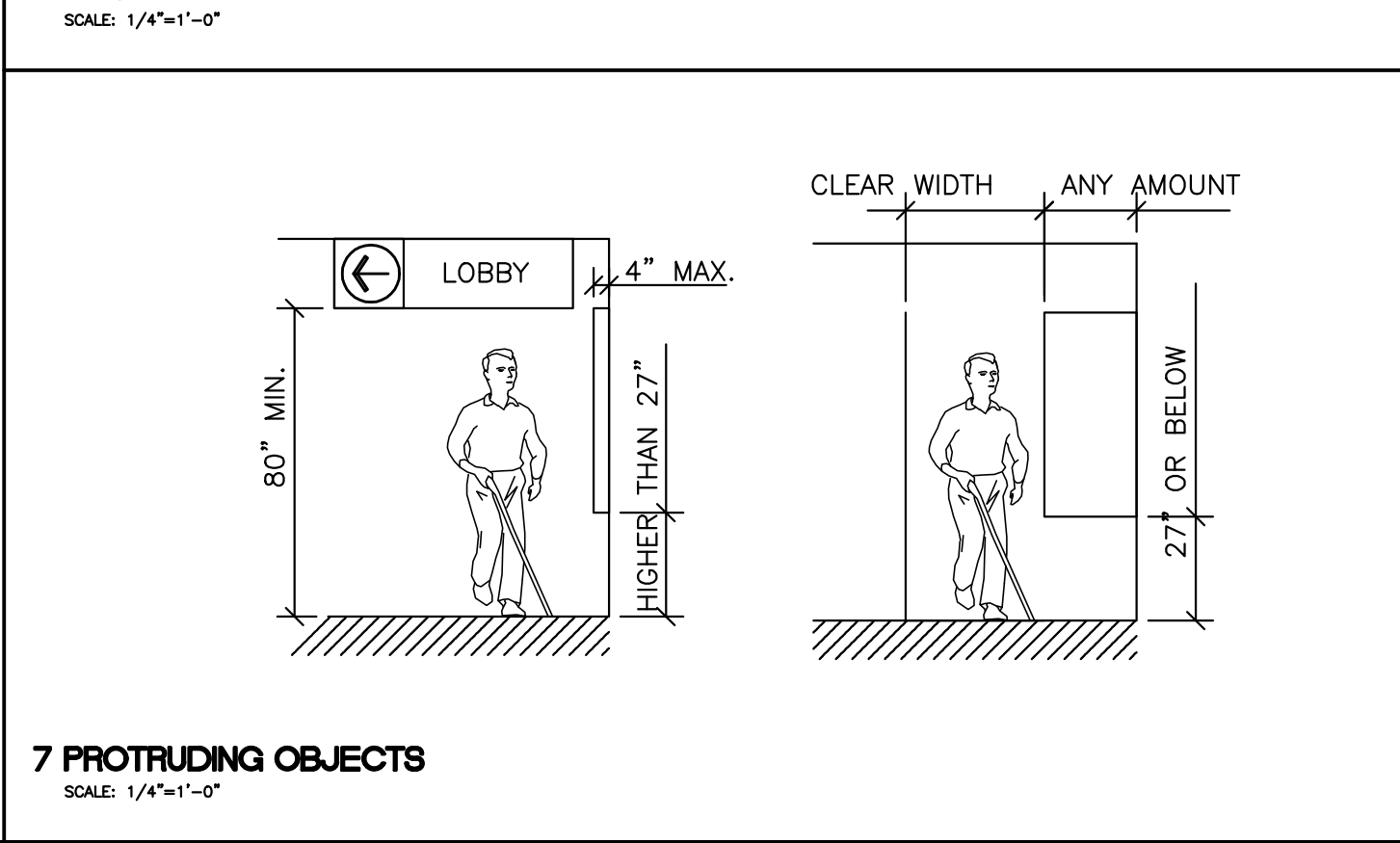
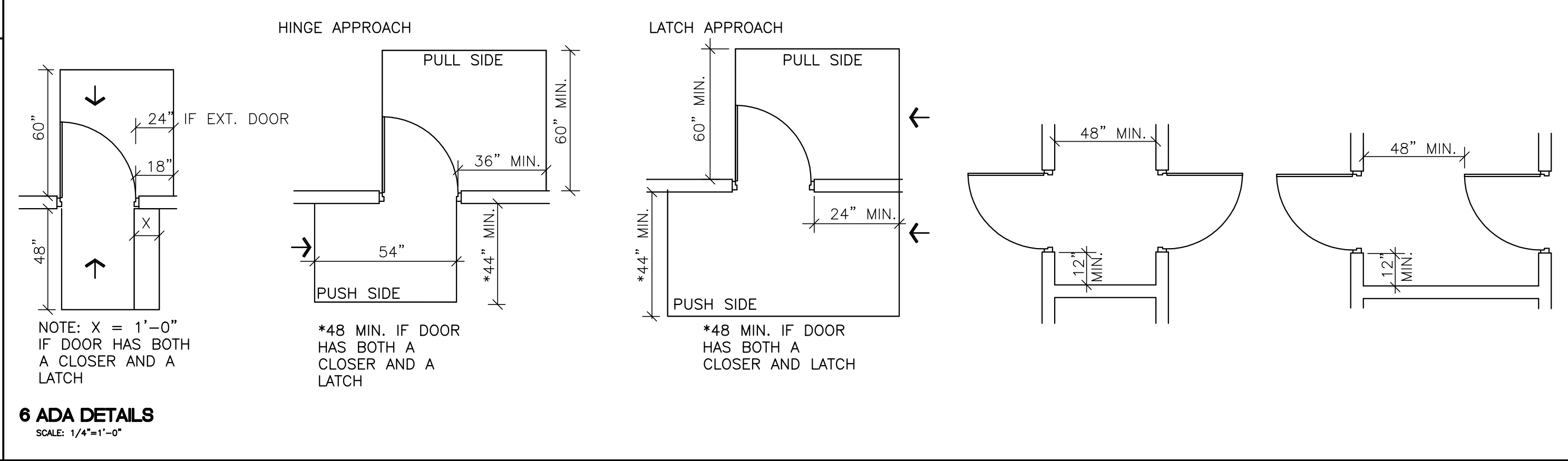
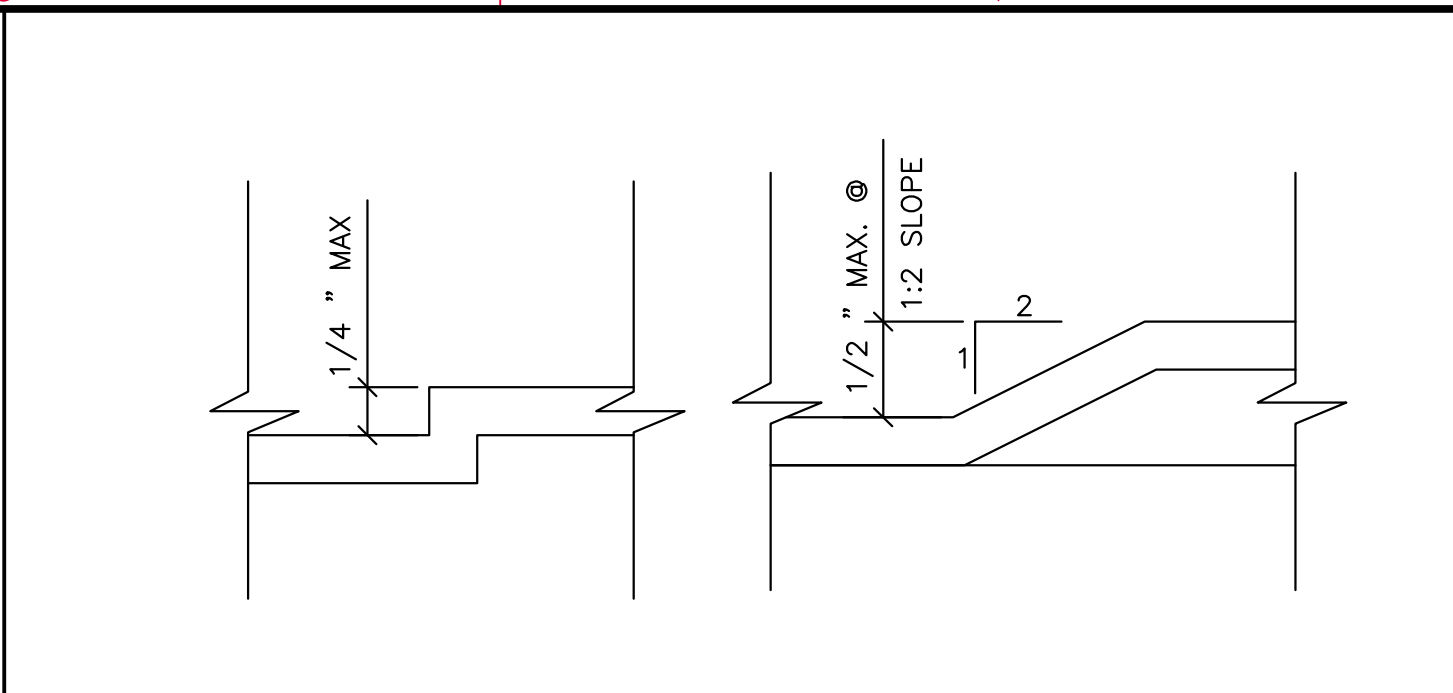
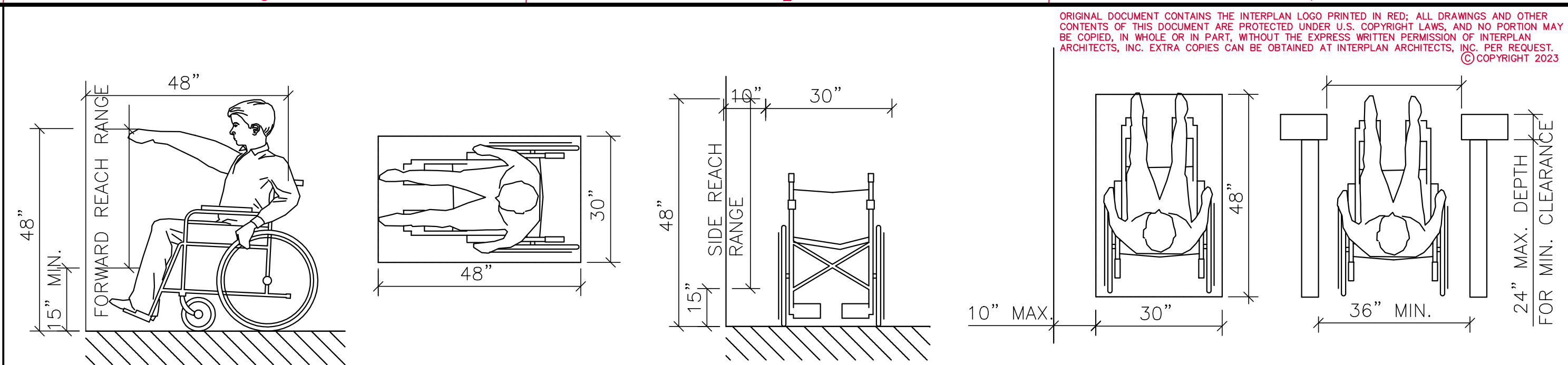
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SHEET TITLE

ADA DETAILS

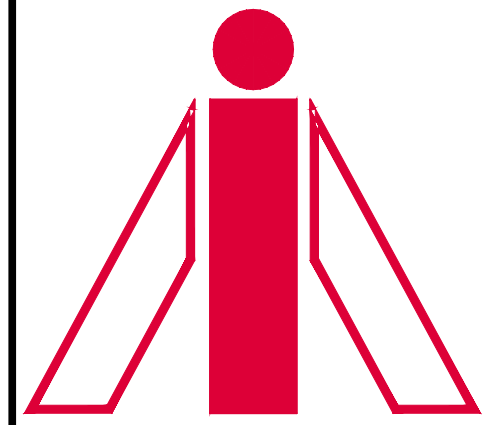
DRAWING NUMBER SHEET NO.

A06D



D
C
B
A

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

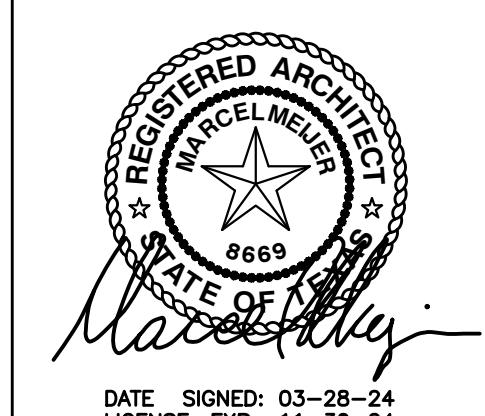
PROJECT NUMBER
CEP22-A07.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
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PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
LICENSE EXP: 11-30-24

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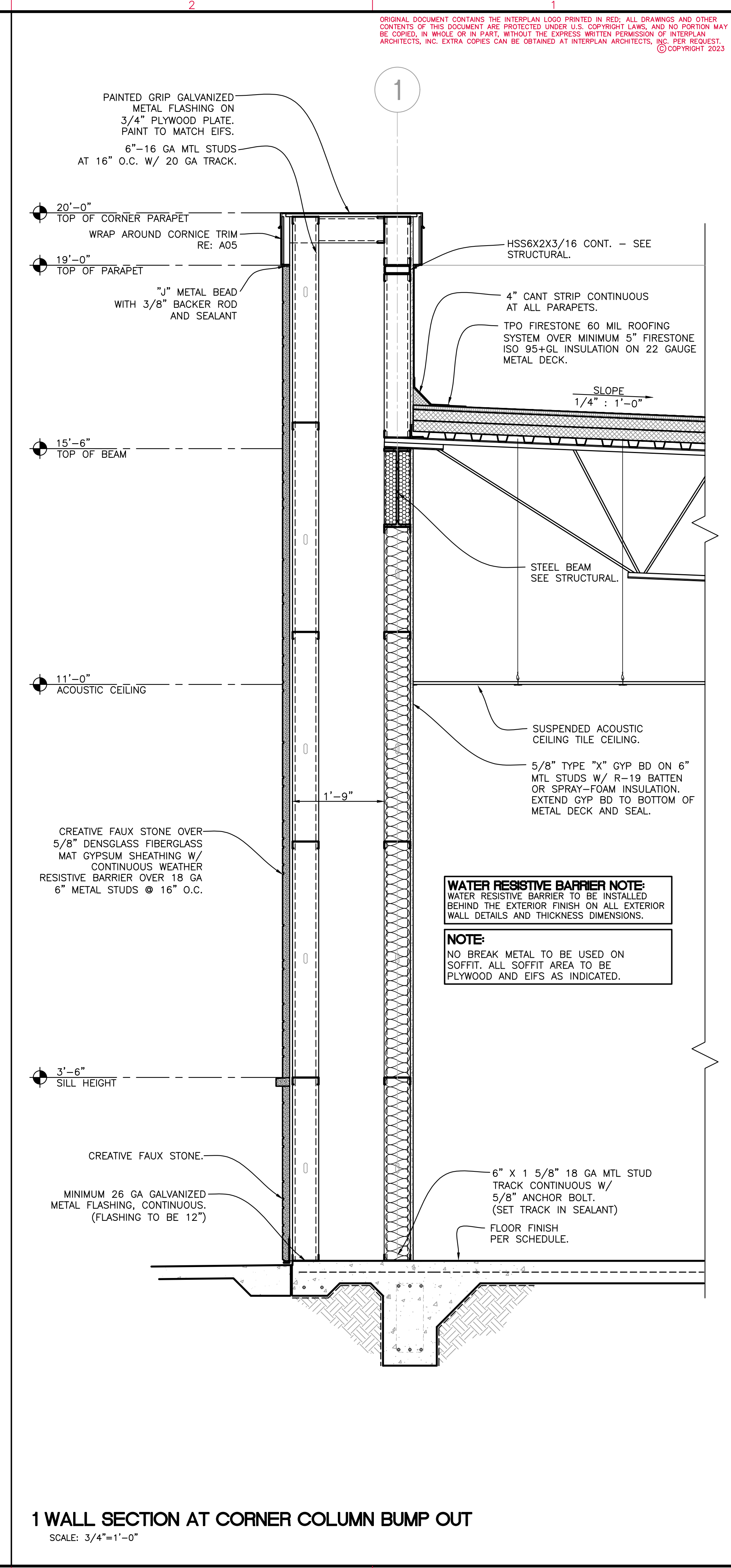
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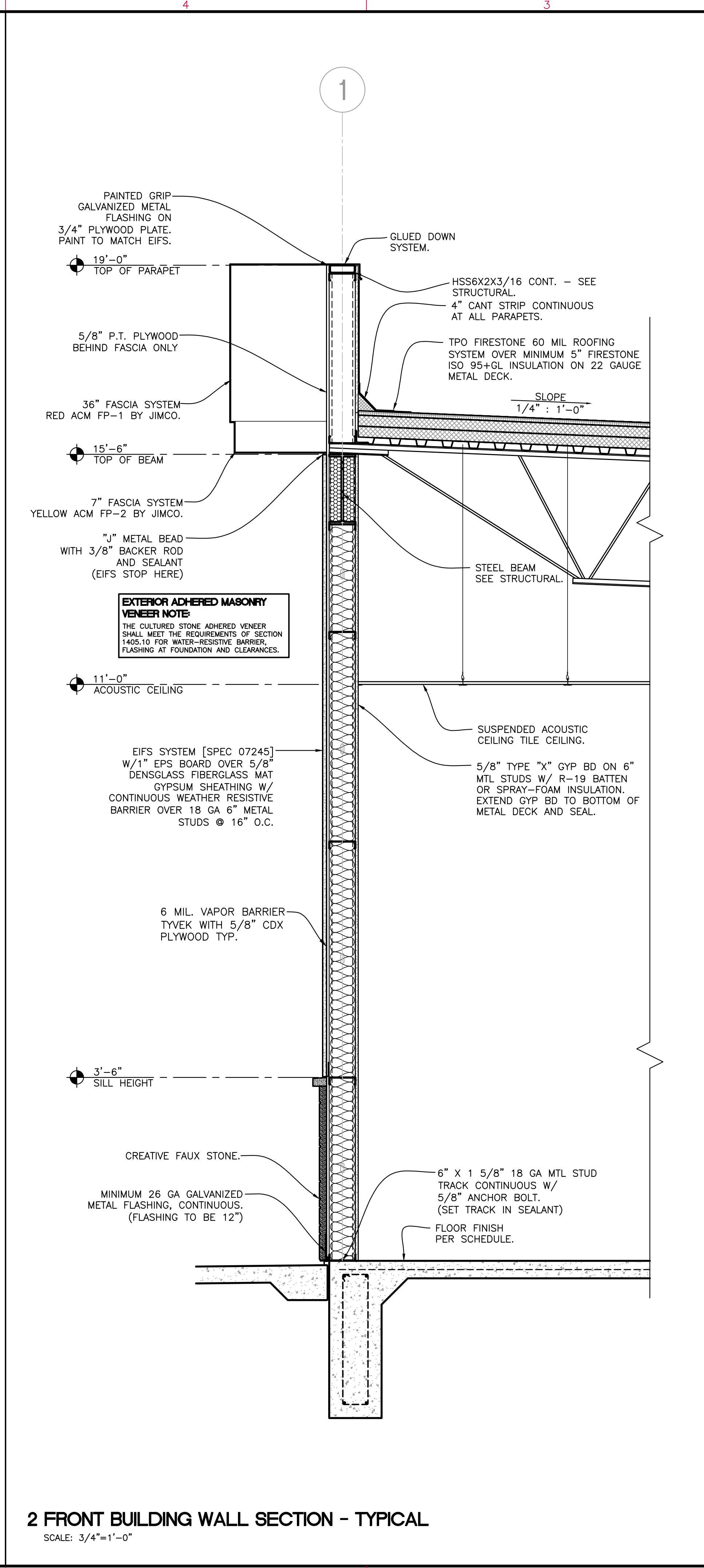
WALL SECTIONS

DRAWING NUMBER SHEET NO.

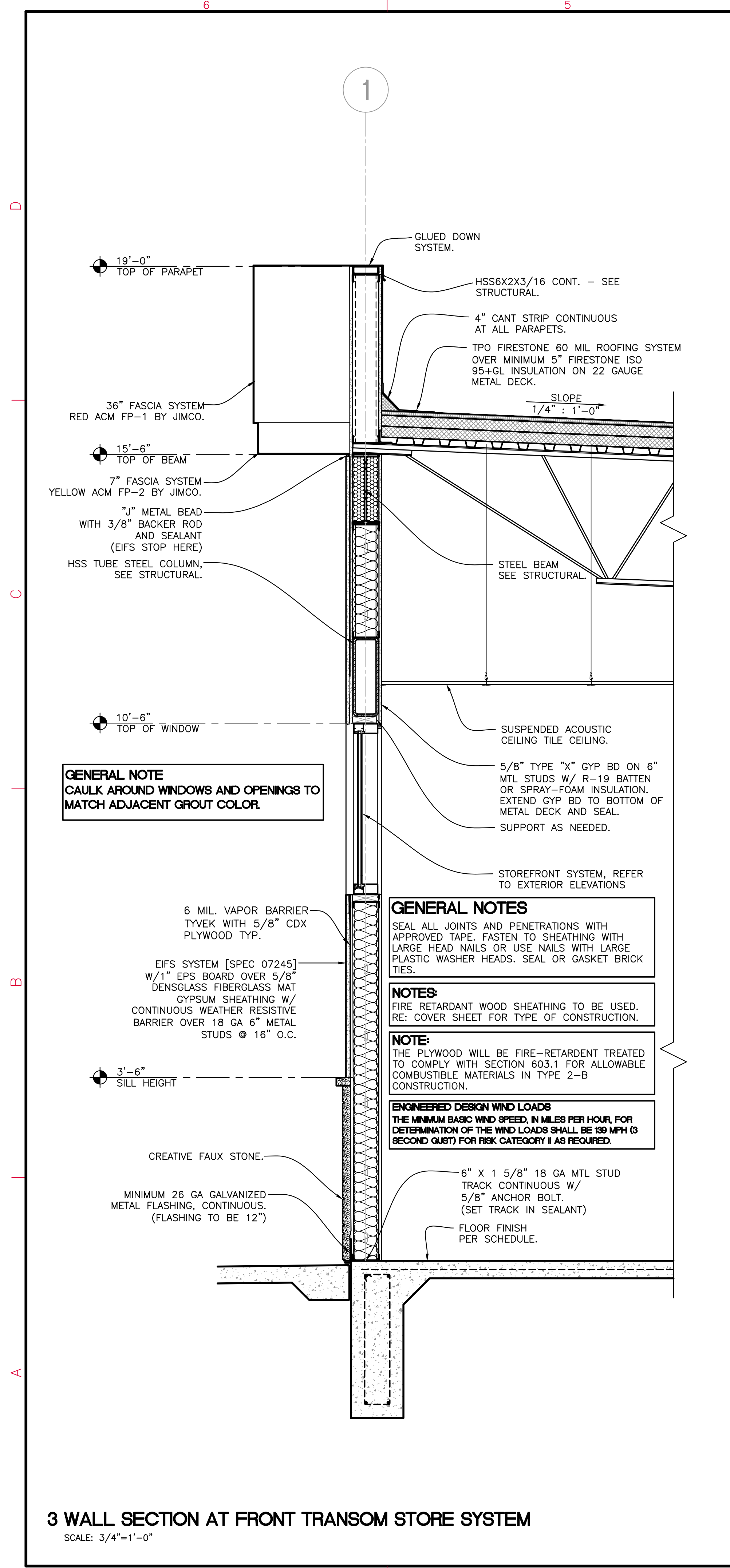
A07



1 WALL SECTION AT CORNER COLUMN BUMP OUT
SCALE: 3/4"=1'-0"



2 FRONT BUILDING WALL SECTION - TYPICAL
SCALE: 3/4"=1'-0"



3 WALL SECTION AT FRONT TRANSOM STORE SYSTEM
SCALE: 3/4"=1'-0"

GENERAL NOTE
CAULK AROUND WINDOWS AND OPENINGS TO MATCH ADJACENT GROUT COLOR.

GENERAL NOTES
SEAL ALL JOINTS AND PENETRATIONS WITH APPROVED TAPE. FASTEN TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. SEAL OR GASKET BRICK TIES.

NOTES:
FIRE RETARDANT WOOD SHEATHING TO BE USED. RE: COVER SHEET FOR TYPE OF CONSTRUCTION.

NOTE:
THE PLYWOOD WILL BE FIRE-RETARDANT TREATED TO COMPLY WITH SECTION 603.1 FOR ALLOWABLE COMBUSTIBLE MATERIALS IN TYPE 2-B CONSTRUCTION.

ENGINEERED DESIGN WIND LOADS
THE MINIMUM BASIC WIND SPEED, IN MILES PER HOUR, FOR DETERMINATION OF THE WIND LOADS SHALL BE 139 MPH (3 SECOND GUST) FOR RISK CATEGORY II AS REQUIRED.

EXTERIOR ADHERED MASONRY VENEER NOTE
THE CULTURED STONE ADHERED VENEER SHALL MEET THE REQUIREMENTS OF SECTION 1405.1D FOR WATER-RESISTIVE BARRIER, FLASHING AT FOUNDATION AND CLEARANCES.

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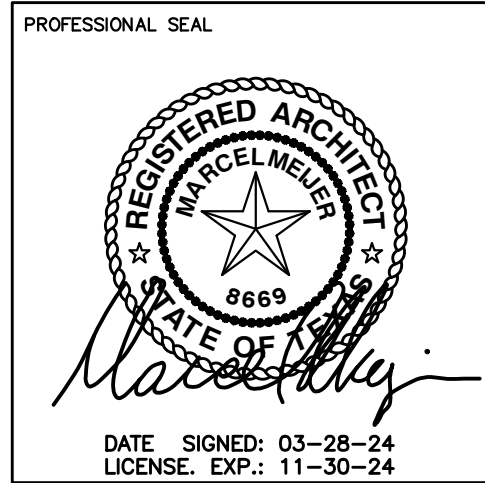


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-A07A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
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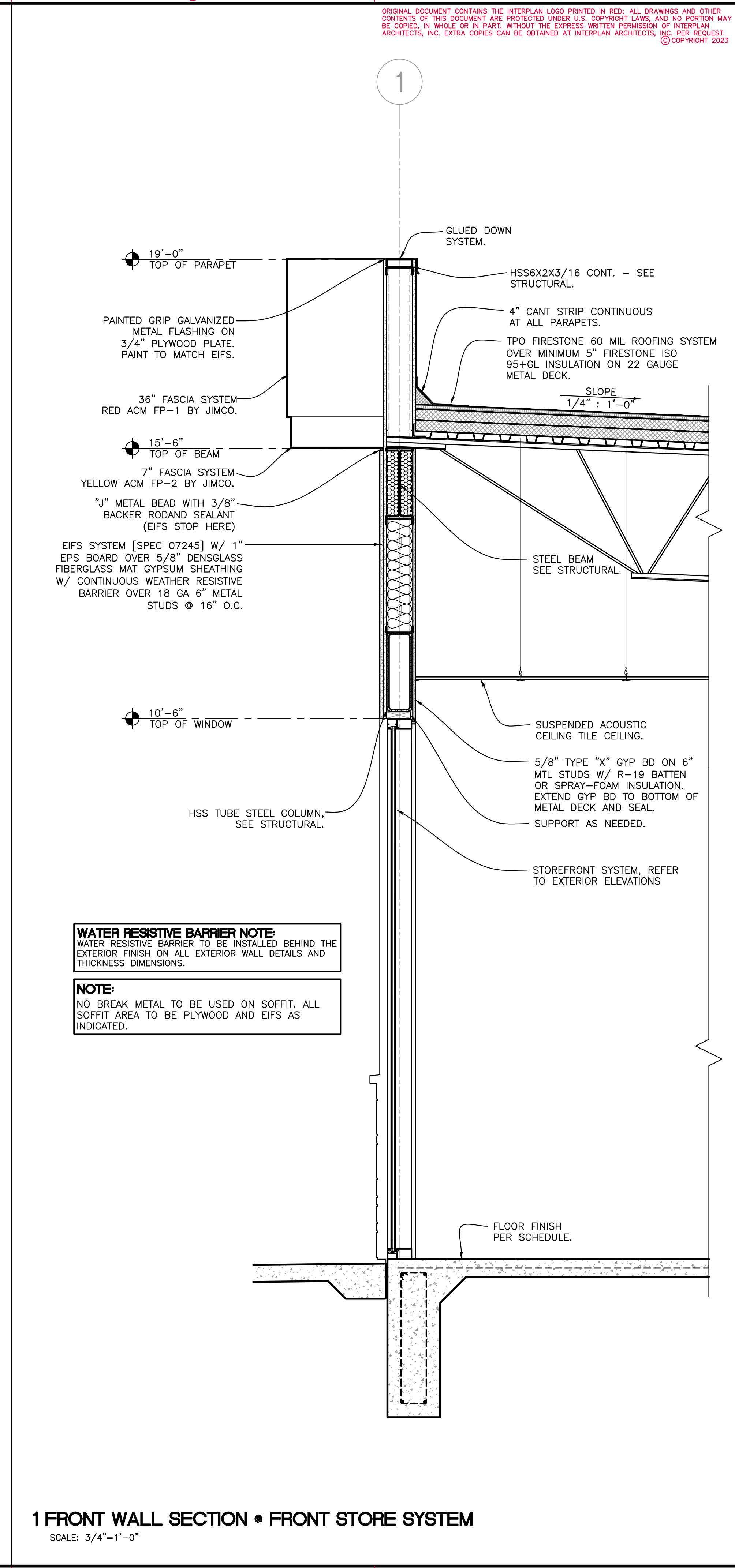
REVISIONS

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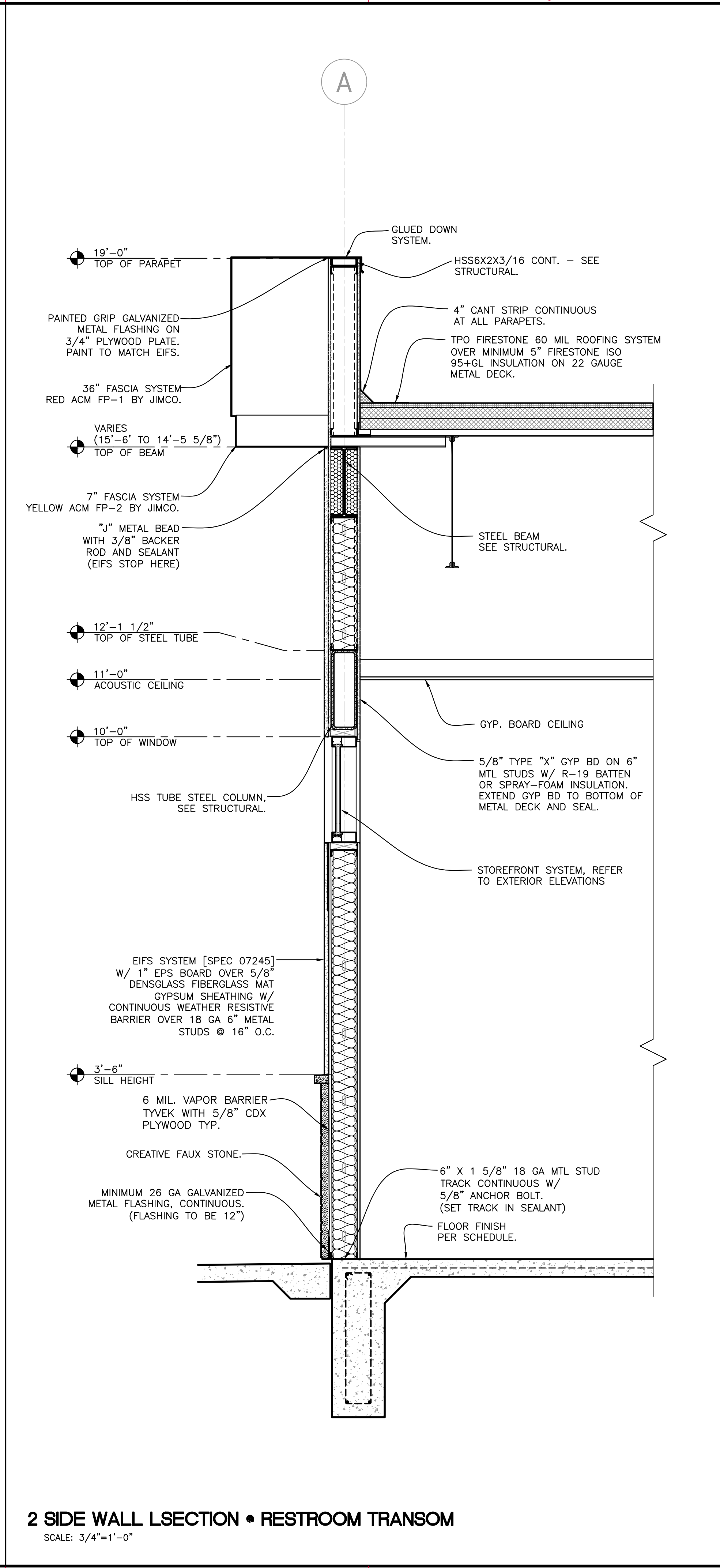
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SHEET TITLE
WALL SECTIONS

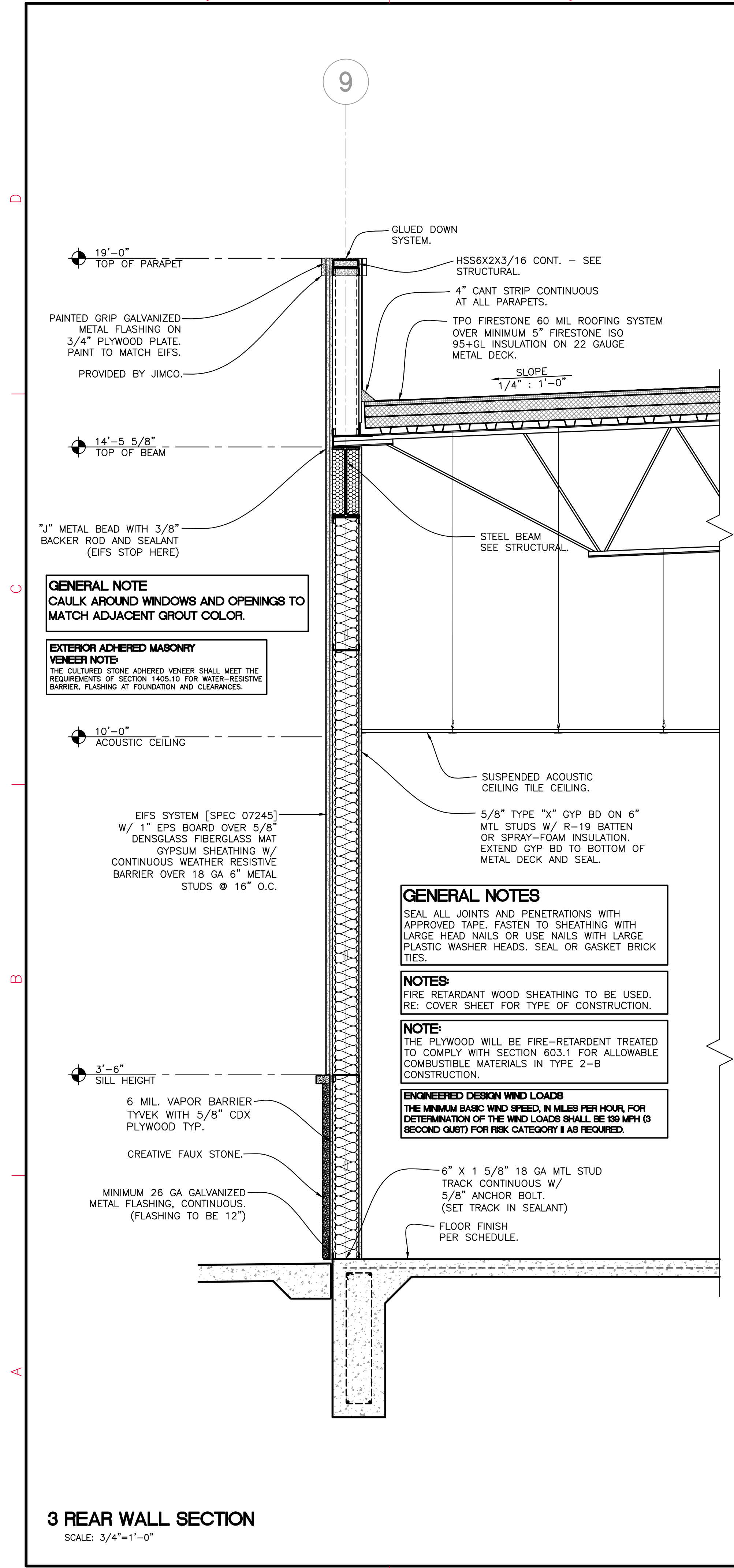
DRAWING NUMBER
A07A



1 FRONT WALL SECTION • FRONT STORE SYSTEM
SCALE: 3/4"=1'-0"



2 SIDE WALL LSECTION • RESTROOM TRANSOM
SCALE: 3/4"=1'-0"



3 REAR WALL SECTION
SCALE: 3/4"=1'-0"

GENERAL NOTE
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EXTERIOR ADHERED MASONRY VENEER NOTE
THE CULTURED STONE ADHERED VENEER SHALL MEET THE REQUIREMENTS OF SECTION 1405.10 FOR WATER-RESISTIVE BARRIER, FLASHING AT FOUNDATION AND CLEARANCES.

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WATER RESISTIVE BARRIER NOTE
WATER RESISTIVE BARRIER TO BE INSTALLED BEHIND THE EXTERIOR FINISH ON ALL EXTERIOR WALL DETAILS AND THICKNESS DIMENSIONS.

NOTE:
NO BREAK METAL TO BE USED ON SOFFIT. ALL SOFFIT AREA TO BE PLYWOOD AND EIFS AS INDICATED.

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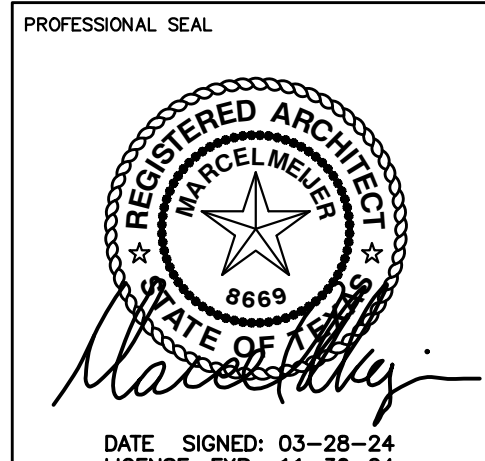


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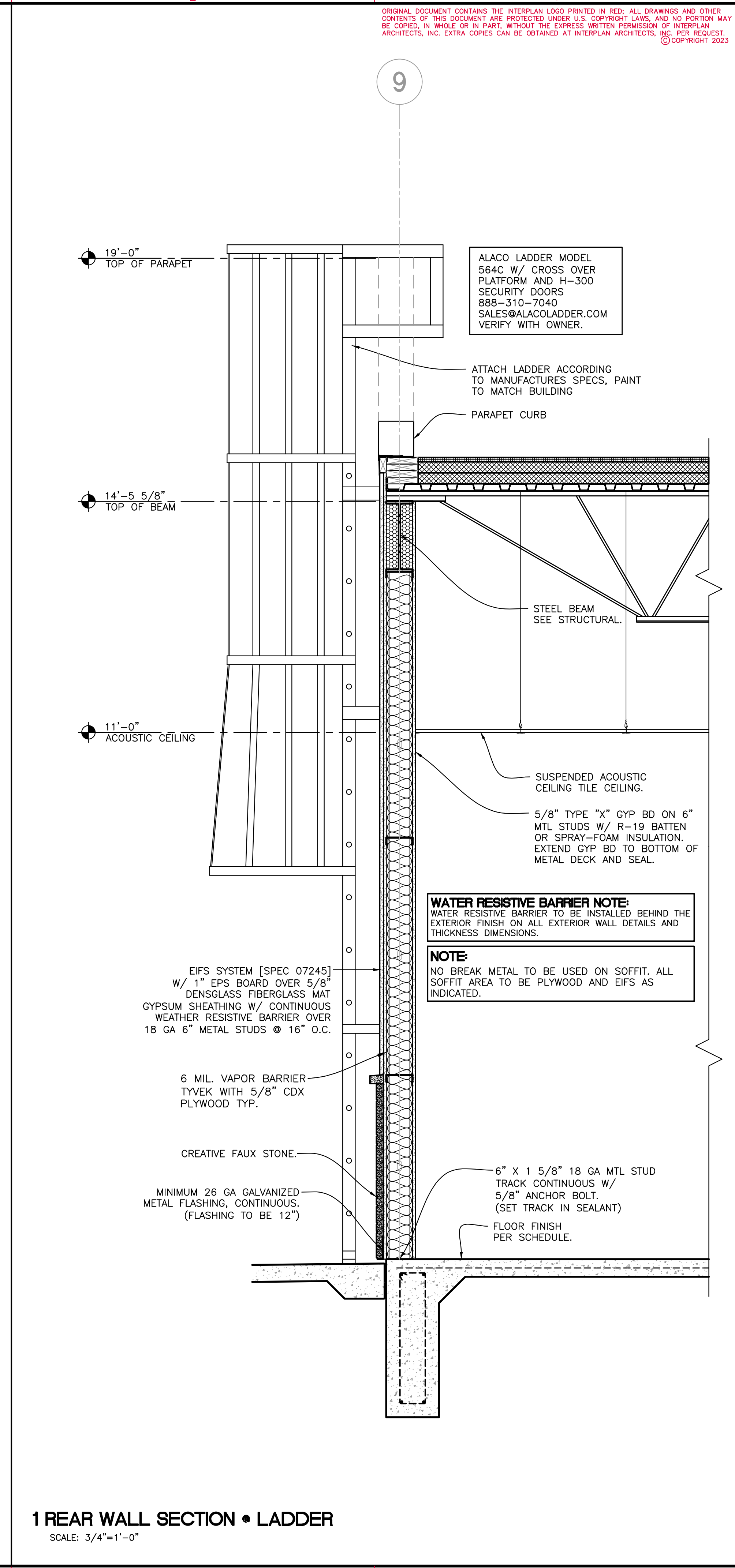
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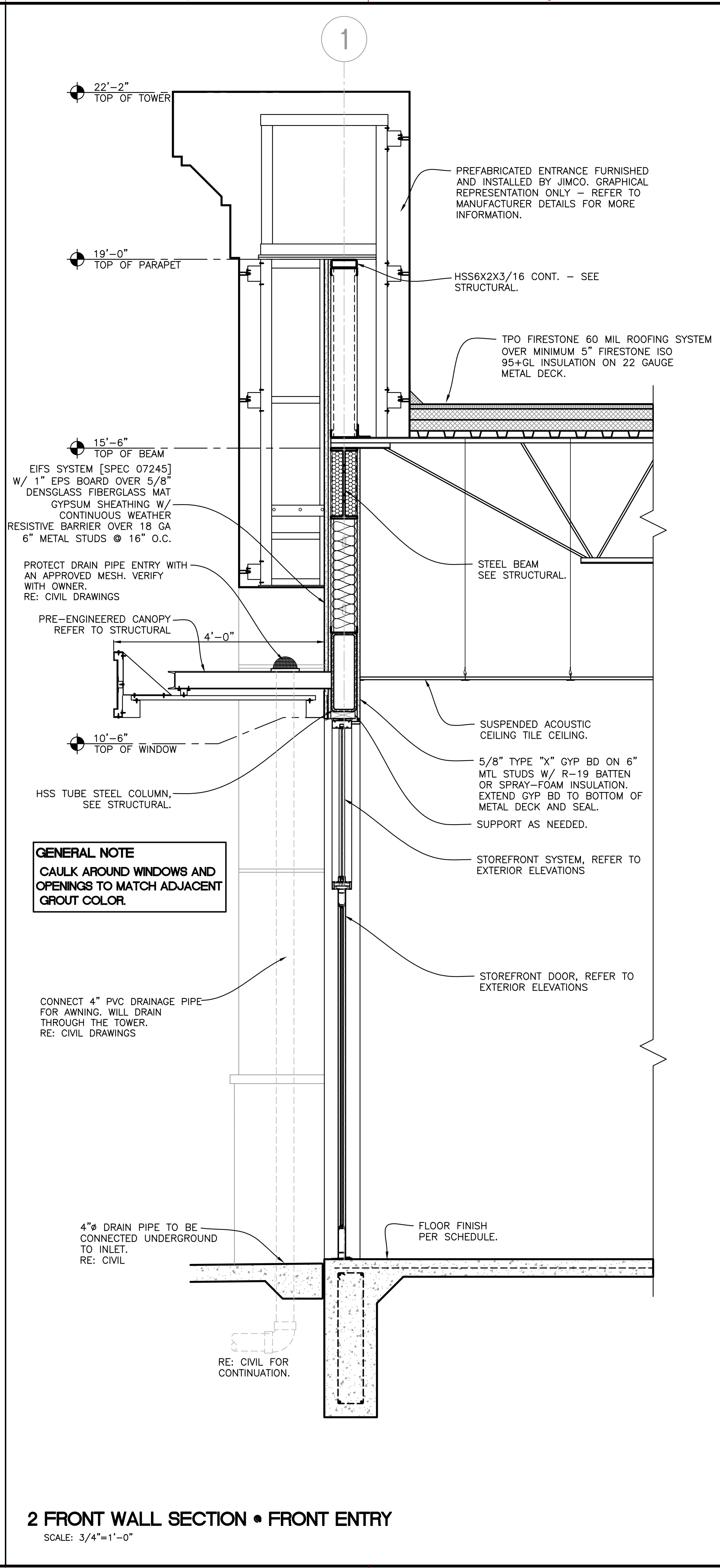
DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
WALL SECTIONS

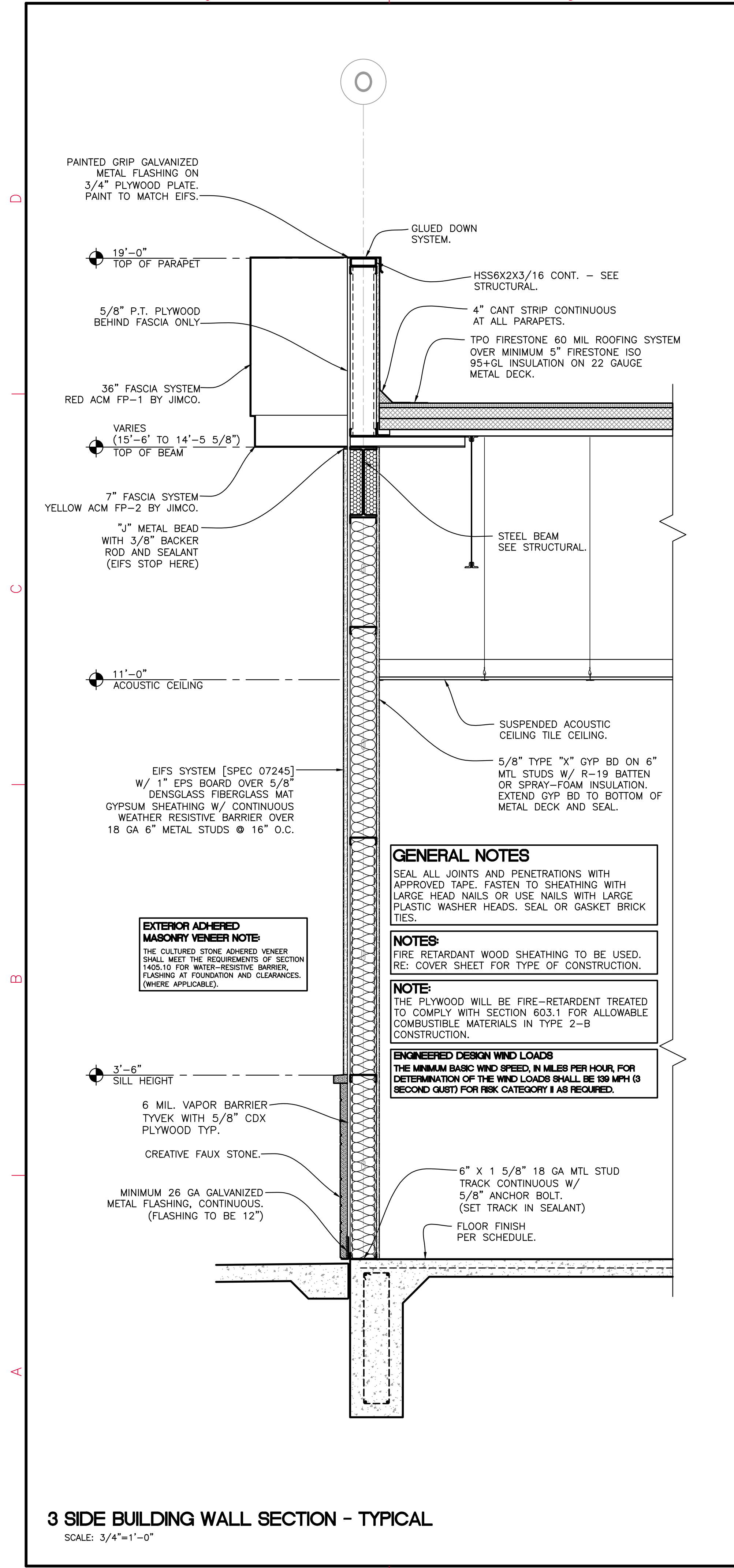
DRAWING NUMBER
A07B



1 REAR WALL SECTION • LADDER
SCALE: 3/4"=1'-0"



2 FRONT WALL SECTION • FRONT ENTRY
SCALE: 3/4"=1'-0"



3 SIDE BUILDING WALL SECTION - TYPICAL
SCALE: 3/4"=1'-0"

GENERAL NOTES

SEAL ALL JOINTS AND PENETRATIONS WITH APPROVED TAPE. FASTEN TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. SEAL OR GASKET BRICK TIES.

NOTES:
FIRE RETARDANT WOOD SHEATHING TO BE USED. RE: COVER SHEET FOR TYPE OF CONSTRUCTION.

NOTE:
THE PLYWOOD WILL BE FIRE-RETARDANT TREATED TO COMPLY WITH SECTION 603.1 FOR ALLOWABLE COMBUSTIBLE MATERIALS IN TYPE 2-B CONSTRUCTION.

ENGINEERED DESIGN WIND LOADS
THE MINIMUM BASIC WIND SPEED, IN MILES PER HOUR, FOR DETERMINATION OF THE WIND LOADS SHALL BE 139 MPH (3 SECOND GUST) FOR RISK CATEGORY I AS REQUIRED.

EXTERIOR ADHERED MASONRY VENEER NOTE:
THE CULTURED STONE ADHERED VENEER SHALL MEET THE REQUIREMENTS OF SECTION 1405.10 FOR WATER-RESISTIVE BARRIER, FLASHING AT FOUNDATION AND CLEARANCES, (WHERE APPLICABLE).

GENERAL NOTE
CAULK AROUND WINDOWS AND OPENINGS TO MATCH ADJACENT GROUT COLOR.

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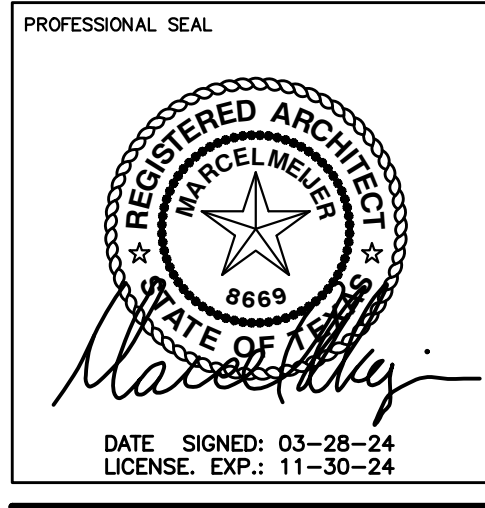
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEFF22-A08A.DWG

PROJECT TITLE



CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

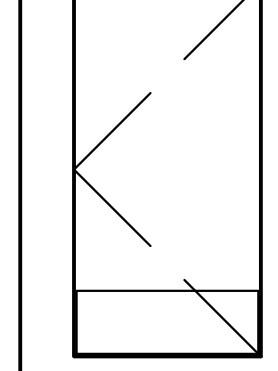
NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE

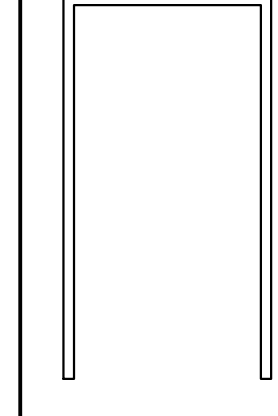
DOOR SCHEDULE

DRAWING NUMBER
A08A
SHEET NO.



325 ALUMINUM DOOR SILL WEATHERSTRIP, NAT. GUARD #200N
HEAD/JAMB WEATHERSTRIP, NAT. GUARD #160
S SILENCERS, NAT. GUARD W-07 (OPTIONAL) PANIC WITH ALARM, DETEX 8010

FRAME INFORMATION:
FINISH: PAINT TO MATCH INTERIOR & EXTERIOR WALL



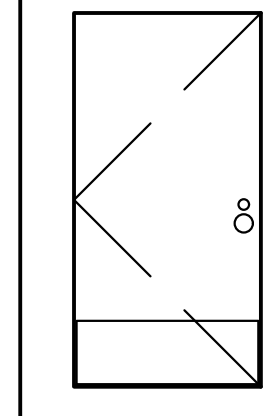
DOOR INFORMATION:
FINISH: PAINTED TO MATCH WALL

HARDWARE:
HINGES, 1-1/2 PAIR HAGER, BUTT BB 1279 26D
LOCKSET, SCHLAGE A53PD, SAT 26D
(1) CLOSER, LCN, 1461 ALUMINUM
(1) FLOOR STOP, HAGER #241, US28
(2) KICKPLATES 8X(2" LESS THAN WIDTH OF DOOR) ALUMINUM

FRAME INFORMATION:
FINISH: PAINT TO MATCH DOOR

DOOR INFORMATION:
FINISH: PAINTED TO MATCH INT / EXT WALL

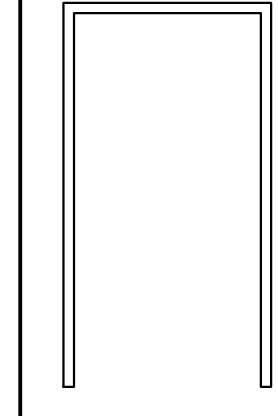
HARDWARE:
1 DOOR VIEWER
HINGES, REINFORCING PIVOT #253
2 PAIR BUTT 4-1/2 X 4-1/2 BB 1279 X USP X NRP
CLOSER, LCN 4115-H-CUSH, WITH THROUGH BOLTS
PANIC BAR, VAN DPRINT 22NL 26D (VERIFY DOOR HAND)
KICK PLATE, 10X24, ALUMINUM, HAGER THRESHOLD NAT. GUARD,



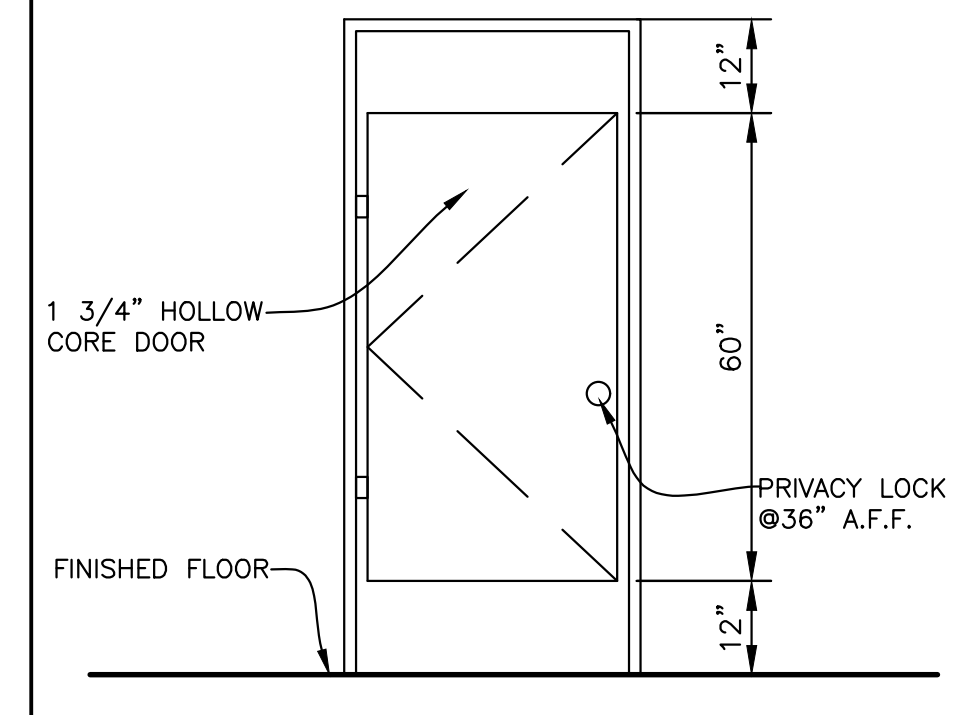
DOOR INFORMATION:
FINISH: PAINTED TO MATCH WALL

HARDWARE:
HINGES, 1 - 1 PAIR HAGER, BUTT BB 1279 26D CLOSER, LCN, 1461 ALUMINUM PANIC BAR, SARGENT #5805
(1) PULLPLATE, HAGER 4X16, H33E, US28
(1) PUSHPLATE, HAGER, 4X16, 305, US28
(1) FLOORSTOP, HAGER, 241F, US28
(1) KICKPLATES 8X(2" LESS THAN WIDTH OF DOOR) ALUMINUM

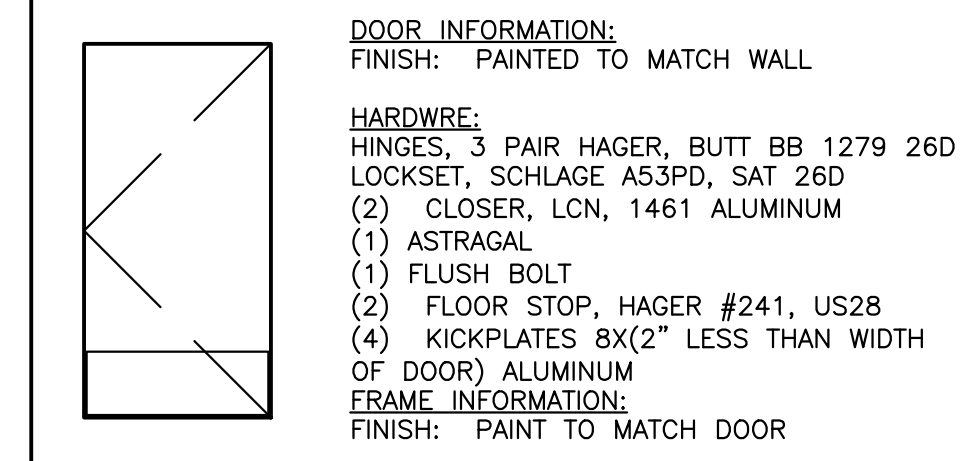
FRAME INFORMATION:
FINISH: PAINT TO MATCH DOOR



2 B - EXTERIOR DOOR AND FRAME
SCALE: NTS



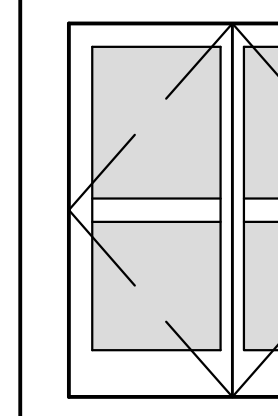
6 G - BATHROOM STALL DOOR ELEVATION
SCALE: NTS



DOOR INFORMATION:
FINISH: PAINTED TO MATCH WALL

HARDWARE:
HINGES, 3 PAIR HAGER, BUTT BB 1279 26D
LOCKSET, SCHLAGE A53PD, SAT 26D
(2) CLOSER, LCN, 1461 ALUMINUM
(1) ASTRAGAL
(1) FLUSH BOLT
(2) FLOOR STOP, HAGER #241, US28
(4) KICKPLATES 8X(2" LESS THAN WIDTH OF DOOR) ALUMINUM

5 F - STORAGE DOOR AND FRAME
SCALE: NTS

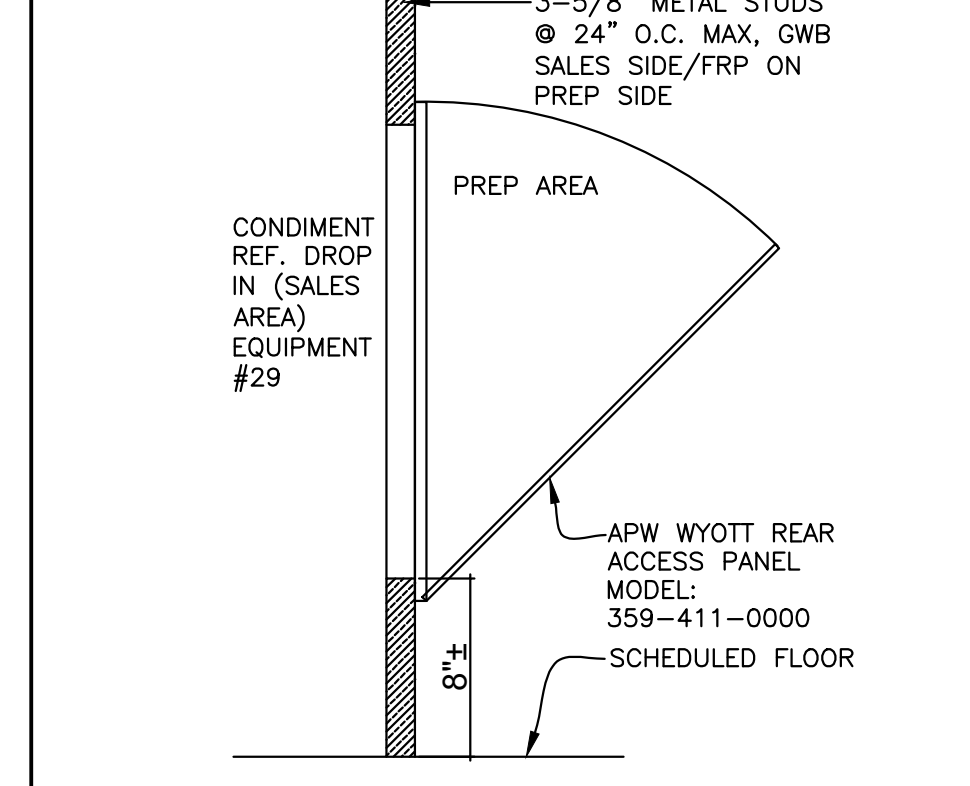


DOOR INFORMATION:
DOOR FINISH: RAL 3020 POWDERED COAT

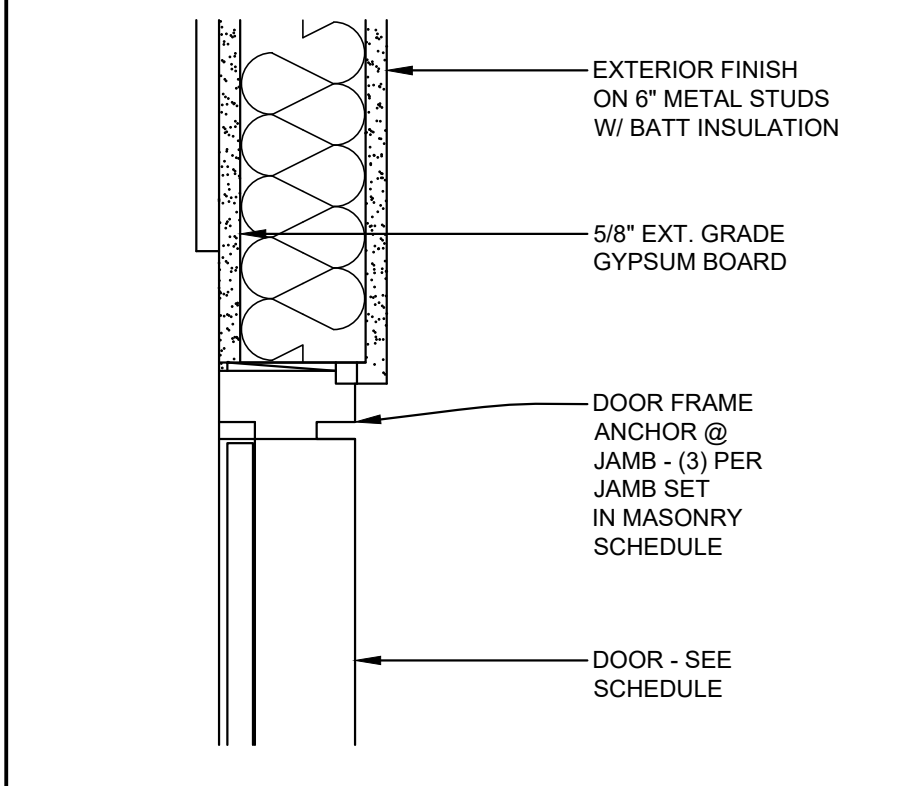
HARDWARE:
ENTRANCE DOOR HARDWARE SHALL CONSIST OF OFFSET PIVOTS, 2 SETS ADAMS RITE M.S. 1852A DEAD BOLT LOCKS, (KEYED DIFFERENTLY), ONE PAIR OF FLUSH BOLTS (ON INACTIVE LEAF OF PAIRS OF DOORS), STANLEY D-4550 SERIES SURFACE CLOSER WITH MODEL: D-455-0-DA-EDA-689-SN, 9" CLASSIC STRAIGHT DOOR PULLS IN ALUMINUM AND STANDARD THRESHOLDS. DUMMY CYLINDERS SHALL BE PROVIDED ON THE EXTERIOR OF ALL DOES EXCEPT AT MAIN ENTRY.

FRAME INFORMATION:
FINISH: RAL 3020 POWDERED COAT

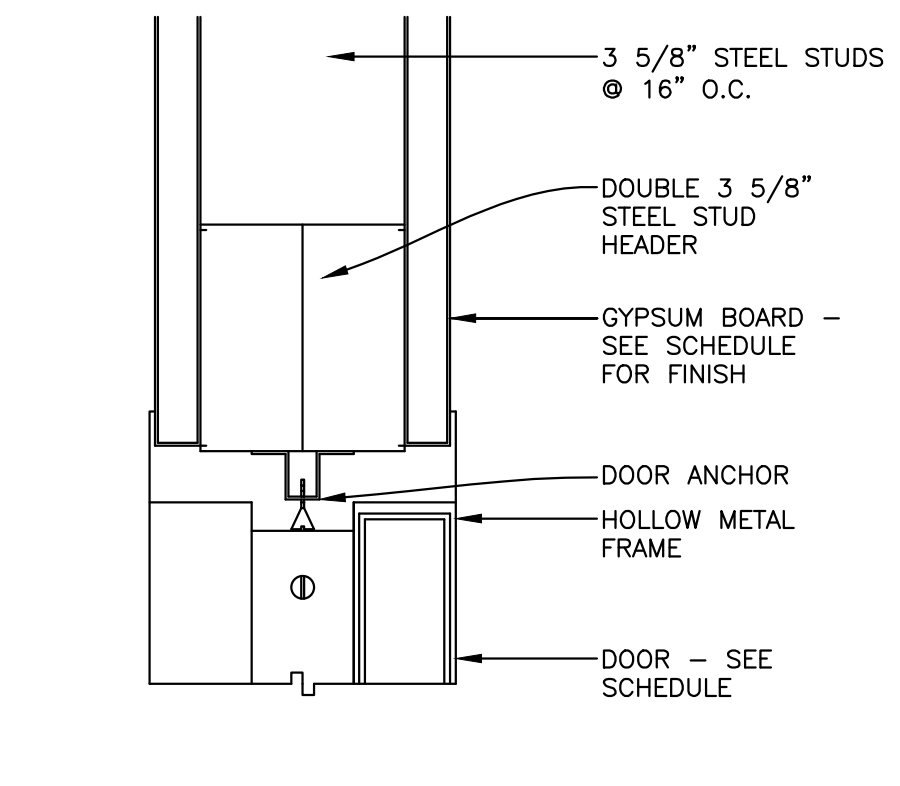
1 A - ALUMINUM ENTRY DOORS
SCALE: NTS



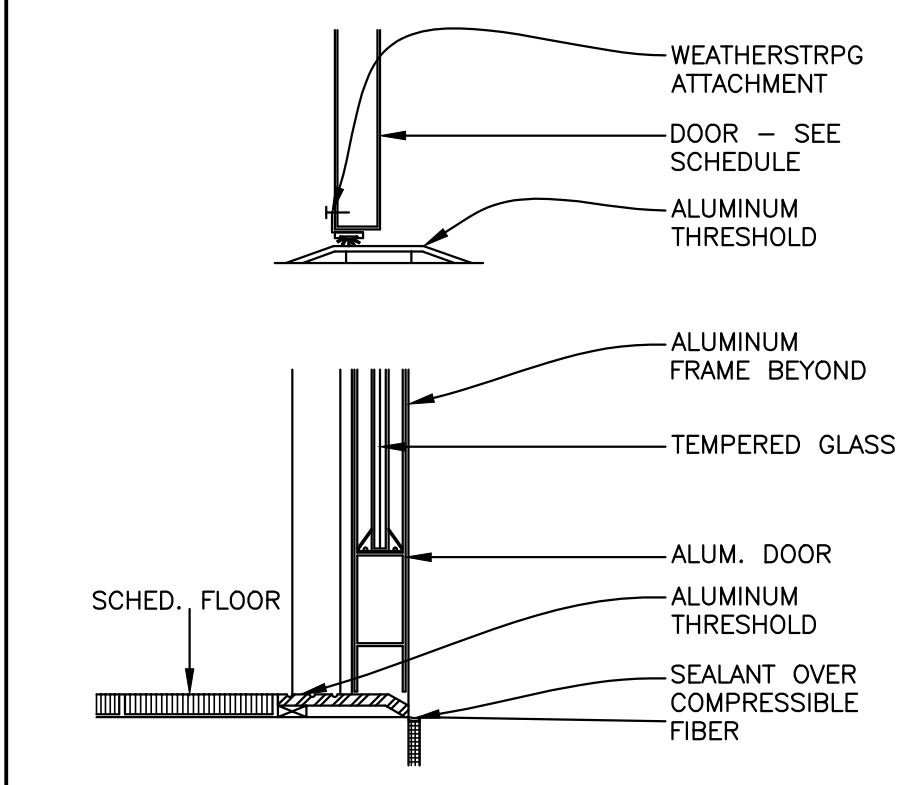
P5 ACCESS PANEL DETAIL
SCALE: NTS



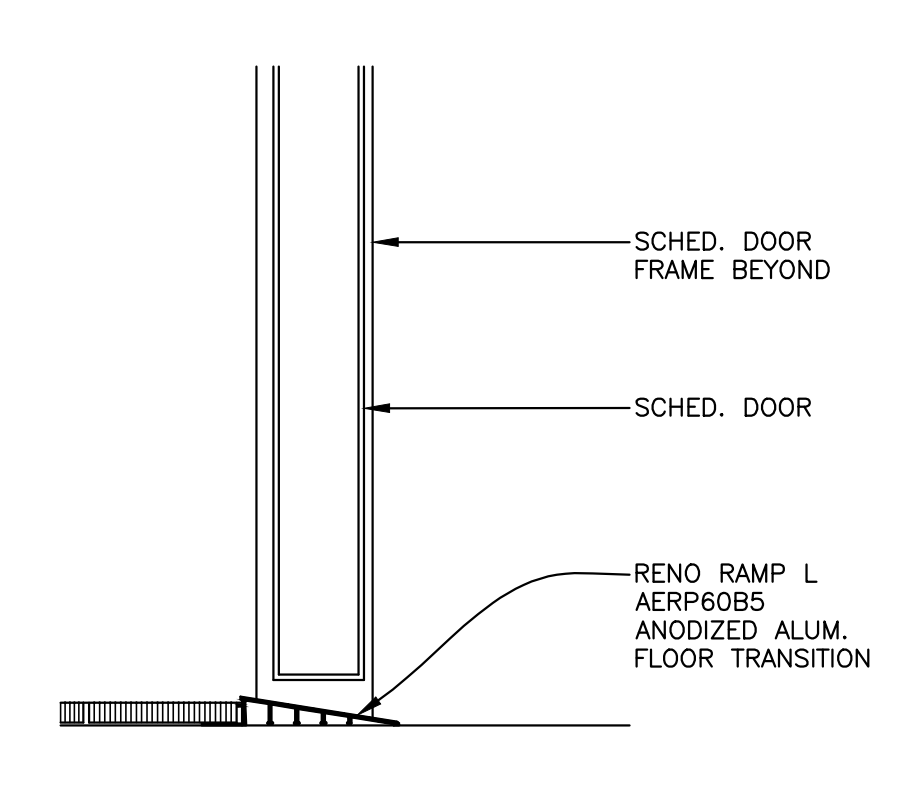
4 EXT. H.M. JAMB/DETAIL
SCALE: NTS



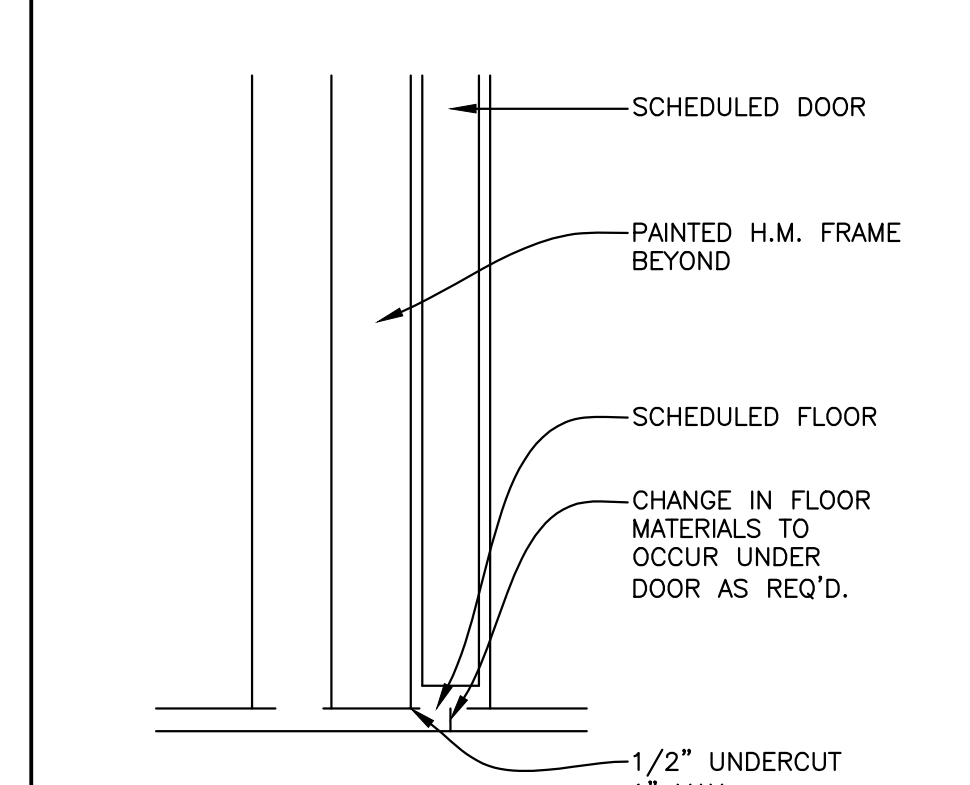
6 INT. H.M. JAMB AND HEAD DTL
SCALE: NTS



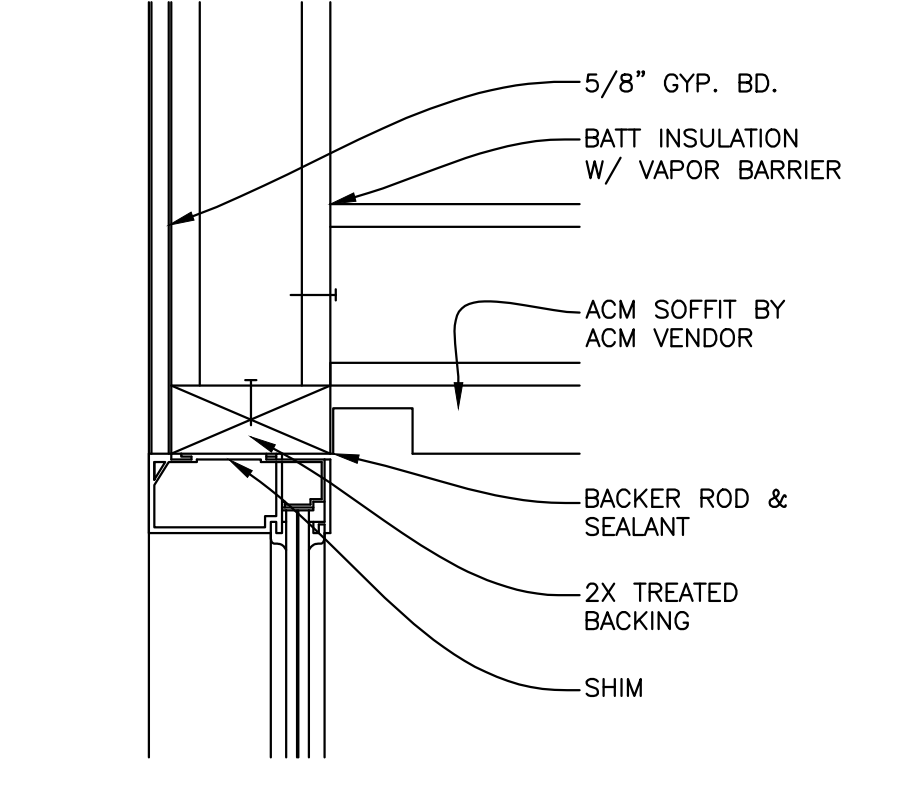
5 EXT. THRESHOLD DETAIL
SCALE: NTS



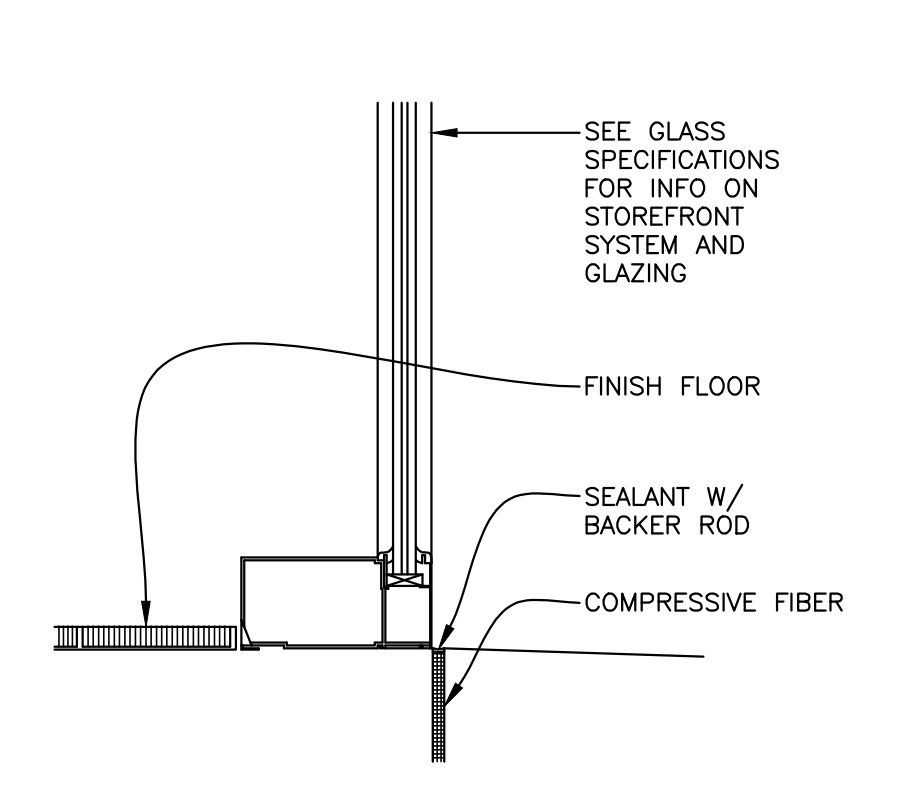
7 INT. THRESHOLD DETAIL
SCALE: NTS



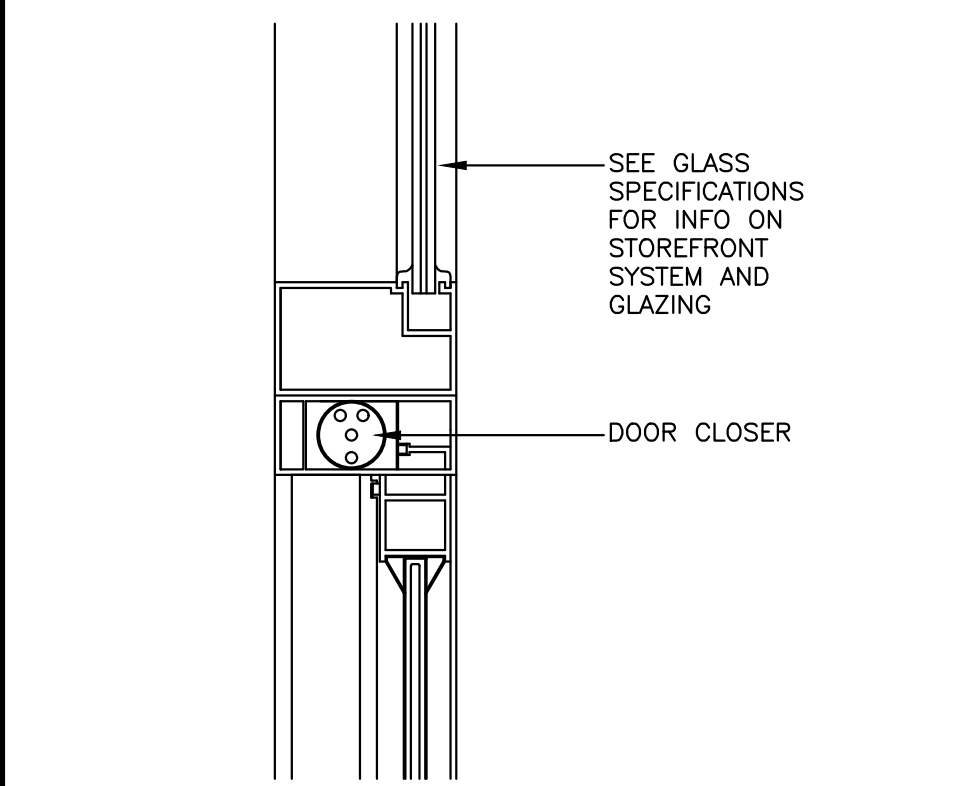
2 TYPICAL SILL DETAIL
SCALE: NTS



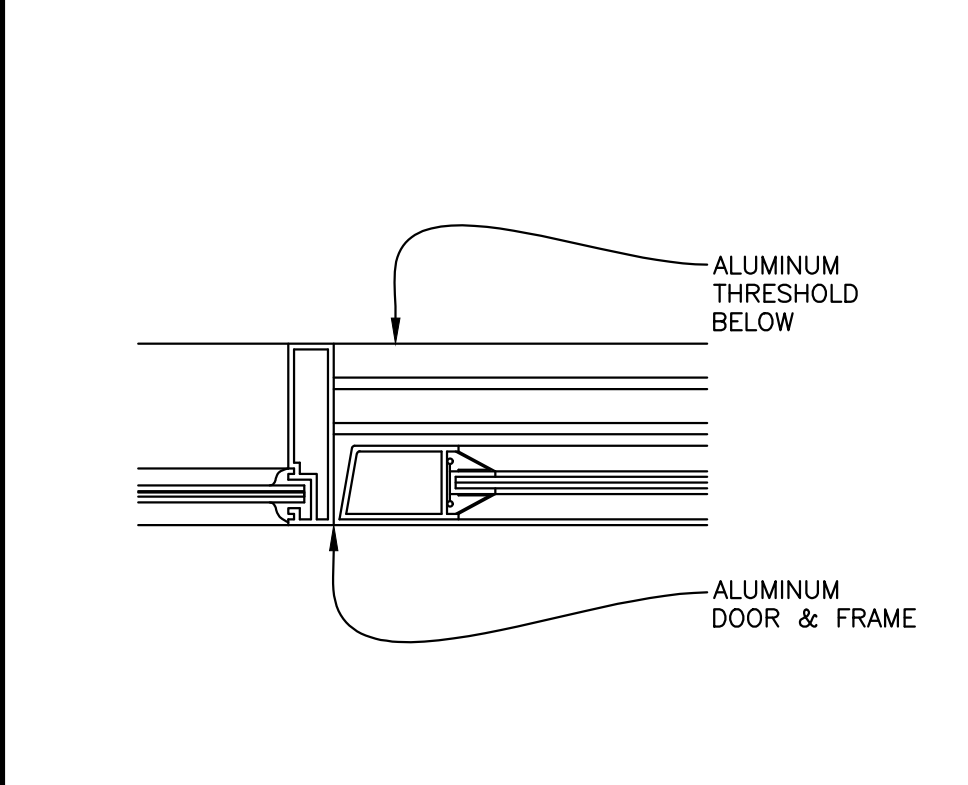
8 WINDOW HEAD DETAIL
SCALE: NTS



9 STOREFRONT DETAIL
SCALE: NTS



12A ENTRY DOOR HEAD
SCALE: NTS



12B ENTRY DOOR JAMB
SCALE: NTS

UNLESS NOTED OTHERWISE, ALL CUSTOMER USE DOORS TO HAVE A BLANK EXTERIOR WITH AN ADA APPROVED THUMB TURN LOCKSET INTERIOR. VERIFY WITH OWNER ON ALL DOOR HARDWARE REQUIRED.

ALL PAINTED INTERIOR DOORS, WHICH ADJOIN WHITE FINISHES (SUCH AS TILE, FRP, ETC.) SHOULD GET WHITE PAINT.

DOOR SCHEDULE RE: A02

DOOR #	DOOR	FRAME	DOOR	REMARKS							
	MAT'L	TYPE	THK.	MAT'L	SILL	JAMB	HEAD	HW			
101A & B	PR 3'-0"	7'-0"	AL/GL	14	4	10	3		TEMPERED GLASS		
103A	3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	7	6	6	4	STORAGE
108A	3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	5	4	--	2	EXTERIOR DOOR
109A	3'-0"	7'-0"	HM	FLUSH	1 3/4"	HM	7	6	6	4	OFFICE
115A	PR 2'-8"	7'-0"	AL/GL	14	4	10	3		TEMPERED GLASS		

DOOR #	DOOR	TYPE	REMARKS
A114A	1	3'-0" x 5'-0"	1 3/4" HOLLOW CORE METAL DOOR (WITH PRIVACY LOCK) WITH INTERIOR & EXTERIOR DOOR HANDLES.
A114B	1	2'-6" x 5'-0"	1 3/4" HOLLOW CORE METAL DOOR (WITH PRIVACY LOCK) WITH INTERIOR & EXTERIOR DOOR HANDLES.
A114C	1	2'-6" x 5'-0"	1 3/4" HOLLOW CORE METAL DOOR (WITH PRIVACY LOCK) WITH INTERIOR & EXTERIOR DOOR HANDLES.
A116A	1	3'-0" x 5'-0"	1 3/4" HOLLOW CORE METAL DOOR (WITH PRIVACY LOCK) WITH INTERIOR & EXTERIOR DOOR HANDLES.
A116B	1	3'-0" x 5'-0"	1 3/4" HOLLOW CORE METAL DOOR (WITH PRIVACY LOCK) WITH INTERIOR & EXTERIOR DOOR HANDLES.
A116C	1	2'-6" x 5'-0"	1 3/4" HOLLOW CORE METAL DOOR (WITH PRIVACY LOCK) WITH INTERIOR & EXTERIOR DOOR HANDLES.
DUMPSTER - DOUBLE DOOR	PR 3'-0"	7'-0"	6" SOLID HOLLOW METAL FRAME DOUBLE DOOR WITH LOCK AND LOUVERS (ONE PER DOOR). PAINTED VERIFY COLOR WITH OWNER. NO PREP HOLE.

REFER TO SHEET A06D FOR ADA STANDARDS AND REQUIREMENTS.

GENERAL NOTES

- ALL EXTERIOR DOORS TO HAVE WEATHER STRIPPING AND SWEEP.
- HARDWARE TO BE COORDINATED AND APPROVED BY OWNER PRIOR TO INSTALLATION.
- HARDWARE TO MEET ALL LOCAL, STATE AND NATIONAL BUILDING CODES.
- ALL HARDWARE IS SCHLAGE D SERIES UNLESS NOTED OTHERWISE.
- HARDWARE FINISH AS INDICATED IN HARDWARE SCHEDULE.
- HARDWARE SUPPLIER TO SUBMIT HARDWARE SCHEDULE TO G.C. FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL LOCKS TO BE ON 'MASTER KEY SYSTEM'.
- VERIFY ALL DOOR SPECS WITH OWNER BEFORE HAND.

HW SET NO.	BUTTS		CLOS		LOCKS		STOPS		PULL		MISCELLANEOUS										REMARKS	
	T	B	O	N	L	R	L	R	L	R	M-1	M-2	M-3	M-4	M-5	M-6	M-7	M-8	M-9	M-10		
1		6								1												ALUM. & GLASS ENTRANCE DOORS
2	3							3			1	1	1	1	1							1 H.M. EXTERIOR DOOR
3		6			2					2												2 ALUM. & GLASS ENTRAN. DOUBLE DOORS
4	3					1		3	1													1 INTERIOR DOOR W/ PRIVACY LOCKSET
5	3					1		1	1	1												1 UTILITY ROOM

HARDWARE

BUTTS
B-1 STANLEY, FBB-179, US26D
B-2 KAWNEER, 4-1/2" X 4" BALL BEARING BUTT HINGE.
NRP, SATIN NICKEL
FINISH W/ LACQUER COATING

CLOSERS
C-1 YALE #55
C-2 KAWNEER, SAM-11, SINGLE ACTING

MANUAL CONCEALED OVERHEAD CLOSER LOCKSETS
L-1 LOCKSET, SCHLAGE ND40SPO, RHO, 626 (LEVER HANDLES)
L-2 PRIVACY LOCKSET, SCHLAGE, D40S, RHO, 626 (LEVER HANDLES)
L-3 PASSAGE LATCH, SCHLAGE, ND10S, RHO, 626 (LEVER HANDLES)
L-4 DEADBOLT, SCHLAGE, KEYED BOTH SIDES

STOPS, SILENCERS, ETC.
S-1 SILENCERS, TRIMCO
S-2 DOOR STOP, TRIMCO 1213ES, US26D

PULLS
P-1 KAWNEER, STYLE C09, US32D

MISCELLANEOUS
M-1 SARGENT ALARMED PANIC BAR, #5805 (OUTSIDE KEY CONTROL) WITH FULL TRIM SCHLAGE CYLINDER
M-2 THRU-DOOR VIEWER, BALDWIN #0150
M-3 THRESHOLD, NATIONAL GUARD 804, ALUM.
M-4 WEATHER STRIPPING, NATIONAL GUARD 36A, ALUM.
M-5 KICK PLATE, 12" HIGH X DOOR WIDTH LESS 2"
M-6 STAINLESS STEEL, IVES 8500-826D
M-7 PB-21 PUSH BAR, STANDARD 1" TUBULAR PUSH BAR (5304 MODEL).
M-8 COATHOOK, HEWI, 520.60.1 BLACK
M-9 WRAP AROUND DOOR EDGE GUARD ENTRY AMOR - EWP-133-S OR
M-10 PEEP HOLE - DS238 BLACK ANODIZED

Western Fabricating, LLC
Midwall™ Kniewall®
 Product Data Sheet

Product Name: Midwall™
 Distributor: Western Fabricating, LLC
 17061 Alcoa Commerce Court, Fort Myers FL 33907
 phone: (239) 476-5282
 email: sales@kniewall.com
 web: www.kniewall.com



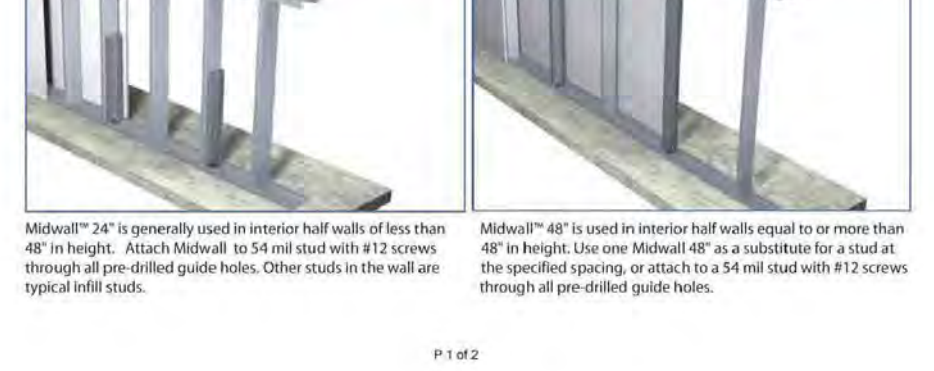
Product Description:
 Midwall™ is a metal alternative in partial wall assemblies, designed to support out-of-plane loading in cantilevered partial wall systems that are unsupported at the top track.

The out-of-plane loads are transferred to the floor system through a 1/2" thick plate welded in the flange of the member with two 3/8" diameter fasteners (or one 1/2" diameter fastener for 2000W) used for the connection.

Wall Width (in)	Midwall™ Member	Minimum Panel Size @ 8' (EQS) (sq. ft.)	Maximum Area Moment, Ix (in ⁴)
1.5	2000W	1.38	5.310
3.0	3000W	3.02	15.340
6.0	6000W	6.07	19.540

Notes:
 Midwall™ is currently available in two heights and three depths. Product nomenclature lists the member depth first followed by the height in inches.

Example: 6" web depth, 24" wall assembly
 Designation: 6020W-24



Midwall™ 24" is generally used in interior half walls of less than 48" in height. Attach Midwall™ to 5/8" metal stud with #12 screws through all pre-drilled guide holes. Other studs in the wall are typical infill studs.

Midwall™ 48" is used in interior half walls equal to or more than 48" in height. Use one Midwall™ 48" as a substitute for a stud at the specified spacing, or attach two 48" metal stud with #12 screws through all pre-drilled guide holes.

23 LOW WALL DETAILS (OR APPROVED EQUAL)
 SCALE: NTS

Design Information:
 Color: MC 2009
 Refer to Section 1607.2.1

Applications:
 - Handrails and Guards
 - Interior Half Walls
 - Partitions
 - Ribbon Windows

Hardware and Guards:
 - 5/8" nut applied in any direction at the top of wall
 - 200 lbs applied in any direction at any point at the top of the wall

Permits & Ribbon Windows:
 - Design Wind Pressure
 - Interior Wall Walling
 - Design Internal Pressure

Design Procedure:
 The top track spanning between Midwall™ members acts as a load distribution member capable of distributing localized loads to multiple Midwall™ members. It is recommended to design the track in these applications. Refer to the diagram above for an example of the distribution of the point load, S, to adjacent Midwall™ supports. At the end of the wall, Midwall™ is required at adjacent stud spacings. Designated spacing begins after two adjacent end supports.

Min. Anchor Section in One Anchor (ft)

200 Midwall™ 24" Anchorage Options (1,000 psf minimum concrete strength)
1.000 1/2" Wedge Bolt, 2' Embed (Shown), 1/2" Carbon Steel Hook Bolt 3 Expansion Anchors, 2' Embed (Shown)
1.000 1/2" Wedge Bolt, 2' Embed (Shown), 1/2" Carbon Steel Hook Bolt 3 Expansion Anchors, 2' Embed (Shown), 1/2" In-Block Wedge, 3' Embed (Shown)
1.000 1/2" Carbon Steel Hook Bolt 3 Expansion Anchors, 2' Embed (Shown), 1/2" Carbon Steel Hook Bolt 3 Expansion Anchors, 2' Embed (Shown)

Min. Anchor Section in One Anchor (ft)

300 Midwall™ 36" Anchorage Options (4,000 psf minimum concrete strength)
1.500 3/8" Wedge Bolt, 3' Embed (Shown), 3/8" Carbon Steel Hook Bolt 3 Expansion Anchors, 3' Embed (Shown)
2.000 3/8" Wedge Bolt, 3' Embed (Shown), 3/8" In-Block Wedge, 3' Embed (Shown), 3/8" Carbon Steel Hook Bolt 3 Expansion Anchors, 3' Embed (Shown), 3/8" In-Block Wedge, 3' Embed (Shown)
2.500 3/8" Wedge Bolt, 3' Embed (Shown), 3/8" In-Block Wedge, 3' Embed (Shown), 3/8" Carbon Steel Hook Bolt 3 Expansion Anchors, 3' Embed (Shown), 3/8" In-Block Wedge, 3' Embed (Shown)
3.000 3/8" Carbon Steel Hook Bolt 3 Expansion Anchors, 3' Embed (Shown), 3/8" Carbon Steel Hook Bolt 3 Expansion Anchors, 3' Embed (Shown)



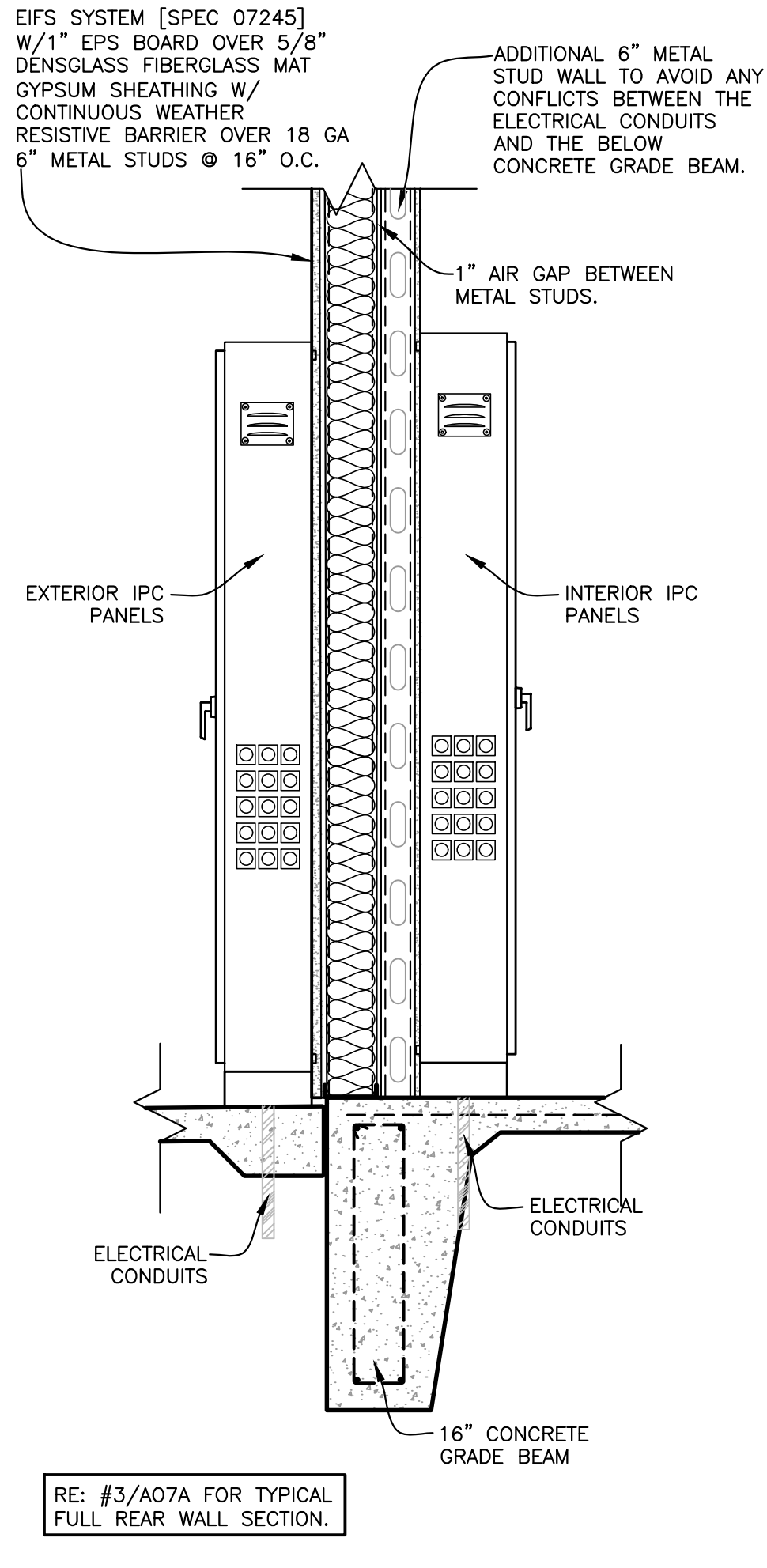
24" Midwall™ Installation Guide

Place 24" Midwall™ against stud web. Push back plate to anchor through pre-drilled guide holes.

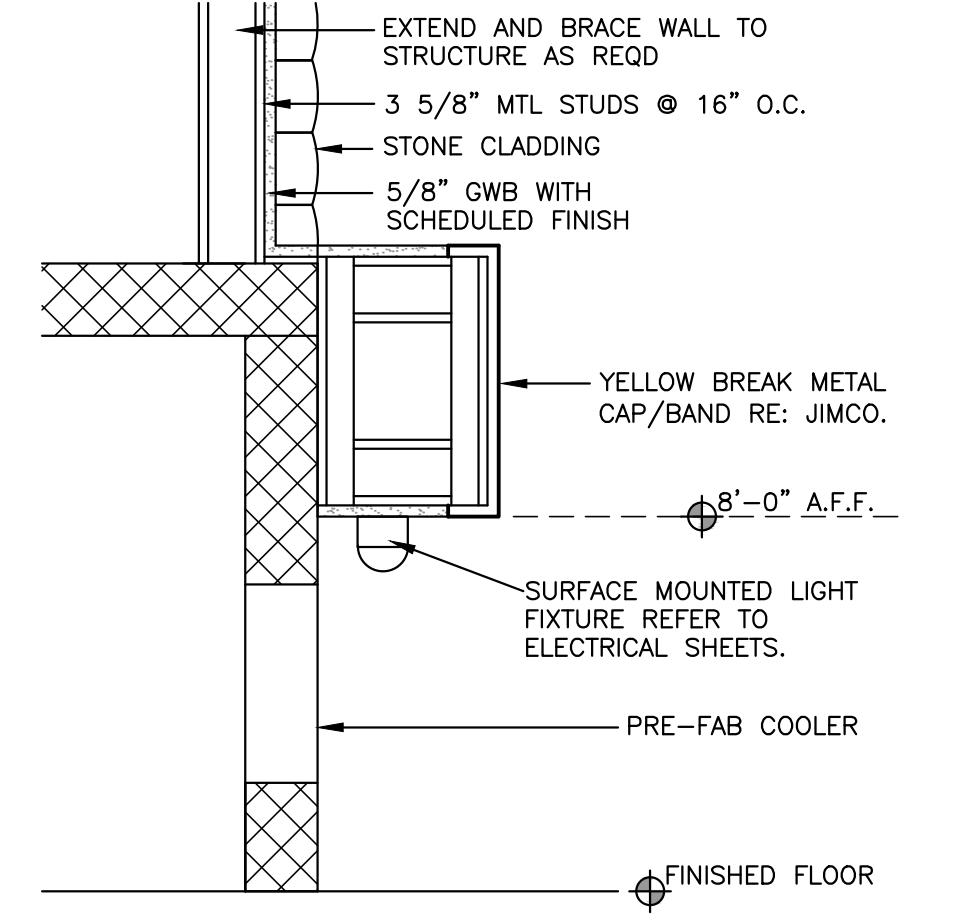
Fasten anchors to floor with specified washers.

Attach 24" Midwall™ to the stud web with #12 screws through pre-drilled guide holes in vertical leg.

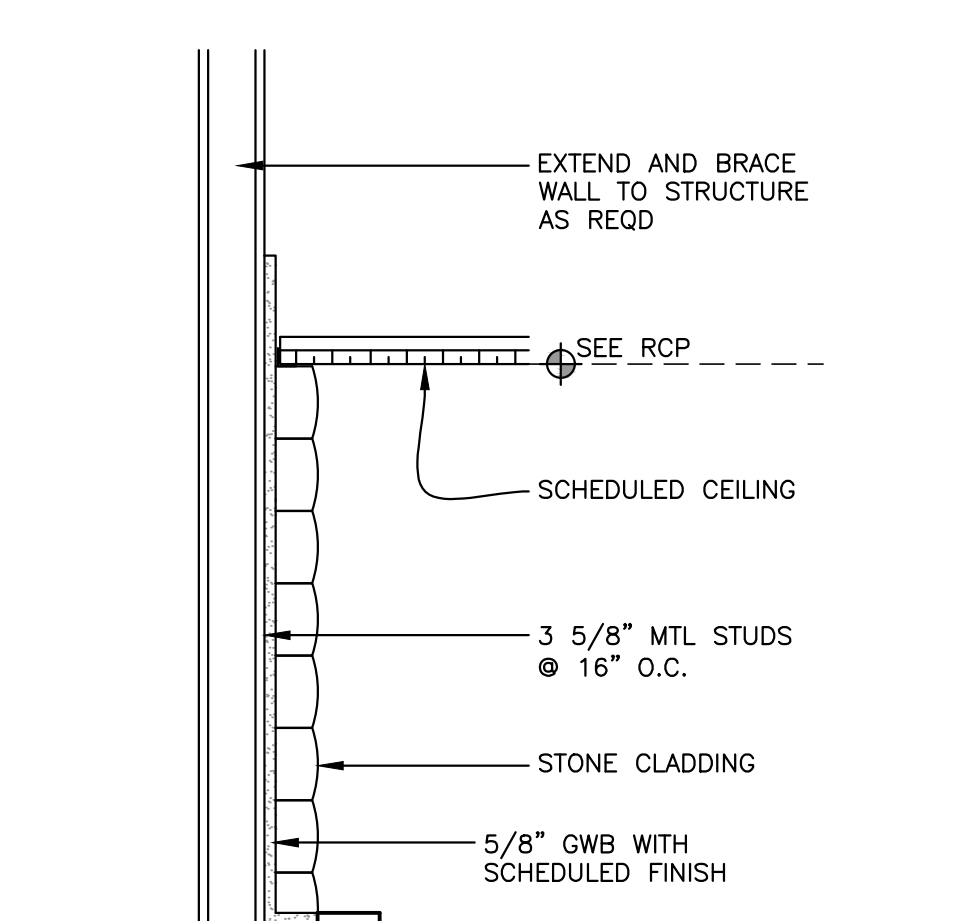
Western Fabricating, LLC
 (239) 676-5282
 P 2 of 2



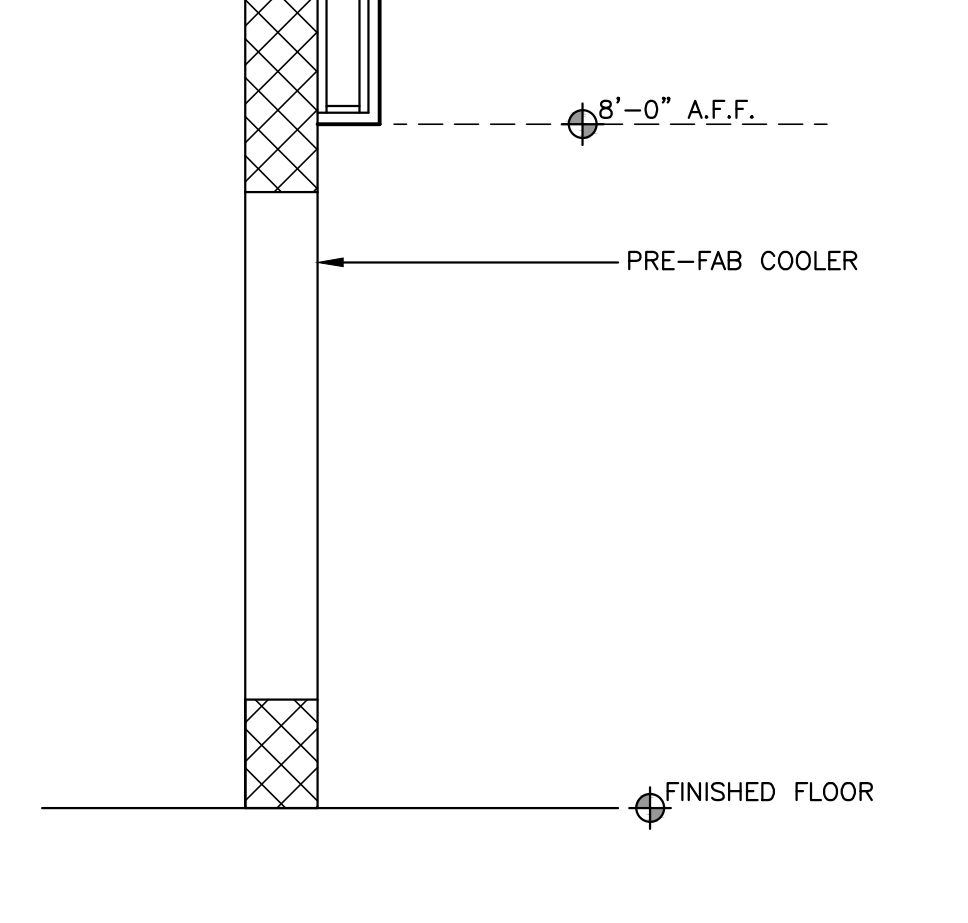
17 BACK WALL SECTION - UTILITY ROOM
 SCALE: NTS



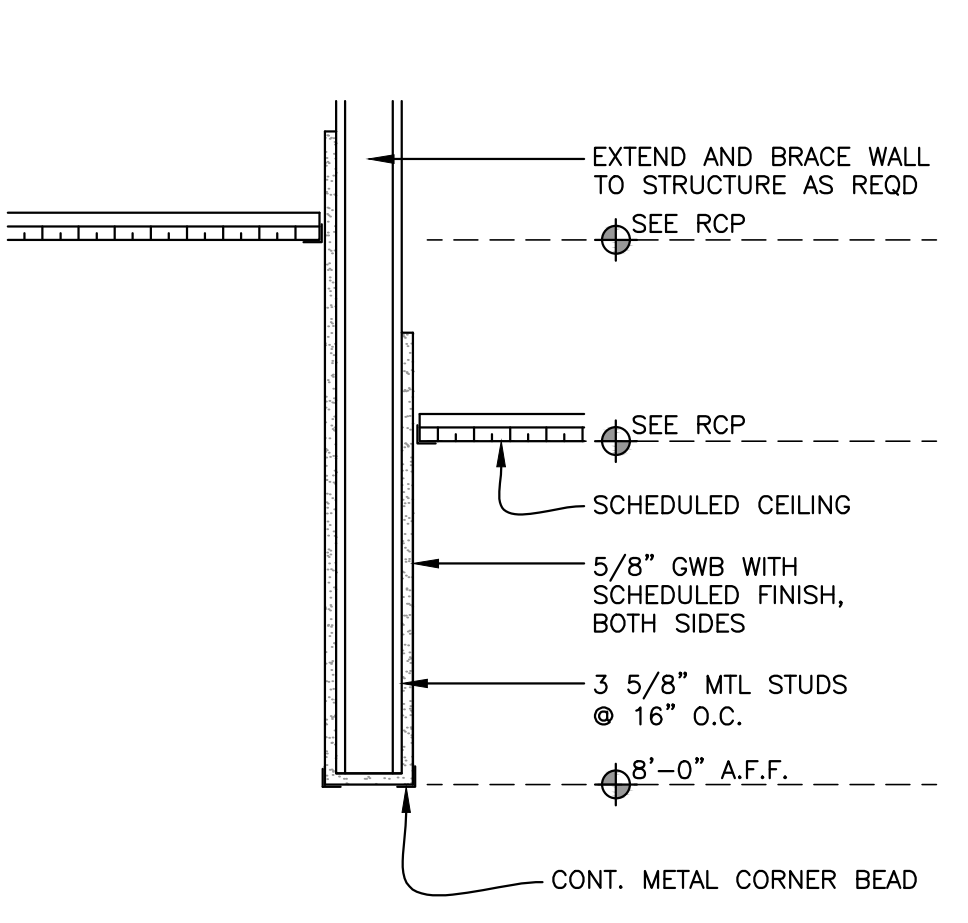
16 SOFFIT DTL - BEER CAVE TYP.
 SCALE: NTS



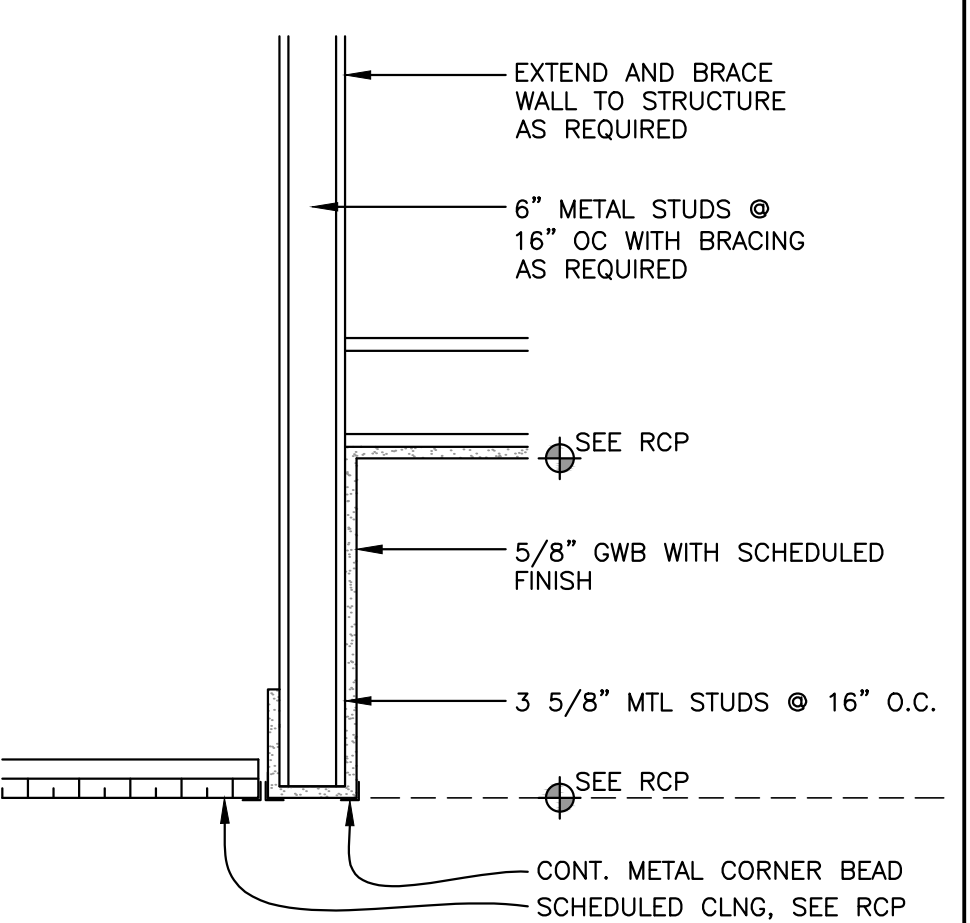
14 SOFFIT DTL - COOLER TYP.
 SCALE: NTS



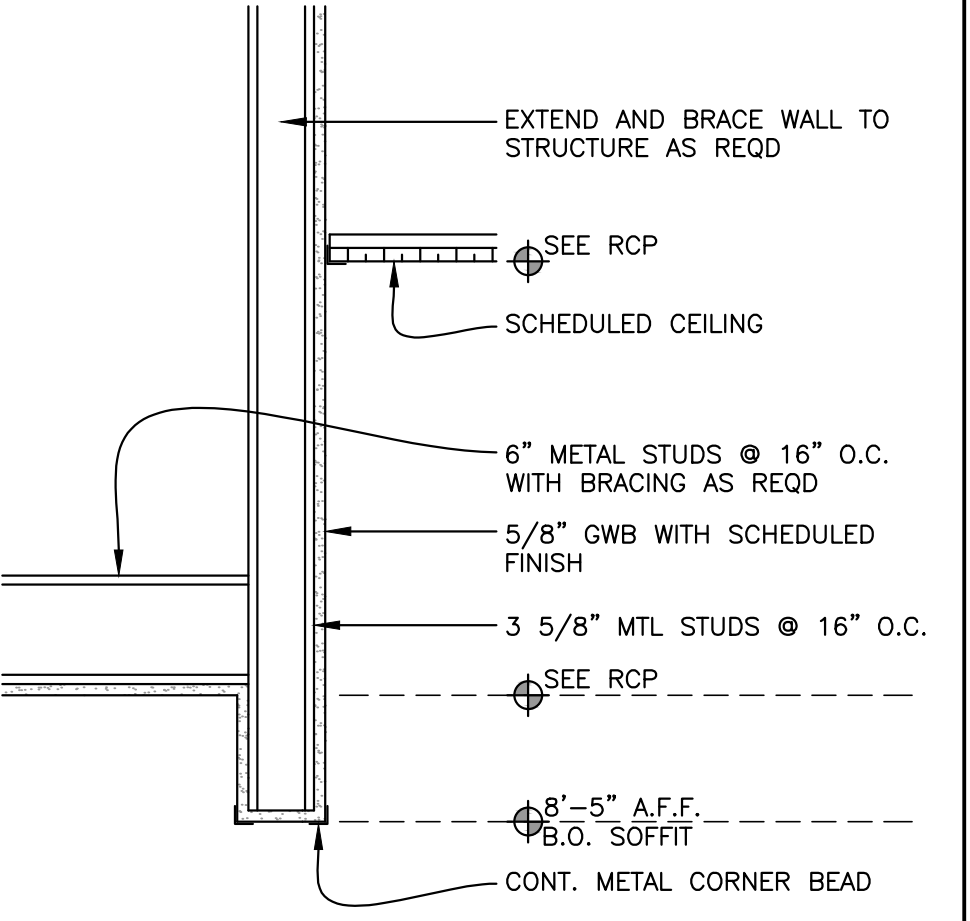
13 SOFFIT DTL - HALLWAY TYP.
 SCALE: NTS



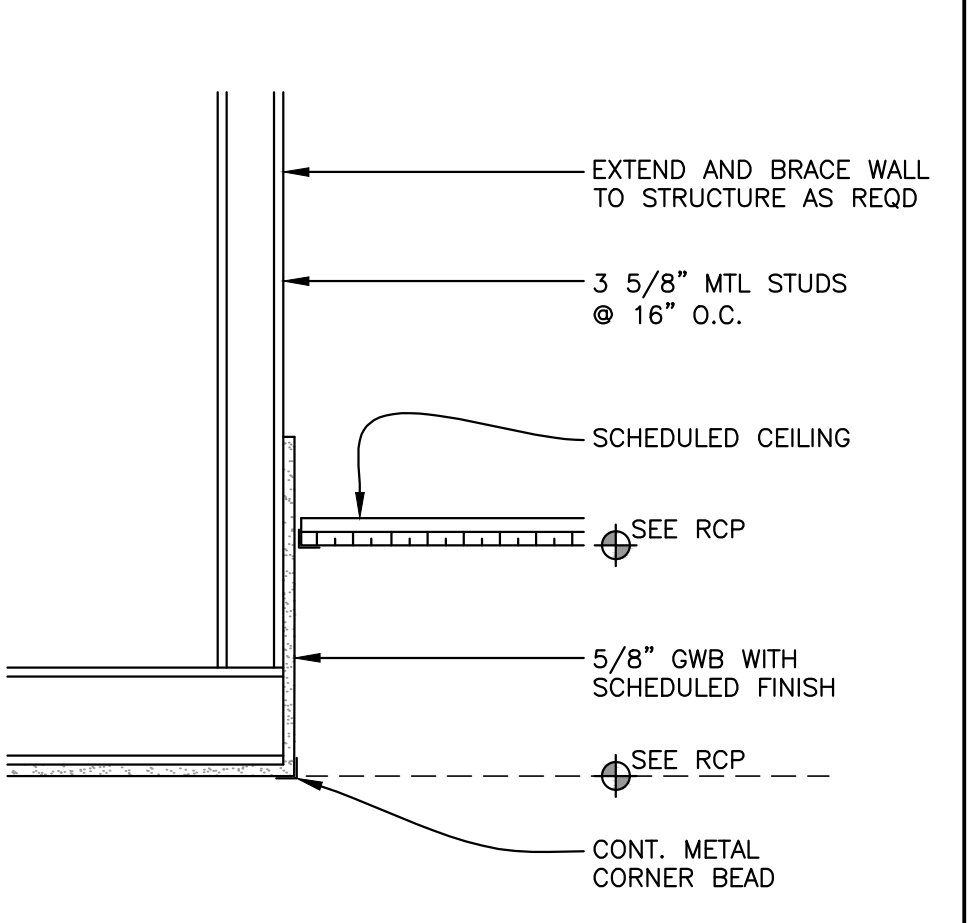
9 SOFFIT DTL - COOLER TYP.
 SCALE: NTS



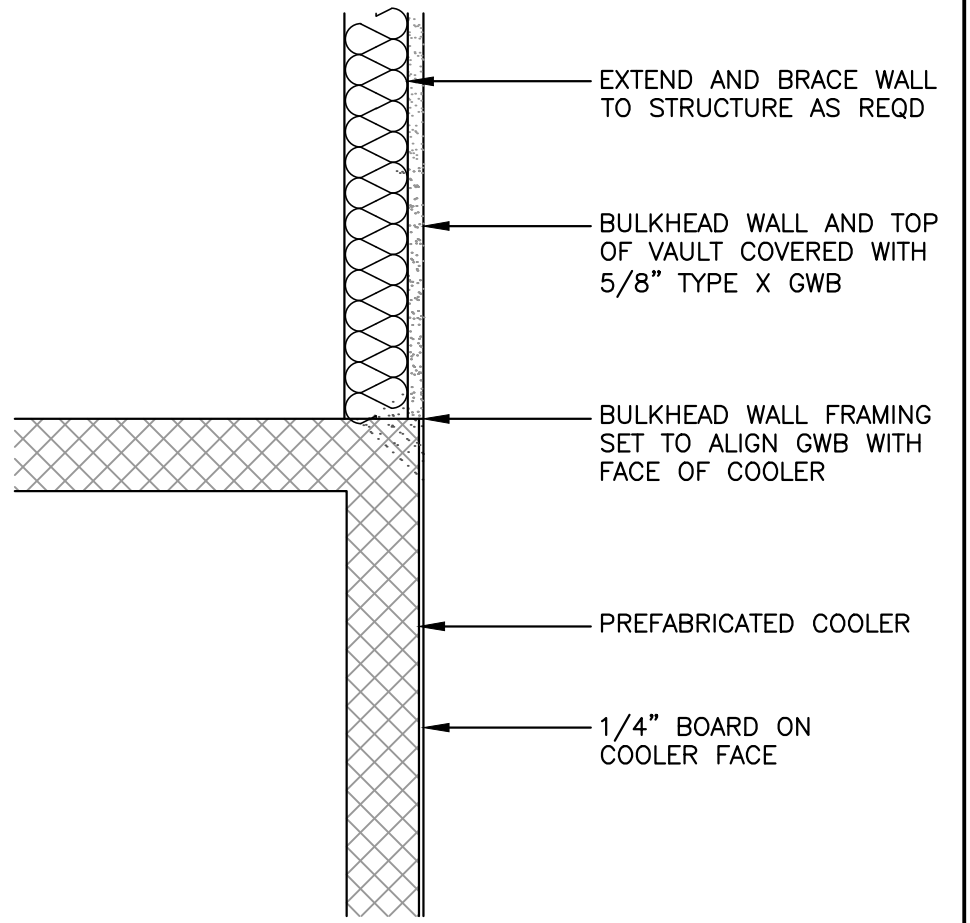
12 SOFFIT - BEVERAGE AREA TYP.
 SCALE: NTS



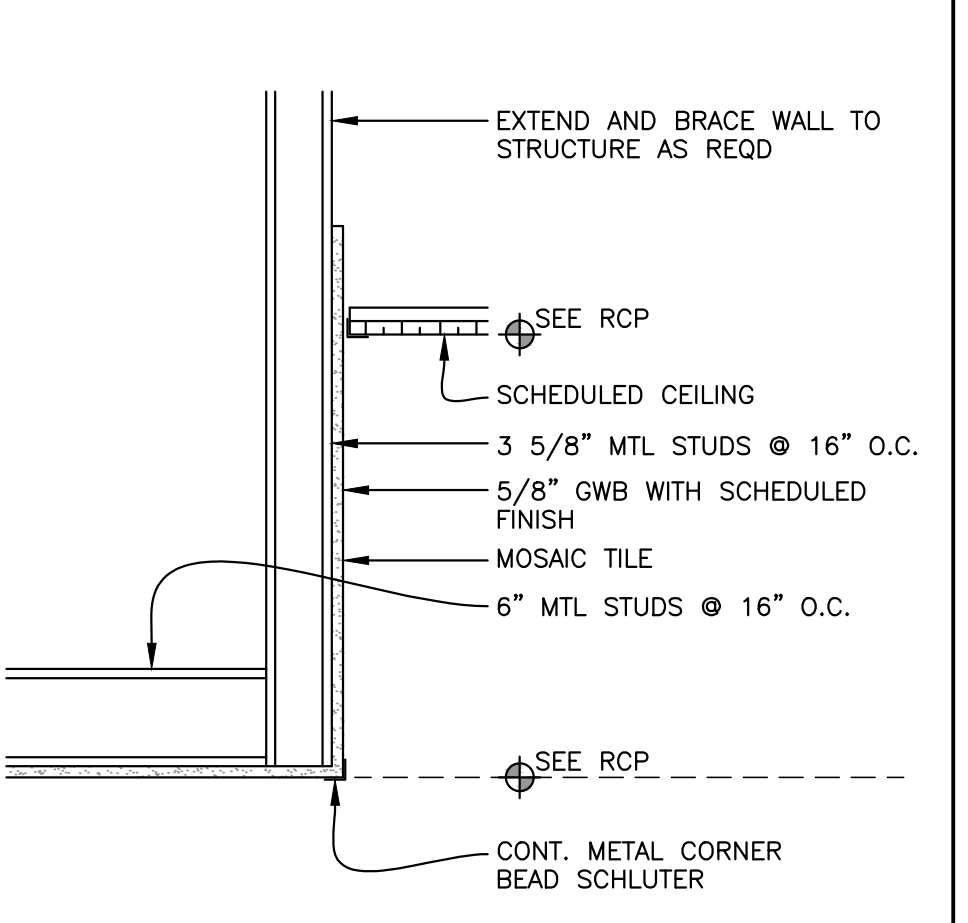
11 SOFFIT - RESTROOM ENTRY TYP.
 SCALE: NTS



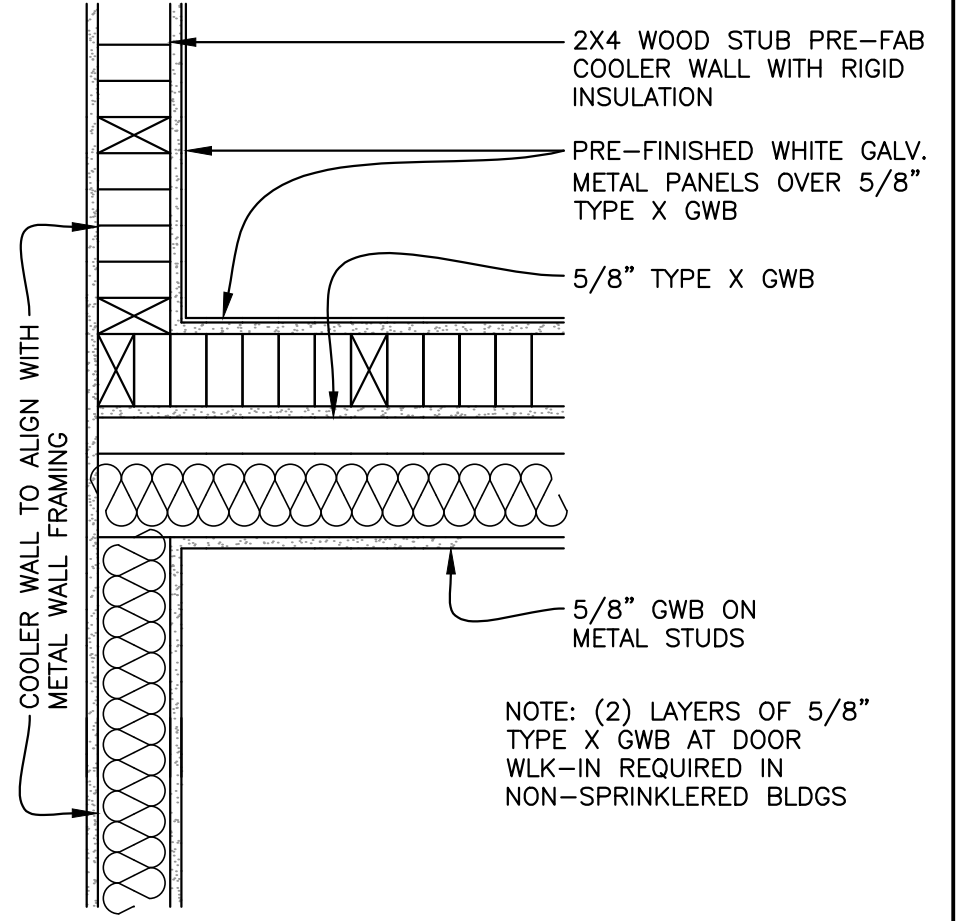
10 SOFFIT DETAIL TYP.
 SCALE: NTS



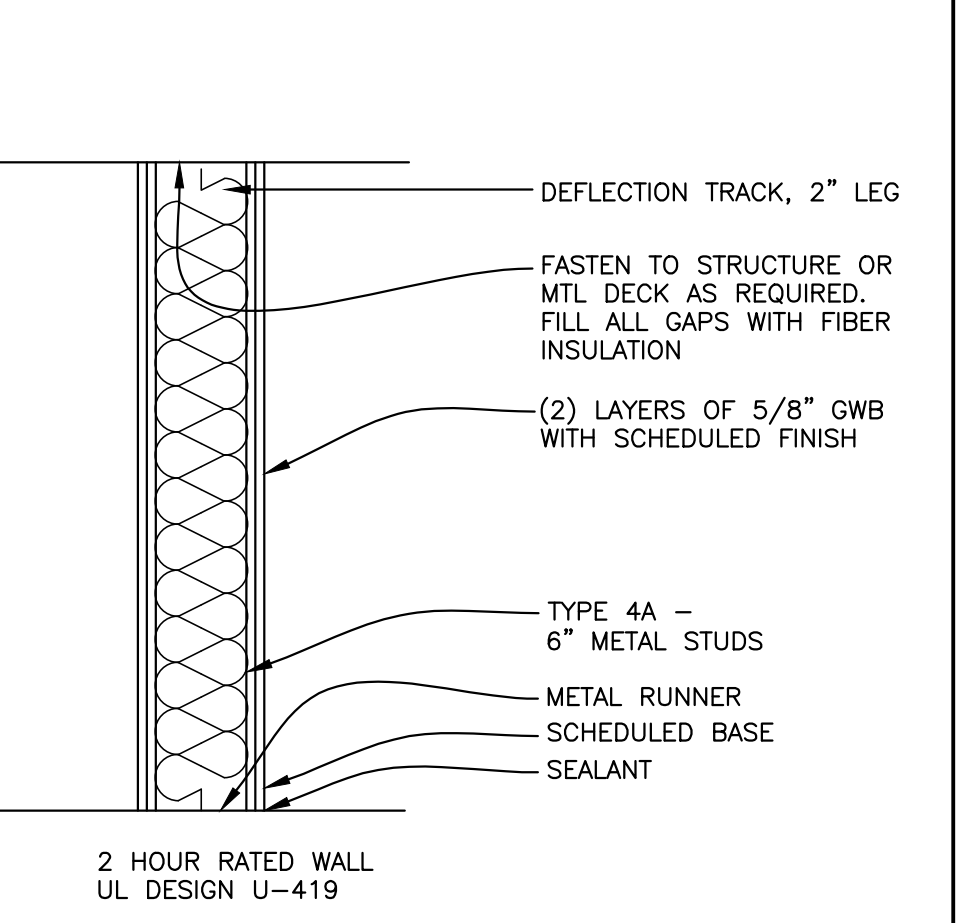
5 PARTITION TYPE - 3A
 SCALE: NTS



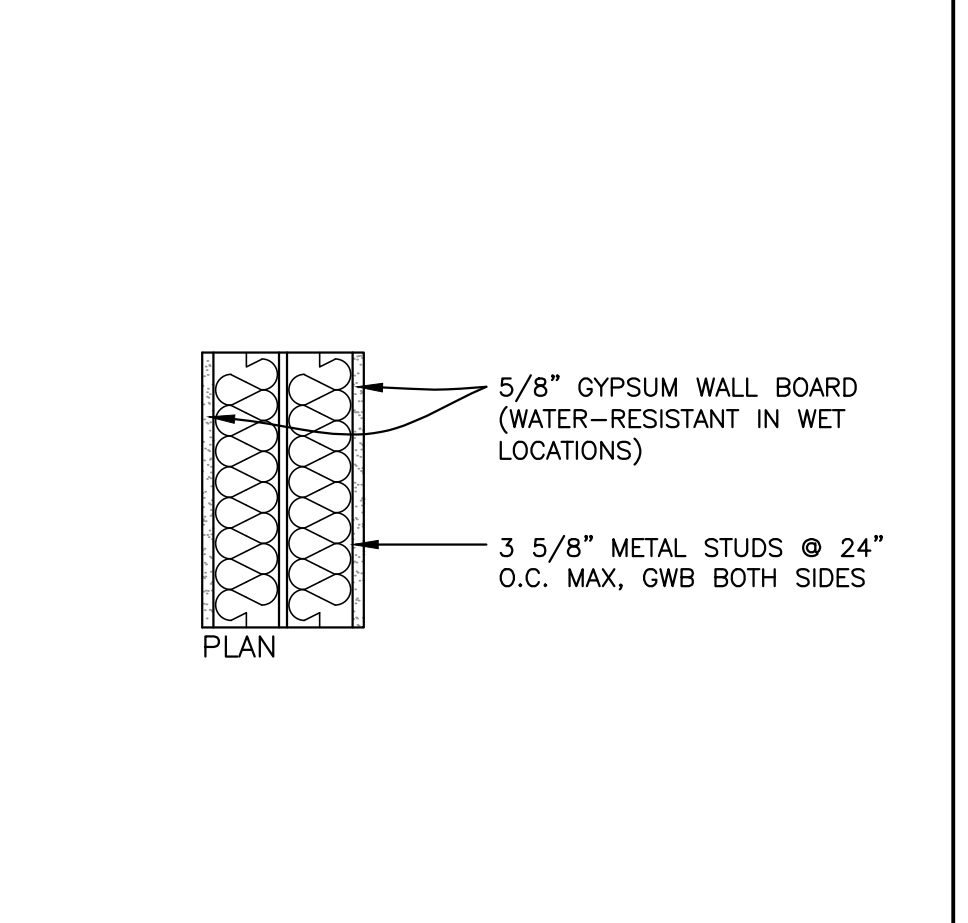
8 SOFFIT DTL - CASHIER TYP.
 SCALE: NTS



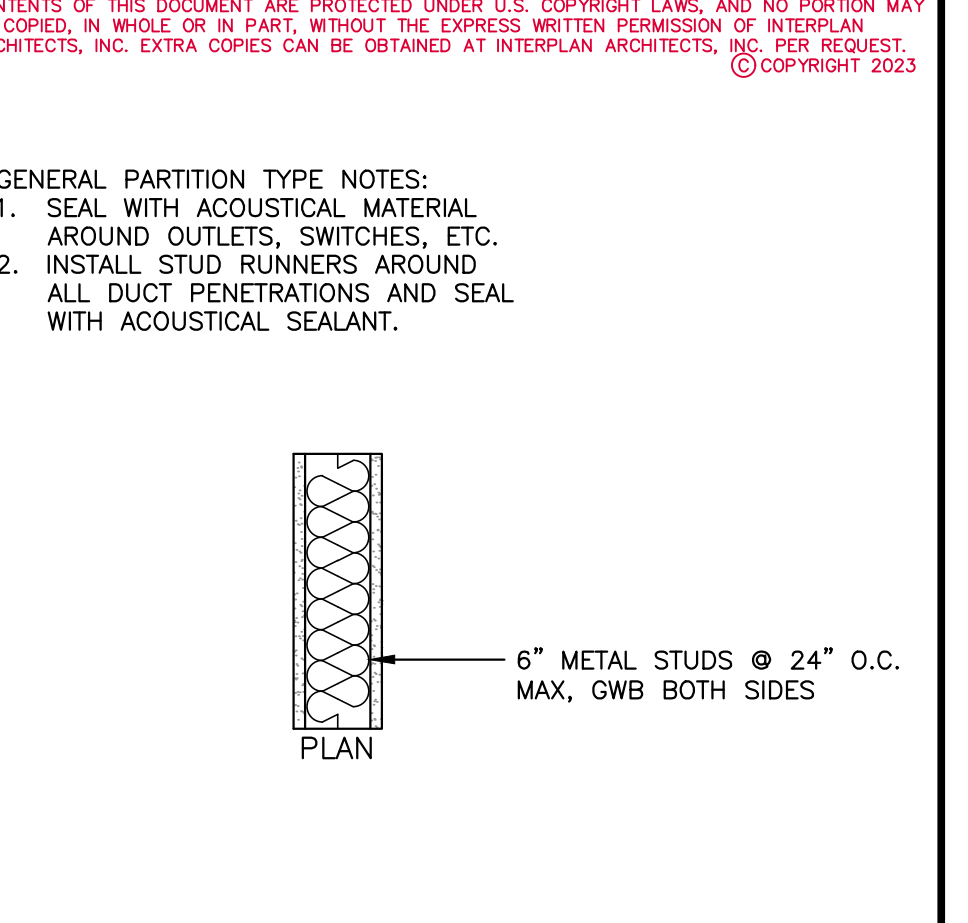
7 COOLER-WALL TRANSITION
 SCALE: NTS



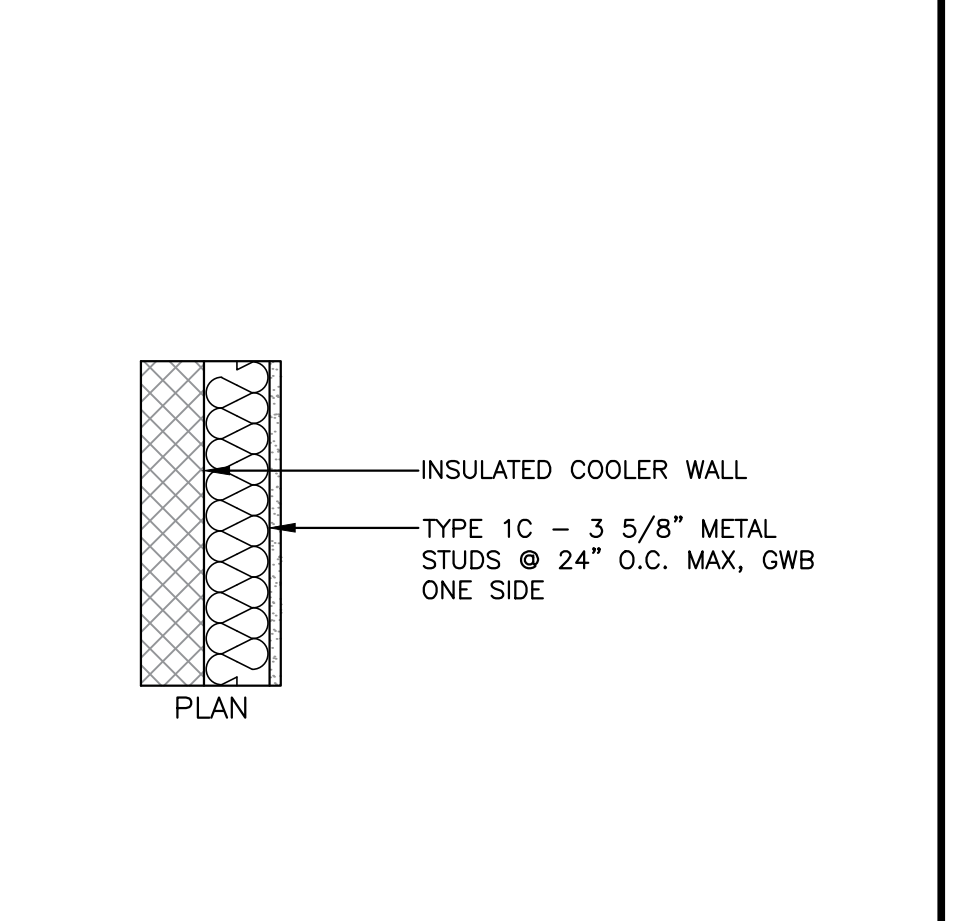
6 PARTITION TYPE - 4A
 SCALE: NTS



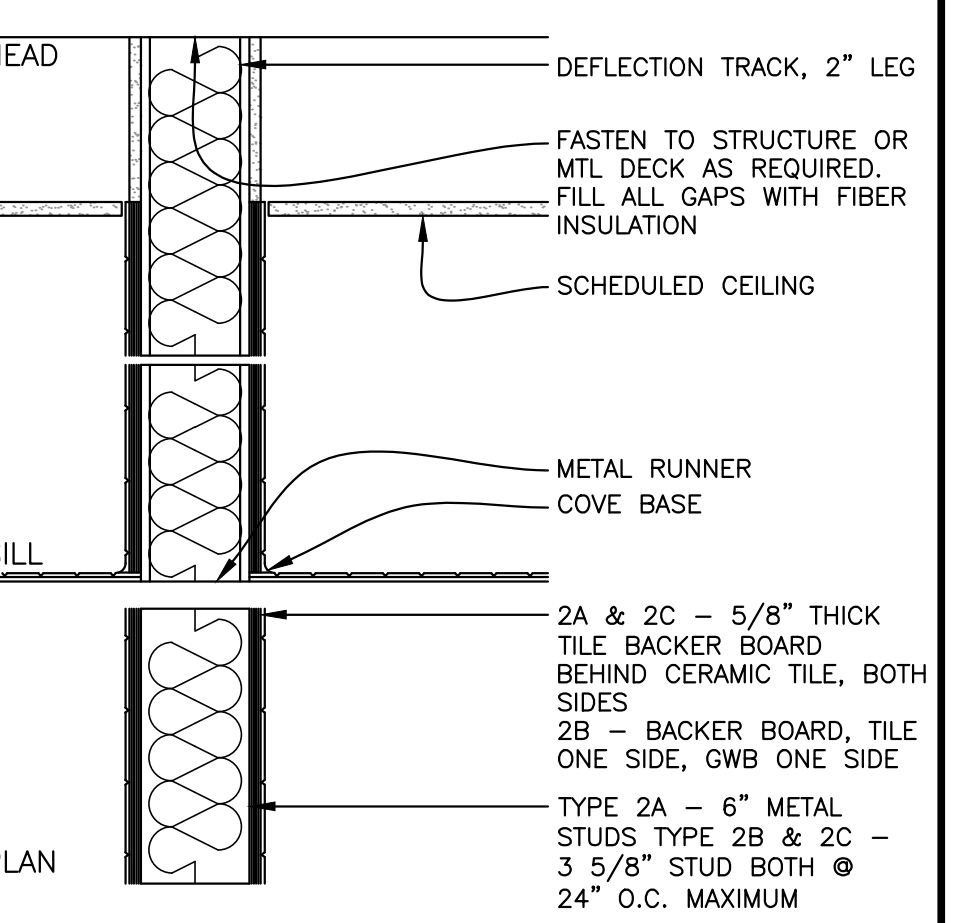
3 PARTITION TYPE - 2D
 SCALE: NTS



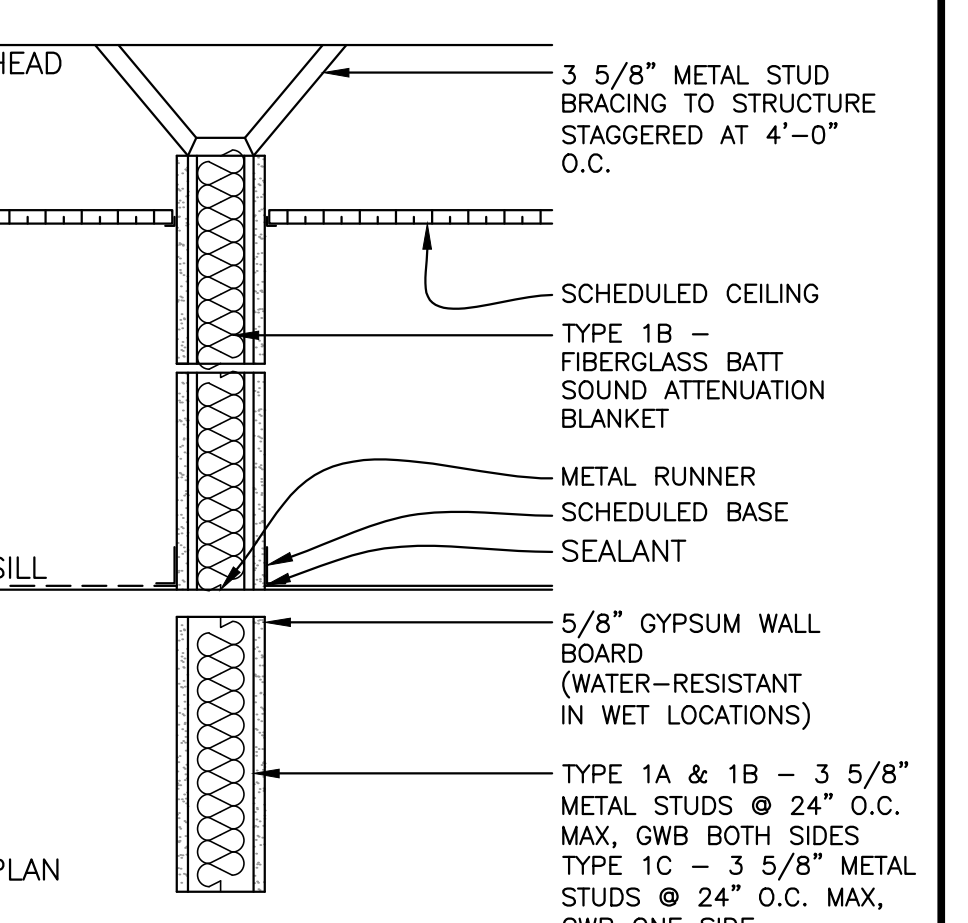
4 PARTITION TYPE - 2E
 SCALE: NTS



3 PARTITION TYPE - 2D
 SCALE: NTS



2 PARTITION TYPE - 2A, 2B, 2C
 SCALE: NTS



1 PARTITION TYPE - 1A, 1B, 1C
 SCALE: NTS

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INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

PROJECT NUMBER
CEF22-A08A.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL

 DATE SIGNED: 03-28-24
 LICENSE EXP.: 11-30-24

DRAWINGS ISSUED FOR:

DATE	ISSUED FOR
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK.

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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
CONSTRUCTION DETAILS

DRAWING NUMBER
A08B

SECTION 01010 - SUMMARY OF WORK

A. SCOPE: The Work, as defined in the general conditions as described in the Contract Documents is summarized as follows: Construct a single story retail facility with metal stud frame construction, reinforced plaster wall panels, metal stall standard fascia, single ply membrane roof, on metal decking, aluminum windows and entrances, interior drywall partitions, millwork, hollow metal doors and frames, acoustic ceilings, floors, finishes toilet room accessories, equipment site work, and mechanical, plumbing and electrical work.

B. RELATED WORK PROVIDED BY THE OWNER Refer to schedules on drawings. C. PRIOR ENTRY: 1. Owner reserves the right to prior entry to completed and partially completed areas for performance of other work to be performed under other contracts. 2. Confine construction operations, materials, and equipment storage, apparatus, temporary construction, equipment, and other construction related activities to such limits and portions of the Project Site, as designated by the owner, and indicated on the drawings. 3. Do not use adjacent properties including private properties and that of public domain, for material and equipment storage or for construction operations without the specific written approval of any and all authorities having full and proper jurisdiction.

SECTION 01018 - OWNER PROVIDED DOCUMENTS

A. COPIES OF CONTRACT DOCUMENTS: The owner will supply to the contractor one set of contract documents, free of charge, for construction purposes. Additional sets will be available to the Contractor if he pays for the cost of reproduction. B. COPIES OF SUPPLEMENTARY CONTRACT DOCUMENTS: The following owner provided documents are hereby designated as Supplementary Contract Documents. The architect does not guarantee their contents as to accuracy, completeness, or suitability. 1. Soils Report 2. Survey

SECTION 01025 - MEASUREMENTS AND PAYMENT

A. PROGRESS SCHEDULE AND COST BREAKDOWN: Within 21 days after the execution of the Contract, submit, in acceptable form, anticipated progress schedule showing subdivision of contract into various items of permanent construction, stating quantities and prices as a basis for computing value to owner of permanent reusable parts of a facility to be sold on a monthly basis. No payment will be made to the Contractor until such a schedule has been submitted and approved. B. PROGRESS PAYMENTS: Monthly payments will be made of the value of completed work, and materials stored at the site, less retainage. Owner will not pay for materials stored at site. Payment of owner will be made in reasonable time of the date the application was received. Contractor will pay for all permits, fees, local and state taxes. 1. RETAINAGE: Retainage of 10 % of amount due to the Contractor will be held by the owner until 30 days after substantial completion.

SECTION 01070 - DEFINITIONS

A. THE CONTRACT DOCUMENTS: The Drawings are those enumerated in the "List of Drawings" and identified in the contract. The drawings in many instances are schematic and do not define exact locations of every part and piece of the work. Items furnished may vary in dimension and in other ways from specific items called for in the Contract Documents. In some cases determine the exact location of each part by measurements, drawings from equipment manufacturers, and coordination with other work. B. SPECIFICATIONS: 1. The format of the Specifications divides the work into Major Divisions and Work Sections attempts to group the work in each section by source of material or by trade, solely for the convenience of the users. No trade jurisdictions are intended or implied. 2. The outline form and imperative voice are typically used to omit repetitious use of words or word groups (such as "furnish and install", "Contractor shall" and other similar statements), and to call for the type of materials and methods and limit the use in the briefest possible manner. Such words omitted from the text shall be construed to be included just as if they were repeated each time.

SECTION 01070 - DEFINITIONS

C. MINIMUM COMPLIANCE STANDARDS AND INDUSTRY MATERIALS and operations specified by reference to published specifications of a manufacturer, a society, an association, a code, or other referenced standard, shall comply with the current requirements of referenced document, officially published on or before the date of the receipt of bids. SECTION 01100 - TESTING LABORATORY SERVICES A. An independent testing laboratory may be selected by the owner to inspect and test the materials and methods of construction as hereinafter specified for compliance with the contract documents. B. The owner will pay for the initial laboratory testing of materials that comply with the requirements of the contract documents. The contractor shall pay for the testing and retesting of the material that do not comply with the requirements of the contract document. C. STRUCTURAL CONCRETE: 1. ADEQUATE TEST: Check the proposed aggregate in accordance with the ASTM C 33. 2. MIX DESIGN: Check the proposed mixes for proportions, water cement ratio and slump in accordance with ACI 613 and 318. 3. SLUMP TEST: Take slump test ASTM C 143 at the beginning of each days pouring operations and whenever water adjustments are noticeable of slump excess 4. SAMPLING: D. Make five standard cylinders at the beginning of each placement. Take extra samples at noticeable change in the concrete makeup. E. Take four additional test cylinders for every one hundred cubic yards or fraction thereof. Cure of ASTM C 193: F. Perform sampling in compliance with ASTM C 172 5. TESTING: Test cylinders for compression in accordance to ASTM C 39. A. LABORATORY CURE: 2 cylinders in accordance with ASTM C 192. B. FIELD CURING: remaining cylinders in accordance with ASTM C 31. C. Test Cylinders two at seven days, and two at twenty eight days averaging test results. Testing remaining cylinders at fifty six days.

SECTION 01510 - TEMPORARY FACILITIES

A. CONSTRUCTION FACILITIES: Provide the following facilities for the use of all personnel, subcontractors and all authorized personnel. 1. TOILET FACILITIES: Provide sanitary and adequate facilities to meet the legal requirements. 2. DRINKING WATER: provide clean drinking water with disposable paper cups and containers for the used cups. 3. ELECTRIC: Provide connections and controls for 115V, single phase power with control within 200 feet of locations used. 4. LIGHTING: Provide 50 foot-candles for construction purpose where daylight is not adequate. 5. CONSTRUCTION WATER: provide adequate water lines and hoses with control within 200 feet of locations used 6. HOISTING FACILITIES: Provide hoisting equipment as necessary, for light construction material complying with jurisdictional safety codes. B. FIELD OFFICE: 2. Provide and maintain a weathertight building with lockable door and windows to serve as job office available to the contractor, subcontractor and owner. Provide light, air-conditioning and heating as needed. Provide a drawing table with lockable doors and a drafting bench. Remove office from the premises when one can be set up inside the building. A. STORAGE FACILITIES: 3. Provide and maintain a weathertight storage facilities raised with a six inch minimum above the ground with sides and tops enclosed, and lockable doors. 4. Replace materials improperly stored and damaged by normal or predicted weather conditions. Remove storage facility when materials can be properly stored in a weathertight condition. D. GRAPHICS: 4. JOB SIGN: e. SIZE: nominal 64 square feet b. MATERIAL: 7 inch APA exposure 1 or exterior plywood A-C grade or MD overlay. c. POSTS: 4 inches by 4 inches, 2 required d. FRAMING AND BRACES: 2 inches by 4 inches. e. LETTING: Name of job, owner, contractor. Project sign will be done by a professional sign pointer f. LAYOUT AND COLOR SELECTION: As selected solely by the owner. E. RESTORATION OF SIGNS: No advertising signs will be installed anywhere on the sight

SECTION 01600 - MATERIALS AND EQUIPMENT

A. SUBSTITUTIONS: 1. Submit all proposed substitutions after the award of the contract in writing with sufficient information samples and differences in cost of evaluation. Do not make substitutions unless approved in writing. 2. Prepare quotations for proposed changes in the work in a "break down" form giving the number of units, unit cost material, hours of labor, hourly cost of labor, tool costs, overhead and profit, reflecting credit as well extras. B. USE MATERIALS THAT ARE: 1. New and high quality suited to the use of intended except wherein noted as use. 2. Suitable for the function intended. 3. Corresponding in quality to related materials in the absence of a definitive Specification. 4. Of good experience where exposed to view. 5. Of one manufacturer or source for the same specific purpose with uniform appearance and physical properties. 6. Plainly marked and delivered to the site in originally unopened containers when the nature of container is suitable for containers. C. WORK BY OTHERS: Arrange to accommodate N.L.C. work. When information is adequate request more information before proceeding. D. Follow manufacturers instructions. When such instructions are in conflict with the Contract Documents make request for clarification before proceeding. Keep a copy of the manufacturers instructions on the job. E. Perform high quality professional workmanship. Join material to uniform, accurate fit so that they meet with straight lines, free of smears or overlap. Install exposed materials appropriately leveled, plumb, and accurate right angles or flush with adjoining materials. Attach materials with sufficient strength, number and spacing of attachments that will not fail until materials joined and are broken or permanently deformed.

SECTION 01700 CONTRACT CLOSE-OUT

A. SUBSTANTIAL COMPLETION: 1. When the contractor determines that the Work is substantially complete, the contractor will send a written notice to the owner that the project is substantially complete and requests an inspection of the work. 2. Within a reasonable time after receipt of the contractors notice claiming substantial completion, the owner will make an inspection of the work to determine the state of completion and will prepare a punch list of items requiring completion or correction. 3. If during the course of inspection the owner determines the work is not substantially complete, he will immediately complete the inspection and will notify the contractor that the work does not comply with requirements of substantial completion. 4. Immediately after the receipt of notice that the work is not substantially complete the contractor shall correct the deficiencies and send a second written notice to the owner as specified above. 5. When the owner feels the work meets the requirements of substantial completion, the owner will prepare a certificate of substantial completion, AIA Document G704. 6. The contractor shall prepare and submit to the owner a list of items to be completed or corrected within the time constraints established on the certificate of substantial completion. 7. The owner will review and amend the list of items to be completed or corrected and append the complete list to the certificate of substantial completion. B. MANUALS, INSTRUCTIONS AND KEYS: 1. The contractor shall assemble and deliver to the owner printed or typewritten, operating servicing and maintenance and cleaning instructions and part list for all items of equipment provided as part of the contract. 2. Provide two copies of each required manual including mechanical and electrical portions of work. 3. The contractor shall provide services of skilled and competent supervisory personnel to instruct the owners personnel in operation and maintenance of all operating equipment and systems provided as part of the contract. 4. Upon completion of work, the contractor shall deliver all keys including master keys and any special keys and two copies of the keying ring to the owner and will assist the owner in deactivation of construction keyed locks used on the projects. C. RELEASE OF LIENS: 1. The contractor shall deliver to the owner a blanket release of liens covering all work performed under this contract, including that of subcontractors, subcontractors, vendors and other suppliers of materials and labor. Execute the release of liens on the documents similar to AIA Document G706 "Contractors affidavit of payment of debts and claims and G706A "Contractors affidavit of release of liens." 2. The forms will be executed by authorized officer and notarized. All required attachments will be included as noted on AIA document G706. If exceptions are listed in either AIA G706 or Document G706A, the contractor shall furnish bond satisfactory to the owner for each exception. 3. No final payment will be made by the owner to the contractor until all release of liens have been delivered to the owner. D. GUARANTEES, BONDS, AND INSPECTION CERTIFICATES: 1. The contractor shall have guarantees on up materials and workmanship as required by article 13 of the AIA general conditions and special guarantees and bond required by the contract document executed in the owners name. 2. Prior to making the application to final payment, the contractor shall collect and assemble all required guarantees and bonds and deliver them to the owner. 3. The contractor shall collect and assemble all required guarantees and bonds and deliver them to the owner. The contractor shall collect and assemble all required certificates of inspection, testing, approval, and deliver them to the owner. E. WARRANTIES: 1. Furnish written warranties to the owner including specific items in each product warranty stipulated in the individual section. 2. Secure and transmit required inspection certificates. 3. Repair and replace damaged portions of the construction, under warranty, when damages result from faulty materials and negligent workmanship. 4. Warrant that modifications or substitutions suggested by the contractor will give satisfactory results and that they will be equal or superior to the specified item or method unless shortcoming are specifically listed in the request for modification or substitution. F. FINAL COMPLETION: 1. When the work has been completed fully in accordance with the requirements of the contract, the contractor shall send a written notice claiming final completeness and shall specify each note on the punch list as being complete or any incomplete items. 2. The contractor shall submit final application for payment indicating adjustment and accounts including original contract sum, additions and deductions as included on charge orders, cash allowances, deductions on incorrect work, and other requirements listed in the documents contract, including the Consent of Surety Company to final payment, AIA Document G707. 3. Upon receipt of the contractors notice claiming final completion the owner will perform a final inspection, nd if the work is fully complete in accordance with the requirements of the document contract, the owner will issue a certificate of completion, and a certificate for final payment. G. TERMINAL INSPECTION: 1. Immediately prior to expiration of the one year guarantee period, the contractor shall make an inspection of the project in the company of the owner. The owner shall not be given less than five days notice prior to the anticipated date of terminal inspection. 2. Where any portion of the work has been proven to be defective and requires replacement, repair, or adjusting , the contractor shall immediately provide materials and labor necessary to repair such defective work and shall execute work until completed and to the satisfaction of the owner even though that the date of completion has past the expiration date of the guarantee period. 3. The contractor shall not be responsible for work that has been damaged due to neglect or abuse by the owner nor the replacement parts necessitated by normal wear and tear.

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B. FINAL CLEANING:

1. The work area shall be thoroughly cleaned inside and outside. Cleaning includes removal of smudges marks and stains, fingerprints, soil dirt spots, dust lint, and any other foreign matter. From finished and exposed surfaces. 2. Remove all temporary facilities. SECTION 02110 - SITE CLEARING AND GRUBBING A. VEGETATION PRESERVATION: Do not remove trees or shrubs without the specific approval of the architect. Damaged vegetation will be replaced. B. REQUIREMENTS OF REGULATORY AGENCY: Adhere to state and local code requirements for the disposal of trees and shrubs removed from site. C. OWNERSHIP OF REMOVED MATERIALS AND VEGETATION: Unless noted otherwise, removed property becomes property of the contractor. D. PROTECTION OF VEGETATION: Rope or fence off vegetation that is to remain to prevent damage. E. Grubbing: Grubb construction depth to a minimum of one foot to the existing grade. SECTION 02200 - EARTHWORK A. The surface report governs existing subsurface conditions. B. CONCEALED CONDITIONS: Variations from the contract document for conditions not apparent at the start of the work will be adjusted as described in the contract conditions. C. SOIL STIFFNESS: When soil concerning subsurface soil stiffness is not available assume an angle of repose 45 degrees under optimum moisture conditions. No angle of repose can be assumed when soil is under adverse condition. Where concrete is shown vertical or steeper than the angle of repose forms are required. D. GOVERNING DOCUMENTS: The following documents governs the work. 1. Occupational Safety and Health administration, recommendations, Chapter XVII , 1926.625 2. IN TEXAS: Texas trench laws, HB 662 and HB 665 E. EXCAVATION INSPECTION: Do not place concrete in footing excavations without the architects inspection. F. FILL AND BACK FILL MATERIAL: Select fill material under placed under slabs foundation and paving shall comply with the following requirements. Materials may be provided it is made to comply with the use of admixtures sand or lime. 1. LIQUID LIMIT: 30 to 45. 2. PLASTICITY INDEX: 7 to 20. 3. LINEAR SHRINKAGE: 10 % maximum. 4. PURITY: No stones or debris larger than 3 inches G. COMPACTING: Provides 90 % maximum density under walks and grassy areas. 95% minimum anywhere elsewhere. Add water or dry out to maintain optimum moisture content. AASHTO compaction test method T-99, performed at minimum moisture. Place fill in layer not to exceed 6 inches after completion. H. COMPACTING OF GRANULAR FILL: Compact trenches under slabs as follows: 1. 12 INCHES OR LESS: provide granular material soft enough to compact readily by water saturation. 2. BETWEEN 12 AND 36 INCHES: compact by water saturation to within two feet of the surface. The final 2 feet and 0 layers shall be compacted by six inch layers. 3. OVER 36 INCHES: compact at 6 inch layers starting at the bottom. I. SAND LAYER: 1. LOCATION: Where sand cushion is noted under concrete slabs. 2. MATERIAL : well graded inorganic mineral sand in loose non stratified deposits per ASTM D 2488. 3. THICKNESS: 2 inches under walks and 4 inches elsewhere. 4. COMPACTING: Compact to support concrete without settlement during placing. J. VAPOR BARRIER: Provide a 6 mil polyethylene plastic film vapor barrier under floor slabs placed on earth. SECTION 02246 - SOIL STABILIZATION A. Coordinate the requirements of the structural drawings with the requirements of this section. If a conflict exist notations on the structural drawings take precedence. Refer to the soil reports and survey for existing subsurface conditions. SECTION 02284 - TERMITE CONTROL A. MINIMUM COMPLIANCE STANDARDS: Comply with all applicable governmental standards. unauthorized use of these chemicals is strictly prohibited. B. Warrant the work herein for five years. Defects shall include but not be limited to the following: 1. termitte activity 2. Damage of building material caused by termites C. Include replacement of materials caused by termites within the warranty period. D. APPLICATOR: Applicator shall be bonded to reform this type of work. Where local licensing is available or required, applicator shall be licensed to perform this type of work. E. POISON DILUTENT: Potable water F. Provide EPA approved chemicals of the following types: 1. ORGANOPHOSPHATES: Durban TC, Dow chemicals USA, Midland MI 48674 (517) 636-1000. 2. PYRETH: a. Drognet FT: FMC Corp. Agricultural chemical group Philadelphia, PA. 19103 (215) 299-6000. b. Demon TC: ICI Americas Inc. Wilmington DE 19899 (303) 575-3000 c. Torpeda: ICI Americas Inc. Wilmington DE 19899 (303) 575-3000 d. Tribute: Velisical chemical Corp. Rosemont MI 60018 (312) 698-9700 G. QUANTITIES OF WORKING SOLUTION: Provide one gallon per 10 square feet under the building slab, and 2 gallons per 5 linear feet at the slab perimeter. H. PROCEDURES: Notify the supervising authority before commencing work, do not apply poison to soil that are excessively wet. Apply solution immediately after placing vapor barrier. SECTION 02510 - CONCRETE CURBS WALKS AND PAVING A. WORK GOVERNED BY OTHER SECTIONS: The actual work of this segment remains within this section, but subject to the applicable requirements of division 3 - Concrete. B. MINIMUM COMPLIANCE STANDARDS: Work in accordance with the following: 1. ACI 316 and ACI 325 2. Portland cement ASTM: PA017 and PL136 3. ACI 302 C. CONCRETE MATERIALS: Provide 3000 PSI gary concrete with air in training and water reducing with accelerating and retarding compounds. D. PAVING AND CURB JOINTER FILLING: Provide 3/4 inch thick clear heart construction grade redwood with dowels as detailed on the drawings. E. PAVING JOINT SEALING COMPOUND: Provide a single component, ethbenzed, hot applied sealing compound similar to allied NO. 9005 complying with F.S. SS-5-1401B. F. SLOPE FOR DRAINAGE: Slope walks, driveways, paving and gutters. G. TOOLING: 1. EDGING: Edge walks and paving edges to 3/8 inch radius at expansion joints and where needed for a neat appearance. 2. JOINTING: Where shown on the drawing as control joints or tool joints. 3. CONTROL JOINT: 3/4 inch wide. Use wrap smooth dowels to maintain alignment 4. TOOLED JOINT DEPTH: 1/4 inch unless otherwise specified 5. WORKMANSHIP: Remove marks and tooling from the surfaces H. FINISH: light broom or belt finish with lines perpendicular to traffic. SECTION 03110 - CONCRETE FORMWORK A. FORMING SURFACES: Provide formwork in accordance with recommend practice for concrete formwork, ACI 347 with smooth and clean surfaces. 1. WOOD: Dressed to uniform thickness without loose knots or other defects. Plywood a minimum of 5/8 inch thick. 2. STEEL: Rust free or galvanized from surfaces.

B. ACCESSORIES:

1. CHAIRS AND BLOCKS: Provide plastic chair where formed surfaces are exposed. 2. EXPANSION JOINTS: Provide warped dowels or carboard toots for alignment and reinforcement. across expansion joints. 3. FORM RELEASE AGENT: Provide chemical type form release agent. C. INSTALLATION: Do not allow form release agent to contact reinforcement or concrete against which fresh concrete shall be placed. Wet board forms until swelled shut. Formwork shall be strong enough to withstand the fresh concrete and tight enough prevent leakage from the mortar. D. FORM REMOVAL: Do not remove formwork until concrete has attained strength enough to prevent leakage of the mortar. SECTION 03200 - CONCRETE REINFORCEMENT A. MINIMUM COMPLIANCE STANDARDS: The following documents govern the work except where more restrictive requirements are specified. 1. Specifications for structural concrete in building ACI 301. 2. Manual and standard practice for detailing reinforced concrete structures ACI 305. 3. Building code requirements for reinforced concrete ACI 318 B. MILL REPORTS: Provide certificate from manufacturer describing steel used. If reinforcing cannot be identified provide tensile and bending reports. C. REINFORCEMENT: 1. BARS: ASTM A 615 a. NO 3 BARS: grade 40 b. all others: grade 60 2. WIRE: ASTM A 82 3. WIRE FABRICS: ASTM A 185 D. ACCESSORIES: provide galvanized accessories E. TILES: 16 gauge annealed wire or standard clips F. FABRICATION: Bend and cut bars, fabric and wire cold to the following tolerances: 1. Sheared length plus or minus one inch 2. Depth or truss plus or minus 1/2inch 3. Stirrup, ties and spirals plus or minus 1/2 inch 4. other bands plus or minus 1 inch G. PREPARATION: Before relating reinforcement inspect framework for fit and tolerance. Clean reinforcing free from form coating sealers and powders and scribed not and other bonded reinforcing conditions. H. SPACES NOT DETAILED: Staggered spacings at adjacent bars do not splice at areas of greatest stress. I. INSTALLATION: Support and reposition reinforcement to prevent displacement by the construction loads of concrete placement. Support bar reinforcement on chairs over concrete blocks of cement mix design as concrete. SECTION 03312 - CAST IN PLACE CONCRETE MINIMUM COMPLIANCE STANDARDS: The following documents govern the work except where more restrictive items are specified. 1. Specifications for structural concrete in building, ACI 301 2. Guide for concrete floor and slab construction ACI 318 3. Building code requirements for reinforced concrete ACI 318. 4. In hot weather work in accordance with the recommended practice for hot weather ACI 305 5. In cold weather work in accordance with the recommended practice of the cold weather ACI 309 B. DOCUMENTS PRECEDENCE: Notations on requirements on the structural drawing supersede conflicting requirement of this section. C. MATERIALS: 1. CEMENT: ASTM C 150 Type I or III 2. AGGREGATES: Standard weight aggregates ASTM C. 33. Refer to ACI 301- 3.6 for max. size. 3. WATER: Potable and clean. 4. ADMIXTURES: a. water reducers and set retarders: ASTM C 494-A,B, or D. Do not use Chlorides. b. air entrainer: ASTM C 260 D. MIXTURE: Design concrete mixture to comply with the standard of deviations specified in ACI - 301 and ACI - 318 for the concrete strength shown on the structural drawings. If no strength is shown provide 300 PSI of concrete. Include air entrained for exterior exposed concrete to produce 5% plus or minus 1% total air content as determined by ASTM C 231 or ASTM C 138. Provide a maximum slump of four inches. E. INSPECTION AND PREPARATION: Do not place concrete until it is forming reinforcement and built in items have been inspected by the architect. 1. SUBGRADE: dampen subgrades not covered with membrane by immediately sprinkling. Omit when subgrade is already damp. Dry out soggy subgrade before placing slabs unless wetting is uniform and placing can be done without damage to subgrade. Place slab screeds to precise elevation. Obtain the architects approval to the sub grade and screed before laying down the concrete. 2. FORMS: Remove dirt sawdust nails and other foreign objects from formed space. 3. BUILT IN ITEMS: install pipe sleeves bolts, anchors, and other cast in place items securely. Use templates to set built in objects. F. PLACING 1. Use buggies and metal chutes at slopes between 1:2 and 1:3 to avoid separation of aggregates drop concrete in the center, do not rake or draw concrete to position. 2. Use ready mix concrete only. Comply with the requirements of ASTM C 94 for making and transportation of cement. 3. Place concrete continuously in any one part of the work. a. If a whole part of work cannot be placed monolithically place to construction joints indicated on the drawing as shown or as approved by the architect b. Reighton forms clean hardened surfaces and cover with bonding compound before placing against hardened concrete. 4. Placed slope concrete from bottom up. 5. Use temp. screeds when placing slabs to maintain levels support levels and slopes to maintain accurate elevations. SECTION 03376 - CONCRETE CURING, TREATMENT, AND FINISHING A. CURING MATERIALS: 1. PRODUCT LIMITATIONS: Do not use products with these certain characteristics: a. Leave oily or waxy residue that may interfere with future adhesive work later. b. discolor surface that will be left uncovered. 2. SHEET CURING: White sheet material only, complying with ASTM C 171 3. LIQUID CURING COMPOUND: a. typical uses ASTM C 309 clear type 1 or type 1 D with fugitive tint. b. optional for exterior painting: ASTM C 309 type 2 or 1D 4. Water ponding: Flood or spray concrete to keep concrete surface covered with water for the curing period. B. 1 ANTERIOR FLOOR TREATMENT COMPOUND: 1. GIFFORD HILL HARDTOP 2. AC HORN "HORN ONE KOTE" 3. CURECRETE CHEMICAL CO. Anford formula C. FINISHING: 1. TYPICAL EXPOSED FORM FINISHES: a. fill honeycomb bubbles and knock off fins. b. removed evidence of misaligned forms by chipping away and patching. c. true up corners and surfaces. 2. FINISH FOR TYPICAL CONCRETE FLAT WORK: Provide a steel trowel finish max. surface irregularity shall be 1/16 inch thick and any running foot and 1/4 inch by 10 feet. Apply floor treatment as specified. SECTION 05500 - METAL FABRICATIONS A. SHOP DRAWINGS: Indicate site material and finish. Show locations and installations and procedures, include details of joints attachment and clearances. B. STEEL MATERIALS: 1. STEEL SHEETS: ASTM A 36 to tolerance of ASTM A 6 2. STEEL PIPE: ASTM 501 or 500 to shape detailed 3. BOLTS: ASTM A 307 typically 3/25 high bolts nuts, washers, where shown.

C. GALVANIZED MATERIALS: All Exterior exposed steel and where noted on drawing.

1. NONSTRUCTURAL PIPES: ASTM A 120 2. IRON AND STEEL HARDWARE: ASTM A 153 3. STEEL SHEETS PLATES AND BARS: ASTM A 123 4. STEEL SHEETS: ASTM A 442 5. ASSEMBLED STEEL PRODUCTS: ASTM A 386 6. DELIVERY OF HOT DIPPED ITEMS ASTM A 525 D. STEEL SHOP PRIMERS: Apply with spray for exposed items. Apply primer free of runs and the irregularities that may require touchups to achieve specified finish. E. WORKMANSHIP: 1. EXPOSED ITEMS: Moderate irregularities not visible at 30 feet may remain. Mill marks may remain. a. WELDS: grind welds to uniform size cove. b. BOLTS: use flat or oval head screws where exposed to view. c. JOINTS: provide maximum gap of 1/16 inch. 2. OTHER LOCATIONS: no improvements from the mill finish required except preparation for galvanizing or priming 3. WELDS: grinding not required 4. BOLTS: exposed bolts permitted SECTION 06100 - ROUGH CARPENTRY A. GENERAL REQUIREMENTS FOR LUMBER: 1. STANDARDS: PS-20-70 American softwood lumber standard and PS- 1-83 soft plywood. 2. GRADING: SPPA, SP1B, WMPA, WCLB, AND APA 3. MARKING: Stamp each piece with grade assoc. 4. SPECIES: Douglas Fir and Southern Yellow Pine 5. FINISH: Provide S4S finish unless otherwise specified 6. SEASONING REQUIREMENT: Kiln Dry or Air Dry to 15 % max. moisture content 7. GRADES: comply with the minimum grades for each specific use as specified by the specific grading assoc. such as southern pine use guide. Table 2 as specified in the structural guide B. WOOD TREATMENT FOR THE ABOVE GROUND LOCATIONS: Stamp each piece of lumber with the type of treatment and amount of retention. Reddy water born treatment to 1B and stamp S DRY 1. APPLICATION: apply pressure or vacuum treatment. comply with the AWWF standards. 2. LOCATIONS: Provide treated wood at the following locations: a. where shown on the drawing b. wood members resting on concrete or masonry c. ground imbedded in concrete or masonry d. Blocking or gouts imbedded in construction in such a manner as to prevent exposure to circulating air. e. roof cutting 3. CUT TREATMENT: treat cuts by dipping in preservatives C. PLYWOOD: Provide PS-1-83 softwood plywood marked with APA grade trademarks indicating quality of wood. Only plywood with APA stamp will be acceptable D. PLYWOOD ROOF SHEATHING: Mark each piece with APA grade trademarks as noted above. Maintain a 1/8 inch gap between cross gags. 1. PLYWOOD THICKNESS: 1/2 to 1 inch, use 8d common nails 2. SPACING: 6 inches at edges and 12 inches at field E. INSTALLATION: 1. set wood framing accurately and neatly, brace well and nail securely. Frame on 16 inches from the center or as indicated on the drawing. 2. Set wood gangers for attachments of work specified in other sections. 3. Use washers on bolts to attach wood. use galvanized treated bolts and washers. 4. Use galvanized metal framing anchors beam seats and clips where indicated SECTION 06190 - WOOD TRUSSES A. MINIMUM COMPLIANCE STANDARDS : the following documents govern the work except where more restrictive requirements are specified. 1. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION 2. TRUSS PLATE INSTITUTE B. APPROVED MANUFACTURERS: 1. Automated building Systems; Dept. T, Lefe Cox Drive Box 537, Johnson city TN, 37601 2. Gang - Nail Southwest; 4707 south Westmoreland, Dallas TX, 75237 3. All Fan Inc.; Southwest Houston TX , 77054-4602 C. LOADING: unless noted otherwise comply with the strongest combination of the following: 1. building code 2. max deflection of 1/240 of a span with the ceiling 3. max def

SECTION 06220 - MILLWORK

A. MINIMUM COMPLIANCE STANDARDS: "Quality Standards of the Architectural Woodwork Industry (AWI)."

B. PLASTIC LAMINATE: Submit full range of colors, patterns, textures, and finishes of plastic laminate available for selection. Use horizontal grade typically. Vertical grade may be used for cabinet interiors and vertical surfaces of cabinets. Use balance sheet as required by AWI. Cores shall be 3/4 inch PS-1-83 BD Exposure 1 plywood and edges shall be self-edge unless specified otherwise.

1. "Nevamar", Exxon Chemical Co.

C. SOLID STOCK:

1. MOISTURE CONTENT: 8%-13% at time of installation.
2. NATURAL FINISH HARDWOOD: Comply with AWI "Premium" Grade.
3. PAINT GRADE HARDWOOD: Any species without coarse grain.

D. SOFTWOOD PLYWOOD: PS-1-83

1. EXPOSED: Medium Density Overlay (MDO).
2. SEMI-EXPOSED: Grade B
3. CONCEALED: Grade D

E. MATERIAL THICKNESSES: The following thickness shall apply except when shown thicker on the Drawings:

1. BOTTOMS, ENDS, DIVISIONS: 3/4 inch thick
2. FACE PLATES: Equal to door thickness with 3/4 inch minimum.
3. WEB FRAMES: 3/4 inch minimum.
4. BACKS AND DRAWER BOTTOMS: 1/4 inch plywood, over 24 inches wide require center bottom support. Limit backs with braces to 12 square feet.
5. DRAWER FRONTS: 3/4 inch.
6. DRAWER BACKS AND SIDES: 1/2 inch.
7. SHELVES: Unsupported, exposed shelves 3/4 inch thick to 36 inches and 1 inch minimum to 42 inches.
8. BASES: Design to space 3 inches deep x 4 inches high x 1/2 inch deep recessed base across exposed ends.
9. DOORS: 3/4 inch minimum thickness, except when shown greater on the Drawings.

F. CABINET HARDWARE: Prepare the millwork for the installation of the hardware.

G. INSTALLATION: Place level, plumb, and at right angles to adjacent work. Where field cutting or trimming is necessary, perform in a neat, accurate, professional manner without damaging the products and adjacent work. Attach securely so the products will perform to their maximum ability without damage resulting from inadequate fastenings.

H. TYPICAL CABINETS: AWI "Custom: grade with plastic laminate tops and exposed surfaces. Semi-exposed surfaces shall be plastic laminate except drawer shells shall be wood.

SECTION 07160 - DAMPROOFING

A. WARRANTY: Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to, the following:

1. Leaking water or blumen.
2. Releasing from the substrate.

B. PRODUCT DATA: Submit schedules, charts, literature, and illustrations to indicate the performance, fabrication procedures product variations and accessories.

C. DAMPROOFING MATERIALS:

1. DAMPROOFING MEMBRANE: "Tyvek" polyester film; or
2. FELT: TD 226 Type 1, No. 15 asphalt coated felts.
3. Attach damproofing to surface in single fashion, starting at the base flashing with adhesive.
4. Imbed damproofing into adhesive as necessary to securely hold in place. Staple sheet into plywood at the top of each sheet 8 inches on center and lap the next sheet over the staples and imbed in adhesive.

SECTION 07175 - WATER REPELLENT

A. PRODUCT DESCRIPTION:

1. GENERAL: Water clear, fast drying, penetrating, water repellent liquid compound.
2. VEHICLE: Water-alcohol formulation.
3. SOLIDS: Siloxane formulation.

B. PROPERTIES:

1. REPELLENCE: No water penetration on surface as evidenced by absence of wet discoloration.
2. ADHESION: No interference with the adhesion of sealant. If tests show interference, mask off sealant areas, or apply repellent after sealant are installed.
3. SHEEN: Zero sheen.
4. DISCOLORATION: No change in color or tone.
5. RESISTANCE TO HOUSEHOLD CHEMICALS: ASTM D 1308; no change in color, finish or adhesion.

C. APPROVED MANUFACTURERS: Specifications are based on first names Manufacturer. Other approved manufacturers must meet or exceed this standard.

1. "CP-500", Chemical Products, Oklahoma City, OK. (800) 824-4356.
2. "Chem-Trete-BSM", Trocol, Rockledge, NJ 07647 (800) 631-1668.
3. "Dural Treat", Dural International Corp., Deer Park, NY. 11729 (516) 586-1655.
4. "Duxbac", Clover Chemical Corp. Houston, TX 77181 (713) 890-5447.
5. "Siloxane" Weather Seal, ProSoCo, Inc. Kansas City, KS 66177 (913) 281-2700.
6. "Cherstop SMS-250", Tamms Industries Co., Itasca, IL. 60134 (312) 773-1870

D. Follow manufacturer's recommended application procedures.

SECTION 07211 - BATT AND BLANKET INSULATION

A. MINIMUM COMPLIANCE STANDARDS: The following Documents govern the Work except where more restrictive items are specified:

1. Federal Specifications HH-1-521F, Type III.
2. American Society of Heating, Refrigeration, and Air Conditioning Engineers.
3. National Environmental Systems Contractors Association.

B. INSULATION: Mineral wool or glass fiber batts or blanket conforming to E.P.A. energy conservation requirements and F.S. HH-1-521F, Type III.

1. U-F RATING: Maximum flame spread of 25, fuel contributed of 50, and smoke developed of 50 when tested per ASTM E 84.

2. THERMAL RESISTANCE: "R" values are listed in the ASRAE Guide for batt and blanket insulation. Provide 6 inch R-23 for roof and 6 inch R-19 for walls. Provide aluminum foil laminated to one side with flanges for stapling application.

C. INSTALLATION: Positively attach edges on ends to prevent gaps or openings in the vapor barrier. Install blankets with the vapor barrier to the warm side. Butt sides and edges of blankets together to avoid gaps in insulation. Do not cover insulation until the installation has been inspected and approved.

SECTION 07420 - ALUMINUM COMPOSITE MATERIAL PANELS

A. QUALITY ASSURANCE:

1. Composite Panel Manufacturer shall have a minimum of 5 years experience.
2. Fabricator/ installer shall be acceptable to composite panel manufacturer.
3. Maximum deviation from vertical and horizontal alignment of erected panels shall not exceed 6 mm in 6 m.

B. SUBMITTALS: Submit two samples of each type of assembly and color or finish selected, 6" x 6" minimum, with details of clips, anchors, etc. for approval by Architect prior to fabrication.

C. MATERIALS:

1. COMPOSITE PANELS: Provide aluminum composite material panels, "Alpolic" as manufacturer by Mitsubishi Kasei America, Inc. or "Reynobond" as manufactured by Reynolds Metals Co.

a. Thickness: 3mm (0.118 inches).

2. FINISHES: Manufacturer's custom colors as approved by Owner, in locations as indicated on drawings.

- a. Silver - metallic finish.
- b. Red - gloss finish.
3. Humidity Resistance:

 - a. Test Method ASTM D-1735
 - b. Coating shall receive a rating of 8 per ASTM D -1654 after 2000 hours

4. Weathering:

- a. Test method Sunshine Arch Weatherometer, Type E run in accordance with ASTM G023 and D-822
- b. No cracking, peeling, blistering or adhesion loss after 2000 hours.
- c. No color change greater than 5 NBMS units measured per ASTM D-2244.
- d. Shall not chalk in excess of 8 when rated per ASTM D-659.

D. ACCESSORIES- Provide non-corrosive, concealed fasteners and fastening systems as recommended by panel manufacturer and shown on the drawings.

SECTION 07425 - REINFORCED POLYMER COMPOSITE PANEL

A. WARRANTY: Warranty the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to, the following:

1. Warping, cracking, corrosion, delamination, or releasing from the substrate.
2. Loss of aggregate finish, discoloration, or fading.
3. Leakage of water into the building or within the construction.

B. SUBMITTALS: Provide shop drawings indicating typical fasteners, details, etc. All outside corners to be mitered and sealed: inside corners to be butt-joined and sealed. Provide 2' x 2' sample for approval.

C. MATERIALS: "Texoco Stenni" wall panel with embedded aggregate facing, as manufactured by United Panel Inc. with 8" x 8" stacked bond pattern, with color-matched fasteners, size and placement per mfg.'s recommendation. Treat exposed face with protective UV coating; Routed joints shall be coated with a high gloss protective film. Standard panel thickness is 5/16". Material shall comply with the following:

1. Flexural Strength: 6900 PSI per ASTM D -790.
2. Compressive Strength: 9700 PSI per ASTM D- 695
3. Tensile Strength: 2400 PSI per ASTM D-635.
4. Modulus of Elasticity: 1,000 PSI per ASTM D-790.

SECTION 07538 - MODIFIED BITUMINOUS ROOF ING

A. WARRANTY: Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to, the following:

1. Peeling, cracking, blistering, alligating, or releasing from the substrate.
2. Softening or becoming tacky.
3. Leakage of water into the building or within the construction.

B. PRECONSTRUCTION CONFERENCE: Prior to commencing work meet with following parties to discuss the roof materials, conditions and installation procedures..

1. Construction Superintendent.
2. Roof Material Manufacturer's Representatives.
3. Owner.

C. MATERIALS: Owens/Corning 201-NG and 201-XG. Modified bitumen hot asphalt applied roof membrane.

PRIMER: As recommended by the roofing manufacturer.

BASE SHEET: Perma Ply IV base sheet.

3. ASPHALT: ASTM D312, Type III.
4. GRAVEL: 5/8" roofing gravel applied in 60 lbs./sq.ft. asphalt at a rate of 400 lbs./100sq.ft.
5. CANT STRIP: 18" x height required; tapered fiberglass.
6. FASTENERS: As recommended by the roof manufacturer for substrate.
7. MANUFACTURER: Owens-Corning Corp. Toledo, Oh. 43650
8. ROOF INSULATION: 2" rigid Hy-Threm mechanically fastened to steel deck per manufacturer's printed instructions.

D. INSTALLATION:

1. PREPARATION: Do not install roof until substrate is smooth, dry, and free of loose material. Remove sharp protuberances.
2. Install roof according to manufacturer's printed instructions.
3. CLEAN UP: Remove all roofing debris when Work is complete.

SECTION 07620 - BUILDING SHEET METAL

A. MINIMUM COMPLIANCE STANDARDS: The following Documents govern the Work except where more restrictive requirements are specified.

1. Sheet Metal Manual of the Sheet Metal and Air Conditioning Contractor's National Association (SMACNA).

B. WARRANTY: Warrant the work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to the following:

1. Leaking.
2. Wrinkling.
3. Breaks or tears caused by restraint of expansion and contraction.

C. SHOP DRAWINGS: Indicate size, material, and finish. Show locations and installation procedures. Include details of joints, attachments, and clearances.

D. GALVANIZED SHEET STEEL MATERIAL:

1. QUALITY STANDARD: ASTM A 257, coating designation G 90.
2. FINISH:

 - a. METAL PREPARATION: Prepare surface for painting in compliance with ASTM D 2090 recommendations.
 - b. Prefinish sheet metal with polyester enamel finish 1 mil minimum thickness.

E. GALVANIZED SHEET GAUGES: 24 gauge minimum.

1. Clips used for attachment shall be two gauges thicker than the piece they retain.
2. FASTENERS: Galvanized, cadmium, and stainless steel.

F. MATERIAL COMPATIBILITY: Provide mutually compatible materials and fastening where in contact. If not available, isolate incompatible materials to prevent electrolysis.

G. INSTALLATION:

1. Prime flanges and other metal in contact with roofing membranes.
2. Bed sheet metal flanges on roof membrane with flashing cement.

SECTION 07655 - BASE FLASHING

A. MATERIALS: Provide a synthetic elastomeric compound waterproofing material with thermoplastic flanges added for extra tensile strength and tear resistance, laminated to a 7 mil vinyl film. Provide Phox Gyp+Flash as manufactured by Phox Enterprises, Inc., 11210 S. Post Oak Rd., Houston, Texas 77035 (713) 726-1800.

B. PREPARATION: Clean surfaced free of dust, loose rust, plaster, mortar, paint droppings, and other materials that may prevent permanent adherence to the substrate. Apply primer with brush or tamps wool roller at the rate of 250 to 250 square feet per gallon. Allow primer to dry a minimum of 1 hour. Remove primer from finish surfaces with Toluene or similar solvent. Use primers recommended by the manufacturer.

C. INSTALLATION: Install tape at locations requiring base flashing to channel water out of weep holes. Extend membrane to within 1 inch of face of masonry and a minimum of 8 inches up the vertical substrate. Lap vertical joints of flashing tape a minimum of 2 inches. Lap horizontal joints of flashing tape a minimum of 2 inches in direction of water flow.

SECTION 07721 - ROOF CURBS

A. MANUFACTURERS:

1. The Pate Company, Broadview, IL 60153 (312) 681- 1920, model SCEB solid top and other types as shown on the Drawings.
2. ThyBar Corp. Addison, IL 60101 (312) 543-5300
3. Custom Curb, Inc. Chattanooga, TN 37407 (615)629-6241.

B. Refer to Drawings for necessary sizes.

C. COMPONENTS:

1. WALLS: GALVANIZED STEEL.
2. WOOD NAILERS: Factory installed.

D. Install curb assemblies in accordance with manufacturer's specifications.

SECTION 07920 - SEALANTS AND CAULKING

A. WARRANTY: Warrant the Work specified herein for 2 years against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship.

1. Defects shall include, but not be limited to:
 - a. Staining from abutting materials or filler.
 - b. Migrating, bleeding into, or staining abutting materials.
 - c. Unightly surface deformation by causes other than movement.
 - d. Excessive color change, chalking, or dust pick-up.
 - e. Failing adhesively or cohesively.
 - f. Hardening to more than 25% over stated hardness.
2. Warrant that sealants exposed to windloads will resist the design windload of the local building code with maximum strength factor on the sealant of 20 psi with a safety factor of 6 to 1.

B. PRODUCT DATA: Submit schedules, charts, literature and illustrations to indicate the performance, fabrication procedures, product variations, and accessories.

C. EXTERIOR SEALANTS AND SEALANTS FOR MOVING JOINTS: Curing type, two part bulk compounds conforming to F.S. TT-S-00227E (3) , or one part conforming to F.S. TT-S-001543A. Provide compounds that cure or polymerize by solvent moisture absorption, or catalysis.

1. APPROVED BASIC INGREDIENTS: Polyauifide, silicone, polyurethane, or polytetramine, terpolymer.
2. NON-ACCEPTABLE: Linseed oil or other oil base caulks, asphaltic, or coal tar types. Acrylic, hypalon, and butyl base types.
3. SOLIDS: 96% minimum by volume.
4. CURED HARDNESS: (Shore A durometer) Maximum of 30.

D. INTERIOR SEALANTS: All exterior sealants plus the following types.

1. Skinning type, bulk compounds conforming to F.S. TT-S-001657 or ASTM C634, with active ingredients of butyl rubber, acrylic, hypalon, and other similar paintable compounds.

E. CONCEALED SEALANTS: Non-skinning, resilient (soft) performed, or bulk compounds, conforming to NAIMM SS-1a, SS-1b, or SS-1c with basic ingredients of polybutene synthetic resins, oleoresinous compounds, or similar noncuring compounds.

1. SEALANT TAPE: Performed or extruded non-curing butyl with or without reinforcement.
2. NON-ACCEPTABLE: Types which do not reseat if seal is broken

F. SEALANT COLORS: White, black, gray aluminum, limestone and brown. Provide clear silicone for glass joints.

G. SEALANT MANUFACTURERS:

1. Dow Corning Corp. Midland, MI. 48640 (800)248-2345.
2. General Electric Co. Waterford, NY 12188 (518) 237-3330.
3. Pecora Corp. Harlesville, PA 19438 (215) 723-6051.
4. Tremco, Cleveland, OH 44104 (216) 229-3000.

H. ACCESSORY MATERIALS:

1. BACK UP FILLERS: Not absorbent nonstaining expanded closed cell rubber compatible with sealants used
2. COMPRESSOR FILLER:
 - a. Will Seal, Illbruck USA Troy MI 48084
 - b. Emscol, USA Stamford Conn.
3. PRIMERS CLEANERS AND TOPCOATS: Use only materials listed as suitable in sealant manufacturer's instructions. Test for staining compatibility and durability before proceeding.

I. SECTION 09510 - ACOUSTICAL CEILINGS

A. EXPOSED GRID SYSTEM: Provide direct hung suspension system complying with ASTM C 635, intermediate duty main runners and minimum 10 lb./lineal foot cross tees, with smooth matte white painted finish.

1. WALL MOLDINGS: 15/16 inch angle moldings manufactured by the suspension system manufacturer.
2. HANGWIRE: 12 gauge annealed.
3. COATING: Galvanized.

4. EXPOSED FINISH: factory flat white enamel.

5. APPROVED MANUFACTURER: Use only one manufacturer's products.

- a. Donn Corp., Westlake, OH 44145 (216)871-1000.

B. EDGE TRIM SYSTEM: Provide edge trim system for suspended ceiling system consisting of 4" x 9/16" metal pans curve to inside and outside radii from 18" to 288" and sweeping through included angle from 15 degrees to degrees.

1. Manufacturer: USG Interiors, Inc., Chicago, Illinois.
2. Trim: 4" COMPASSO trim, 4" wide face, 9/16" horizontal legs with hems formed for attachment to the COMPASSO mounting clip; commercial quality cold rolled 24 gauge steel, factory finished in baked enamel paint finish.
3. Spice plate: steel in finish to match trim pans; formed for snap-fit into pan ends
4. Attachment clips: hot dipped galvanized steel in finish to match pans formed for snap-fit into 4" pan and attached to ceiling suspension system members.
5. for specific project details and bill of materials, see USG Interiorsdrawings provided by USG Interiors sales representative. USG Interiors shall submit complete installation drawings including all trim pieces, attachment clips, spice plates and corner pieces, installation of related lighting and air distribution components, access requirements, and sound absorption requirements.

C. ACOUSTIC CEILING BOARD: Mineral board, non-directional fissured, medium textured.

1. TYPES: Refer to the Finish Schedule.
2. SIZE: 24 inch x 24 inch x 5/8 or 3/4 inch.
3. NOISE REDUCTION COEFFICIENT: 0.50 - 0.60 type 7 mounting.
4. SOUND TRANSMISSION CLASS: Minimum 35 to 39 db.
5. FLAME RESISTANCE: Class A, imcombustible per F.S. SS-S-118A.
6. FLAME SPREAD: Class 1 (0-25) per ASTM E 84.

D. APPROVED MANUFACTURERS: Use only one manufacturer's products.

1. Armstrong World Industries, Inc., Atlanta, GA 30339 (404)955-1688.
2. The Ceatex Corp., Tampa, FL 33607 (813)871-4554.
3. United States Gypsum Co., Chicago, IL 60606-4395 (312)321-4000.

E. Install suspension system in accordance with manufacturer's relevant specifications and ASTM C 636.

F. SPACING AND SUPPORT:

1. Space hangers minimum 6 inches from end and 4 feet between ends.
2. Provide additional hangers for items to be supported by ceiling suspension system to prevent eccentric deflection or rotation of support.
3. Support main runners directly from hangers; do not bear on walls or partitions.
4. Space main runners to support acoustic panels and other Work resting in on the ceiling.
5. Interlock cross-runners with main runners.
6. Adjust suspension system every 20 feet to plus or minus 1/4 inch from module in both directions.

G. ACOUSTIC CEILING BOARD:

SECTION 09665 - SYNTHETIC RUBBER SHEET FLOORING

A. WARRANTY: Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include, but not be limited to the following:

1. Releasing from substrate.
2. Opening up at joints.
3. Failure to comply with NFPA Bulletin No. 56.

B. APPROVED MANUFACTURERS: Specifications are based on first named manufacturer. Other approved manufacturers must meet or exceed these requirements.

1. Flexco Division of Textile Co., Inc., Tusculmbia, AL 35674 (205)383-7474.
2. Nora Flooring Division of Robus Products Corp., Madison, IN 47250 (812)273-1852.
3. Jason/Pirelli Industrial Inc., Fairfield, NJ 07006 (201)227-4904.

C. MATERIAL:

3. THICKNESS: 1/8 inch
4. STUDS: 1 1/4 inch in diameter raised .025
5. SIZE: 18x18
6. FRAME SPREAD: class A ASTM E 84
7. COLOR AND MODEL: light gray and RGT - 754
8. ADHESIVE: same brand as flooring material

SECTION 09678

A. Warrant the work herein specified for one year against becoming unservice or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include but not be limited to the following:

1. warping, buckling shrinking or cracking
2. softening or discoloring
3. coming loose

A. MATERIALS:

1. MATERIALS: rubber
2. SIZE: 1/8 inch thick height shown on drawing
3. COLOR: as selected by architect from full manufacturers range

C. APPLICATION:

1. butt end to hairline fit, avoid stretching
2. place base with joints under compression and so toe continually touches.

SECTION 09900:

A. Warrant the work herein specified for one year against becoming unservice or causing an objectionable appearance resulting from either defective or limited to the following:

B. SUBMITTALS: Submit full range of colors patterns textures and finishes available including the following:

1. COLOR CHIPS: Provide a complete set of color chips for the color selection.
2. SMALL APPLIED COLORS: Provide pieces of actual material on which paint will occur.
3. SHEEN SAMPLES: provide full range of varying sheen when sheens are controllable by mixing.
4. MATERIAL LIST: Give the manufacturers name, product no., and generic description of each proposed product.

C. COLORS: Refer to finish schedule.

D. PREPARATORY WORK:

1. Protection Work: Arrange procedures and devices to protect other work from disfigurement and physical damage. Repair and replace materials damaged as a result of the work of the section.
2. Steel and Iron: Remove grease oil and dust and touch up chipped and absorbed places on items that have been primed using same type of primer.
3. Concrete Masonry: Check for high moisture and alkali content. If high alkali is present neutralize to suitable level.
4. Substrates General: Provide normal minor patching on surfaces provided under other sections of work. Excessive patching or treatment is not permitted.

E. MANUFACTURER'S INSTRUCTIONS: Follow the manufacturer's preprinted instructions as a minimum requirement for the use and installation products.

1. APPEARANCE: Provide uniform color texture and sheen.
2. NEATNESS: Do not smear splatter or run coating over adjoining colors.

F. PAINT THICKNESS: Provide the minimum dry film thickness per coat:

1. Interior: 1 mil.
2. Exterior:
 - a. Enamels on Metals: 1 mil
 - b. Acrylic Urethane: per manufacturers recommendation.
 - c. Latex Paint: 1 mil
 - d. Metal Primers: 1.5 mil
 - e. Under Coats: 1.5 mil
 - f. Oil Paint: 1.5 mil
 - g. Traffic Lines: 2.5 mil

G. COMPATIBILITY OF PAINT TYPES: Verify the compatibility of each type of finish coat with shop primers and between field coats. When necessary switch paint types or use a block coat to avoid interference between paints.

H. TYPICAL EXTERIOR SYSTEM:

1. Galvanized Metals:
2. one coat zinc dust and primer or epoxy ester
3. two coats semi-gloss enamel

2. Steel or Iron:
 - a. coat touch up primer
 - b. coat iron oxide primer
 - c. coats semi gloss enamel
3. Thickness Test: Use visual observation gauge.

I. TYPICAL EXTERIOR SYSTEMS:

1. Painted wood:
 - a. 1 coat oil base enamel
 - b. 2 coat satin enamel
2. gypsum dry wall:
 - a. 1 coat sealer and primer
 - b. 2 coats flat latex or oil base enamel
3. Steel:
 - a. 1 coat touch up primer
 - b. coats semi gloss enamel

SECTION 10536 - ILLUMINATED FASCIA SINGAGE SYSTEMS

A. PRODUCT DATA: submit schedules, charts, data, and illustrations to indicate the performance fabrication and procedure produce variations and accessories.

B. APPROVED MANUFACTURERS:

SECTION 10810 - TOILET ROOM ACCESSORIES:

A. A. PRODUCT DATA: submit schedules, charts, data, and illustrations to indicate the performance fabrication and procedure produce variations and accessories.

B. MINIMUM COMPLIANCE STANDARDS: the following documents govern the work except where more restrictive items are specified.

C. APPROVED MANUFACTURERS:

D. MOUNTING LOCATIONS: refer to drawings, when not shown submit manufacturer's recommendations for locations and mounting height before proceeding.

E. INSTALLATION: Securely fasten each item to prevent dislocation or vandalism. Attach each item plumb and level in the locations indicated.

7474.

2. Nora Flooring Division of Robus Products Corp., Madison, IN 47250 (812)273-1852.

3. Jason/Pirelli Industrial Inc., Fairfield, NJ 07006 (201)227-4904.

C. MATERIAL:

3. THICKNESS: 1/8 inch
4. STUDS: 1 1/4 inch in diameter raised .025
5. SIZE: 18x18
6. FRAME SPREAD: class A ASTM E 84
7. COLOR AND MODEL: light gray and RGT - 754
8. ADHESIVE: same brand as flooring material

SECTION 09678

A. Warrant the work herein specified for one year against becoming unservice or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship. Defects shall include but not be limited to the following:

1. warping, buckling shrinking or cracking
2. softening or discoloring
3. coming loose

A. MATERIALS:

1. MATERIALS: rubber
2. SIZE: 1/8 inch thick height shown on drawing
3. COLOR: as selected by architect from full manufacturers range

C. APPLICATION:

1. butt end to hairline fit, avoid stretching
2. place base with joints under compression and so toe continually touches.

SECTION 09900:

A. Warrant the work herein specified for one year against becoming unservice or causing an objectionable appearance resulting from either defective or limited to the following:

B. SUBMITTALS: Submit full range of colors patterns textures and finishes available including the following:

1. COLOR CHIPS: Provide a complete set of color chips for the color selection.
2. SMALL APPLIED COLORS: Provide pieces of actual material on which paint will occur.
3. SHEEN SAMPLES: provide full range of varying sheen when sheens are controllable by mixing.
4. MATERIAL LIST: Give the manufacturers name, product no., and generic description of each proposed product.

C. COLORS: Refer to finish schedule.

D. PREPARATORY WORK:

1. Protection Work: Arrange procedures and devices to protect other work from disfigurement and physical damage. Repair and replace materials damaged as a result of the work of the section.
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3. Concrete Masonry: Check for high moisture and alkali content. If high alkali is present neutralize to suitable level.
4. Substrates General: Provide normal minor patching on surfaces provided under other sections of work. Excessive patching or treatment is not permitted.

E. MANUFACTURER'S INSTRUCTIONS: Follow the manufacturer's preprinted instructions as a minimum requirement for the use and installation products.

1. APPEARANCE: Provide uniform color texture and sheen.
2. NEATNESS: Do not smear splatter or run coating over adjoining colors.

F. PAINT THICKNESS: Provide the minimum dry film thickness per coat:

1. Interior: 1 mil.
2. Exterior:
 - a. Enamels on Metals: 1 mil
 - b. Acrylic Urethane: per manufacturers recommendation.
 - c. Latex Paint: 1 mil
 - d. Metal Primers: 1.5 mil
 - e. Under Coats: 1.5 mil
 - f. Oil Paint: 1.5 mil
 - g. Traffic Lines: 2.5 mil

G. COMPATIBILITY OF PAINT TYPES: Verify the compatibility of each type of finish coat with shop primers and between field coats. When necessary switch paint types or use a block coat to avoid interference between paints.

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I. TYPICAL EXTERIOR SYSTEMS:

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SECTION 10536 - ILLUMINATED FASCIA SINGAGE SYSTEMS

A. PRODUCT DATA: submit schedules, charts, data, and illustrations to indicate the performance fabrication and procedure produce variations and accessories.

B. APPROVED MANUFACTURERS:

SECTION 10810 - TOILET ROOM ACCESSORIES:

A. A. PRODUCT DATA: submit schedules, charts, data, and illustrations to indicate the performance fabrication and procedure produce variations and accessories.

B. MINIMUM COMPLIANCE STANDARDS: the following documents govern the work except where more restrictive items are specified.

C. APPROVED MANUFACTURERS:

D. MOUNTING LOCATIONS: refer to drawings, when not shown submit manufacturer's recommendations for locations and mounting height before proceeding.

E. INSTALLATION: Securely fasten each item to prevent dislocation or vandalism. Attach each item plumb and level in the locations indicated.

7474.

2. Nora Flooring Division of Robus Products Corp., Madison, IN 47250 (812)273-1852.

3. Jason/Pirelli Industrial Inc., Fairfield, NJ 07006 (201)227-4904.

C. MATERIAL:

3. THICKNESS: 1/8 inch
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A. MATERIALS:

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2. SIZE: 1/8 inch thick height shown on drawing
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3. Concrete Masonry: Check for high moisture and alkali content. If high alkali is present neutralize to suitable level.
4. Substrates General: Provide normal minor patching on surfaces provided under other sections of work. Excessive patching or treatment is not permitted.

E. MANUFACTURER'S INSTRUCTIONS: Follow the manufacturer's preprinted instructions as a minimum requirement for the use and installation products.

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SECTION 10536 - ILLUMINATED FASCIA SINGAGE SYSTEMS

A. PRODUCT DATA: submit schedules, charts, data, and illustrations to indicate the performance fabrication and procedure produce variations and accessories.

B. APPROVED MANUFACTURERS:

SECTION 10810 - TOILET ROOM ACCESSORIES:

A. A. PRODUCT DATA: submit schedules, charts, data, and illustrations to indicate the performance fabrication and procedure produce variations and accessories.

B. MINIMUM COMPLIANCE STANDARDS: the following documents govern the work except where more restrictive items are specified.

C. APPROVED MANUFACTURERS:

D. MOUNTING LOCATIONS: refer to drawings, when not shown submit manufacturer's recommendations for locations and mounting height before proceeding.

E. INSTALLATION: Securely fasten each item to prevent dislocation or vandalism. Attach each item plumb and level in the locations indicated.

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-A10.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
REGISTERED ARCHITECT
MARCEL CAD
STATE OF TEXAS
1969
DATE SIGNED: 03-28-24
LICENSE EXP: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in any manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE
ARCHITECTURAL PERFORMANCE SPECIFICATIONS

DRAWING NUMBER
A10

SHEET NO.

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
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REVISIONS

NO.	DATE	DESCRIPTION

Division 15 - MECHANICAL

1. WORK INCLUDED:
A. Provide materials, equipment, labor and services necessary for the installation and placing into operation a complete plumbing and piping system as specified and shown on the drawing.
B. The work in general shall consist of but is not limited to, the following:
1. Complete sanitary plumbing system for the building with the connections from the plumbing fixtures and equipment indicated on the drawing to the public sanitary sewer including trap, if necessary to private disposal system.
2. Installation of piping and plumbing equipment connections including water service lines and meter if required.
3. Furnish and install plumbing fixtures as shown:
a. Water Closet- American standard 9468.018
b. Lavatory: American Standard 0355.056
c. 3 compartment sink - metal masters "Convenient store mini sink" 3 comp., 2 drain boards.
d. Hand Sink - metal masters HSA - 10 - FO
e. Mop Sink - Mustee model 64
f. Floor Sink - Smith 3001 - NB13
4. Work executed: Noted on the drawings.

2. General Requirements:
A. Equipment furnished shall fit the space available, with connection ect., in the required spaces and the adequate space for operating services. The drawing are generally diagrammatic and indicate the manner and method of installation, while the specifications and future list denote the type and specifications and material and workmanship to be used.

3. Piping
A. Sanitary Piping:
Cast iron no hub pipe or code approved plastic shall be used for soil a vent pipe in or under concrete and for vent pipe 3" and larger. Grade carefully and support firmly and uniformly, adjust adjacent lengths of pipe with reference to each other. Open pipes will be temporarily closed with wood blocks at the end of each work day. Grades shall not be less than 1/8" of an inch unless noted. Standard weight wrought steel pipe to conform with A.S.A. specification B-36. Article 10-1939 shall be used for the vents with the inside diameter 2 1/2 or less.

B. Water Piping:
Copper pipe shall be used for all supply piping except service from meter to building. Type "L" drawn copper pipe shall be used fro for pipe not set under concrete. Type "K" soft copper shall be used for piping under concrete. Fittings shall be wrought copper throughout. Dielectric couplings shall be used at any materials. Cut pipe exactly to measurements established at building and work without springing or forcing. Pipe from fitting shall be free from burrs and fins; and pipe ends reamed and cleaned joints shall be soldered streamline 95/5 solder.

4. Pipe Hangers an Supports
A. Horizontal suspending piping shall be supported by crowfoot Fig. L2 or equal adjustable steel ring hangers with solid rod supported turnbuckles capable of crew adjustments after installation. Hanger spacing for cast iron pipe shall not be greater than 5 feet; for other pipe not greater than 10 feet. Hangers shall be provided at offsets and changes in direction. Hangers will be 3/8" for pipe under 3", 1/2" inch above 3".

B. Piping shall be installed with adequate expansion a contraction using swing joints. Fitting shall be so spaced that they will not interfere with sliding of pipes on supports.

5. Cleanouts
A. Cleanouts same size as pipes shall be installed in soil and waste lines at every direction and at every 50 feet of run whether shown on drawing or not, and shall be accessible at cases. When occurring in finished wall or floor, set flush with surrounding surfaces.

6. Vents
A. Vents shall not extend less than ten inches through the roof . They shall be gathered together where possible as shown .

7. Flashing
A. Opening in a vent for roof and vent pipes shall not be lighter than 4 sq. per square foot sheet lead and be made of two pieces. The bottom piece will not be larger than 14 square. The top piece shall fit tightly and shall extend to the top of the pipe and turn down inside the pipe at least one inch.

8. Pipe Accessories
A. Gates Valves. 2 1/2 inches and smaller crane no. 431UB or equal screwed, 125 psi. 3 inches and larger. No. 351 - 1/4 or equal flanged 125psi in copper lines use Nibco 5235 or equal.
B. Globe Valves 2- 1/2 inches or smaller Crane no. 7 or equal, screwed no 125 psi; 3 inches or larger, crane no. 351- 1/4 or equal flanged 125 or equal 125 psi. In copper lines use Nibco 5235.

C. Valve Boxes and Valves. Valve boxes shall be cast iron with cast iron lids secured to box girth with brass cap screws. Valve shall be iron body brass or bronze trim wedge type 125 pd. WP and shall meet ANWA specifications.

D. Check Valves. In copper lines use Nibco No. 5433 or equal.
E. Dielectric Fittings. Nonferrous Electric Sales Co. Cleveland OH. or greater at the connection between copper pipes and ferrous pipe and equipment.

F. Provide trap primers for nearest sink or laboratory to hub drains and floor drainsequal to J.R. Smith "Primeze"
9. Fixtures
A. Fixtures shall include brackets cleats and anchors required for support.

B. All plumbing fixtures shall be first quality as defined and set forth in the commercial standards CS- 36 as promulgated by the US dept. of Commerce. All enamel iron equipment shall have acid resisting white enamel.
C. Fixtures and Fittings shall be from one manufacturer on similar in any room or location. Escalators, handles ect. on different fixtures shall be of same design. All fixtures and fittings shall be submitted for approval with cuts and full descriptions. All exposed metals shall be polished chrome on brass or bronze. All supply valves shall have renewable discs and seats. All hot and cold water valves shall have renewable seats and discs. Provide cast brass P traps with cleanest for each lavatory and sink except as specifically noted.

D. After plumbing fixtures are set the crack between the fixture and the wall shall be caulked carefully with turbliteas manufactured by the American Fluresite Company or approved or equal.
E. Connection to Equipment:
1. Contractor shall make the plumbing and piping connections to equipment specified to be furnished by the owner or under other section of these Specifications unless final connections to air and heating equipment. Sufficient approved air chambers shall be installed to prevent water hammer. After completion of work exposed fixtures equipment and pipe shall be cleaned thoroughly.

10. Pipe Insulation:
A. Domestic hot water pipe and drain piping from the water coolers shall be insulated with 1/2 inch thickness foam plastic insulation equal to Armstrong, Johns Manville or Gustin- Bacon. Insulation shall be applied in accordance with the manufacturers recommendations. miter cut insulation to fit pipe fittings. Seal all fittings with approved cement.
B. Where shown on the drawings or required by governmental agencies having jurisdiction , at lavatories for handicapped persons provide John Manville " Aerotube" insulation with paint coating on hot water supply tailpiece and trap.
11. Sleeves:
A. Pipe sleeves shall be schedule 40 steel pipe after cutting length of 14 gauge fabricated steel sleeves galvanized after fabrication. Install wherever pipe passes through floors or walls above grade. Size sleeves to allow minimum clearance between pipe and sleeve . Use Oakum caulking between pipe and sleeve, sealed with a hot poured plastic waterproof compound. Anchor sleeves in walls and floors floor sleeves to extent 1/4 above floor.

12. Water Heater:
A. Provide a 150 psi working temperature factory insulated and jacketed glass lined storage type electric water heater of the type and characteristics provided Heater shall be insulated with 1 1/2 inch thick foam insulation as required to meet energy code can be enclosed in baked enamel steel enclosure.
B. Unit shall include factory furnished ASME temp. pressure relief valve operating thermostat high limit control and magnesium rods for cathodic protection.

13. Access Panels:
A. Furnish access panels where indicated on the and where required to permit access to concealed equipment for operation, maintenance and repair. Access panels shall be sized for service however not less than 10"10 inches complete with frame and anchor traps hinged doors with screw drivers or keyed locked on furnished coating of paint unless otherwise noted. these panels should be turned over to the general contractor as construction progress, with instructions with proper locations.
B. Access Panels shall be Zurn # Z- 1376, #Z 1377 or J.R. Smith #476 or #4765.

14. Excavating
A. Perform necessary excavations and backfilling for the inside and outside plumbing lines and accessories. Excavating shall be true to the line and pitch. Backfill shall be placed in 8 inch layers in depth each layer properly moistened solidly iron tamped or otherwise compact to the density of not less than the adjacent undisturbed earth. Puddling with water to try and meet compacting will not be permitted. See section 02220.
15. Test and Inspections:
A. The complete system shall be tested in accordance with regulating authority or under direction of owner or his representative.
Division 15500 - AIR CONDITIONING
1. Work Included:
A. Provide materials equipment labor and services for the installation and placing into operation of a complete heating and cooling systems as specified or indicated.
B. The work in general shall consist of, but is not limited to the following:
1. Equipment as specified together with necessary ducts, grilles, registers, controls, piping, low voltage fans, control wiring, hangars, stands, equipment ducts shall be supported from the overhead members.
2. Related Work: Opening for ducts, grilles, registers, electric service to the equipment (except control wiring) and finished paintings.
2. General Requirements:
A. Equipment furnished shall fit the space available with connection ect., in the required location and in adequate space for operating and servicing. The Drawings are generally diagrammatic and indicate the manner and the method of installation while the specifications and equipment list denote the type of quality of material and workmanship to be used.
3. Equipment and Material:
A. In no case shall smaller equipment be installed unless specified or indicated.
4. Ducts:
A. Ducts shall be fabricated by skilled mechanics and installed in workmanlike manner.
B. Transitions fittings and elbows shall be constructed to offer a minimum of noise and resistance. Where space permits elbows shall have a radius of 1 1/2 times the width or depth and transitions shall be gradual with changes not exceeding 1 inch in 4 inches. When structural conditions necessitate fittings and elbows shall be made sharply as required by vane as recommended by ASHRAF guide. Right angle branch takeoffs to the grilles and registers from the main shall be made with the use of extractors.
C. Ducts shall be securely supported with strap iron or angles supported from the overhead members.
D. Sheet Metal Duct Work:
1. Sheet metal work shall be in accordance with the details shown in the latest edition of " Low Velocity Duct Construction Standards" referred to as manual, and published by the sheet metal and air conditioning contractors national assoc. Washington DC unless other wise indicated.
2. Manual shows methods of fabrication dampers louvers air intakes ect. Use the manual unless otherwise specified,
3. Use low carbon galvanized steel of lock forming quality with minimum galvanizing of 1.25 ounces pressure foot with the name of our manufacturer and trade name stamped on each sheet.
4. Flexible connections. For all connections to each duct provide Ventglas (Ventafabrics Inc.) or equal neoprene coated glass fabric flexible connections minimum 4 inches wide with at least one inch slack.
5. Hangers and Supporters. Use bond iron hangers for ducts 36" or smaller in width bend each hangar over on the bottom of the duct as in plate No. 18 and fasten with metal screws Use trapeze hangars for ducts greater than 36" in width.
E. Fiberglass Duct Work:
1. Fiberglass duct work shall be in accordance with the details shown in the latest edition of " Low Velocity Duct Construction Standards" referred to as manual, and published by the sheet metal and air conditioning contractors national assoc. Washington DC unless other wise indicated.
2. Manual shows methods of fabrication dampers louvers air intakes ect. Use the manual unless otherwise specified.
3. Use fibrous glass 1 inch thick standard duty duct board.
4. Hangars and supports are to be according to plate No. 20 of manual.
5. Insulation:
A. Supply ducts outside of the conditioned spaces shall be insulated with 2" of #75 Ultrite or equal with the insulation securely wired on the overlapping joints so that there are no voids. Raw edges of insulation shall be sealed.
B. The inside of the supply and return ducts from the air conditioner shall be lined from the air lined form the air handling equipment to a distance of twelve feet from the unit, or as indicated in the drawing; ultrite #300 -1/2 inch thick or approved duct liner acoustical board. this material shall be fitted carefully on the inside of the duct as shall be fastened on cement supplemented by screws and washers on top and side of ducts or use fiberglass ducts. Equipment be properly vibration isolated so as to minimize equipment operating noise transmission.
C. All insulation work shall be performed by a recognized insulation contractor specializing in commercial and industrial projects, installed with the manufacturers recommendations.
D. Insulation, vapor barrier, adhesive, sealer and covering installed as lining or covering shall pose a flame spread classification not exceeding twenty five without evidence of continued progressive combustion and a smoke developed rating not to exceed 50. Flame spread and smoke developed test procedures shall comply with ASTM E34T and shall be U.L. accordingly.
6. Ventilation:
A. Provide supply and exhaust fans of the size and type indicated. All fans and ducts shall operate without noise and vibration, the motor shall be isolated from the structure with approved type of isolation absorbers.
B. Power roof exhausted shall have steel frame and aluminum or fiberglass housing. Fans shall be direct drive or vee belt using a cast iron sheaves. The motor sheaves shall be at a variable of plus or minus variation of the speed. The entire rotating assembly and the end of the motor of each fan shall be isolated from the structure. The hood covering the fan motor and drive shall be hinged and approved locking device to fasten hood in closed and open positions. Bird screen of 1/2 inch aluminum hardware cloth shall be provided for all fan outlets. Self acting dampers are required Provide nonfusible disconnect with art each fan.

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1. Equipment as specified together with necessary ducts, grilles, registers, controls, piping, low voltage fans, control wiring, hangars, stands, equipment ducts shall be supported from the overhead members.
2. Related Work: Opening for ducts, grilles, registers, electric service to the equipment (except control wiring) and finished paintings.
2. General Requirements:
A. Equipment furnished shall fit the space available with connection ect., in the required location and in adequate space for operating and servicing. The Drawings are generally diagrammatic and indicate the manner and the method of installation while the specifications and equipment list denote the type of quality of material and workmanship to be used.
3. Equipment and Material:
A. In no case shall smaller equipment be installed unless specified or indicated.
4. Ducts:
A. Ducts shall be fabricated by skilled mechanics and installed in workmanlike manner.
B. Transitions fittings and elbows shall be constructed to offer a minimum of noise and resistance. Where space permits elbows shall have a radius of 1 1/2 times the width or depth and transitions shall be gradual with changes not exceeding 1 inch in 4 inches. When structural conditions necessitate fittings and elbows shall be made sharply as required by vane as recommended by ASHRAF guide. Right angle branch takeoffs to the grilles and registers from the main shall be made with the use of extractors.
C. Ducts shall be securely supported with strap iron or angles supported from the overhead members.
D. Sheet Metal Duct Work:
1. Sheet metal work shall be in accordance with the details shown in the latest edition of " Low Velocity Duct Construction Standards" referred to as manual, and published by the sheet metal and air conditioning contractors national assoc. Washington DC unless other wise indicated.
2. Manual shows methods of fabrication dampers louvers air intakes ect. Use the manual unless otherwise specified,
3. Use low carbon galvanized steel of lock forming quality with minimum galvanizing of 1.25 ounces pressure foot with the name of our manufacturer and trade name stamped on each sheet.
4. Flexible connections. For all connections to each duct provide Ventglas (Ventafabrics Inc.) or equal neoprene coated glass fabric flexible connections minimum 4 inches wide with at least one inch slack.
5. Hangers and Supporters. Use bond iron hangers for ducts 36" or smaller in width bend each hangar over on the bottom of the duct as in plate No. 18 and fasten with metal screws Use trapeze hangars for ducts greater than 36" in width.
E. Fiberglass Duct Work:
1. Fiberglass duct work shall be in accordance with the details shown in the latest edition of " Low Velocity Duct Construction Standards" referred to as manual, and published by the sheet metal and air conditioning contractors national assoc. Washington DC unless other wise indicated.
2. Manual shows methods of fabrication dampers louvers air intakes ect. Use the manual unless otherwise specified.
3. Use fibrous glass 1 inch thick standard duty duct board.
4. Hangars and supports are to be according to plate No. 20 of manual.
5. Insulation:
A. Supply ducts outside of the conditioned spaces shall be insulated with 2" of #75 Ultrite or equal with the insulation securely wired on the overlapping joints so that there are no voids. Raw edges of insulation shall be sealed.
B. The inside of the supply and return ducts from the air conditioner shall be lined from the air lined form the air handling equipment to a distance of twelve feet from the unit, or as indicated in the drawing; ultrite #300 -1/2 inch thick or approved duct liner acoustical board. this material shall be fitted carefully on the inside of the duct as shall be fastened on cement supplemented by screws and washers on top and side of ducts or use fiberglass ducts. Equipment be properly vibration isolated so as to minimize equipment operating noise transmission.
C. All insulation work shall be performed by a recognized insulation contractor specializing in commercial and industrial projects, installed with the manufacturers recommendations.
D. Insulation, vapor barrier, adhesive, sealer and covering installed as lining or covering shall pose a flame spread classification not exceeding twenty five without evidence of continued progressive combustion and a smoke developed rating not to exceed 50. Flame spread and smoke developed test procedures shall comply with ASTM E34T and shall be U.L. accordingly.
6. Ventilation:
A. Provide supply and exhaust fans of the size and type indicated. All fans and ducts shall operate without noise and vibration, the motor shall be isolated from the structure with approved type of isolation absorbers.
B. Power roof exhausted shall have steel frame and aluminum or fiberglass housing. Fans shall be direct drive or vee belt using a cast iron sheaves. The motor sheaves shall be at a variable of plus or minus variation of the speed. The entire rotating assembly and the end of the motor of each fan shall be isolated from the structure. The hood covering the fan motor and drive shall be hinged and approved locking device to fasten hood in closed and open positions. Bird screen of 1/2 inch aluminum hardware cloth shall be provided for all fan outlets. Self acting dampers are required Provide nonfusible disconnect with art each fan.

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2. Manual shows methods of fabrication dampers louvers air intakes ect. Use the manual unless otherwise specified.
3. Use fibrous glass 1 inch thick standard duty duct board.
4. Hangars and supports are to be according to plate No. 20 of manual.
5. Insulation:
A. Supply ducts outside of the conditioned spaces shall be insulated with 2" of #75 Ultrite or equal with the insulation securely wired on the overlapping joints so that there are no voids. Raw edges of insulation shall be sealed.
B. The inside of the supply and return ducts from the air conditioner shall be lined from the air lined form the air handling equipment to a distance of twelve feet from the unit, or as indicated in the drawing; ultrite #300 -1/2 inch thick or approved duct liner acoustical board. this material shall be fitted carefully on the inside of the duct as shall be fastened on cement supplemented by screws and washers on top and side of ducts or use fiberglass ducts. Equipment be properly vibration isolated so as to minimize equipment operating noise transmission.
C. All insulation work shall be performed by a recognized insulation contractor specializing in commercial and industrial projects, installed with the manufacturers recommendations.
D. Insulation, vapor barrier, adhesive, sealer and covering installed as lining or covering shall pose a flame spread classification not exceeding twenty five without evidence of continued progressive combustion and a smoke developed rating not to exceed 50. Flame spread and smoke developed test procedures shall comply with ASTM E34T and shall be U.L. accordingly.
6. Ventilation:
A. Provide supply and exhaust fans of the size and type indicated. All fans and ducts shall operate without noise and vibration, the motor shall be isolated from the structure with approved type of isolation absorbers.
B. Power roof exhausted shall have steel frame



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TAS1.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
LICENSE: EXP: 11-30-24

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	FINAL PRINT

SCOPE OF THE DOCUMENT

This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

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SHEET TITLE

TEXAS ACCESSIBILITY STANDARDS REFERENCE INFORMATION SHEETS

DRAWING NUMBER SHEET NO.

TAS1

2012 TAS

Texas Accessibility Standards

Elimination of Architectural Barriers
Texas Government Code, Chapter 469
Administered by the Texas Department of Licensing and Regulation

Effective March 15, 2012

Mailing Address
P O Box 12157 Austin TX 78711
Physical Address
920 Colorado Street Austin TX 78701

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Relay Texas - TDD (800) 735-2989
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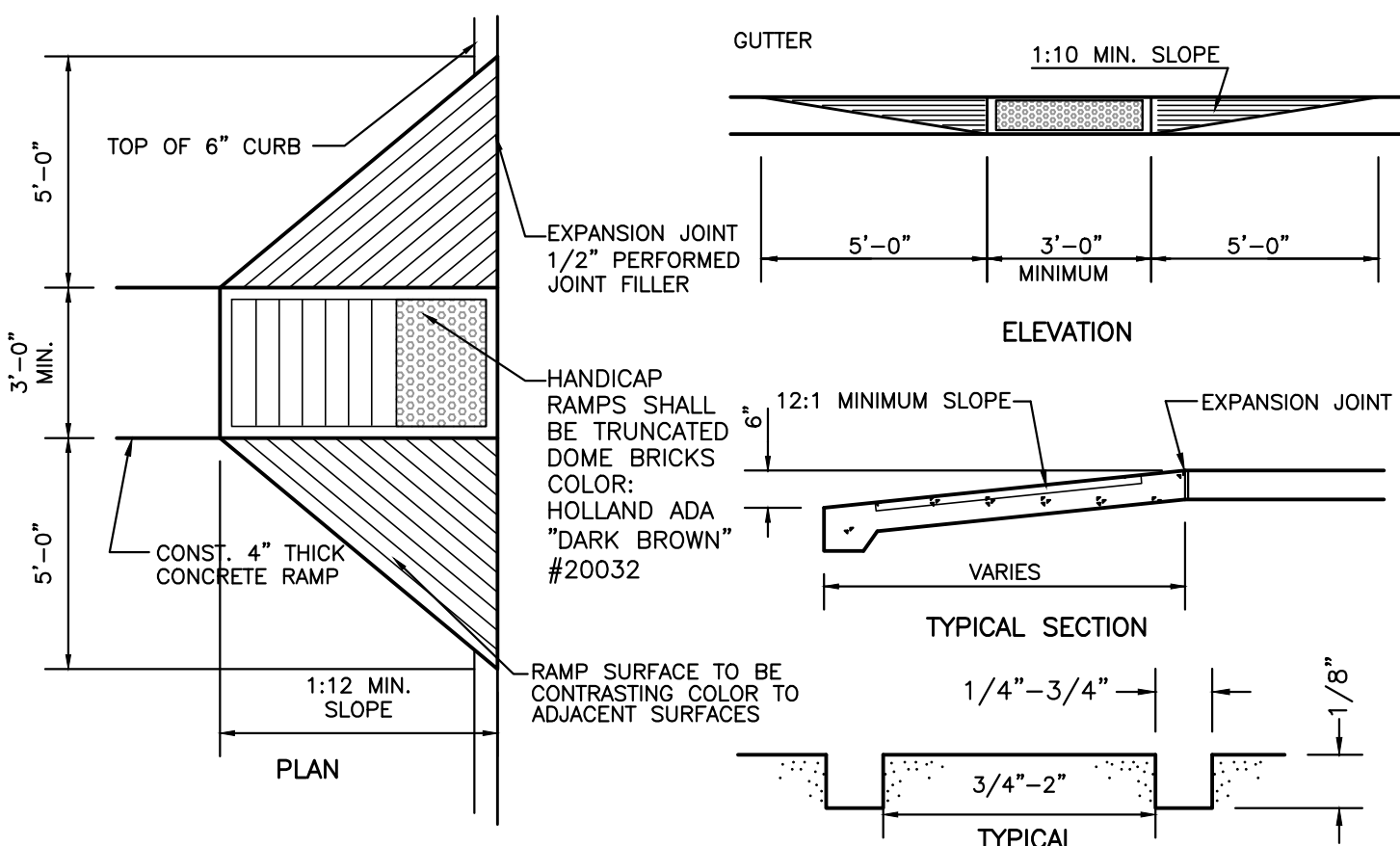
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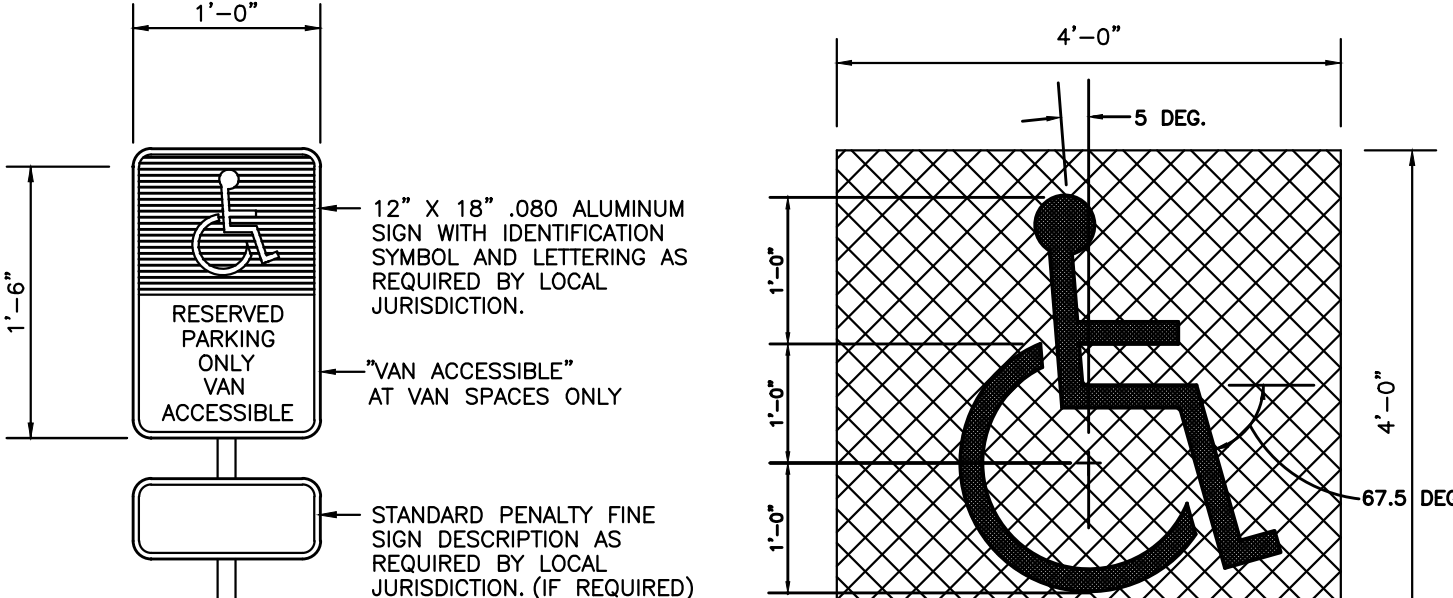
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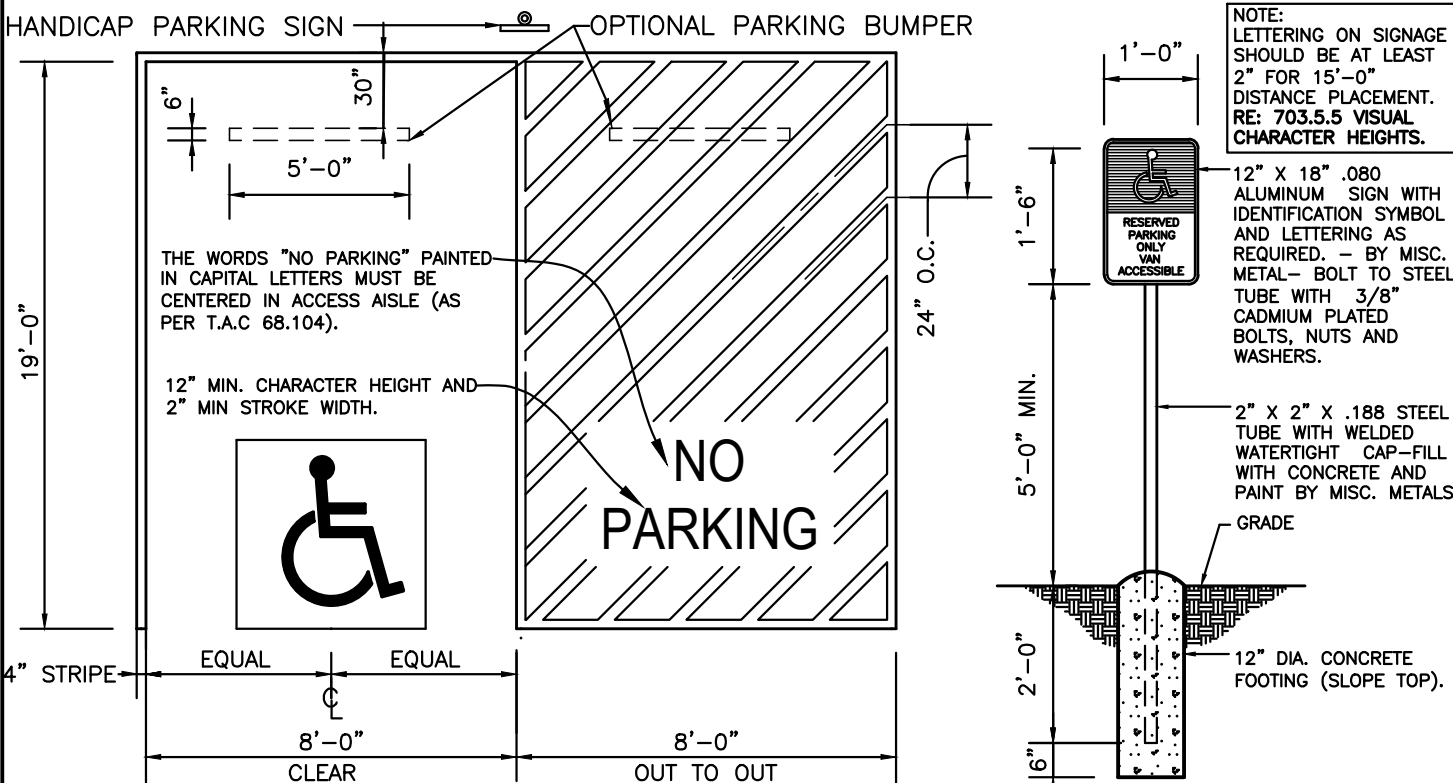
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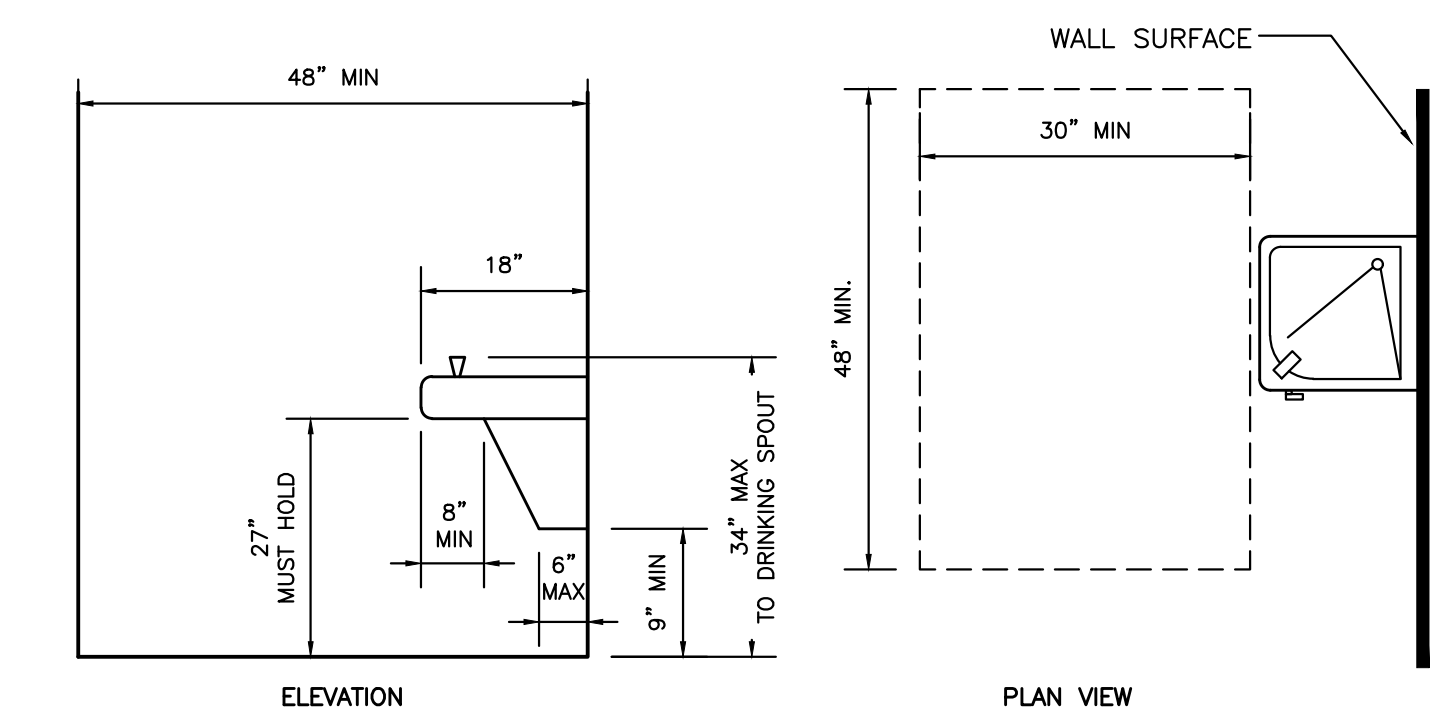
5 STANDARD ACCESSIBLE RAMP
NOT TO SCALE
RE: ALL RAMP SHALL MEET PREFERRED DIMENSIONS UNLESS OTHERWISE SPECIFIED BY THE DRAWINGS.



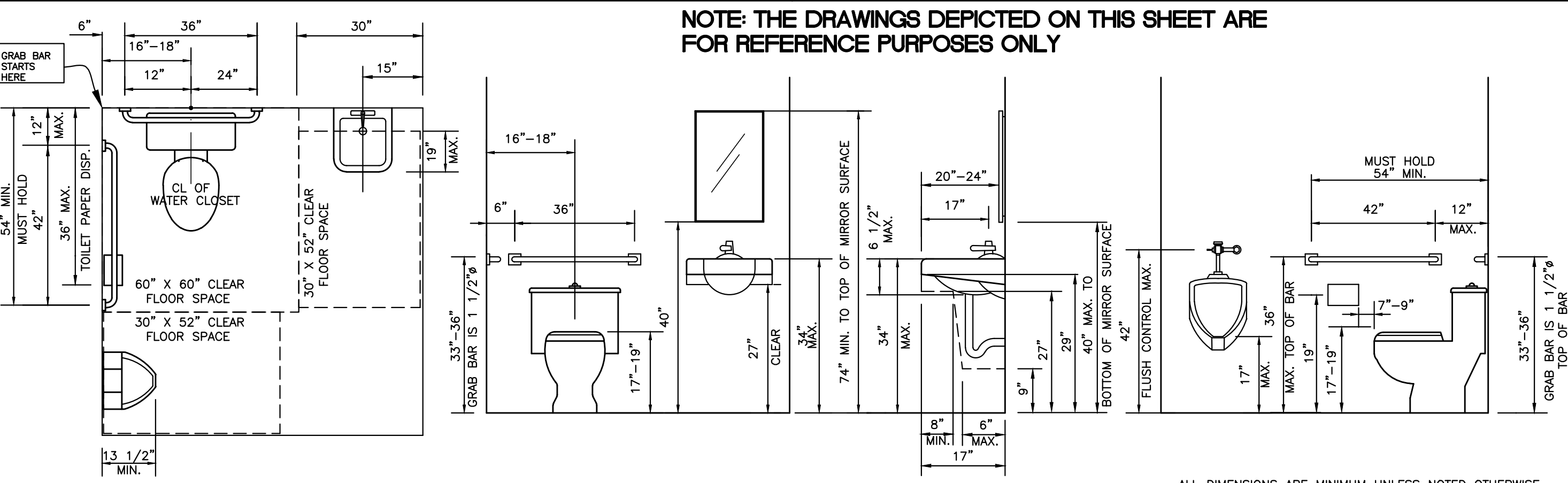
4 RESERVE PARKING SIGN
NOT TO SCALE
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3 STANDARD PARKING REQUIREMENTS (FOR VAN ACCESSIBLE PARKING)
NOT TO SCALE
RE: RESERVE PARKING SIGN



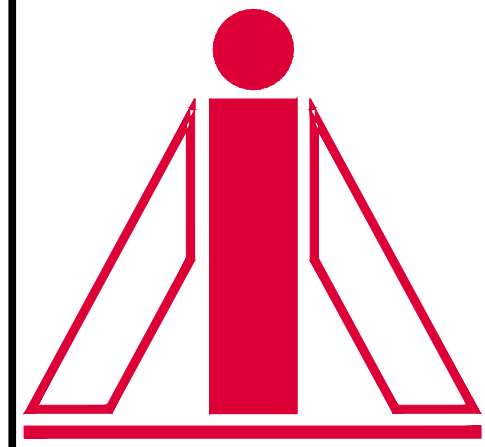
2 HANDICAP DRINKING WATER FOUNTAIN
NOT TO SCALE
RE:



1 ACCESSIBLE RESTROOM DIMENSIONS (FOR REFERENCE PURPOSES ONLY)
NOT TO SCALE
RE: NOTE: TOILET ROOMS/RESTROOMS SHALL COMPLY WITH THE LATEST T.A.S. REQUIREMENTS.

ALL DIMENSIONS ARE MINIMUM UNLESS NOTED OTHERWISE

GRAB BARS AND MOUNTING BRACKETS TO BE DESIGNED FOR 250 LB. LOAD MINIMUM, ALSO - HOT WATER AND DRAIN PIPES TO BE INSULATED



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PLANNING ARCHITECTURE INTERIORS
281-398-2020

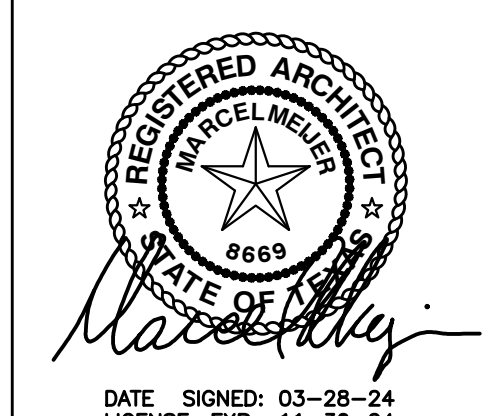
PROJECT NUMBER
CEF22-TAS2.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



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REVISIONS

NO.	DATE	DESCRIPTION

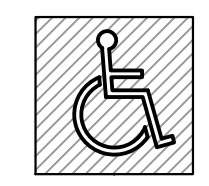
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SHEET TITLE
TEXAS ACCESSIBILITY STANDARDS REFERENCE INFORMATION SHEETS

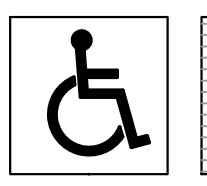
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TAS2

ACCESSIBILITY NOTES

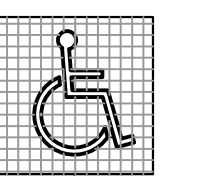
13. ACCESSIBLE SIGNAGE REQUIREMENTS - 703 TAS:
- CHARACTER PROPORTION**
LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10 (USING AN UPPER CASE "X" FOR MEASUREMENT). LOWER CASE LETTERS ARE PERMITTED.
 - OVERHEAD SIGNS**
MINIMUM HEIGHT TO OVERHEAD SIGNS SHALL BE 80" CLEAR ABOVE FINISHED FLOOR. CHARACTERS AND NUMBERS ON OVERHEAD SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE READ; CHARACTER HEIGHT SHALL NOT BE LESS THAN 3 INCHES; USING AN UPPER CASE "X". LOWER CASE CHARACTERS ARE PERMITTED.
 - RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS SHALL BE PROVIDED.**
LETTERS AND NUMERALS SHALL BE RAISED 1/32 INCH, UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 INCH HIGH, BUT NO HIGHER THAN 2 INCHES. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MINIMUM IN HEIGHT.
 - FINISH AND CONTRAST**
THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND; EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
 - MOUNTING LOCATION AND HEIGHT (WALL SIGNS)**
WHERE PERMANENT IDENTIFICATION PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO SPACE AVAILABLE TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. TABLE 703.5.5 VISUAL CHARACTER HEIGHT FOR DISTANCES TO 120"
 - SYMBOLS OF ACCESSIBILITY.**
 - FACILITIES AND ELEMENTS REQUIRED TO BE IDENTIFIED AS ACCESSIBLE SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (SEE FIG. BELOW).
 - VOLUME CONTROL TELEPHONES: TELEPHONES REQUIRED TO HAVE A VOLUME CONTROL SHALL BE IDENTIFIED BY A SIGN CONTAINING A DEPICTION OF A TELEPHONE HANDSET WITH RADIATING SOUND WAVES.
 - TEXT TELEPHONES: TEXT TELEPHONES REQUIRED SHALL BE IDENTIFIED BY THE INTERNATIONAL TDD SYMBOL. (SEE FIG. BELOW). IN ADDITION, IF A FACILITY HAS A PUBLIC TEXT TELEPHONE, DIRECTIONAL SIGNAGE INDICATING THE LOCATION OF THE NEAREST TEXT TELEPHONE SHALL BE PLACED ADJACENT TO ALL BANKS OF TELEPHONES WHICH DO NOT CONTAIN A TEXT TELEPHONE. SUCH DIRECTIONAL SIGNAGE SHALL INCLUDE THE INTERNATIONAL TDD SYMBOL. IF A FACILITY HAS NO BANKS OF TELEPHONES, THE DIRECTIONAL SIGNAGE SHALL BE PROVIDED AT THE ENTRANCE. (E.G., IN A BUILDING DIRECTORY).
 - ASSISTIVE LISTENING SYSTEMS: IN ASSEMBLY AREAS WHERE PERMANENTLY INSTALLED ASSISTIVE LISTENING SYSTEMS ARE REQUIRED BY THE AVAILABILITY OF SUCH SYSTEMS SHALL BE IDENTIFIED WITH SIGNAGE THAT INCLUDES THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS (SEE FIG. BELOW).



PROPORTIONS INTERNATIONAL SYMBOL OF ACCESSIBILITY



INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS



INTERNATIONAL TDD SYMBOL



INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

GRAB BARS - 609 TAS

- SIZE AND SPACING OF GRAB BARS:**
THE DIAMETER OF A GRAB BAR SHALL BE 1 1/4 INCHES (MIN.) TO 1 1/2 INCHES (MAX.). IF GRAB BARS ARE MOUNTED ADJACENT TO WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1/2 INCHES.
- STRUCTURAL STRENGTH:**
THE STRUCTURAL STRENGTH OF GRAB BARS, FASTENERS, AND MOUNTING DEVICES SHALL BE CAPABLE OF SUPPORTING A STEADY FORCE OF 250 LBS. APPLIED IN ANY DIRECTION. GRAB BARS SHALL NOT ROTATE IN THEIR MOUNTING.
- ELIMINATING HAZARDS:**
HANDRAILS AND ADJACENT WALLS OR OTHER SURFACES SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.

HARDWARE

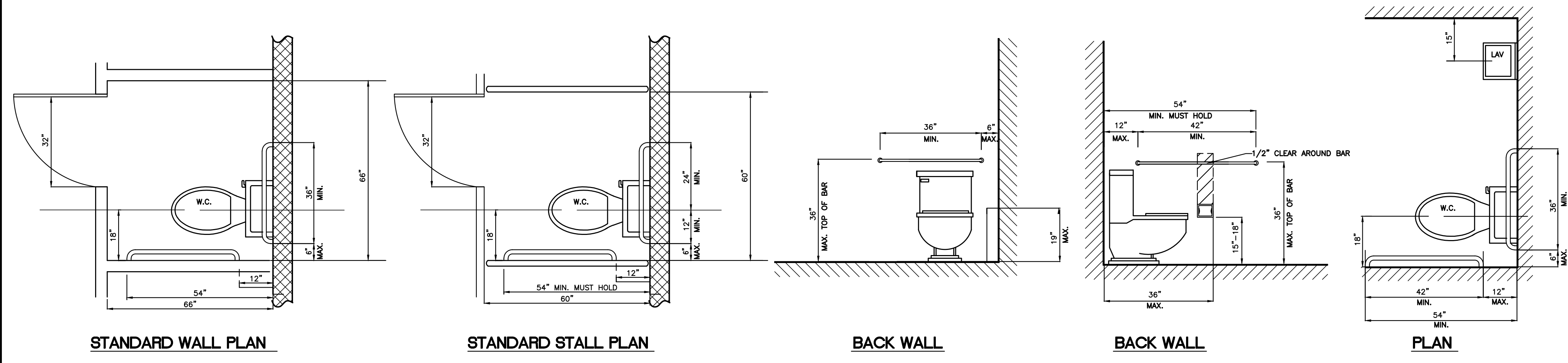
- HARDWARE SPECIFICATIONS:**
ALL HARDWARE SHALL BE LEVER TYPE OR OTHER SHAPE, (WHICH WILL PERMIT OPERATION BY WRIST OR ARM PRESSURE, AND DOES NOT REQUIRE TIGHT GRASPING, TWISTING, OR PINCHING TO OPERATE) LOCATED NO MORE THAN 42 INCHES ABOVE THE FINISHED FLOOR. ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED A MINIMUM HEIGHT OF 15" ABOVE THE FLOOR.
- EXIT DOOR FORCE SPEC'S:**
THE MAXIMUM OPENING FORCE FOR DOORS LOCATED WITHIN AN ACCESSIBLE ROUTE OF TRAVEL, REQUIRED U.B.C. CHAPTER 31, SHALL NOT EXCEED 8.5 LBS. FOR EXTERIOR HINGED DOORS, 5 LBS. FOR INTERIOR HINGED DOORS. FORCES SHALL BE APPLIED TO THE LATCH SIDE.

CONTROLS AND HARDWARE REQUIREMENTS - 308 AND 309 OF TAS

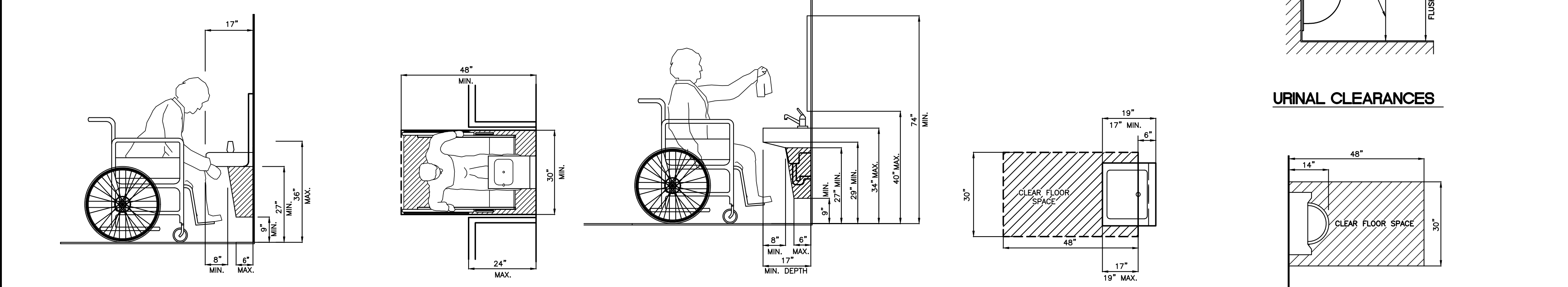
- CONTROLS AND HARDWARE:**
HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS, WINDOWS, CABINETS, AND OTHER OPERABLE EQUIPMENT SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN TAS. AND NOT LESS THAN 36" ABOVE THE FLOOR. ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED A MINIMUM OF 15 INCHES IN HEIGHT ABOVE THE FLOOR. DOOR HARDWARE SHALL BE MOUNTED NOT BE MORE THAN 42 INCHES ABOVE THE FINISHED FLOOR.
- MOUNTING HEIGHTS:**
THE HIGHEST OPERABLE PART OF ENVIRONMENTAL AND OTHER CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN TAS. AND NOT LESS THAN 36" ABOVE THE FLOOR. ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED A MINIMUM OF 15 INCHES IN HEIGHT ABOVE THE FLOOR. DOOR HARDWARE SHALL BE MOUNTED NOT BE MORE THAN 42 INCHES ABOVE THE FINISHED FLOOR.

SIGNAGE REQUIREMENTS - 703 OF TAS

- CHARACTER PROPORTION:** LETTERS & NUMBERS ON SIGN SHALL HAVE WIDTH-TO-HEIGHT RATIOS BETWEEN 3:5 & 1:1 & A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 & 1:10 USING AN UPPER-CASE "X" FOR MEASUREMENT. LOWER CASE LETTERS ARE PERMITTED.
- RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS (PICTOGRAMS):** LETTERS & NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MIN. IN HEIGHT.
- FINISH & CONTRAST:** THE CHARACTERS & BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND; EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- MOUNTING LOCATION AND HEIGHT:** PERMANENT IDENTIFICATION SIGNS FOR ROOMS & SPACES SHALL BE MTD ON WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. FOR DOUBLE DOORS & DOORS WITH NO SPACE AVAILABLE ON THE LATCH SIDE OF THE DOOR, MOUNT SIGNS ON THE NEAREST ADJACENT WALL. SEE DETAIL BELOW FOR ADDITIONAL REQUIREMENTS

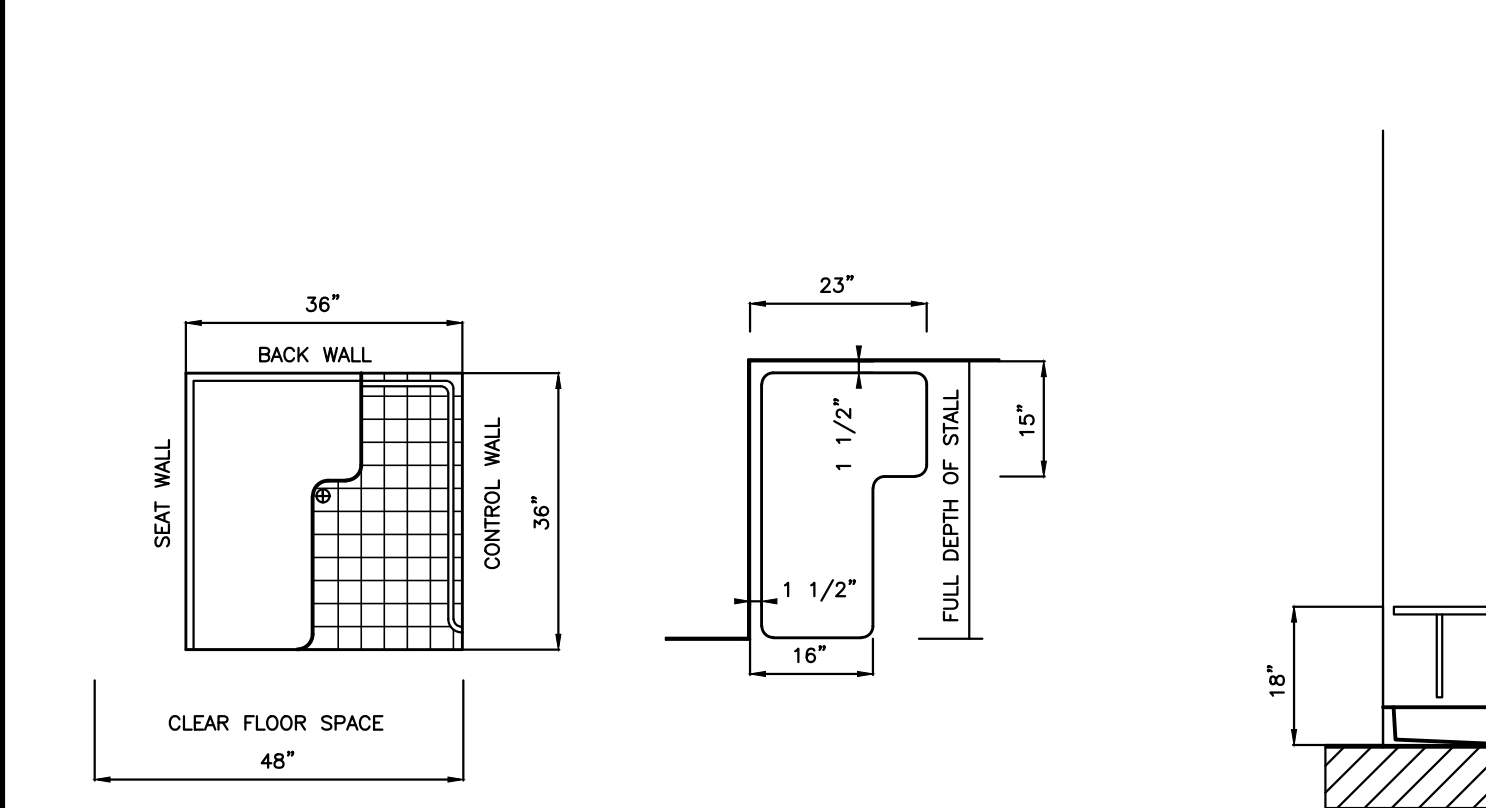


WATER CLOSET AND GRAB BAR REQUIREMENTS



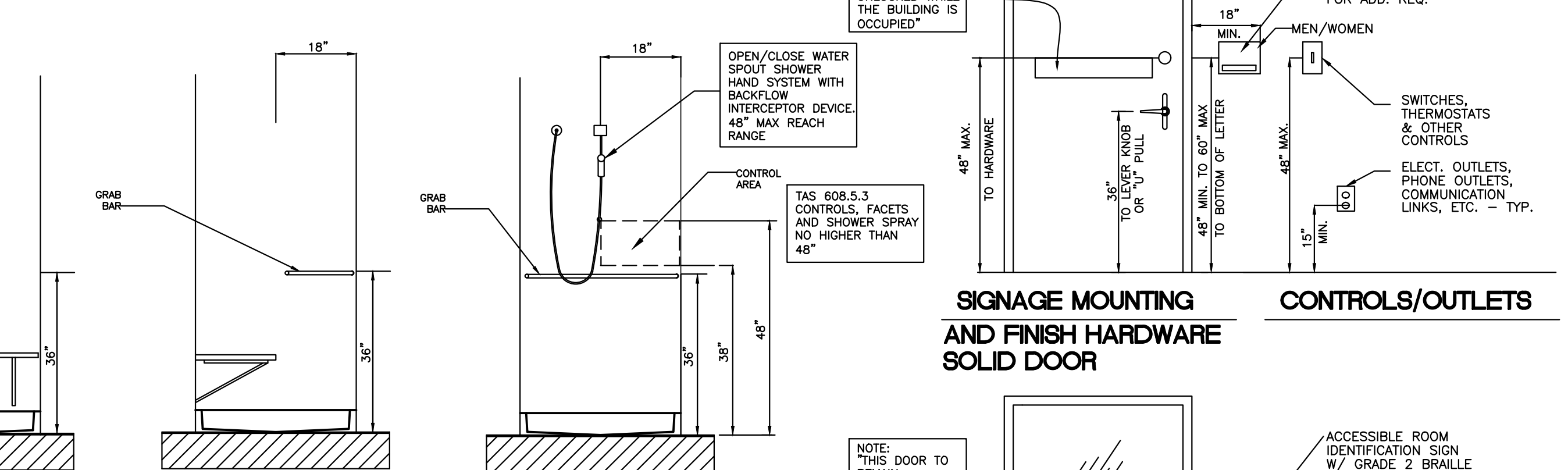
NOTE: EQUIPMENT PERMITTED IN SHADED AREA
SPOUT HEIGHT AND KNEE CLEARANCE **CLEAR FLOOR SPACE** **LAVATORY CLEARANCES** **CLEAR FLOOR SPACE AT LAVATORIES** **CLEAR FLOOR SPACE AT URINAL**

DRINKING FOUNTAIN REQUIREMENTS



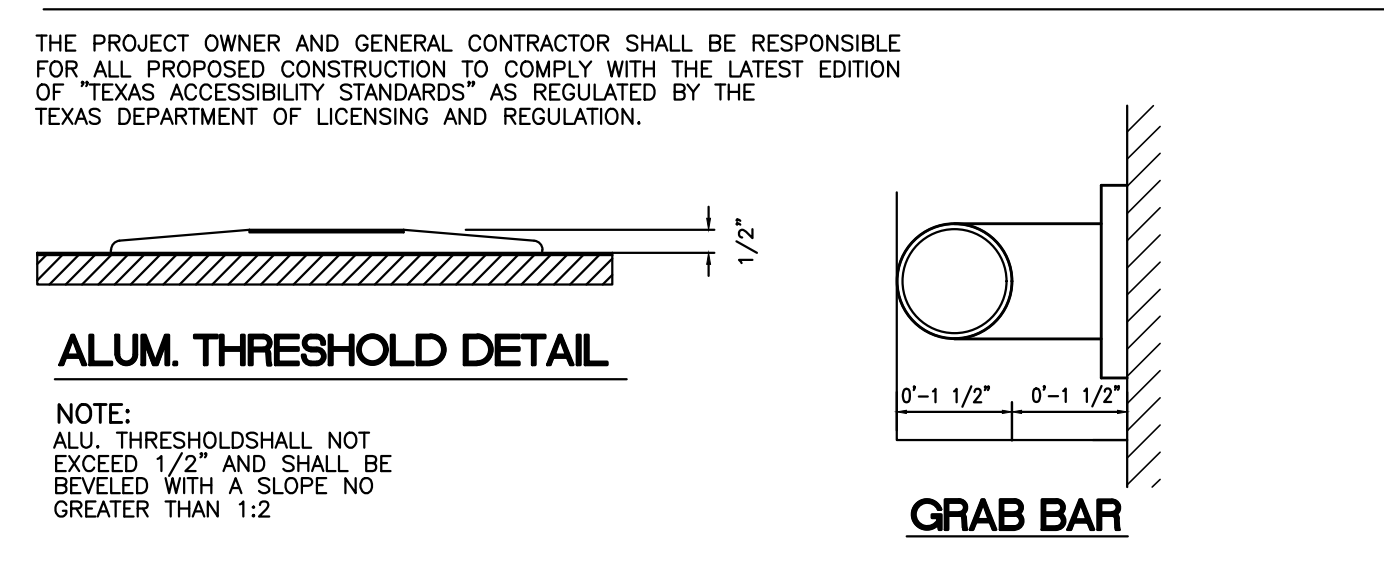
36'x 36' STALL **SHOWER SEAT DESIGN** **SEAT WALL**

LAVATORY REQUIREMENTS



BACK WALL **CONTROL WALL** **SIGNAGE MOUNTING AND FINISH HARDWARE SOLID DOOR**

STANDARD ACCESSIBLE REQUIREMENTS



TYPICAL ACCESSORIES MOUNTING HEIGHT REQUIREMENT - 48" MAX HEIGHT

ALUM. THRESHOLD DETAIL

GRAB BAR

MECHANICAL SPECIFICATIONS:

PART 1 - GENERAL

- 1.1 SUBMITTALS
A.PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1.2 WARRANTY
A.WARRANT NEW AND MODIFIED DUCTWORK FOR PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF JOB, AGAINST NOISE AND VIBRATION UNDER FULL RANGE OF OPERATING CONDITIONS.

PART 2 - PRODUCTS

- 2.1 METAL DUCTS
A.CONTINUOUS HOT-DIP MILL GALVANIZED. MINIMUM COATING OF G60, LOCK-FORMING QUALITY STEEL SHEETS IN ACCORDANCE WITH ASTM A653.
B. GAUGES: SHEET METAL GAUGE AS SPECIFIED IN SMACNA - HVAC DUCT CONSTRUCTION STANDARDS BUT NOT LESS THAN THE FOLLOWING:
1. RECTANGULAR DUCT: 26 GAUGE FOR ALL SIZES.
2. ROUND DUCT: PRIME GRADE STEEL SHEET.
a. 14 INCH DIAMETER AND SMALLER: 26 GAUGE.
b. 15 INCH DIAMETER THRU 26 INCH DIAMETER: 24 GAUGE.
C.ROUND DUCT SHALL BE SPIRAL SEAM WHERE EXPOSED AND NOT INSULATED. IN ALL OTHER AREAS SPIRAL OR LONGITUDINAL SHALL BE USED.

- 2.2 TURNING VANES
A.MANUFACTURED TURNING VANES FOR METAL DUCTS: CURVED BLADES OF GALVANIZED SHEET STEEL; SUPPORT WITH BARS PERPENDICULAR TO BLADES SET; SET INTO VANE RUNNERS SUITABLE FOR DUCT MOUNTING.
B.GENERAL REQUIREMENTS: COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 4-3 "VANES AND VANE RUNNERS," 4-4, "VANE SUPPORT IN ELBOWS."
C.VANE CONSTRUCTION: SINGLE WALL

- 2.3 SEALANT AND GASKET
A.GENERAL SEALANT AND GASKET REQUIREMENTS: SURFACE-BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL BE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE- DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723; CERTIFIED BY AN NRTL.

- 2.4 HANGERS AND SUPPORTS
A.HANGER RODS: CADMIUM-PLATED STEEL RODS AND NUTS.
B.STRAP AND ROD SIZES: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," TABLE 5-1," RECTANGULAR DUCT HANGERS MINIM SIZE," AND TABLE 5-2 "MINIMUM HANGER SIZES FOR ROUND DUCT."
C.STEEL CABLES FOR GALVANIZED STEEL DUCTS: GALVANIZED STEEL COMPLYING WITH ASTM A 603.
D.STEEL CABLE END CONNECTIONS: CADMIUM PLATED STEEL ASSEMBLIES WITH BRACKETS, SWIVEL, AND BOLTS DESIGNED FOR DUCT HANGER SERVICE; WITH AN AUTOMATIC-LOCKING AND CLAMPING DEVICE.
E.DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-TAPPING METAL SCREWS; COMPATIBLE WITH DUCT MATERIALS.

- 2.5 MECHANICAL EQUIPMENT
A. PROVIDE EQUIPMENT INDICATED ON DRAWINGS.
B.PRODUCTS REQUIRING ELECTRICAL CONNECTION: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INCORPORATED, AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.
C.OPERATION AND MAINTENANCE DATA: INCLUDE MANUFACTURER'S DESCRIPTIVE LITERATURE, OPERATING INSTRUCTIONS, MAINTENANCE AND REPAIR DATA, AND PARTS LISTING FOR MECHANICAL EQUIPMENT.

- 2.6 CONTROLS
A.PROVIDE COMPLETE CONTROLS SYSTEM INCLUDING STEP-DOWN TRANSFORMERS FOR 24 VAC CONTROL, RELAYS, RELAY BOARDS, RELAY BASES, PRINTED CIRCUIT BOARDS, THERMOSTATS, TIMERS, SENSORS, INDICATORS, ACTUATORS, AND OTHER NECESSARY DEVICES REQUIRED FOR COMPLETE INSTALLATION INCLUDING ENCLOSURES FOR EQUIPMENT, LOCATIONS AND TYPES OF THERMOSTATS, TIMERS, AND OTHER CONTROLS EQUIPMENT ARE INDICATED ON DRAWINGS.
B.POWER SUPPLIES: TRANSFORMERS WITH CLASS 2 CURRENT-LIMITING TYPE OR OVERCURRENT PROTECTION; LIMIT CONNECTED LOADS TO 80 PERCENT OF RATED CAPACITY. DC POWER SUPPLY SHALL MATCH OUTPUT CURRENT AND VOLTAGE REQUIREMENTS AND BE FULL WAVE RECTIFIER TYPE.
C.DEVICES
1. TEMPERATURE SENSORS
a. ACCURACY: PLUS OR MINUS 0.36 DEG F OR 0.2 PERCENT AT CALIBRATION POINT.
b. WIRE: TWISTED SHIELDED PAIR - CABLE.
c. OUTSIDE AIR SENSORS: WATERTIGHT INLET FITTING, SHIELDED FROM DIRECT SUNLIGHT.
2. PROGRAMMABLE THERMOSTAT
a. ELECTRIC, SOLID STATE, MICROCOMPUTER-BASED ROOM THERMOSTAT WITH REMOTE SENSOR.
b. AUTOMATIC SWITCHING FROM HEATING TO COOLING.
3. LOW VOLTAGE ON OFF THERMOSTATS
a. 24-VAC, BIMETAL-OPERATED, SNAP-ACTING,

MECHANICAL SPECIFICATIONS:

- MERCURY FREE, WITH ANTICIPATION HEATER, SET-POINT ADJUSTMENT, AND 3 DEG F MAXIMUM DIFFERENTIAL.
D.LOW VOLTAGE CONTROL WIRING
1. JACKETED, INDIVIDUALLY SHIELDED TWISTED PAIRS OF STRANDED INSULATED TINNED COPPER CONDUCTORS.
2. STRANDED TINNED COPPER DRAIN WIRE.
3. PLENUM-RATED JACKET FOR PLENUM APPLICATIONS.
4. CONDUCTOR SIZES BASED ON 10% MAXIMUM VOLTAGE DROP.
5. MINIMUM WIRE SIZE: 22 AWG, MAXIMUM WIRE SIZE: 14 GAUGE.

PART 3 - EXECUTION

- 3.1 GENERAL
A. UNLESS OTHERWISE DICTATED BY APPLICABLE CODES OR THE AUTHORITY HAVING JURISDICTION, ALL MATERIALS WITHIN RETURN AIR PLENUM MUST BE NONCOMBUSTIBLE AND/OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 IN ACCORDANCE WITH ASTM E 84 TESTING.
B. PROTECT WORK, EQUIPMENT AND MATERIAL TO PREVENT OBSTRUCTION, DAMAGE OR BREAKAGE. CLOSE PIPE OPENINGS WITH CAPS OR PLUGS DURING INSTALLATION. COVER AND PROTECT EQUIPMENT AGAINST DIRT, WATER, CHEMICAL OR MECHANICAL INJURY. AT THE COMPLETION OF WORK, THOROUGHLY CLEAN ALL EQUIPMENT AND DELIVER THE ENTIRE SYSTEM IN AN UNBLEMISHED CONDITION.
C. MAKE CHANGES IN PULLEYS, BELTS, DUCTWORK, AND DAMPERS AS REQUIRED FOR CORRECT BALANCE AS RECOMMENDED BY AIR BALANCE AGENCY.
D. PROVIDE PENETRATION FIRESTOPPING THAT IS PRODUCED AND INSTALLED TO MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF CONSTRUCTION PENETRATED. PENETRATION FIRESTOPPING SYSTEMS SHALL BE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENING, AND WITH PENETRATING ITEMS IF ANY.
1. COORDINATE SIZING OF SLEEVES, OPENINGS CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE PENETRATION FIRESTOPPING.
2. INSTALL PENETRATION FIRESTOPPING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.

- 3.2 DUCT INSTALLATION
A.INSTALL DUCTS ACCORDING TO SMACNA STANDARDS.
B.PROTECT DUCT INTERIORS FROM MOISTURE, CONSTRUCTION DEBRIS, AND OTHER FOREIGN MATERIALS.
C.FABRICATE, ERECT, AND INSTALL DUCTWORK FOR HEATING, VENTILATING, AND AIR CONDITIONING PER SMACNA STANDARDS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
D.MAKE JOINTS AIR TIGHT ON ALL DUCTWORK. SEAL EXHAUST DUCTWORK WITH EXTERIOR SEAL AS REQUIRED TO ASSURE POSITIVE SEAL. COMPLY WITH SMACNA DUCT CLASS A.
E. INSTALL FACTORY FABRICATED FITTINGS FOR CHANGES IN DIRECTION, SIZE, AND SHAPE AND FOR BRANCH CONNECTIONS.

- 3.3 HANGERS AND SUPPORT INSTALLATION
A.COMPLY WITH SMACNA STANDARDS.
B. INSTALL HANGERS AND SUPPORTS WITHIN 24" OF EACH ELBOW AND WITH 48" OF EACH BRANCH INTERSECTION.
C.DO NOT USE FASTENERS THAT PENETRATE ROOF DECK.

- 3.4 MECHANICAL EQUIPMENT
A.INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3.5 CONTROLS
A. COORDINATE LOCATION OF THERMOSTATS, HUMIDISTATS, AND OTHER EXPOSED CONTROL SENSORS WITH PLANS AND ROOM DETAILS BEFORE INSTALLATION.
B. CONNECT AND CONFIGURE EQUIPMENT AND SOFTWARE TO ACHIEVE SEQUENCE OF OPERATIONS.
C.LOW VOLTAGE CONTROL WIRING.
1. COMPLY WITH NECA 1.
2. COMPLY WITH TIA/EIA-568-B.1.
3. BUNDLE AND HARNESS MULTICONDUCTOR INSTRUMENT CABLE IN PLACE OF SINGLE CABLES WHERE SEVERAL CABLES FOLLOW A COMMON PATH.
4. NUMBER-CODE OR COLOR-CODE CONDUCTORS FOR FUTURE IDENTIFICATION AND SERVICE OF CONTROL SYSTEM, EXCEPT LOCAL INDIVIDUAL ROOM CONTROL CABLES.
5. CONCEAL CABLE, EXCEPT IN MECHANICAL ROOMS AND AREAS WHERE OTHER CONDUIT AND PIPING ARE EXPOSED.
6. INSTALL PLENUM-RATED CABLE IN ENVIRONMENTAL AIR SPACES INCLUDING PLENUM CEILINGS.
7. WIRING WITHIN ENCLOSURES
a. BUNDLE, LACE, AND TRAIN CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS.
b. INSTALL CONDUCTORS PARALLEL, WITH OR AT RIGHT ANGLES TO SIDES AND BACK OF ENCLOSURE.
D. AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION. REMOVE AND REPLACE MALFUNCTIONING UNITS AND RESET.

MECHANICAL SPECIFICATIONS:

- E. TEST EACH SYSTEM FOR COMPLIANCE WITH SEQUENCE OF OPERATION.
F. OCCUPANCY ADJUSTMENTS, WHEN REQUESTED WITHIN 12 MONTHS OF DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING SYSTEM TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO THREE VISITS TO PROJECT DURING OTHER THAN NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.

- 3.6 EQUIPMENT LABEL INSTALLATION
A.INSTALL OR PERMANENTLY FASTEN LABELS ON EACH MAJOR ITEM OF MECHANICAL EQUIPMENT.
B. LABEL ACCESS DOORS TO INDICATE THE PURPOSE OF ACCESS DOOR.
C.LOCATE EQUIPMENT LABELS WHERE ACCESSIBLE AND VISIBLE.
D. WHERE EQUIPMENT, SUCH AS A VAV BOX, IS CONCEALED BY ACCESSIBLE DROP OR LAY-IN CEILING OR OTHER ACCESSIBLE BARRIER, ATTACH LABEL TO CEILING GRID OR A VISIBLE LOCATION TO IDENTIFY LOCATION OF HIDDEN EQUIPMENT.

- 3.7 TESTING, ADJUSTING, AND BALANCING
A. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THIS SECTION AND THE PROCEDURES CONTAINED IN ONE OF THE FOLLOWING:
1. AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE"
2. NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS."
B.COMPLY WITH REQUIREMENTS IN ASHRAE 62.1 SECTION 7.2.2 - "AIR BALANCING."
C. AIRFLOW VALUES ARE TO BE ADJUSTED TO PLUS OR MINUS 5% OF DESIGN FLOW.
D.SET DAMPERS TO FAIL SAFE POSITION BEFORE TESTING, ADJUSTING, AND BALANCING.
E. MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS.
F.ADJUST FANS TO DELIVER DESIGN AIRFLOW WITHIN THE DESIGN FAN SPEED LISTED BY FAN MANUFACTURER.
G. AFTER TESTING AND BALANCING IS COMPLETE, OPERATE EACH SYSTEM AND RANDOMLY CHECK MEASUREMENTS TO VERIFY THAT THE SYSTEMS ARE OPERATING IN ACCORDING TO THE FINAL TEST AND BALANCE READINGS.

- 3.8 OPERATION PRIOR TO ACCEPTANCE
A. CONTRACTOR MAY OPERATE ANY EQUIPMENT PROVIDED THAT THE OPERATION IS SUPERVISED AND THE CONTRACTOR RETAINS FULL RESPONSIBILITY FOR PROPERLY MAINTAINING EQUIPMENT AND THE FULL MANUFACTURER'S WARRANTY REMAINS UNAFFECTED FROM THE TIME OF OWNER'S POSSESSION.

GENERAL NOTES:

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
B. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
C. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
D. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
E. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILER OR PRESSURE REDUCING VALVES.
F. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILERS AND PRESSURE REDUCING VALVES.
G. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
H. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
I. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

GENERAL NOTES (CONT):

- J. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
K. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
L. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
M. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
N. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
O. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
P. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
Q. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.
R. ALL MECHANICAL ROOM DOORS SHALL BE A MINIMUM OF 4'-0" WIDE.
S. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS.
T. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
U. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
V. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
W. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
X. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
Y. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
Z. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
AA. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
AB. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

GENERAL NOTES (CONT):

- AC. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
AD. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO NEAREST DRAIN. SEE DETAILS SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR DEPTH OF AIR CONDITIONING CONDENSATE TRAP.
AE. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

HVAC/SHEET METAL NOTES:

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
B. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
C. IN CORRIDORS WHERE CEILING SPEAKERS AND AIR DIFFUSERS ARE INDICATED BETWEEN THE SAME LIGHT FIXTURES, INSTALL BOTH DEVICES AT THE QUARTER POINTS BETWEEN THE SAME FIXTURE.
D. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
E. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
F. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
G. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUST SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1 1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
H. ALL MECHANICAL VENTILATION FANS NOT OF TESTED AND LISTED HVAC EQUIPMENT MEET EFFICACY AN AIR FLOW LIMITS.
I. ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
J. FIELD ERECTED AND FACTORY ASSEMBLED AIR HANDLING UNIT COILS SHALL BE ARRANGED FOR REMOVAL FROM THE UPSTREAM SIDE WITHOUT DISMANTLING SUPPORTS. PROVIDE GALVANIZED STRUCTURAL STEEL SUPPORTS FOR ALL COILS (EXCEPT LOWEST COIL) IN BANKS OVER TWO COILS HIGH TO PERMIT INDEPENDENT REMOVAL OF ANY COIL.
K. ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.
L. LOCATE ALL MECHANICAL EQUIPMENT (SINGLE DUCT, DUAL DUCT, VARIABLE VOLUME, CONSTANT VOLUME AND FAN POWERED BOXES, FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS, UNIT VENTILATORS, COILS, STEAM HUMIDIFIERS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.
M. FINNED TUBE RADIATION ENCLOSURES SHALL BE WALL TO WALL UNLESS OTHERWISE INDICATED.
N. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
O. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD. TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
P. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET (EDIT MAXIMUM LENGTH OF FLEXIBLE DUCT TO SUIT PROJECT; 5 FEET MAXIMUM RECOMMENDED LENGTH, 8 FEET MAXIMUM LENGTH).
Q. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
R. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.
S. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENT.

HVAC/SHEET METAL NOTES:

- T. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS. GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
U. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
V. TERMINATE GAS VENTS FOR UNIT HEATERS, WATER HEATERS, HIGH PRESSURE PARTS WASHER, HIGH PRESSURE CLEANER, AND OTHER GAS APPLIANCES A MINIMUM OF 3" ABOVE ROOF WITH RAIN CAP (EDIT APPLIANCES AND HEIGHT ABOVE ROOF TO MEET CODE AND TO SUIT PROJECT REQUIREMENTS).
W. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.
X. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN THE ARCHITECTURAL SPECIFICATIONS.
Y. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES, LOCATIONS, AND DETAILS SHALL BE COORDINATED WITH GENERAL CONTRACTOR.
Z. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES, LOCATIONS, MOUNTING, AND DETAILS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED.

NOTES TO DRAWINGS

ENERGY NOTES

- MECHANICAL SCHEDULE
DUCT
R-8.0 DUCT IN ATTIC
R-6.0 DUCT IN WALL
MASTIC SEALING-TYPICAL ALL INSTALLED DUCTWORK
NOTES
1. BUILDING CAVITIES ARE NOT USED AS DUCTS OR PLENUMS.
2. AIR HANDLER LEAKAGE DESIGNATED BY MANUFACTURER AT <2% OF DESIGN FLOW.
3. PROGRAMMABLE THERMOSTATS INSTALLED FOR CONTROL OF PRIMARY HEATING AND COOLING SYSTEMS AND INITIALLY SET BY MANUFACTURER TO CODE SPECIFICATIONS.
4. ALL MECHANICAL VENTILATION FANS NOT OF TESTED AND LISTED HVAC EQUIPMENT MEET EFFICACY AN AIR FLOW LIMITS.
5. MANUFACTURER MANUALS FOR MECHANICAL AND WATER HEATING SYSTEMS WILL BE PROVIDED.
6. HEATING AND COOLING EQUIPMENT IS SIZED PER ACCA MANUAL S BASED ON LOAD CALCULATED PER ACCA MANUAL J OR OTHER METHODS APPROVED

NOTES TO DRAWINGS

ENERGY NOTES

- PLUMBING SCHEDULE
STANDARD VENT TYPE. VENT THRU ROOF
LOCATION:
ENERGY FACTOR:
ROUGH-IN PLUMBING MATERIAL FOR WASTE & VENT PVC SCHEDULE 40
ROUGH-IN PLUMBING MATERIAL FOR HOT & COLD WATER PEX WITH BRANCH T'S'S
1-1/4" BLACK PIPE FOR GAS SYSTEM: FURNACE WATER HEATER
NOTES
HOT WATER PIPES INSULATED TO >R-3.0

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PROJECT NUMBER CEF22-MIS.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047 I-35 FRONTAGE ROAD EDDY, TEXAS 76524 BRUCEVILLE - EDDY CITY LIMITS McLENNAN COUNTY A PROJECT OF: FIKES WHOLESALE, INC.

PROFESSIONAL SEAL FIRM F-13071 MANUEL F. BIRRIEL 99150 03-28-24

Table with 2 columns: DATE, DESCRIPTION. Rows include 09-09-20 MARCEL CAD, 10-08-20 PROGRESS PRINT, 11-10-20 PROGRESS PRINT, 02-16-23 60% REVIEW SET, 03-14-24 90% REVIEW SET, 03-28-24 100% SET, FINAL PRINT.

SCOPE OF THE DOCUMENT This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, ES&S/ELLELL, INC. N 2101 E 11th St. P.O. Box 10000, Dallas, TX 75210-1000

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DRAWN BY: CHECKED BY: DATE

SHEET TITLE MECHANICAL SPECIFICATIONS AND NOTES

DRAWING NUMBER MIS SHEET NO.

PLUMBING LINE LEGEND

LINE NOTE:
ALL LINE TYPES SHOWN MAY NOT APPEAR IN ALL DRAWINGS. REFER TO PLANS FOR PLUMBING SCOPE.

- SANITARY SEWER PIPING
- GREASE WATER PIPING
- SANITARY VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RECIRCULATION PIPING
- SOFT WATER PIPING
- FILTERED WATER PIPING
- REVERSE OSMOSIS WATER PIPING
- REVERSE OSMOSIS WATER PIPING SCALE CONTROL
- REVERSE OSMOSIS WATER PIPING NO SCALE CONTROL
- STORM DRAIN PIPING
- OVERFLOW DRAIN PIPING
- CONDENSATE DRAIN PIPING

PLUMBING SYMBOL LEGEND

- AP ACCESS PANEL
- BT BATH TUB
- BWV BACK WATER VALVE
- CFH CUBIC FEET PER HOUR
- CFM CUBIC FEET PER MINUTE
- CI CAST IRON
- CLDI CEMENT LINED DUCTILE IRON
- CO CLEANOUT
- CONC CONCRETE
- CP CHROME PLATED
- CTE CONNECT TO EXISTING
- CW COLD WATER
- CWR COLD WATER RETURN
- CWS COLD WATER SUPPLY
- DF DRINKING FOUNTAIN
- DIA DIAMETER
- ELEV ELEVATION
- EWV ELECTRICAL WATER COOLER (DRINKING FOUNTAIN)
- FCO FLOOR CLEANOUT
- FEC FIRE EXTINGUISHER CABINET
- FHV FIRE HOSE VALVE
- FLR FLOOR
- FP FIRE PROTECTION
- FPWH FREEZE PROOF WALL HYDRANT
- FS FLOW SWITCH
- FT FOOT OR FEET
- FV FLUSH VALVE
- GALV GALVANIZED
- GCO GROUND CLEAN OUT
- GI GREASE INTERCEPTOR
- GPF GALLONS PER FLUSH
- GPM GALLONS PER MINUTE
- HC HANDICAPPED
- HW HOT WATER
- HWR HOT WATER RETURN
- HWS HOT WATER SUPPLY
- ID INSIDE DIAMETER
- INV INVERT
- IW INDIRECT WASTE
- MECH MECHANICAL
- MSB MOP SERVICE BASIN
- NC NORMALLY CLOSED
- NO NORMALLY OPEN
- OD OUTSIDE DIAMETER
- OED OPEN END DRAIN
- PV POST INDICATOR VALVE
- PLBG PLUMBING
- PSI POUNDS PER SQUARE INCH
- RPBP REDUCED PRESSURE BACKFLOW PREVENTER
- SA SHOCK ABSORBER
- SD SANITARY DRAIN
- SHWR SHOWER
- SK SINK
- SS SOIL STACK / STAINLESS STEEL
- TLT TOILET
- TS TAMPER SWITCH
- TW TEMPERED WATER
- TYP TYPICAL
- U URINAL
- V VENT
- V VACUUM BREAKER
- VFD VARIABLE FREQUENCY DRIVE
- VS VENT STACK
- VTR VENT THROUGH ROOF
- W WASTE
- WC WATER CLOSET (TOILET)
- WH WALL HYDRANT
- WS WASTE STACK

PLUMBING SPECIFICATIONS:

PART 1 - GENERAL

- 1.1 SUBMITTALS
 - A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

PART 2 - PRODUCTS

- 2.1 PIPING MATERIALS
 - A. COMPLY WITH REQUIREMENTS IN "PLUMBING PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS, INSULATION, AND HANGING REQUIREMENTS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.
- 2.2 VALVES
 - A. NSF COMPLIANCE: NSF 61 FOR VALVE MATERIALS FOR POTABLE -WATER SERVICE.
 - B. WATER SHUTOFF SERVICE: TWO-PIECE, FULL PORT, BRASS BALL VALVES WITH BRASS TRIM.
 - C. CHECK VALVES: BRASS SILENT CHECK VALVES WITH NONMETALLIC DISC SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATION.
 - D. FUEL GAS SHUTOFF SERVICE: TWO-PIECE, FULL PORT, BRASS BALL VALVES WITH BRASS TRIM, UL LISTED FOR GAS SERVICE.
 - E. LIQUID GAS PRESSURE REGULATORS: COMMERCIAL STYLE REGULATORS WITH INTERNAL PRESSURE RELIEF VALVES.

- 2.3 HANGERS AND SUPPORTS
 - A. PROVIDE HANGERS INDICATED ON DRAWINGS.
 - B. WALL SUPPORTS
 - 1. PIPING 3" AND SMALLER: STEEL RISER CLAMP.
 - C. VERTICAL SUPPORT: STEEL RISER CLAMP.

PART 3 - EXECUTION

- 3.1 PIPING INSTALLATION
 - A. INSTALL ESCUTCHEONS AT EACH WALL, FLOOR, AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. USE DEEP PATTERN ESCUTCHEONS WHERE REQUIRED TO CONCEAL PROTRUDING PIPE FITTINGS.
 - B. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.
 - C. INSTALL SLEEVE SEALS FOR PIPING PENETRATIONS OF CONCRETE WALLS AND SLABS.
 - D. MAKE SOLDERED JOINTS USING LEAD FREE SOLDER AND A NON-CORROSIVE, PASTE-TYPE FLUX. CORE SOLDER IS NOT PERMITTED. SOLDER SHALL BE SOLID STRING OR WIRE TYPE. WHERE SOLDERED COPPER PIPING IS CONNECTED TO THREADED BRASS PIPING, USE CAST BRASS ADAPTOR.
 - E. PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF EACH DAY OR WHEN WORK STOPS.
 - F. MINIMUM SLOPE OF HORIZONTAL DRAIN PIPING SHALL BE 1/4" PER FOOT FOR PIPING 2-1/2" OR LESS, 1/8" PER FOOT FOR PIPING 3" TO 6", AND 1/16" PER FOOT FOR PIPING 8" OR LARGER.
 - G. MAKE CHANGES IN DIRECTION IN DRAIN PIPING WITH INDIVIDUAL EIGHT BENDS AND WYES.
 - H. QUARTER BENDS, SWEEPS, TEES, AND COMBINATION WYE & EIGHT BEND FITTINGS ARE NOT PERMITTED FOR USE ON DRAIN PIPING.
 - I. EXTEND RIGID GAS PIPING TO EXTERIOR GAS APPLIANCES AND INSTALL SHUTOFF VALVE, DIRT LEG, AND UNION AT EACH APPLIANCE.
- 3.2 JOINT CONSTRUCTION
 - A. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE.
 - B. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPES, TUBES, AND FITTINGS BEFORE ASSEMBLY.
 - C. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOINT PIPE FITTINGS AND VALVES AS FOLLOWS:
 - 1. APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS.
 - 2. DAMAGED THREADS: DO NOT USE PIPE OR FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED.
 - D. DISSIMILAR-MATERIAL PIPING JOINTS: MAKE JOINTS USING ADAPTERS COMPATIBLE WITH MATERIALS OF BOTH PIPING SYSTEMS.
- 3.3 HANGERS AND SUPPORT INSTALLATION
 - A. SUPPORT PIPES THROUGHOUT BUILDING, BOTH HORIZONTALLY AND VERTICAL IN ACCORDANCE WITH REQUIREMENTS HEREIN AND AS SHOWN ON THE DRAWINGS. DO NOT USE FASTENERS WHICH PENETRATE THE ROOF DECK.
 - B. PROVIDE COPPER PLATED HANGERS AND SUPPORTS FOR UNINSULATED COPPER PIPING. PROVIDE PLASTIC INSERTS FOR UNINSULATED COPPER PIPING PENETRATING METAL STUDS.
 - C. IN AREAS WITHOUT CEILINGS, SECURE INSULATION SHIELDS TO INSULATION WITH PRESSURE SENSITIVE TAPE AT EACH END OF SHIELD. INSTALL HANGERS TO PROVIDE MINIMUM 1/2" CLEAR SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
 - E. PLACE A HANGER WITHIN ONE FOOT OF EACH HORIZONTAL ELBOW.
 - F. SUPPORT VERTICAL PIPE RUNS AT ROOF, AT FLOOR, AND AT MAXIMUM 15-FOOT INTERVALS.
 - G. SPACE SUPPORTS NOT MORE THAN FIVE FEET APART AT VALVES, STRAINERS OR PIPING

PLUMBING SPECIFICATIONS:

- ACCESSORIES LARGER THAN 2"
- H. INSTALL LATERAL BRACING WITH PIPE HANGERS AND SUPPORTS TO PREVENT SWAYING.
- I. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL, AND SEISMIC MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.
- J. ADJUSTING
 - 1. HANGER ADJUSTMENTS: ADJUST HANGERS TO DISTRIBUTE LOADS EQUALLY ON ATTACHMENTS AND TO ACHIEVE INDICATED SLOPE OF PIPE.
 - 2. LOAD DISTRIBUTION: ADJUST HANGERS AND SUPPORTS SO THAT PIPING LIVE AND DEAD LOADS AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.
 - 3. PIPE SLOPES: ADJUST HANGERS AND SUPPORTS TO PROVIDE INDICATED PIPE SLOPES AND TO NOT EXCEED MAXIMUM PIPE DEFLECTIONS ALLOWED BY ASME B31.9 FOR BUILDING SERVICES PIPING.
 - 4. TRIM EXCESS LENGTH OF CONTINUOUS - THREAD HANGER AND SUPPORT RODS TO 1-1/2".
- 3.4 PIPE INSULATION INSTALLATION
 - A. INSULATE FITTINGS AND VALVES WITH PREFORMED INSULATION FITTINGS WITH PVC JACKET.
- 3.5 VALVE AND SPECIALTIES INSTALLATION
 - A. PROVIDE DEEP SEAL P-TRAPS FOR FLOOR DRAINS AND MOP BASINS.
 - B. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS OF TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.
 - C. PROTECT DRAINS DURING CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT OR DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC OR CONSTRUCTION WORK.

GENERAL NOTES:

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- B. CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- C. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- D. PROVIDE VIBRATION ISOLATION FOR ALL PLUMBING EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- E. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILER OR PRESSURE REDUCING VALVES.
- F. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILERS AND PRESSURE REDUCING VALVES.
- G. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
- H. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- I. ALL TESTS SHALL BE COMPLETED BEFORE ANY PLUMBING EQUIPMENT OR PIPING INSULATION IS APPLIED.
- J. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- K. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- L. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
- M. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED

GENERAL NOTES (CONT):

- FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT, FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
- N. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
- O. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH PIPING, COORDINATE PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO CUTTING OF PIPING, OR FABRICATION OF BEAMS.
- P. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- Q. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE CONCEALED PLUMBING EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- R. ALL EQUIPMENT, PIPING, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- S. ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
- T. PLUMBING EQUIPMENT AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- U. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- V. ALL OPENINGS IN FIRE WALLS DUE TO PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
- W. REFER TO TYPICAL DETAILS FOR PIPING AND EQUIPMENT INSTALLATION.

PIPING NOTES:

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- B. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.
- C. MAINTAIN A MINIMUM OF 3/6" OF GROUND COVER OVER ALL UNDERGROUND HVAC PIPING.
- D. UNLESS OTHERWISE NOTED, ALL CHILLED WATER AND HEATING WATER PIPING SHALL BE 3/4 INCH SIZE.
- E. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER, CHILLED WATER, AND OTHER CLOSED WATER PIPING SYSTEMS. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- F. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- G. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- H. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- I. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- J. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.
- K. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- L. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- M. PITCH STEAM PIPING DOWNWARD IN THE DIRECTION OF FLOW 1/4 INCH IN 10 FEET (1 INCH IN 40

PIPING NOTES (CONT):

- FEET) MINIMUM. PITCH ALL STEAM RETURN LINES DOWNWARD IN THE DIRECTION OF CONDENSATE FLOW 1/2 INCH PER 10 FEET (1 INCH IN 20 FEET) MINIMUM. WHERE LENGTH OF BRANCH LINES ARE LESS THAN 8 FEET, PITCH BRANCH LINES TOWARD MAINS 1/2 INCH PER FOOT MINIMUM.
- N. PITCH UP ALL STEAM AND CONDENSATE RUNOUTS TO RISERS AND EQUIPMENT 1/2 INCH PER FOOT. WHERE THIS PITCH CANNOT BE OBTAINED, RUNOUTS OVER 8 FEET IN LENGTH SHALL BE ONE SIZE LARGER THAN NOTED.
- O. TAP ALL BRANCH LINES FROM TOP OF STEAM MAINS (45 DEGREES PREFERRED, 90 DEGREES ACCEPTABLE).
- P. PROVIDE AN END OF MAIN DRIP AT EACH RISE IN THE STEAM MAIN. PROVIDE CONDENSATE DRIPS AT THE BOTTOM OF ALL STEAM RISERS, DOWNFED RUNOUTS TO EQUIPMENT, RADIATORS, ETC., AT END OF MAINS AND LOW POINTS, AND AHEAD OF ALL PRESSURE REGULATORS, CONTROL VALVES, ISOLATION VALVES, AND EXPANSION JOINTS.
- Q. ON STRAIGHT STEAM PIPING RUNS WITH NO NATURAL DRAINAGE POINTS, INSTALL DRIP LEGS AT INTERVALS NOT EXCEEDING 200 FEET WHERE PIPE IS PITCHED DOWNWARD IN THE DIRECTION OF STEAM FLOW AND A MAXIMUM OF 100 FEET WHERE THE PIPE IS PITCHED UP SO THAT CONDENSATE FLOW IS OPPOSITE OF STEAM FLOW.
- R. STEAM TRAPS SHALL BE MINIMUM 3/4" SIZE.
- S. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- T. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.
- U. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- V. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- W. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS, CHILLERS, COOLING TOWERS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. EXCEPT WATER COILS, FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.
- X. SLOPE REFRIGERANT PIPING ONE PERCENT IN THE DIRECTION OF OIL RETURN. LIQUID LINES MAY BE INSTALLED LEVEL.
- Y. INSTALL HORIZONTAL REFRIGERANT HOT GAS DISCHARGE PIPING WITH 1/2" PER 10 FEET DOWNWARD SLOPE AWAY FROM THE COMPRESSOR.
- Z. INSTALL HORIZONTAL REFRIGERANT SUCTION LINES WITH 1/2" PER 10 FEET DOWNWARD SLOPE TO THE COMPRESSOR, WITH NO LONG TRAPS OR DEAD ENDS WHICH MAY CAUSE OIL TO SEPARATE FROM THE SUCTION GAS AND RETURN TO THE COMPRESSOR IN DAMAGING SLUGS.
- AA. PROVIDE LINE SIZE LIQUID INDICATORS IN MAIN LIQUID LINE LEAVING CONDENSER OR RECEIVER. INSTALL MOISTURE-LIQUID INDICATORS IN LIQUID LINES BETWEEN FILTER DRYERS AND THERMOSTATIC EXPANSION VALVES AND IN LIQUID LINE TO RECEIVER.
- AB. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH AUTOMATIC VALVE. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.
- AC. PROVIDE PERMANENT FILTER DRYERS IN LOW TEMPERATURE SYSTEMS AND SYSTEMS USING HERMETIC COMPRESSORS.
- AD. PROVIDE REPLACEABLE CARTRIDGE FILTER DRYERS WITH THREE VALVE BYPASS ASSEMBLY FOR SOLENOID VALVES, ADJACENT TO RECEIVERS.
- AE. PROVIDE REFRIGERANT CHARGING VALVE CONNECTIONS IN LIQUID LINE BETWEEN RECEIVER SHUTOFF VALVE AND EXPANSION VALVE.

PLUMBING NOTES:

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- B. RUN ALL SOIL WASTE AND VENT PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
- C. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.
- D. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.
- E. MAINTAIN A MINIMUM OF 3/6" OF GROUND COVER OVER ALL UNDERGROUND WATER MAINS AND A MINIMUM OF 3/0" OF GROUND COVER OVER ALL UNDERGROUND SEWERS AND DRAINS.
- F. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER

PLUMBING NOTES (CONT):

- PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
- G. UNLESS OTHERWISE NOTED, ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE 1/2 INCH SIZE.
- H. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- I. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- J. WHERE DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- K. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- L. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.
- M. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- N. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- O. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- P. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- Q. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.
- R. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
- S. UNLESS OTHERWISE NOTED, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC.
- T. PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.
- U. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
- V. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- W. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- X. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- Y. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.

PLUMBING SYMBOL LEGEND

SYMBOL NOTE:
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS SHOWN ARE SCHEMATIC AND MAY NOT BE TO SCALE.

- PIPE ELBOW DOWN
- PIPE ELBOW UP
- PIPE RISE
- PIPE DROP
- PIPE BOTTOM T
- PIPE TOP T
- PIPE STRAIGHT T
- PIPE END CAP
- BACK FLOW PREVENTER
- FIXTURE DESIGNATION
- PIPE BREAK
- UNION
- GLOBE VALVE
- CHECK VALVE
- GATE VALVE
- BALL VALVE
- STRAINER

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PROJECT NUMBER
CEF22-MIS.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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PLUMBING LEGENDS AND NOTES

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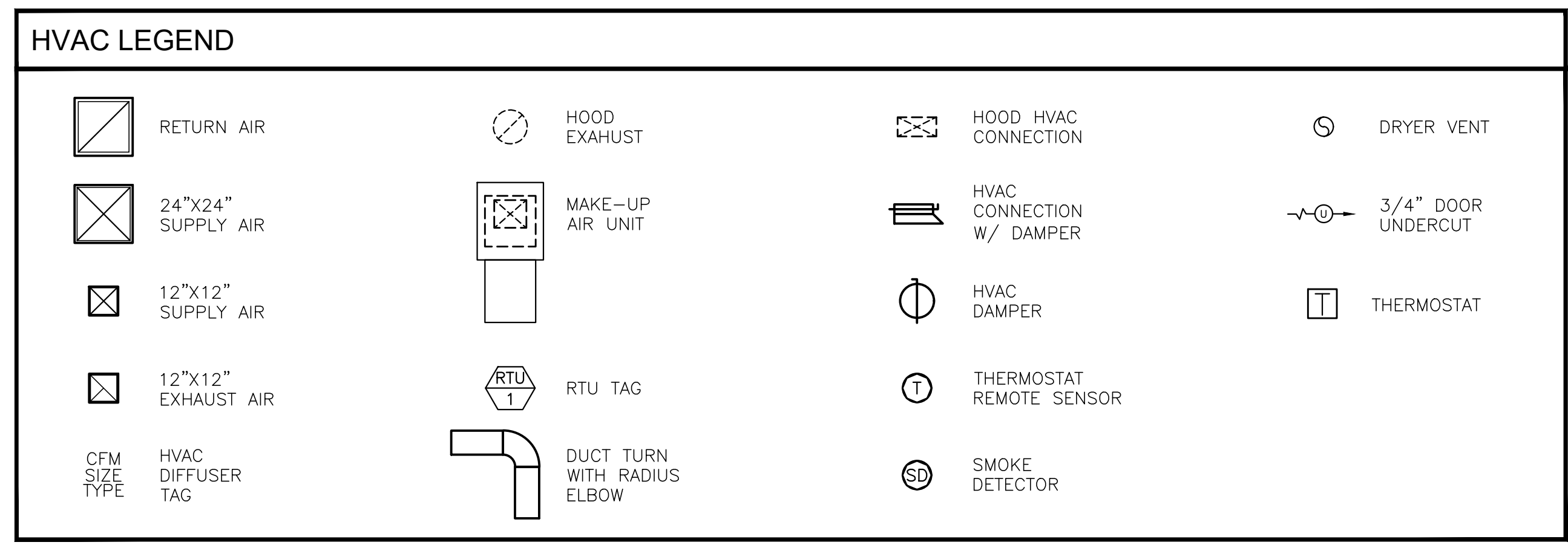
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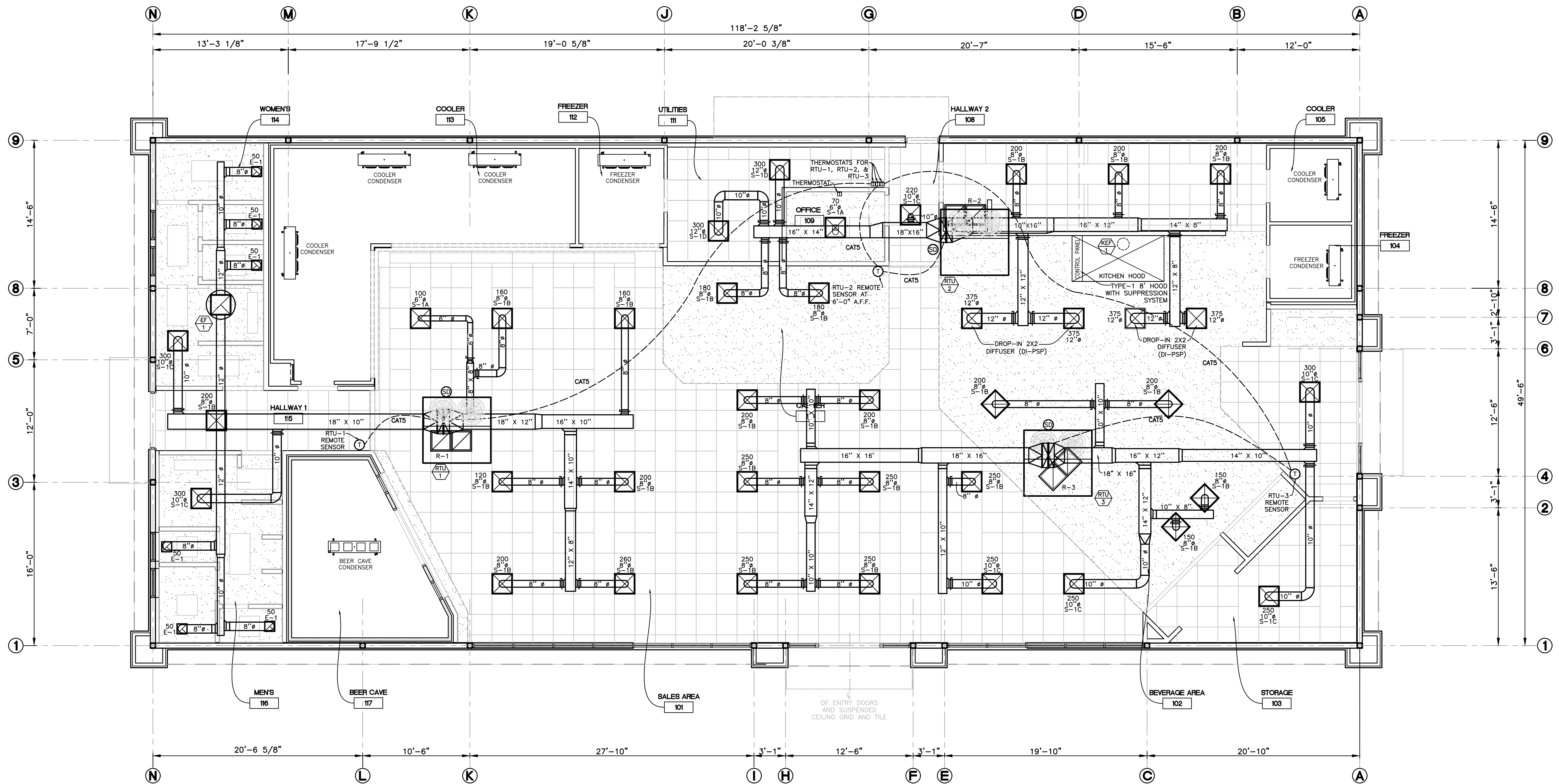
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SHEET TITLE

MECHANICAL PROPOSED PLAN



RTU VENDOR TO ENSURE AN ECONOMIZER AND HUMIDIFIER ARE INCLUDED ON ALL RTUS.



1 FLOOR PLAN - MECHANICAL PROPOSED PLAN
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

BUILDING AIR BALANCE SCHEDULE

SYSTEM	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST
KITCHEN EXHAUST	-	-	-	1800 CFM
RTU-1	2000 CFM	1275 CFM	725 CFM	-
RTU-2	3400 CFM	2400 CFM	1000 CFM	-
RTU-3	3400 CFM	2400 CFM	1000 CFM	-
RESTROOM EXHAUST	-	-	-	725 CFM
TOTAL	8800 CFM	6075 CFM	2725 CFM	200 CFM
200 CFM POSITIVE (2.3%)				

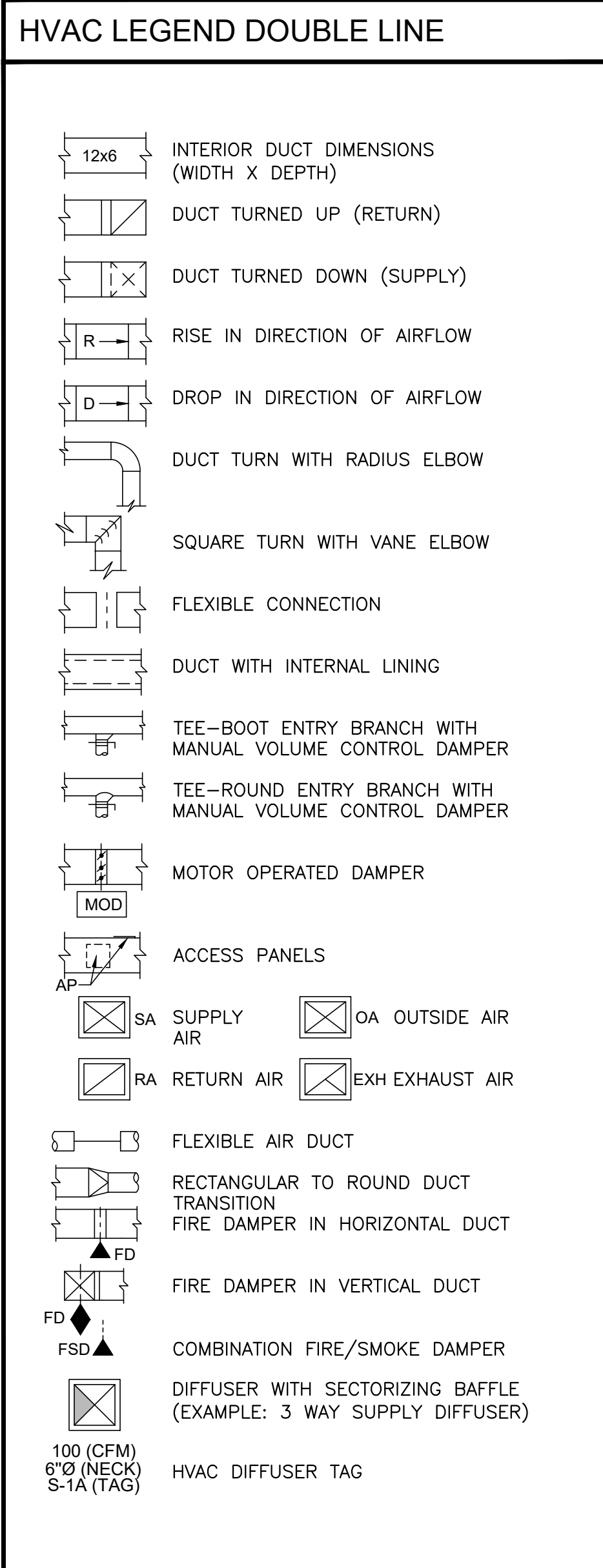
* OUTSIDE AIR VALUE IS ACCOUNTED FOR IN SUPPLY AIR VALUE OF RTU'S.

HVAC ABBREVIATIONS:

CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)
GPM	WATER FLOW RATE (GALLONS PER MIN.)
MBH	1,000 BTU/H
HP	HORSEPOWER
DB	DRY BULB TEMPERATURE (°F)
WB	WET BULB TEMPERATURE (°F)
RH	RELATIVE HUMIDITY (%)
EAT	ENTERING AIR TEMPERATURE (°F)
LAT	LEAVING AIR TEMPERATURE (°F)
EWT	ENTERING WATER TEMPERATURE (°F)
LWT	LEAVING WATER TEMPERATURE (°F)
SP	STATIC PRESSURE (IN. W.G.)
ESP	EXTERNAL STATIC PRESSURE (IN. W.G.)
TSP	TOTAL STATIC PRESSURE (IN. W.G.)
FLA	FULL LOAD AMPS
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPS
MOP	MAXIMUM OVERCURRENT PROTECTION
FPM	FEET PER MINUTE
RPM	REVOLUTIONS PER MINUTE
APD	AIR PRESSURE DROP (IN. W.G.)
WPD	WATER PRESSURE DROP (FT. H2O)
PRV	PRESSURE REDUCING VALVE (PSIG)
RV	RELIEF VALVE (PSIG)
PSIG	POUNDS PER SQUARE INCH
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EXH	EXHAUST AIR
RFA	RELIEF AIR
CC	COOLING COIL
HC	HEATING COIL
PHC	PREHEAT COIL
RHC	REHEAT COIL
ΔT	DELTA T, TEMP. DIFFERENCE, °F
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CW	CONDENSER SUPPLY
CR	CONDENSER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
LPS	LOW PRESSURE STEAM, PSIG
LPC	LOW PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM, PSIG
HPS	HIGH PRESSURE STEAM, PSIG

HVAC SYMBOLS:

	THERMOSTAT CONTROL
	SMOKE DETECTOR
	EQUIPMENT DESIGNATION
	3/4" DOOR UNDERCUT



RTU_WIND_MITIGATION_INFORMATION:

STRUCTURAL DESIGN:

- DESIGN FOR BASIC WIND SPEED = 120 MPH.
- EXPOSURE CATEGORIES: B
- RISK CLASSIFICATION CATEGORY: II
- MEAN ROOF HEIGHT < 16 FT.
- MINIMUM WIND PRESSURE REQUIREMENT FOR ROOF TOP EQUIPMENT:

LATERAL FORCE = 33.94 PSF (PuIt)

VERTICAL UPLIFT FORCE = 20.36 PSF (Posd)

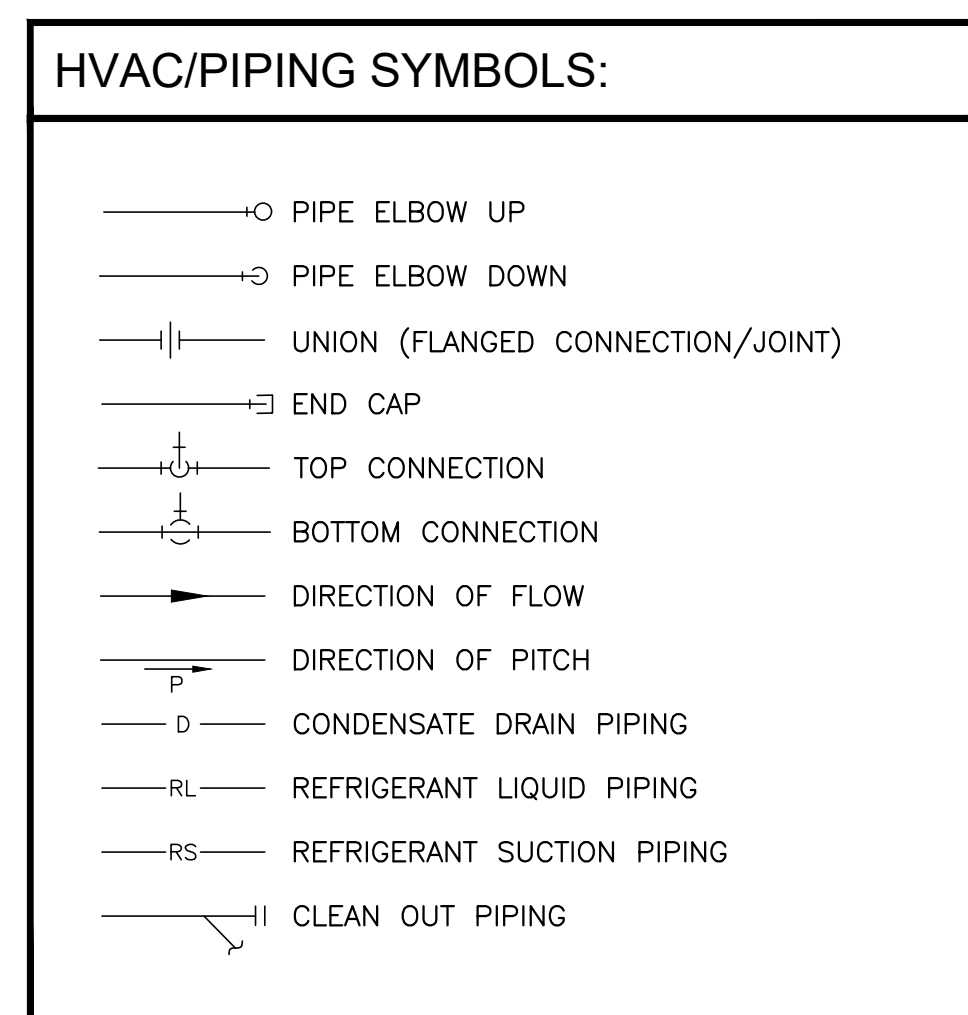
VERTICAL UPLIFT FORCE = -26.79 PSF (PuIt)

VERTICAL UPLIFT FORCE = -16.07 PSF (Posd)

EQUIPMENT ROOF CURB INFORMATION:

MECHANICAL DESIGN: 1510.10 MECHANICAL UNITS - ROOF MOUNTED MECHANICAL UNITS SHALL BE MOUNTED ON CURBS RAISED A MINIMUM OF 8 INCHES ABOVE THE ROOF SURFACE, OR WHERE ROOFING MATERIALS EXTEND BENEATH THE UNIT, ON RAISED EQUIPMENT SUPPORTS PROVIDING A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH TABLE 1510.10.

MOUNTED MECHANICAL UNITS	
WIDTH OF MECHANICAL UNIT (INCHES)	MINIMUM CLEARANCE ABOVE SURFACES (INCHES)
< 24	14
25 < 36	18
37 < 48	24
49 < 60	30
> 60	48



DUCT SIZING GUIDE

SUPPLY DUCT (0.08SP)				RETURN DUCT (0.05SP)			
ROUND DUCT	SQUARE DUCT	ROUND DUCT	SQUARE DUCT	ROUND DUCT	SQUARE DUCT	ROUND DUCT	SQUARE DUCT
CFM RANGE	SIZE (IN)	CFM RANGE	SIZE (IN)	CFM RANGE	SIZE (IN)	CFM RANGE	SIZE (IN)
1 - 100	6	1 - 125	6 X 6	1 - 75	6	1 - 100	6 X 6
101 - 210	8	126 - 260	8 X 8	76 - 160	8	101 - 200	8 X 8
211 - 395	10	261 - 470	10 X 10	161 - 290	10	201 - 365	10 X 10
396 - 625	12	471 - 760	12 X 12	291 - 470	12	366 - 595	12 X 12
626 - 910	14	761 - 1,145	14 X 14	471 - 710	14	596 - 895	14 X 14
911 - 1,300	16	1,146 - 1,635	16 X 16	711 - 1,010	16	896 - 1,275	16 X 16
1,301 - 1,800	18	1,636 - 2,235	18 X 18	1,011 - 1,375	18	1,276 - 1,745	18 X 18
1,801 - 2,325	20	2,236 - 2,955	20 X 20	1,376 - 1,815	20	1,746 - 2,310	20 X 20

NOTES:

- FOR RECOMMENDED SQUARE SIZE DUCT AN APPROXIMATE EQUIVALENT RECTANGULAR CROSS SECTIONAL AREA IS ALSO ACCEPTABLE FOR ALTERNATIVE RECTANGULAR DUCT DIMENSIONS.
- ROUND AND SQUARE DUCT DIMENSIONS HAVE BEEN SIZED BASED ON 0.08 INCHES OF FRICTION HEAD LOSS FOR SUPPLY DUCT AND 0.05 FOR RETURN DUCT.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	NECK	MAX CFM	DESCRIPTION
S-1A	6" Ø	110	ALUMINUM HIGH PERFORMANCE THREE CONE DIFFUSER, MODULE SIZE 24X24; TITUS TMS-AA.
S-1B	8" Ø	210	
S-1C	10" Ø	330	
S-1D	12" Ø	480	
S-1E	14" Ø	650	
S-1F	6" Ø	110	S-1F FACE SIZE SHALL BE 12X12.
R-1	24" X 24"		EGGCRATE RETURN AIR GRILLE - CORE OF 1/2"X1/2"X1" ALUMINUM GRID, R-1-24X24, R-2-24X24, R-3-24X24. PANEL SIZE; TITUS 50F. (PROVIDE SQUARE TO ROUND TRANSITION AS NEEDED)
R-2	24" X 24"		
R-3	24" X 24"		
E-1	10" X 10"	210	EGGCRATE RETURN AIR GRILLE - CORE OF 1/2"X1/2"X1" ALUMINUM GRID, E-1 10X10 PANEL SIZE; TITUS 50F (PROVIDE SQUARE TO ROUND TRANSITION AS NEEDED)

NOTES:

- FURNISH WITH STANDARD WHITE BAKED ENAMEL FINISH (#26 WHITE), UNO.
- FURNISH "RAPID-MOUNT" FRAMES FOR S-1 & R-1 DEVICES LOCATED IN DRYWALL CEILINGS.

* BASIS OF DESIGN PRODUCTS ARE INDICATED FOR REFERENCE ONLY. COMPARABLE PRODUCTS WILL BE ACCEPTED PROVIDED COMPLIANCE WITH TECHNICAL SPECIFICATION REQUIREMENTS.

EXHAUST FAN SCHEDULE

MARK	AREA SERVED	PRODUCT		TYPE	CFM	ESP	MOTOR DATA			NOTES
		MFG.	MODEL				DRIVE	VOLT/PH/Hz	FLA	
EF-1	RESTROOMS	GREENHECK	G-123-VG	ROOF MOUNTED	725	0.050	DIRECT	115/1/60	3.700	1,2,3,4

NOTES:

- PROVIDE GENERAL EXHAUST FANS WITH THE FOLLOWING: INTEGRAL DISCONNECT SWITCH; GRAVITY BACKDRAFT DAMPER.
- PROVIDE 12" HIGH GALVANIZED ROOF CURB WITH 1" INSULATION AND FULL PERIMETER NAILER SUITABLE FOR FLAT ROOF CONSTRUCTION.
- ACCEPTABLE MANUFACTURERS: LOREN COOK.
- EXHAUST FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE.
- REFER TO CAPTIVEAIRE'S DETAILS PAGE M05 FOR ADDITIONAL INFORMATION.

HOOD INFORMATION

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM		VEL	SP	END TO END	RDW
1	HD-1	5424 ND-2	CAPTIVEAIRE	8' 0"	600 DEG	I	HEAVY	225	1800		4'	14'	1800	1684	-0.930'	430 SS WHERE EXPOSED	ALONE	ALONE

DOAS/RTU FAN SCHEDULE

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	ELECTRICAL INFORMATION					COOLING INFORMATION					REHEAT INFORMATION					ELECTRIC HEAT INFORMATION					NOTES						
											HP	PHASE	VOLT	MCA	MDCP	OUTSIDE AIR	MIXED AIR	LEAVING AIR	CAPACITY	IEER	ISMRE	DISCHARGE	CAPACITY	MOISTURE REMOVAL RATE	DSGN. KW'S	MAX. KW'S	VOLTS	AMPS	TEMP RISE								
											DB	WB	DB	WB	DP	TOTAL	SENS.	DB	WB	DB	WB	DB	WB	DB	WB												
2	RTU-1	1	CASRTU2-E.302-18-10T	CAPTIVEAIRE	18MF-2-RTU	1240	760	2000	1936	0.800	2.00	3	208	127.7A	150A	98.0°F	74.0°F	83.7°F	66.9°F	45.0°F	44.9°F	44.9°F	125.2 MBH	84.2 MBH	18.6	4.3	70.0°F	56.0°F	55.3 MBH	96 MBH	35.5 LBS/HR	26	30	240	72.2	45 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
3	RTU-2	1	CASRTU2-E.302-18-10T	CAPTIVEAIRE	18MF-2-RTU	2400	1000	3400	1966	0.800	5.00	3	208	92.9A	100A	98.0°F	74.0°F	81.7°F	65.8°F	51.8°F	51.7°F	51.7°F	143.5 MBH	110.3 MBH	18.6	4.3	70.0°F	60.1°F	67.8 MBH	96 MBH	28.4 LBS/HR	28	30	240	72.2	28 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
4	RTU-3	1	CASRTU2-E.302-18-10T	CAPTIVEAIRE	18MF-2-RTU	2400	1000	3400	1966	0.800	5.00	3	208	92.9A	100A	98.0°F	74.0°F	81.7°F	65.8°F	51.8°F	51.7°F	51.7°F	143.5 MBH	110.3 MBH	18.6	4.3	70.0°F	60.1°F	67.8 MBH	96 MBH	28.4 LBS/HR	28	30	240	72.2	28 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16

NOTES:

- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
- DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
- INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
- REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
- EC MOTOR CONDENSING FANS
- ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
- SUCTION LINE ACCUMULATOR
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY
- AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
- 2' EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
- SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FULLY MODULATING HOT GAS REHEAT
- 15 DEGREE LOW AMBIENT OPERATION
- HAIL GUARD FOR CONDENSING COIL
- BAROMETRIC RELIEF DAMPER
- DOWN DISCHARGE/DOWN RETURN

RTU VENDOR TO ENSURE AN ECONOMIZER AND HUMIDIFIER ARE INCLUDED ON ALL RTUS.

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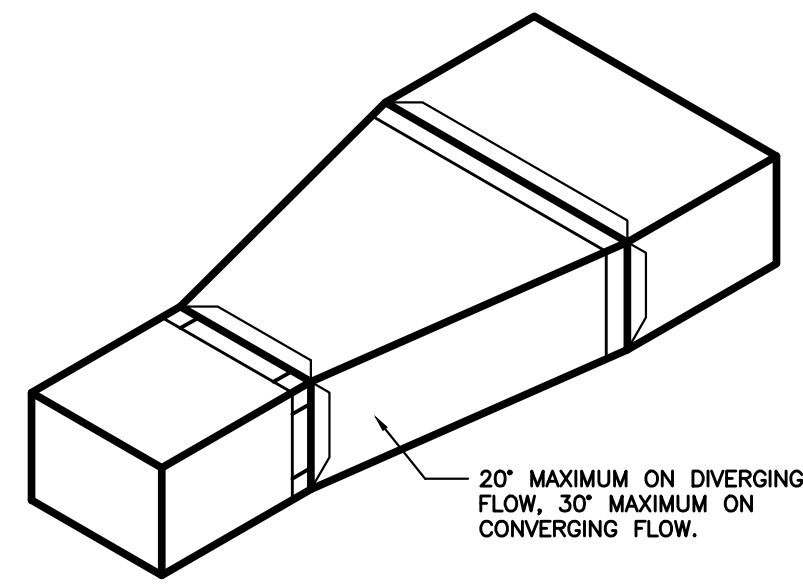
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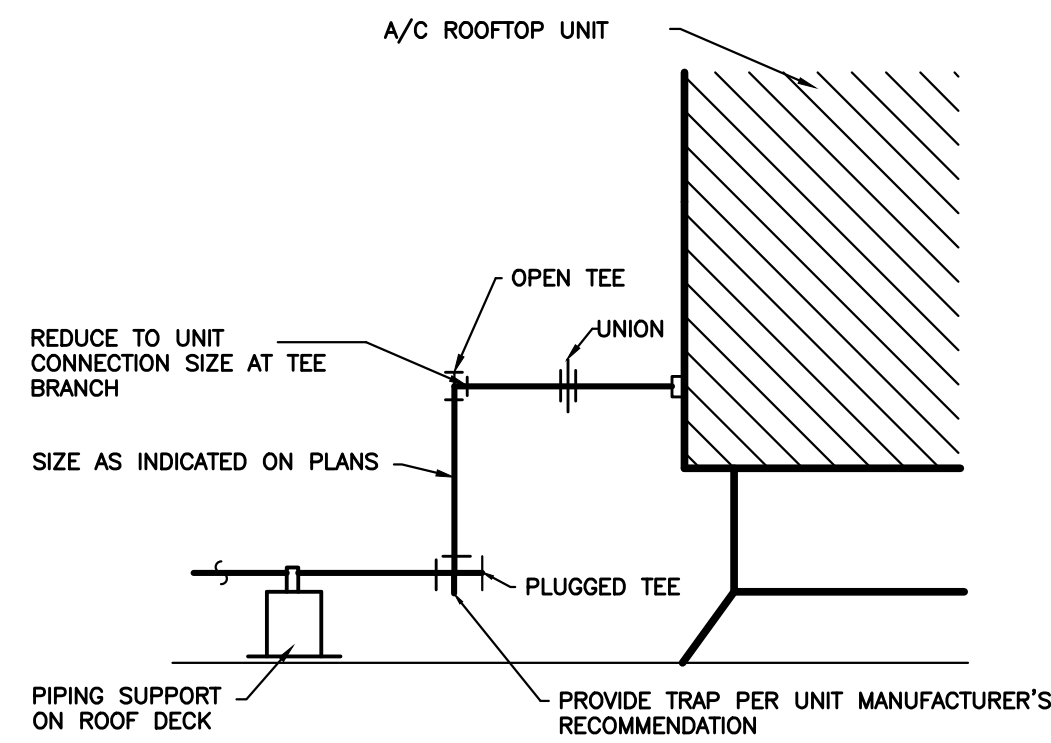
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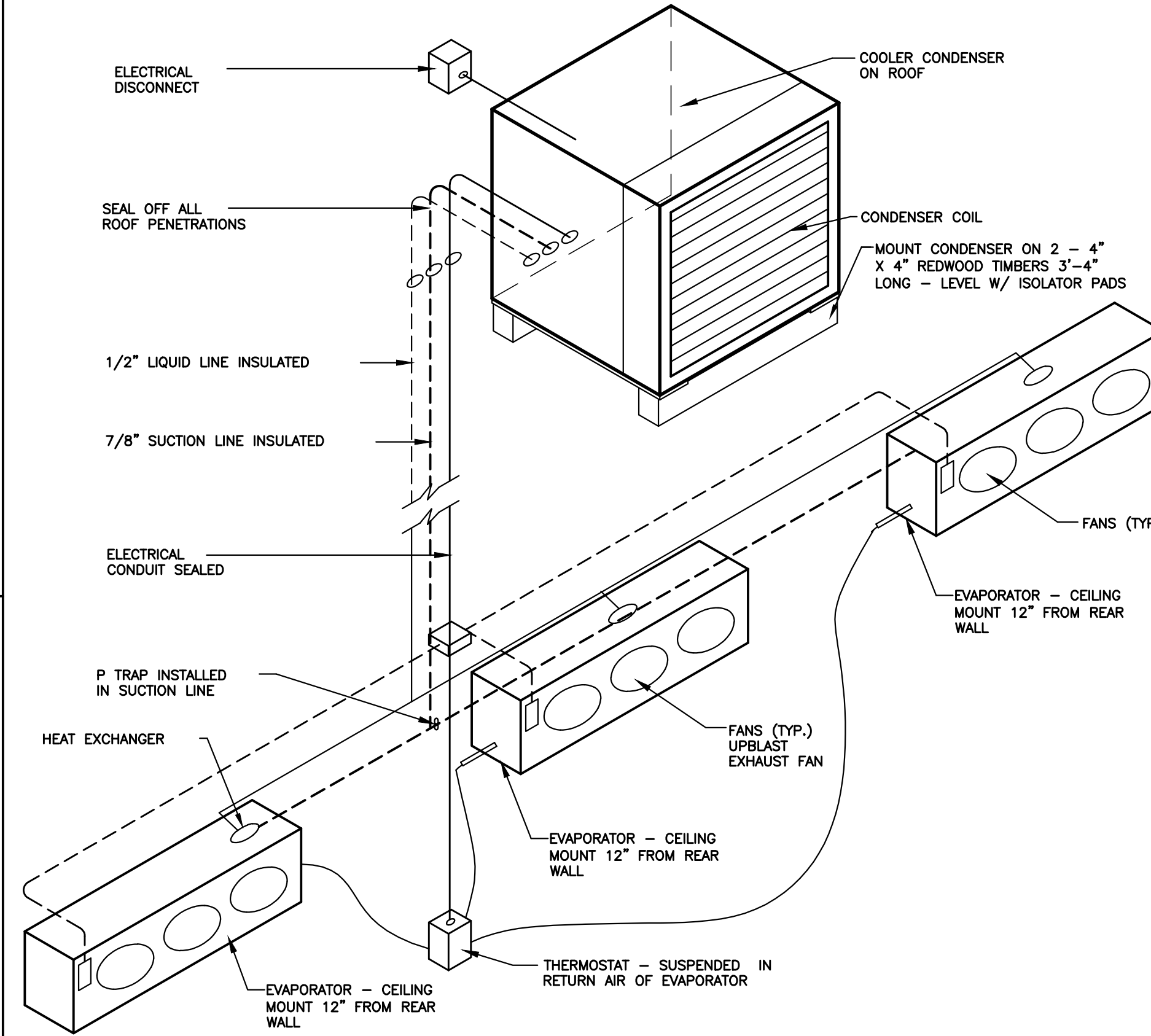
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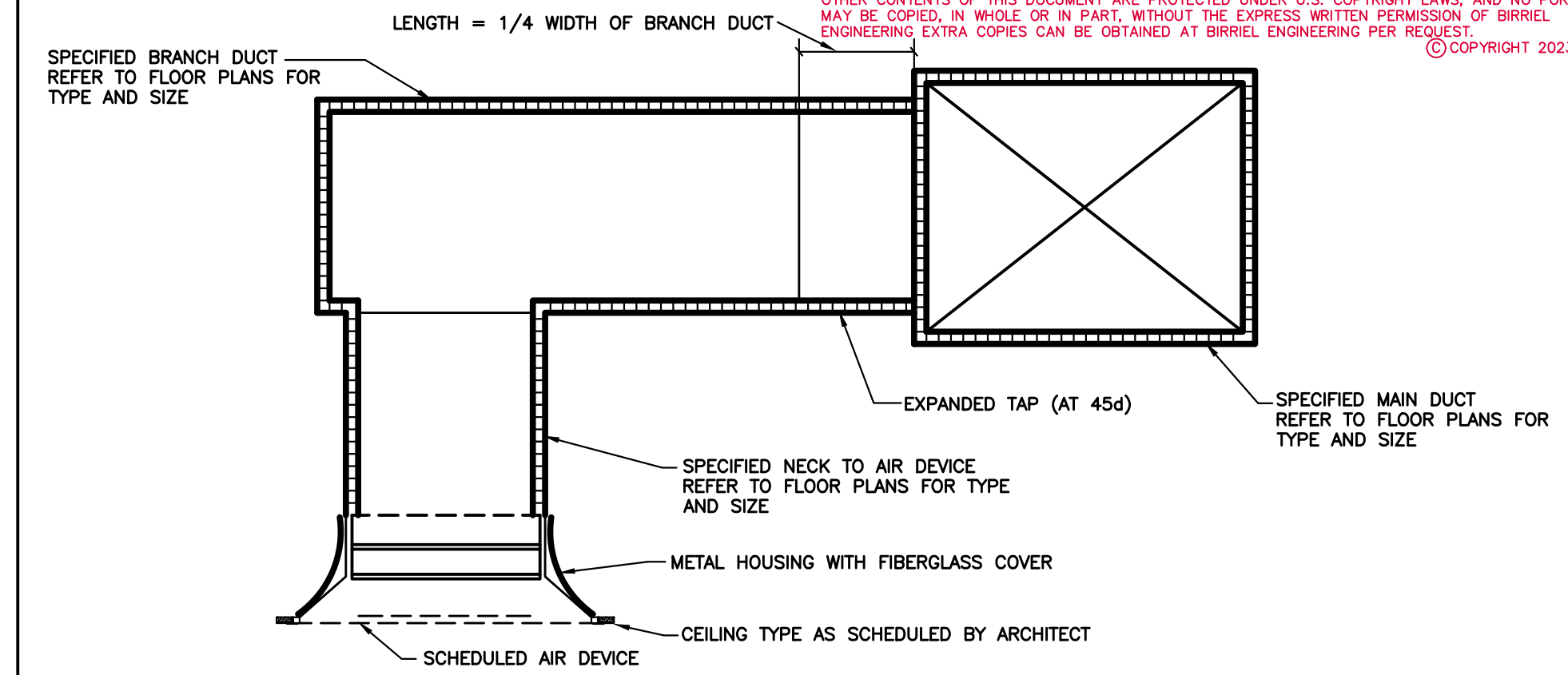
20 TRANSITION DETAIL
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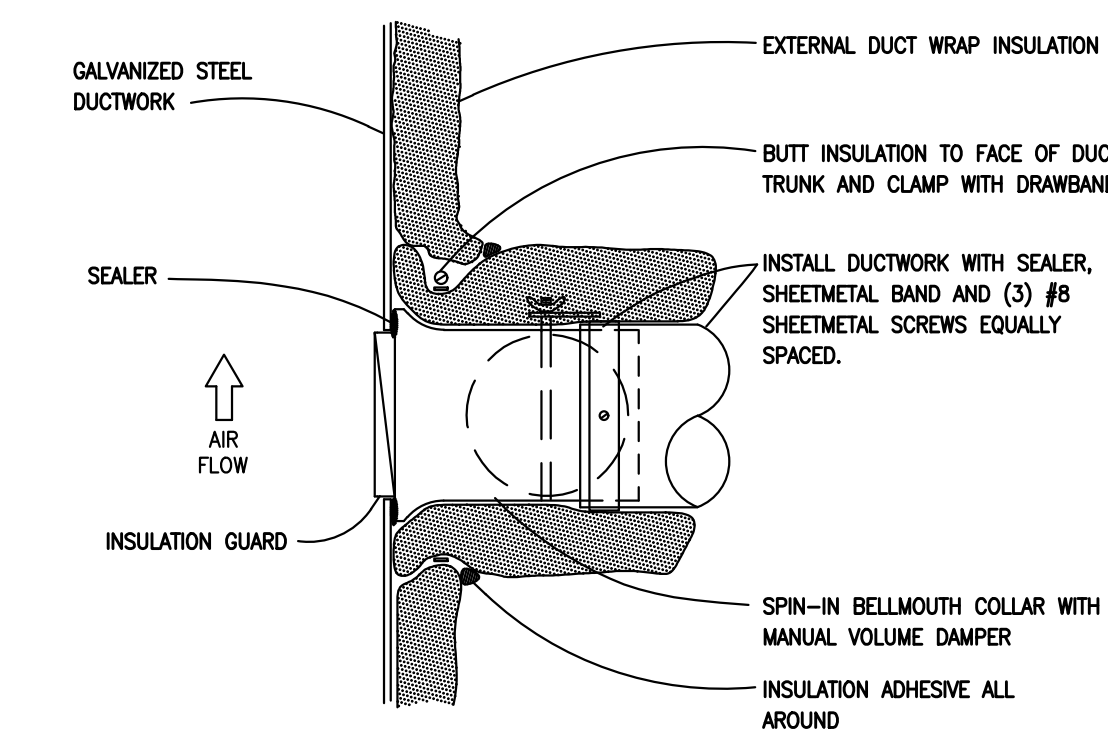
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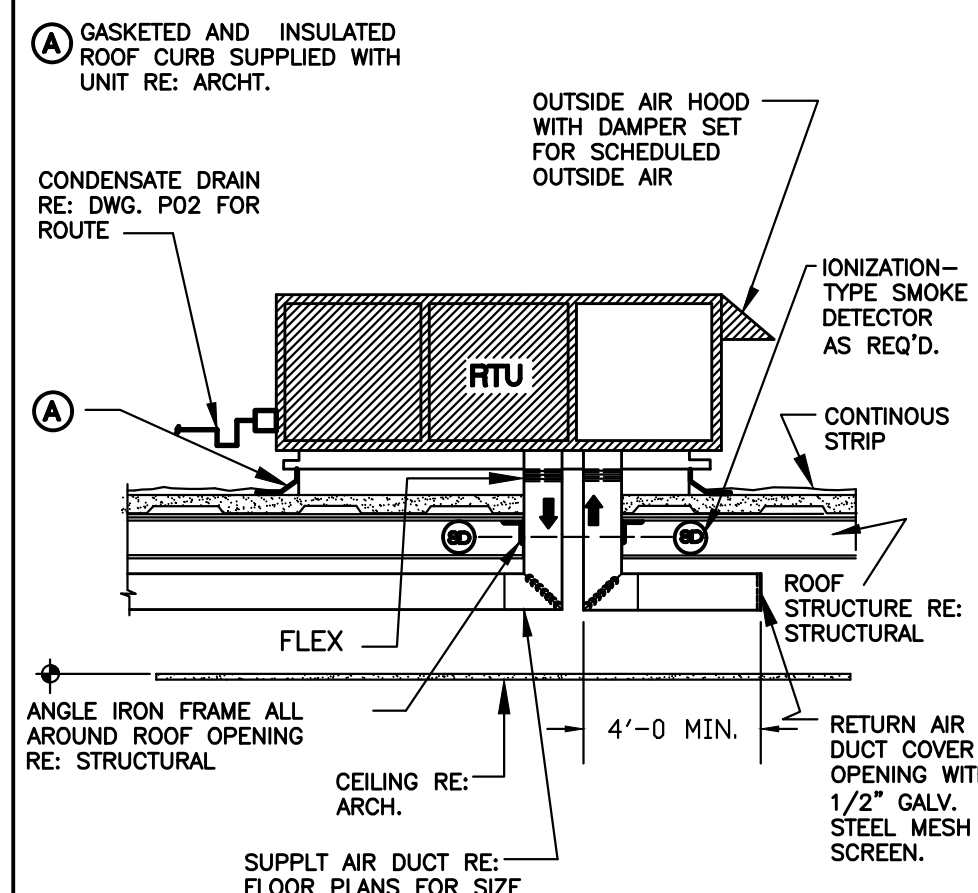
15 COOLER REFRIGERATION
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RE: FREEZER CONFIGURATION



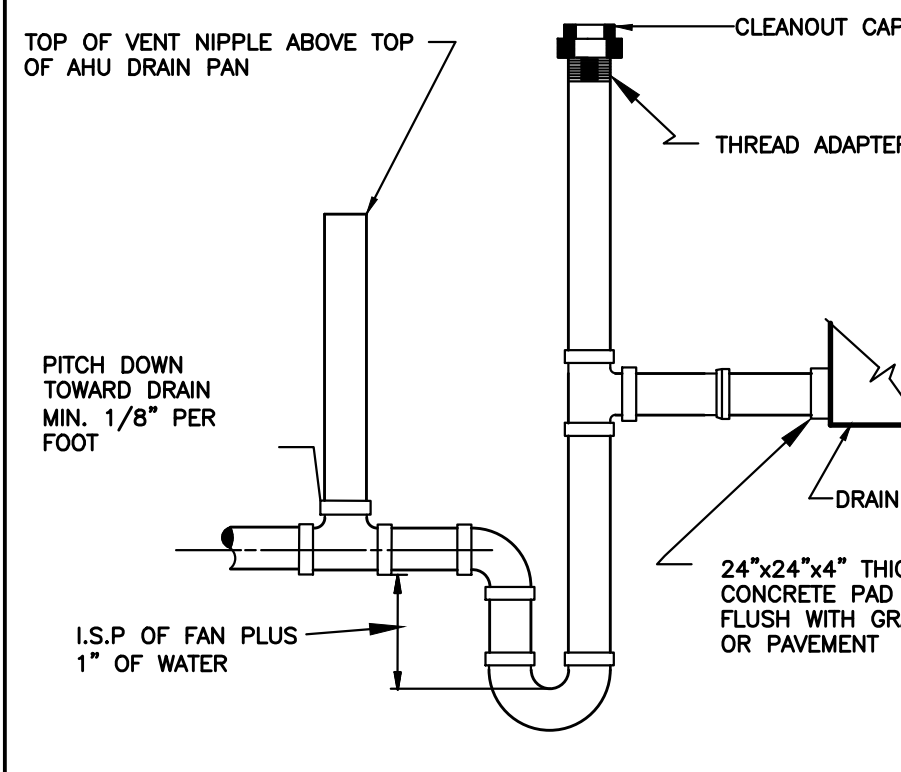
8 DUCTED EXHAUST AIR GRILLE
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RE:



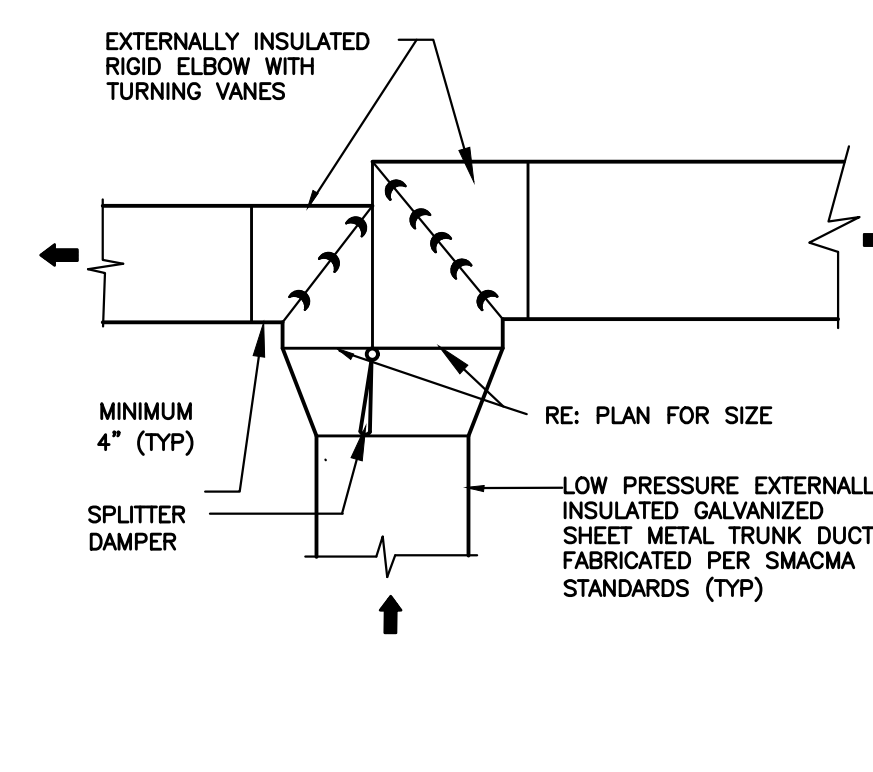
13 BELLMOUTH DUCT FITTING DETAIL
NOT TO SCALE



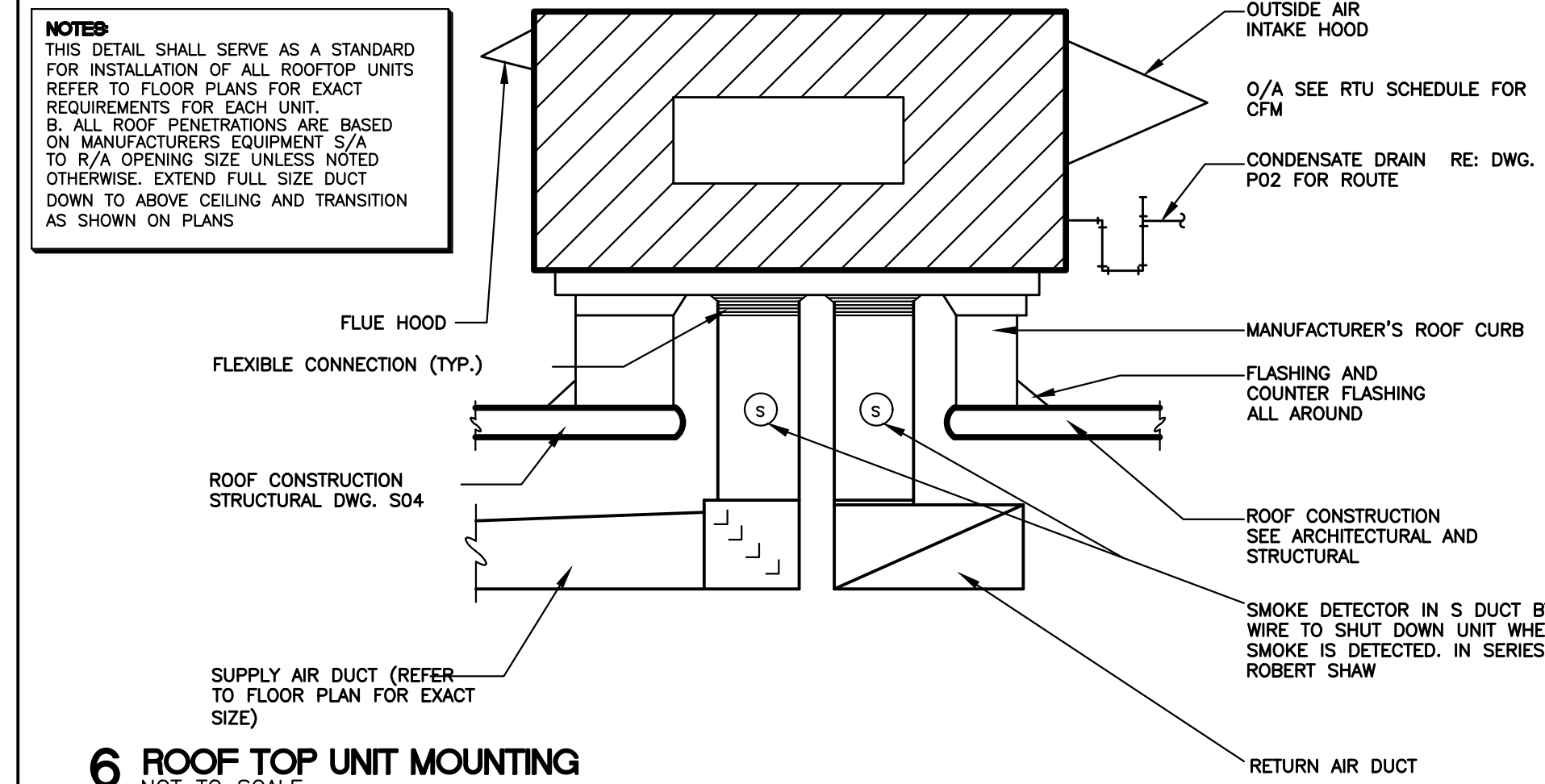
18 DETAIL - ROOF TOP UNIT
NOT TO SCALE
RE:



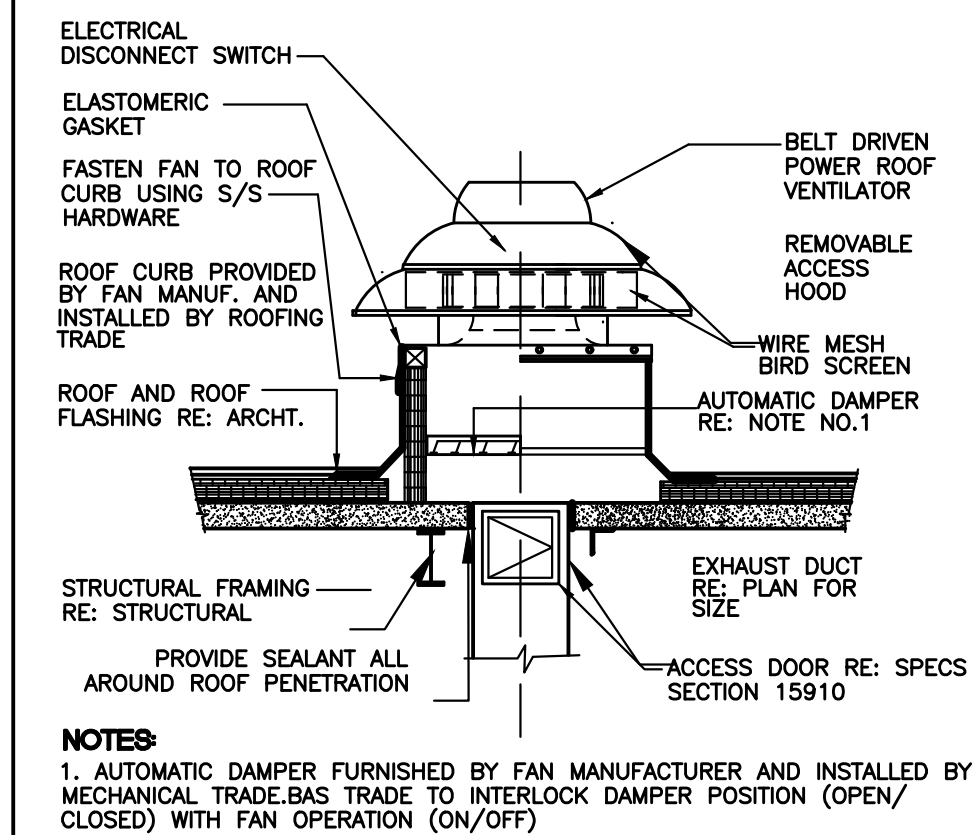
14 (TYPICAL) RTU CONDENSATE DRAIN DETAIL
NOT TO SCALE
RE:



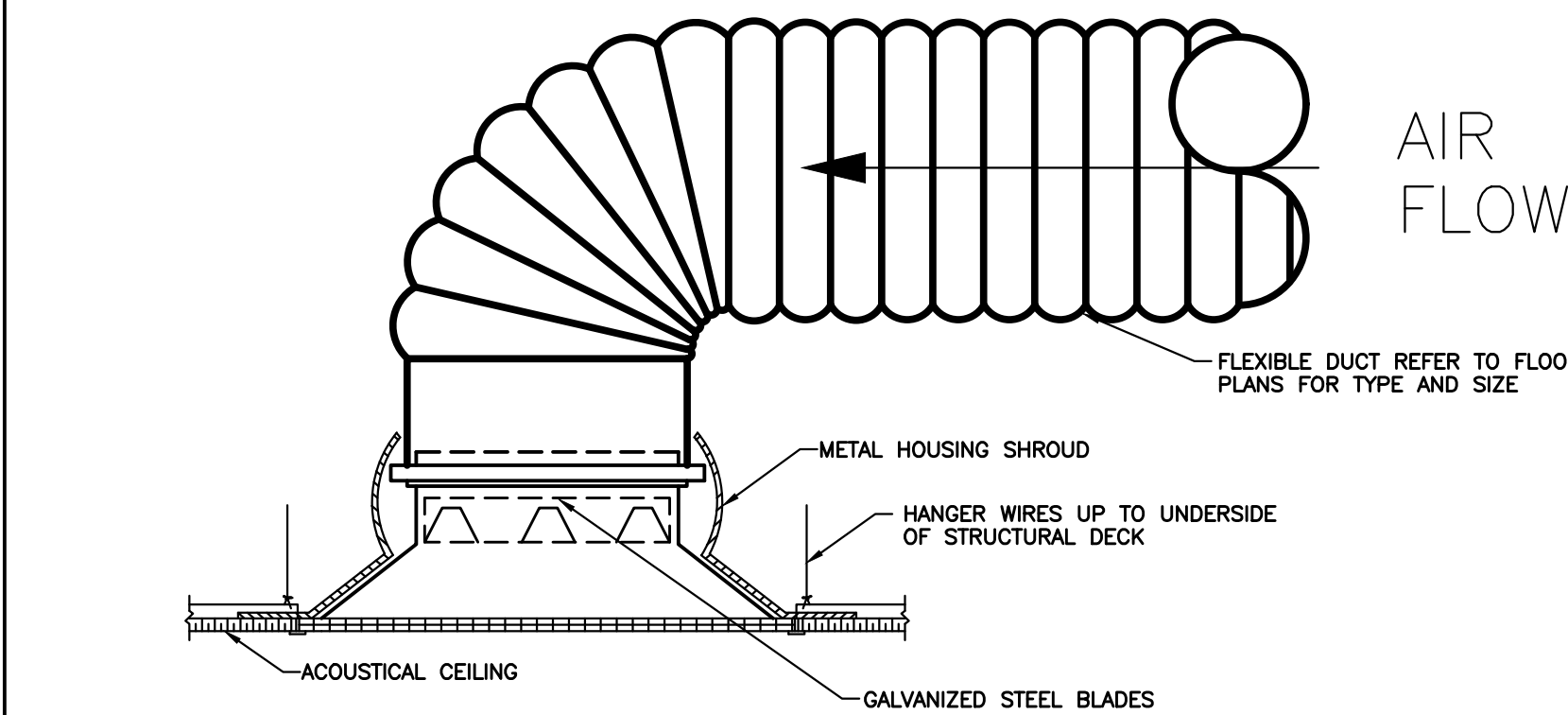
10 SPLITTER DETAIL
NOT TO SCALE
RE:



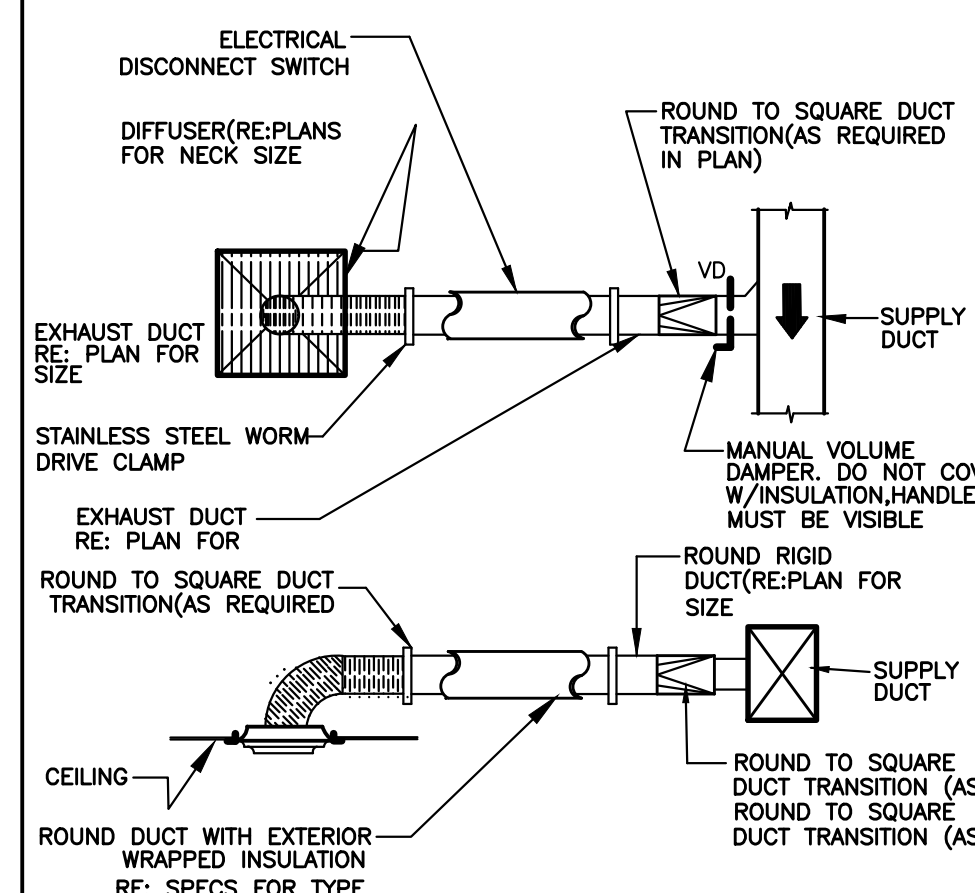
6 ROOF TOP UNIT MOUNTING
NOT TO SCALE
RE:



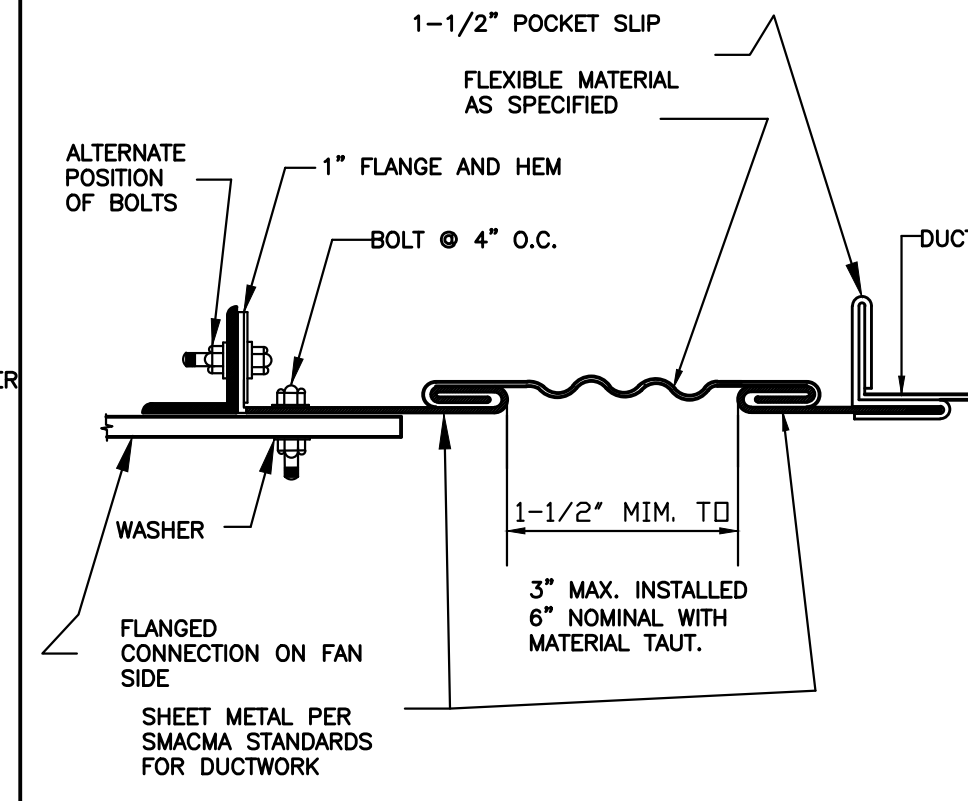
17 DETAIL - POWER ROOF VENTILATOR
NOT TO SCALE



13 SUPPLY DIFFUSER
NOT TO SCALE
RE:



5 ROUND RIGID DUCT DETAIL
NOT TO SCALE
RE:



1 FLEXIBLE CONNECTION DETAIL
NOT TO SCALE
RE:

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PROJECT NUMBER
CEF22-M02.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

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02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
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	FINAL PRINT

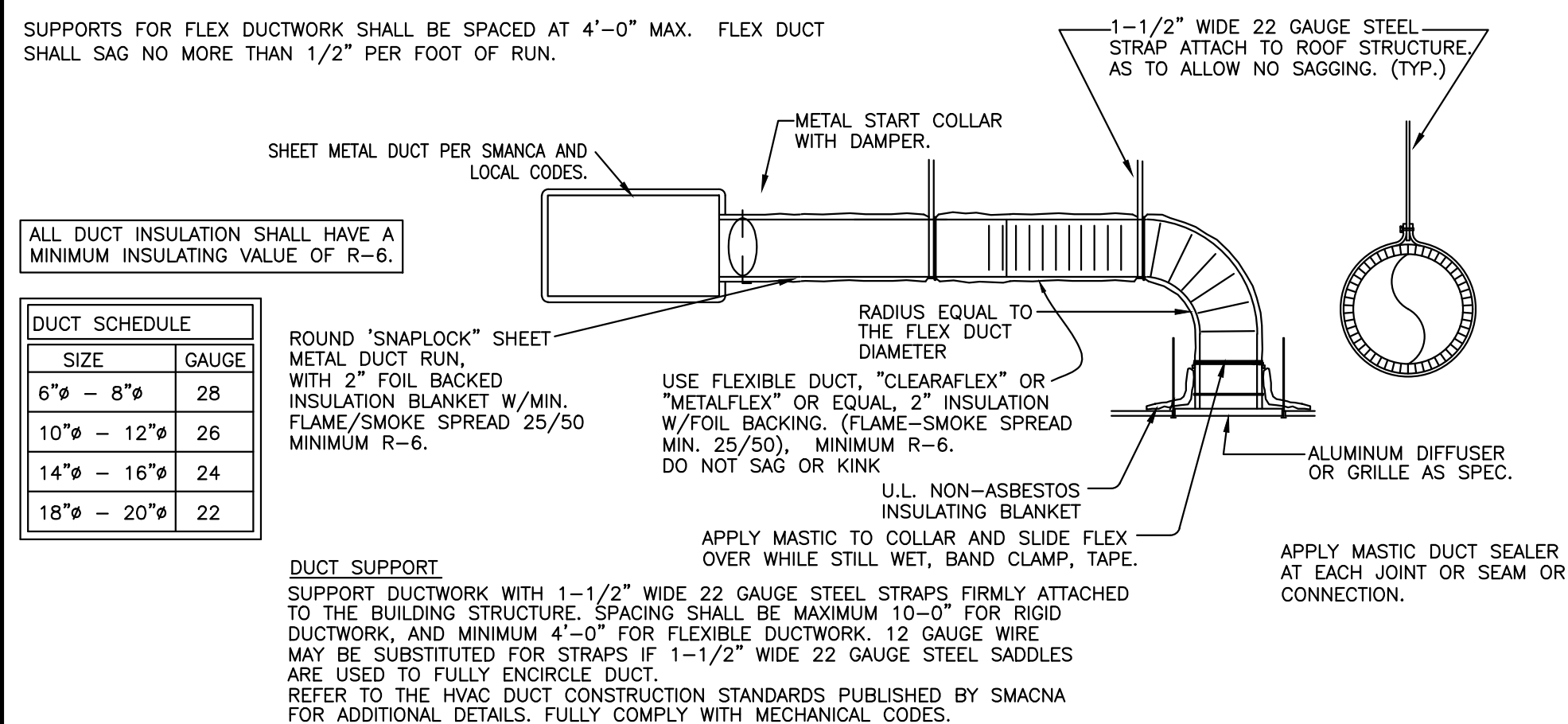
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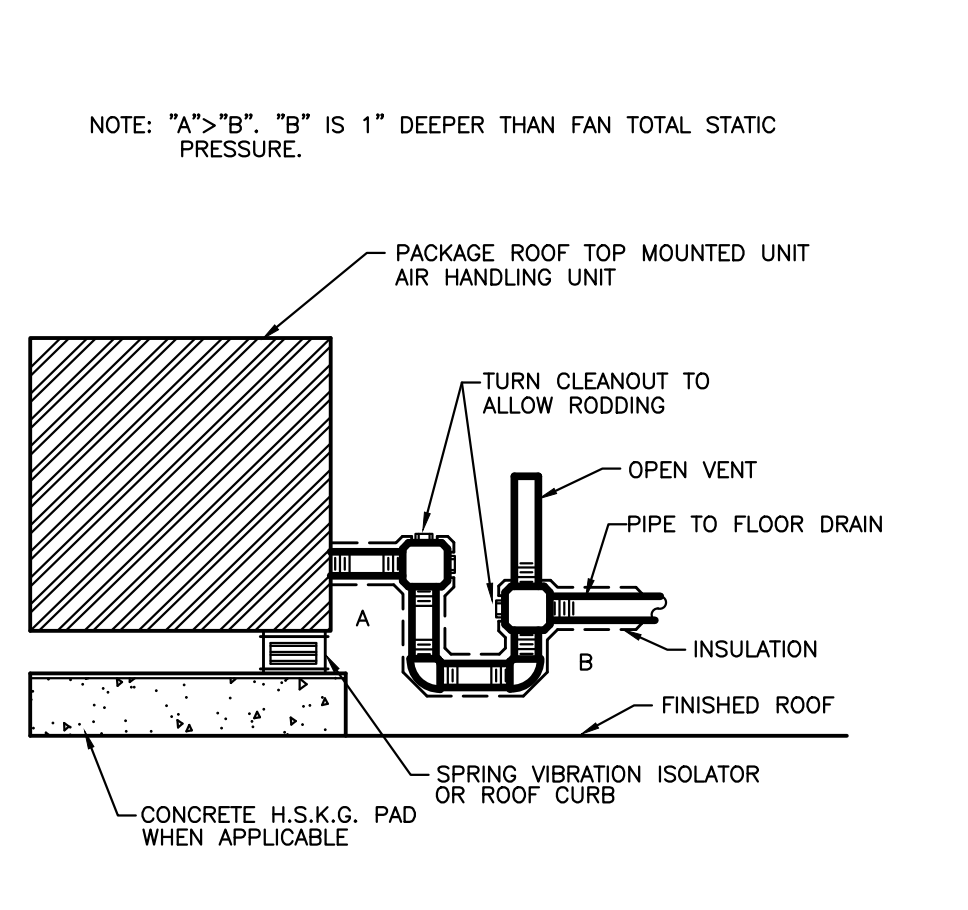
NO.	DATE	DESCRIPTION

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SHEET TITLE
MECHANICAL DETAILS AND SECTIONS

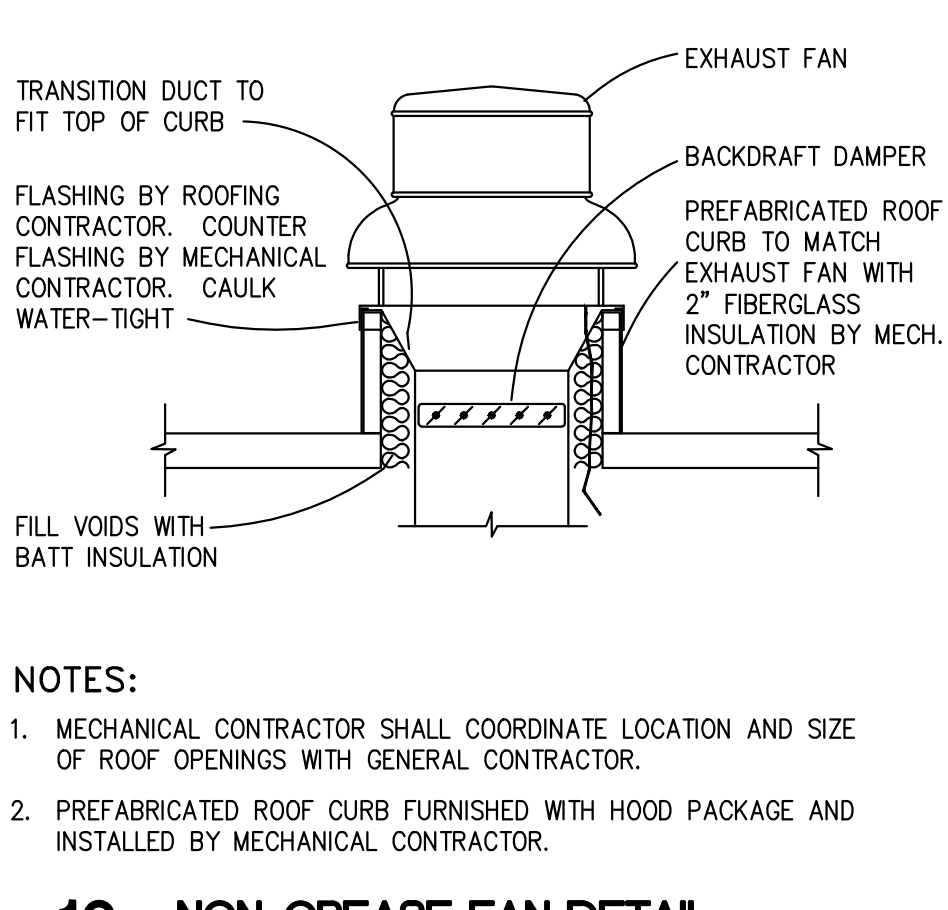
DRAWING NUMBER
M02
SHEET NO.



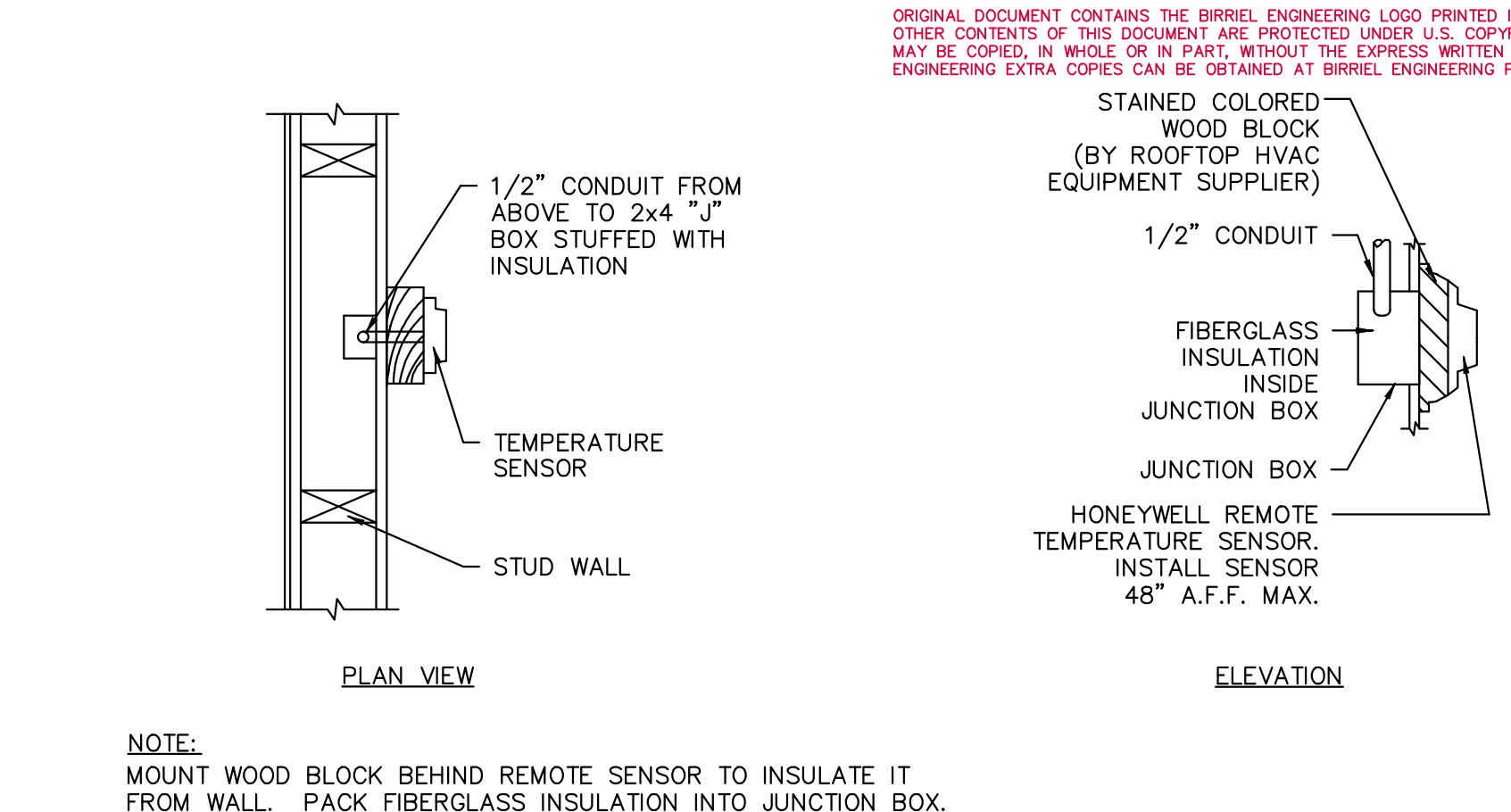
24 RIGID/FLEXDUCT CONNECTION/INSTALL DETAIL
NOT TO SCALE



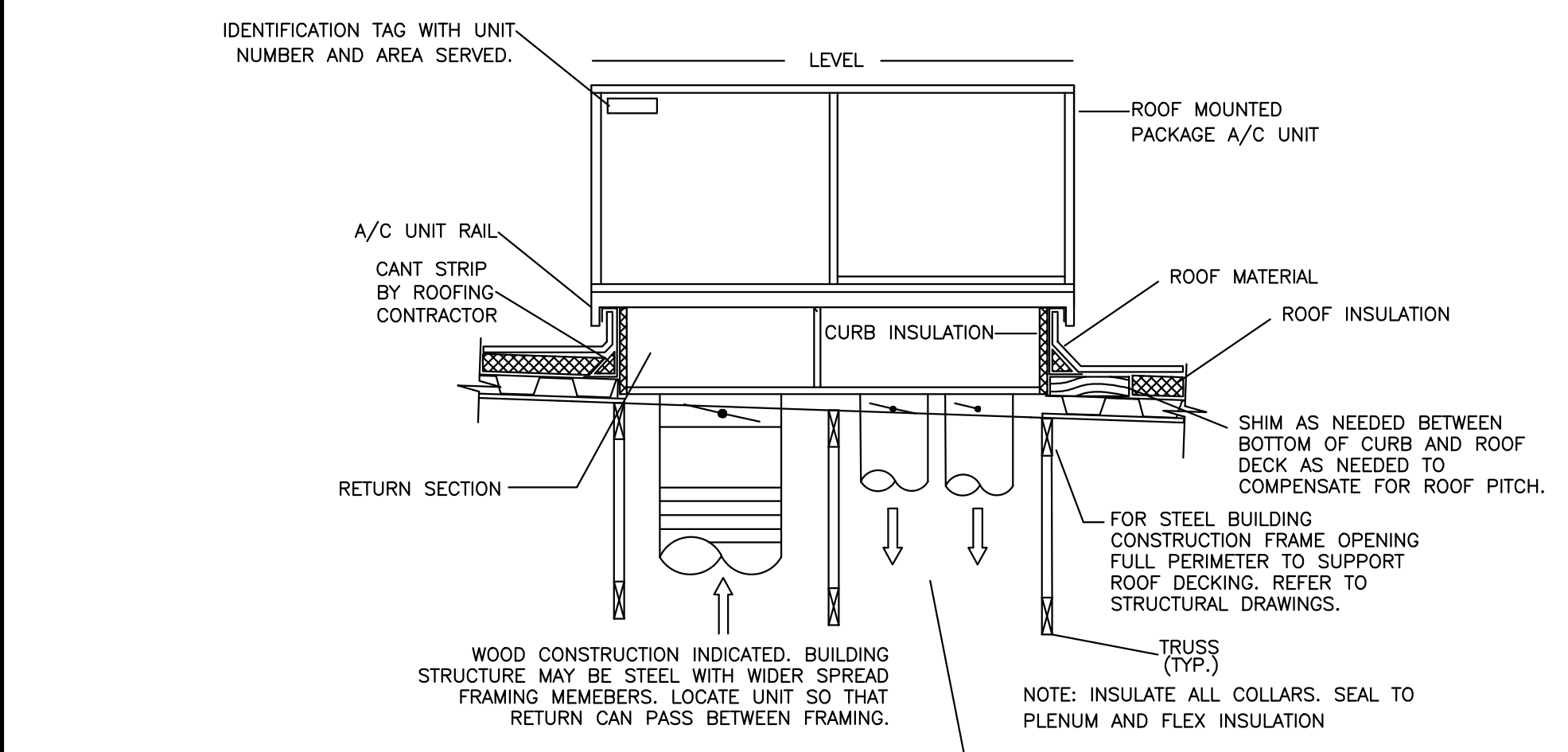
16 RTU COND. DRAIN PIPING
NOT TO SCALE



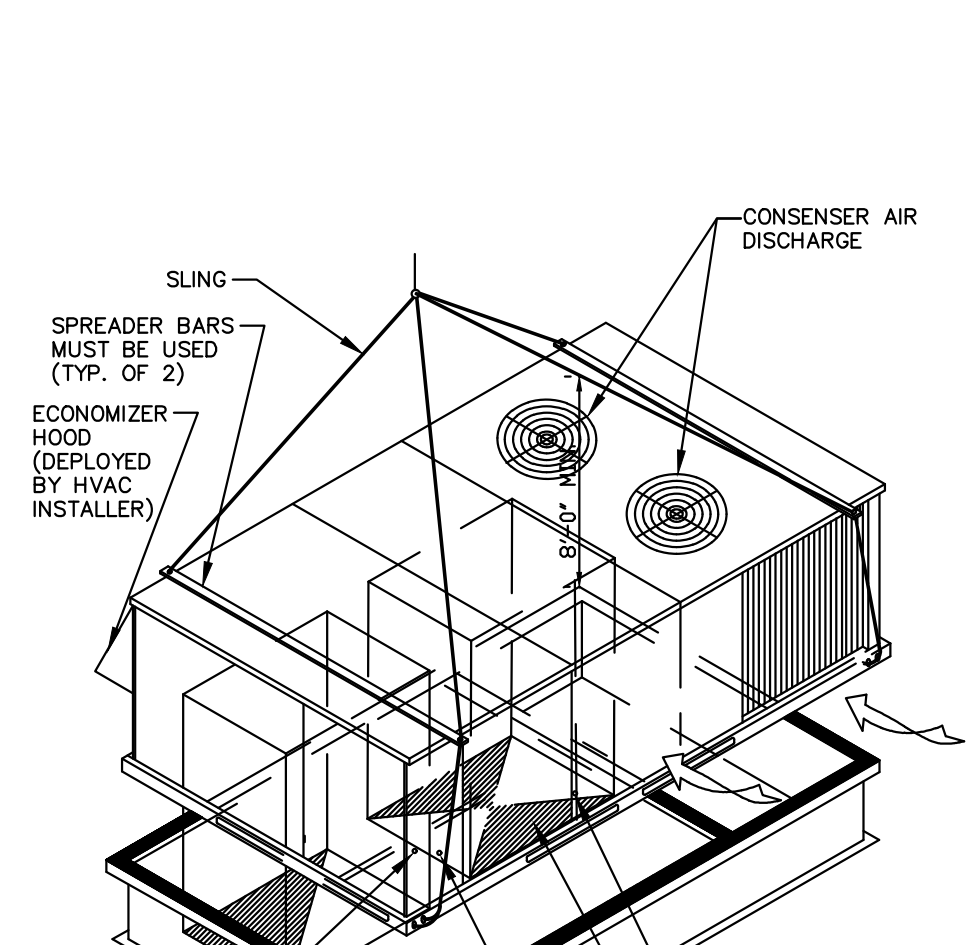
12 NON-GREASE FAN DETAIL
NOT TO SCALE



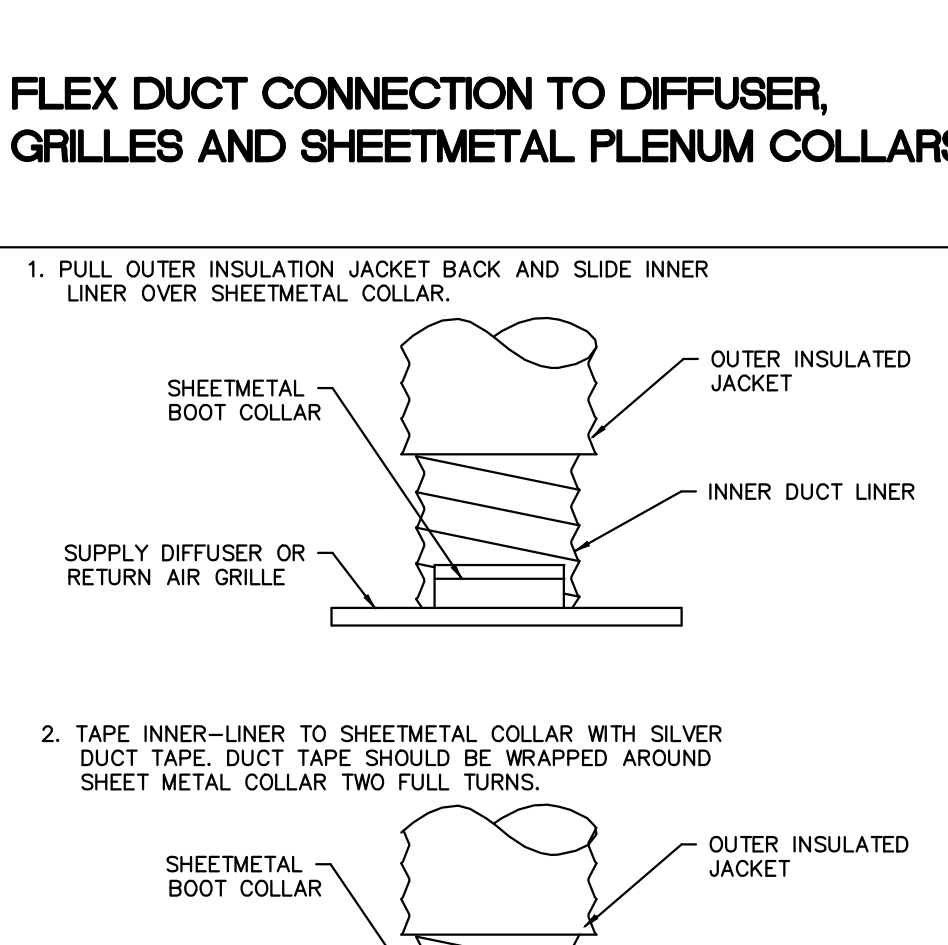
8 REMOTE SENSOR BACKER BLOCK INSTALLATION
NOT TO SCALE



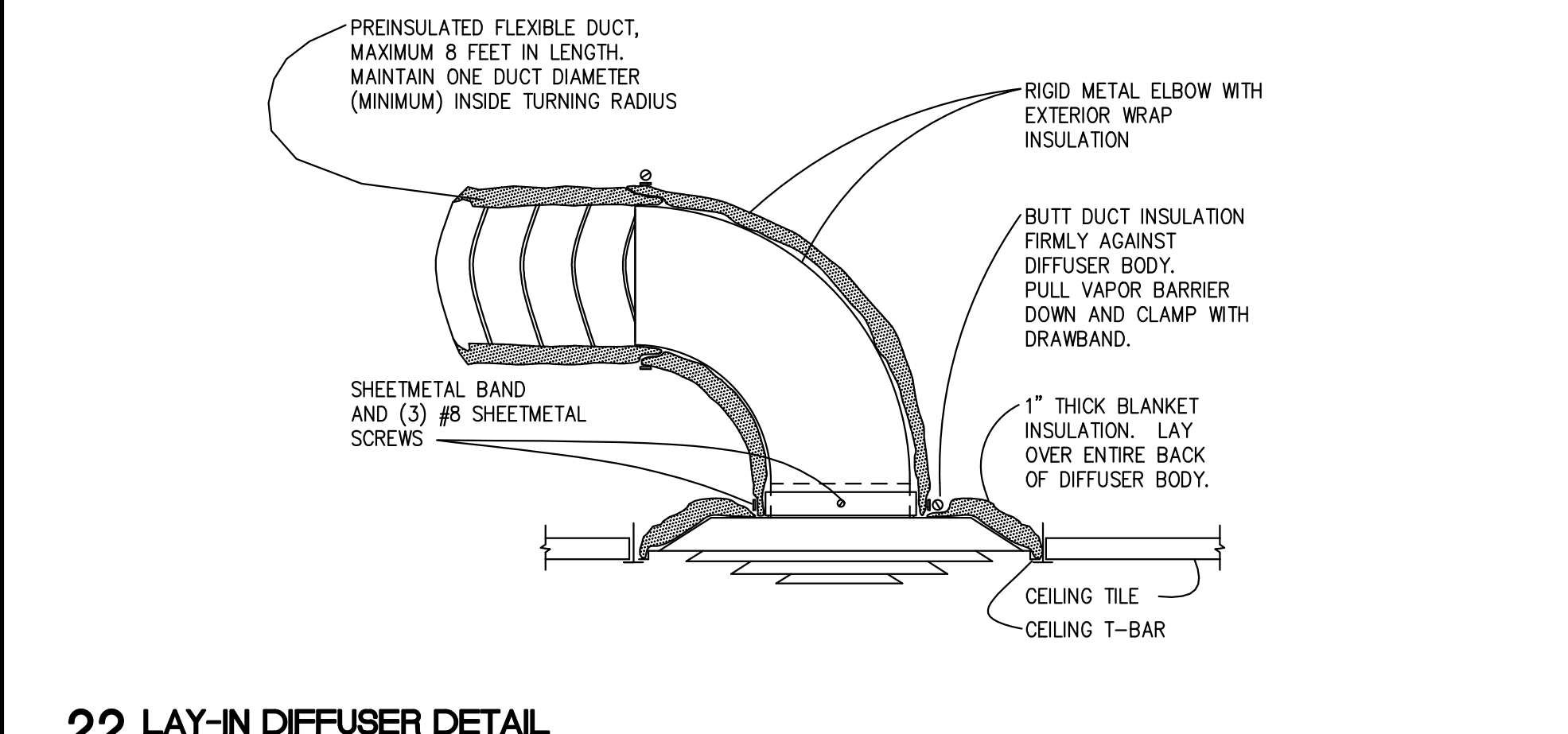
23 CONCENTRIC RISER/LEVELING DETAIL
NOT TO SCALE



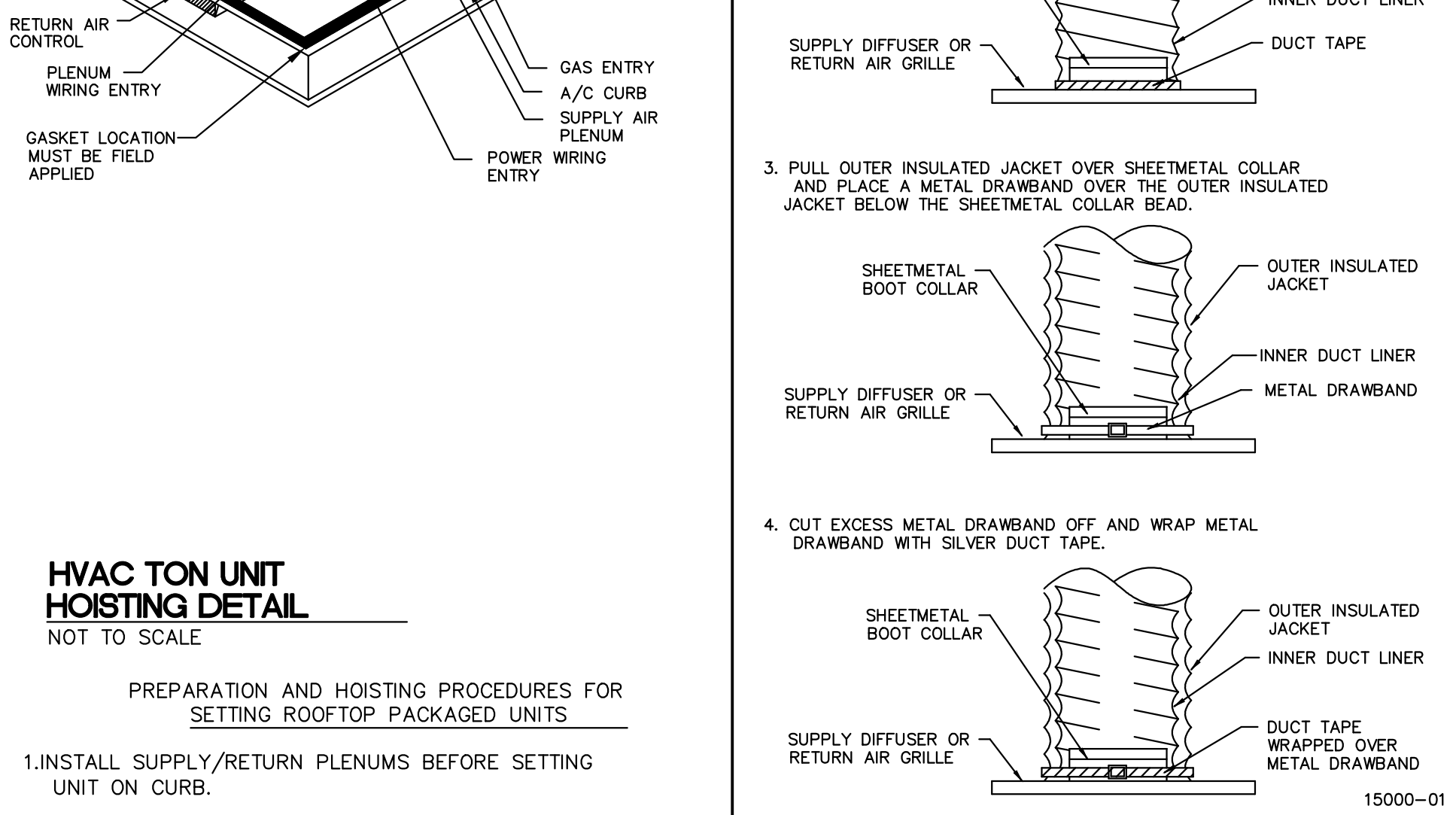
HVAC TON UNIT HOISTING DETAIL
NOT TO SCALE



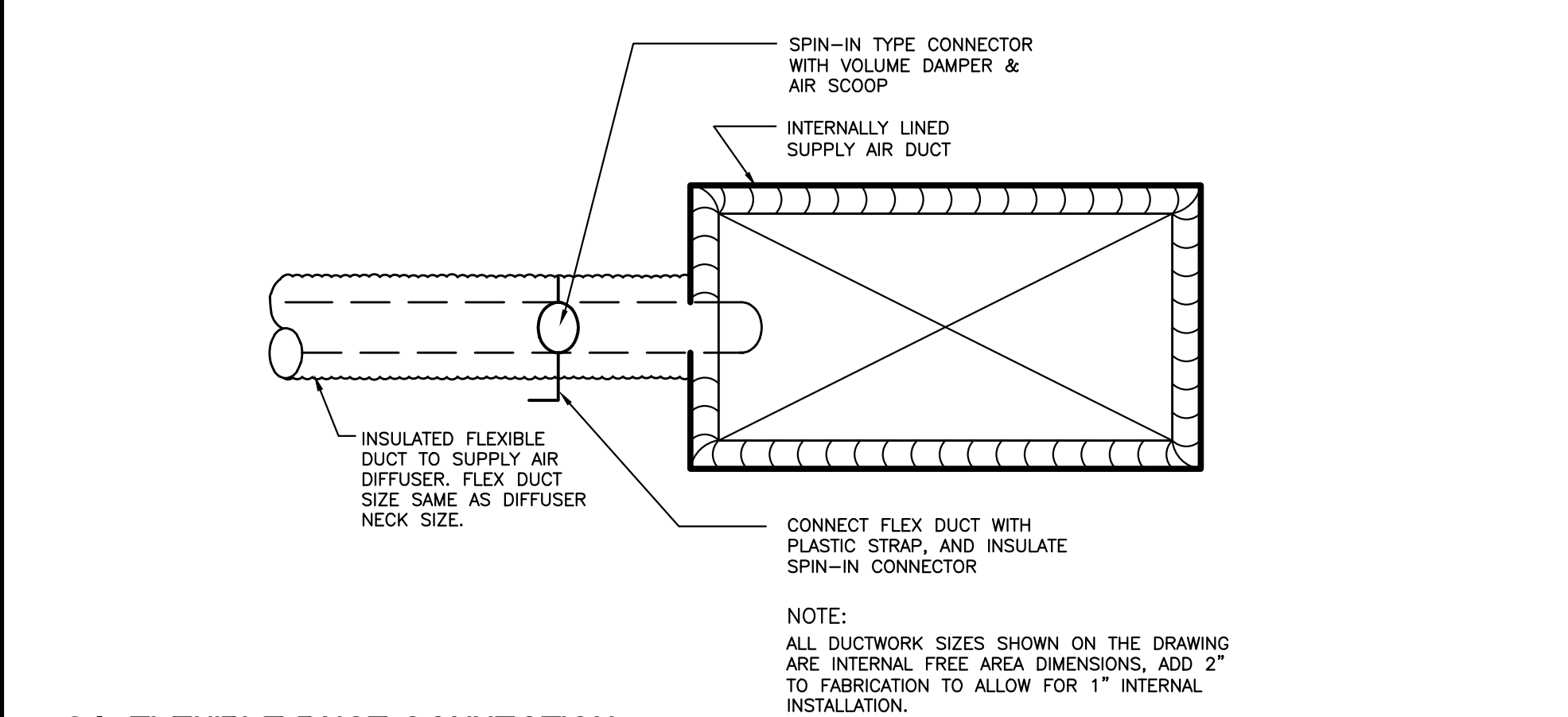
FLEX DUCT CONNECTION TO DIFFUSER, GRILLES AND SHEETMETAL PLENUM COLLARS



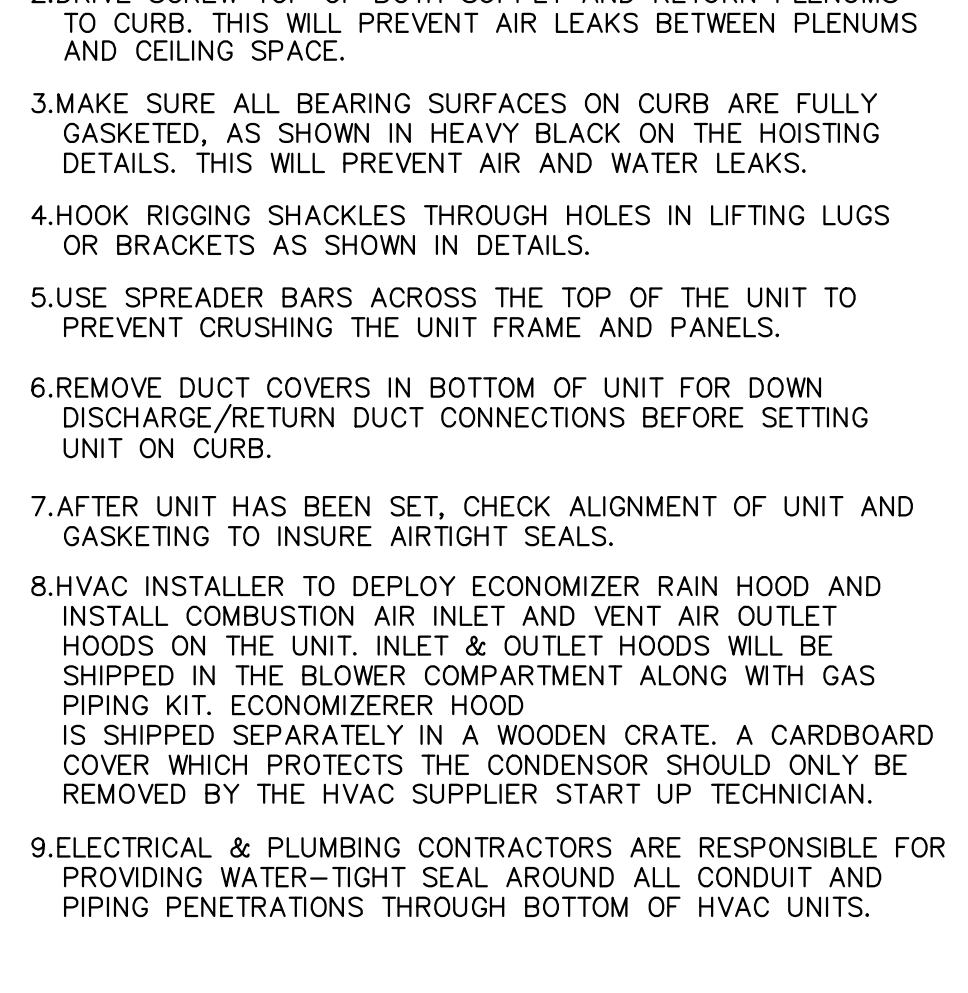
22 LAY-IN DIFFUSER DETAIL
NOT TO SCALE



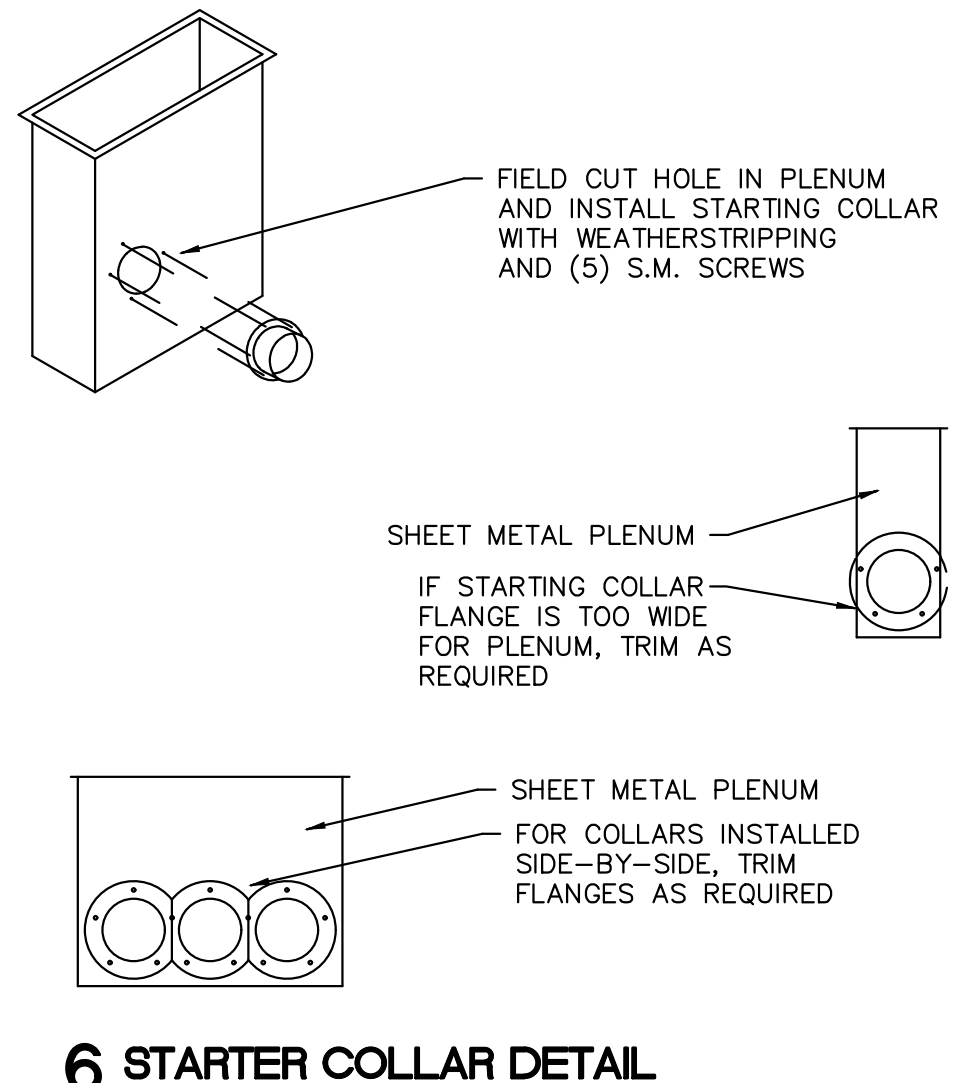
6 STARTER COLLAR DETAIL
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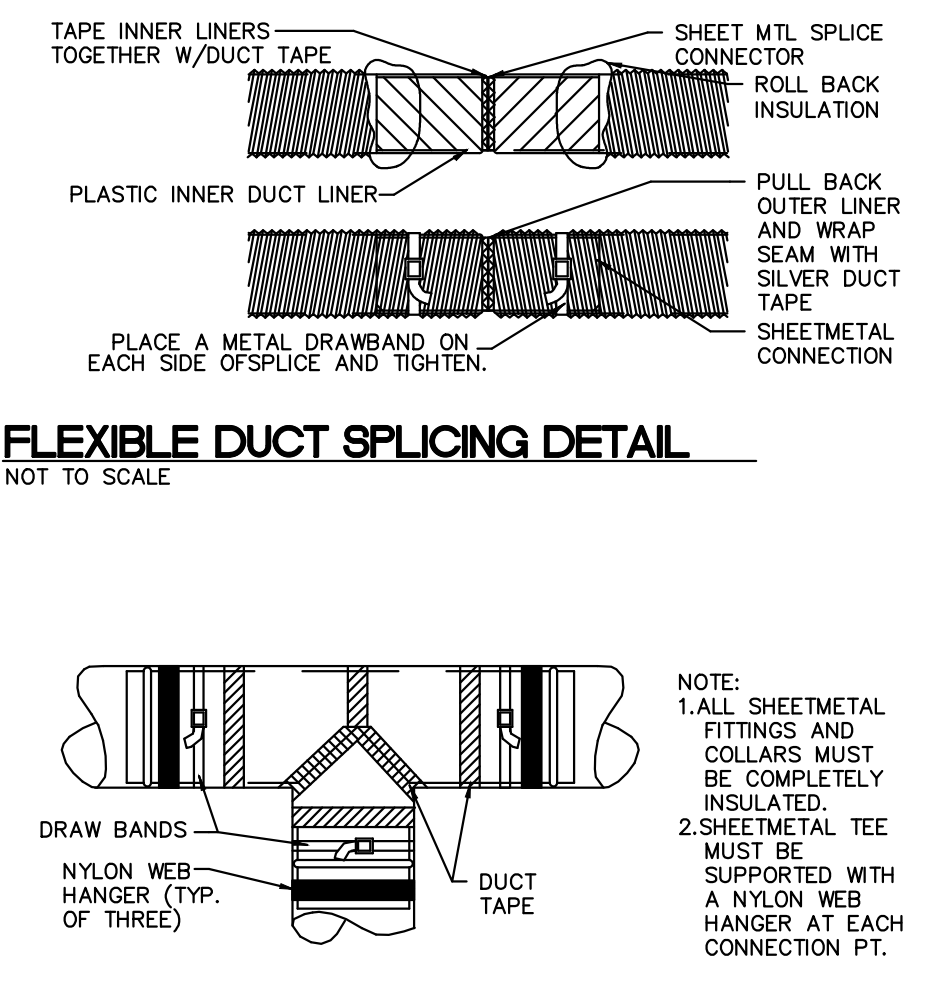
21 FLEXIBLE DUCT CONNECTION
NOT TO SCALE



SHEETMETAL TEE INSULATION DETAIL
NOT TO SCALE



2 RECTANGULAR SUPPLY DUCT TAP
NOT TO SCALE



5 FIRE DAMPER INSTALLATION - FOLDING BLADE CURTAIN TYPE
NOT TO SCALE

- NOTES:**
- A RETAINING ANGLES MIN. 1-1/2"x1-1/2"x16GA.
 - B CLEARANCE: 1/8" PER LINEAL FOOT BOTH DIMENSIONS (1/2" MAX.)
 - C STEEL SLEEVE PER SMACNA STANDARD.
 - D APPROVED FIRE DAMPER (SEE SPECIFICATIONS).
 - E SECURE RETAINING ANGLES TO SLEEVE ONLY, ON 8" CENTERS WITH:
 1. 1/2" LONG WELDS, OR
 2. 1/4" BOLTS AND NUTS, OR
 3. NO. 10 STEEL SCREWS, OR
 4. MIN. 3/16" STEEL RIVETS.
 - F SECURE DAMPER TO SLEEVE ON 8" CENTERS PER SMACNA RECOMMENDATIONS.
 - G SECURE AND SEAL DUCT TO SLEEVE WITH SMACNA APPROVED CONNECTION.
 - H VERTICAL POSITION IS SHOWN; HORIZONTAL INSTALLATION IS SIMILAR.
 - I OBSERVE AIR FLOW DIRECTION SPECIFIED ON DAMPER ASSEMBLY.
 - J PROVIDE ACCESS DOORS AS SPECIFIED.
 - K FOLLOW INSTALLATION INSTRUCTIONS FOR FUSIBLE LINKS.
 - L RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS. ANGLES MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS.
 - M REFERENCE U.L. DIRECTORY FOR CONSTRUCTION DETAILS SPECIFIC TO DAMPER TO BE INSTALLED.

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PROJECT NUMBER
CEF22-M03.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

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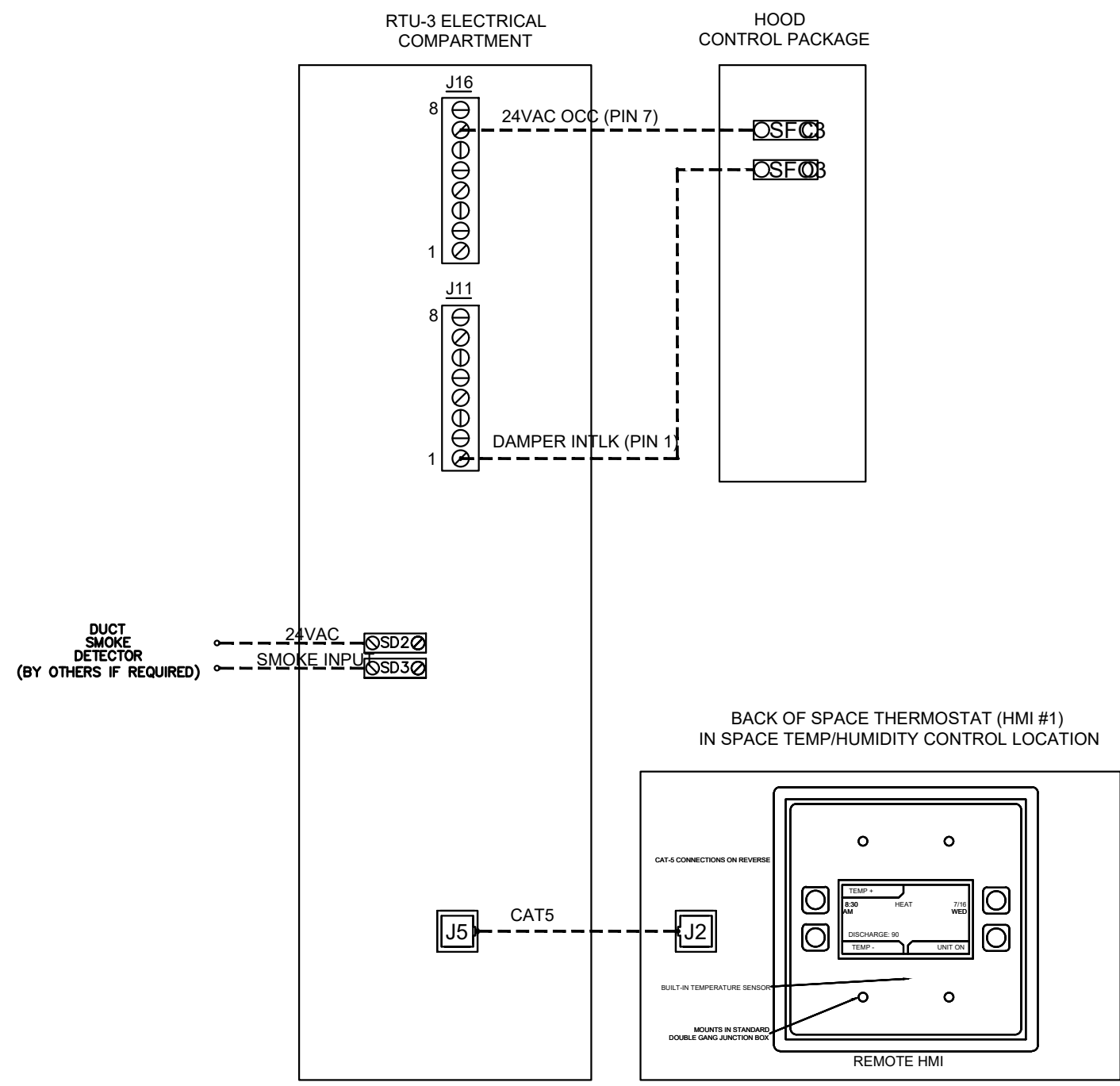
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MECHANICAL DETAILS AND SECTIONS

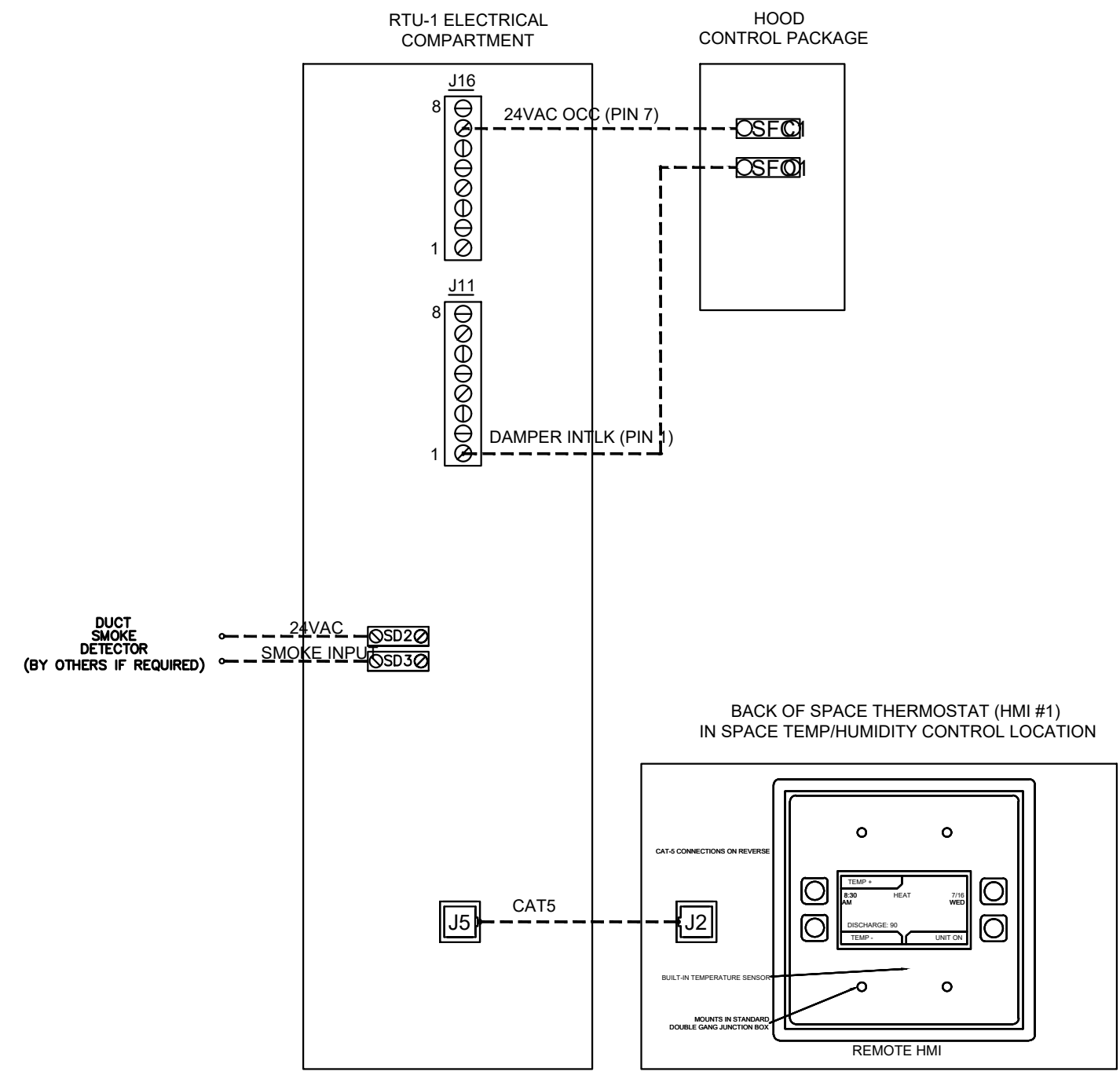
DRAWING NUMBER
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RTU-3 (SALES) CONTROLS REQUIREMENTS



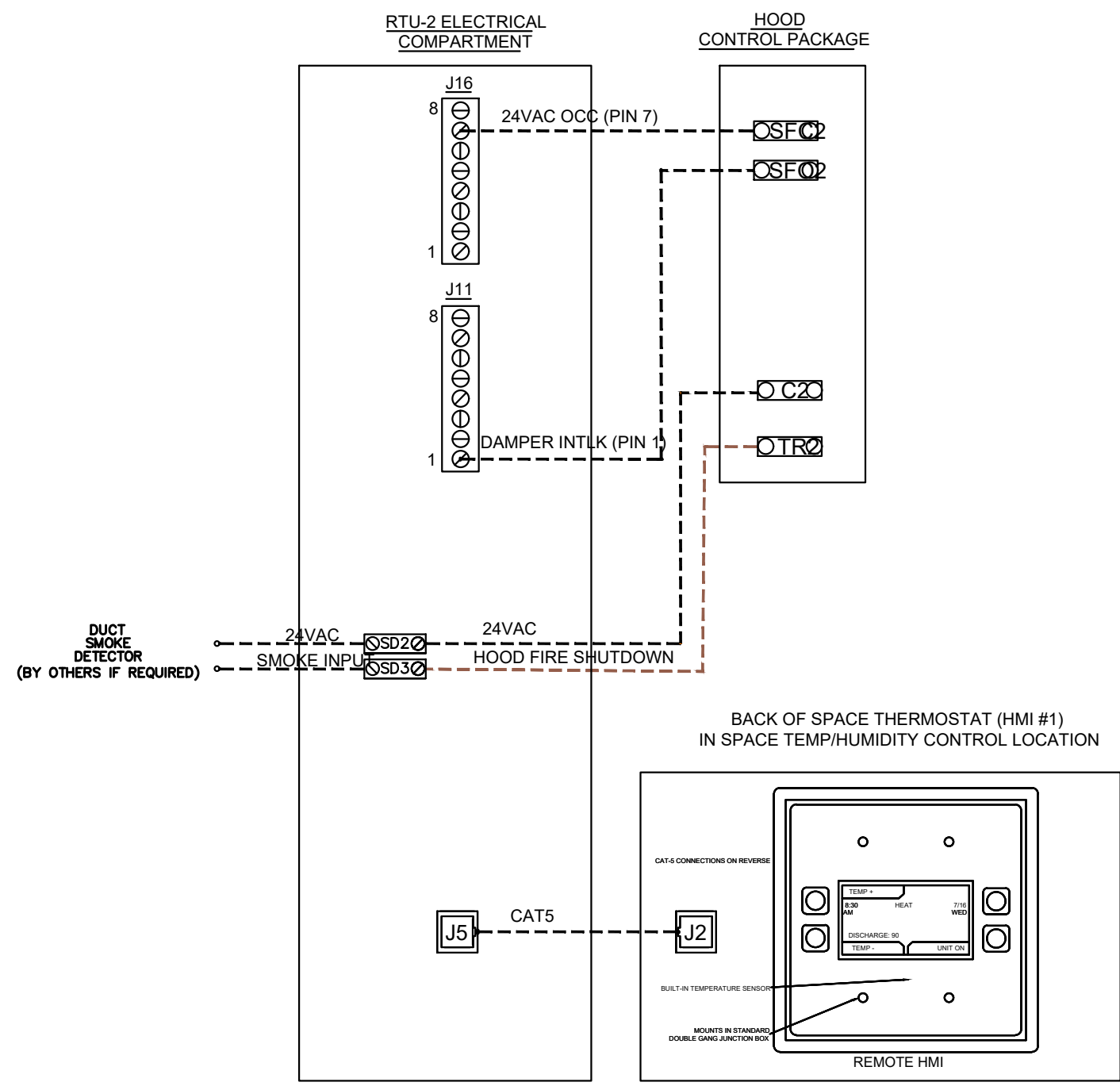
13 RTU-3 (SALES) CONTROLS REQUIREMENTS
SCALE: NTS
RE:

RTU-1 (SALES/COOLER AREA) CONTROLS REQUIREMENTS



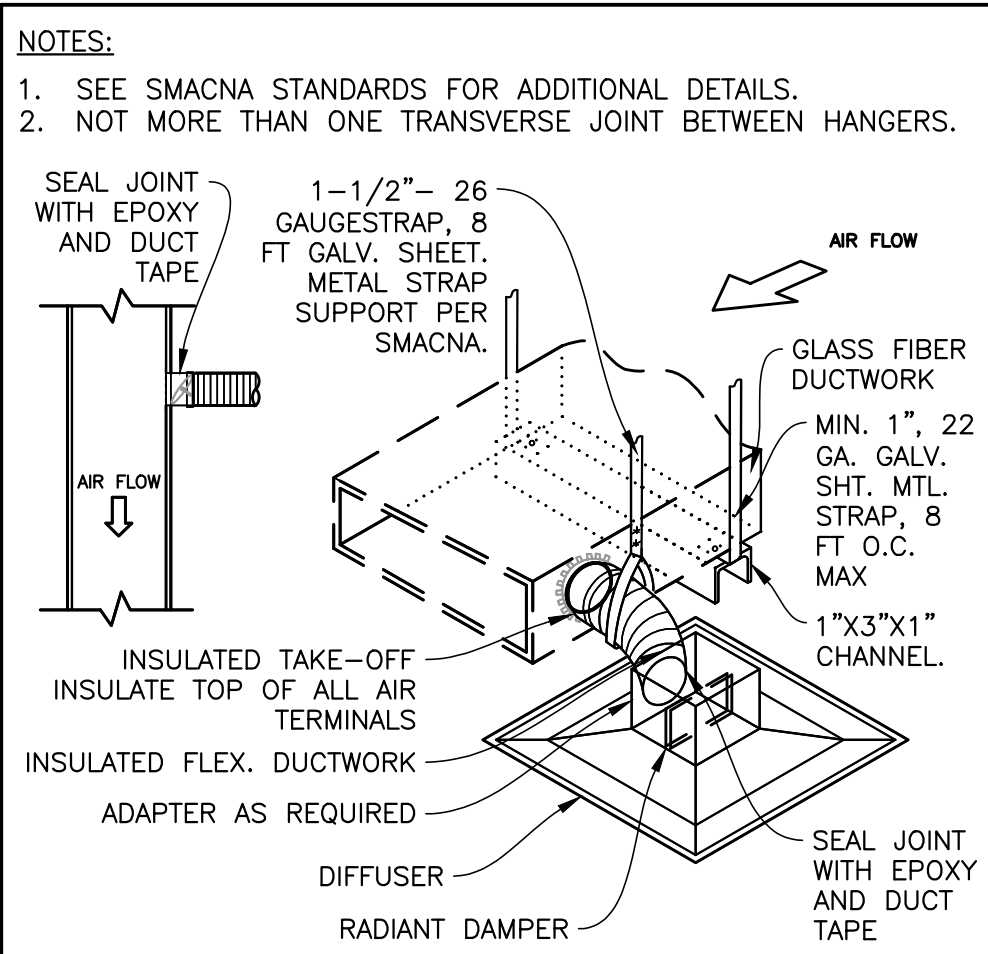
11 RTU-1 (SALES/COOLER AREA) CONTROLS REQUIREMENTS
SCALE: NTS
RE:

RTU-2 (KITCHEN/BOH) CONTROLS REQUIREMENTS

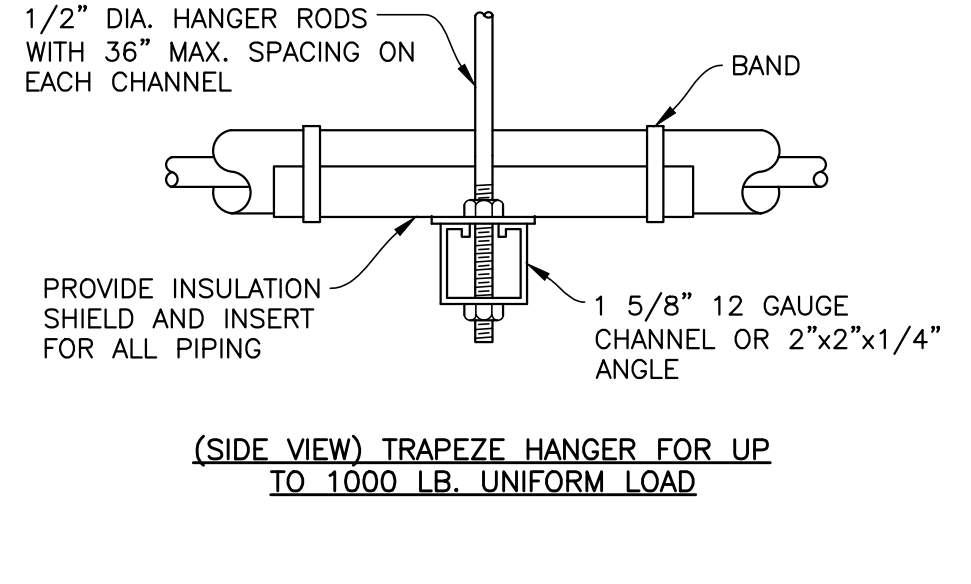


12 RTU-2 (KITCHEN/BOH) CONTROLS REQUIREMENTS
SCALE: NTS
RE:

DETAILS NOTE: NOT ALL DETAILS ON THIS SHEET MAY APPLY TO THIS PROJECT. REFER TO PROJECT MECHANICAL PLANS FOR DETAILS APPLICABLE TO THIS PROJECT.



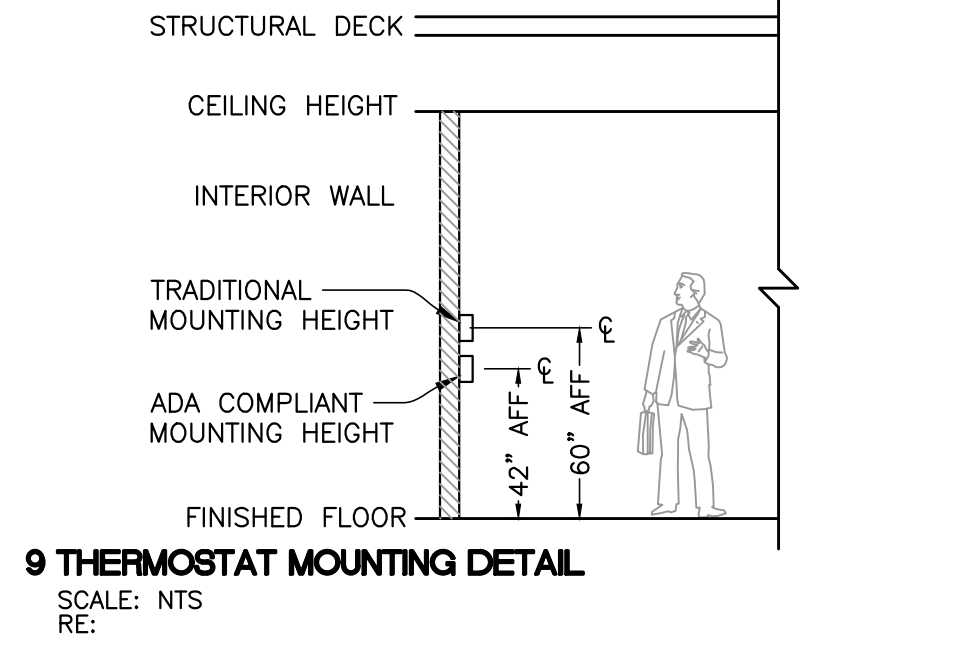
10 FIBERGLASS DUCT HANGER DETAILS
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RE:



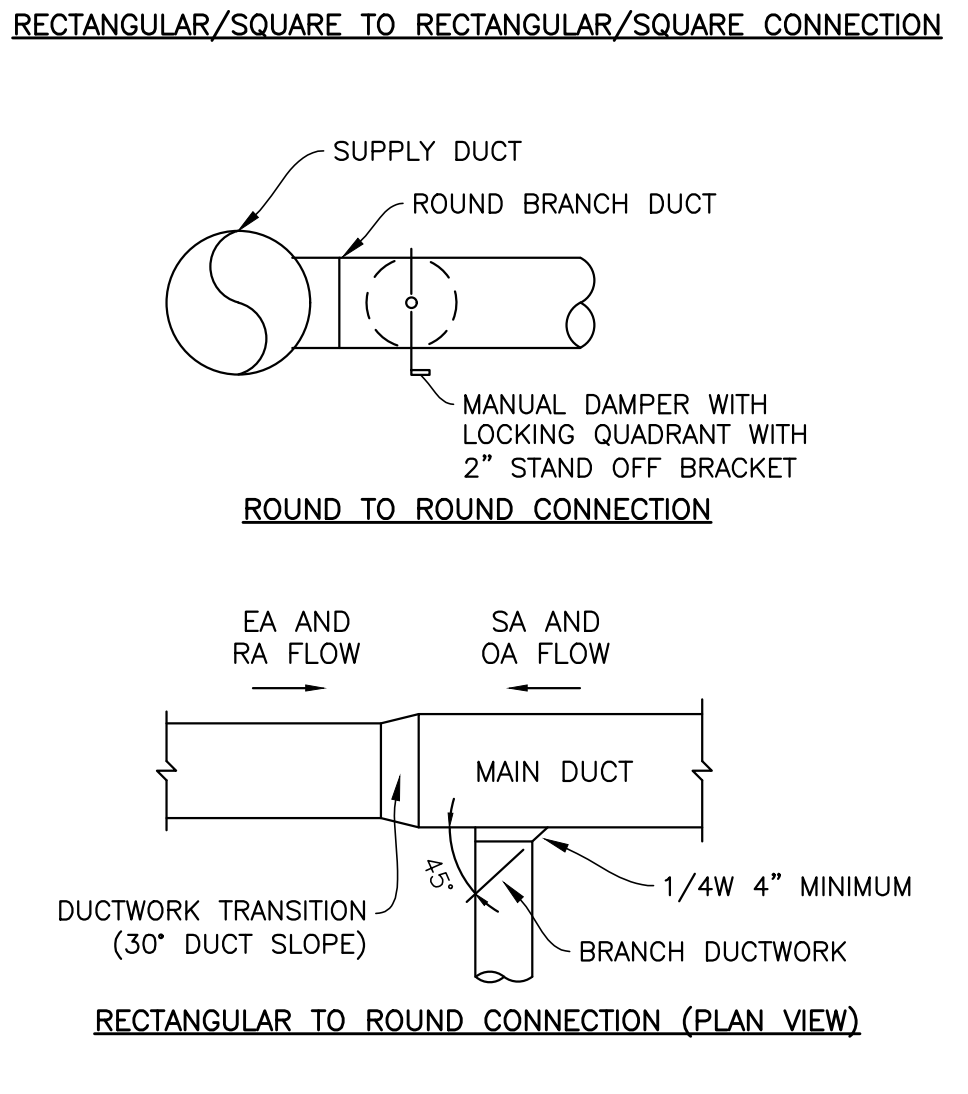
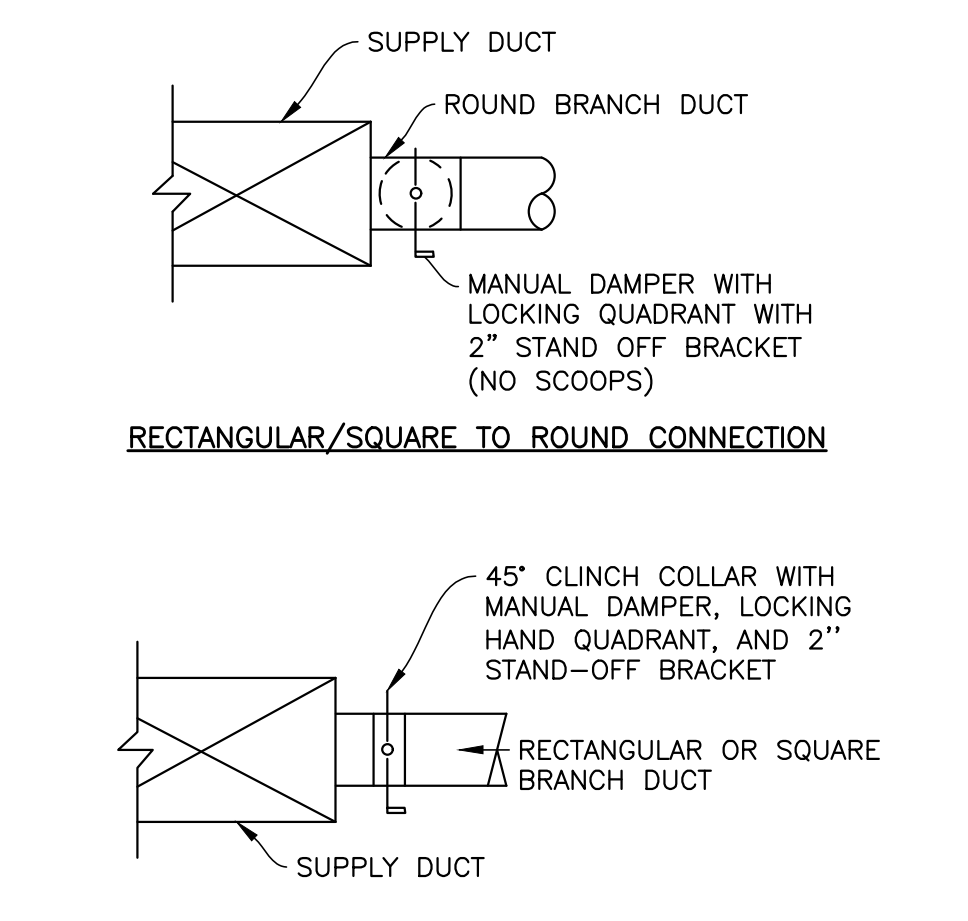
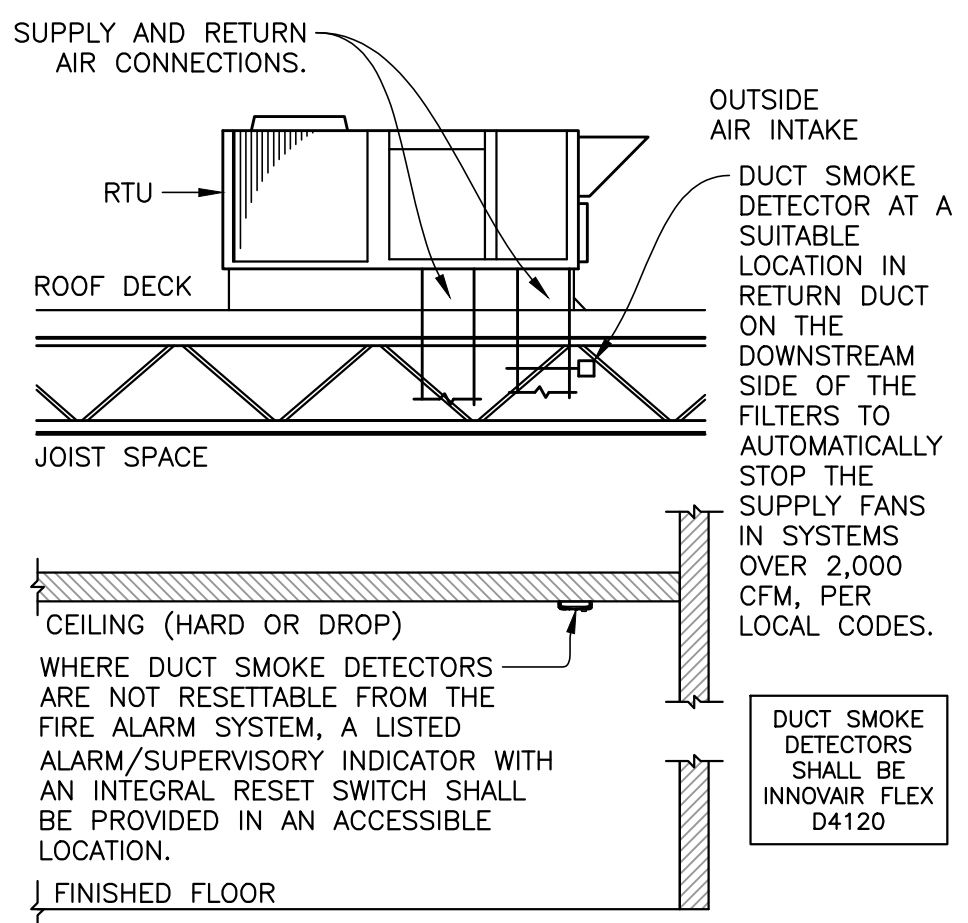
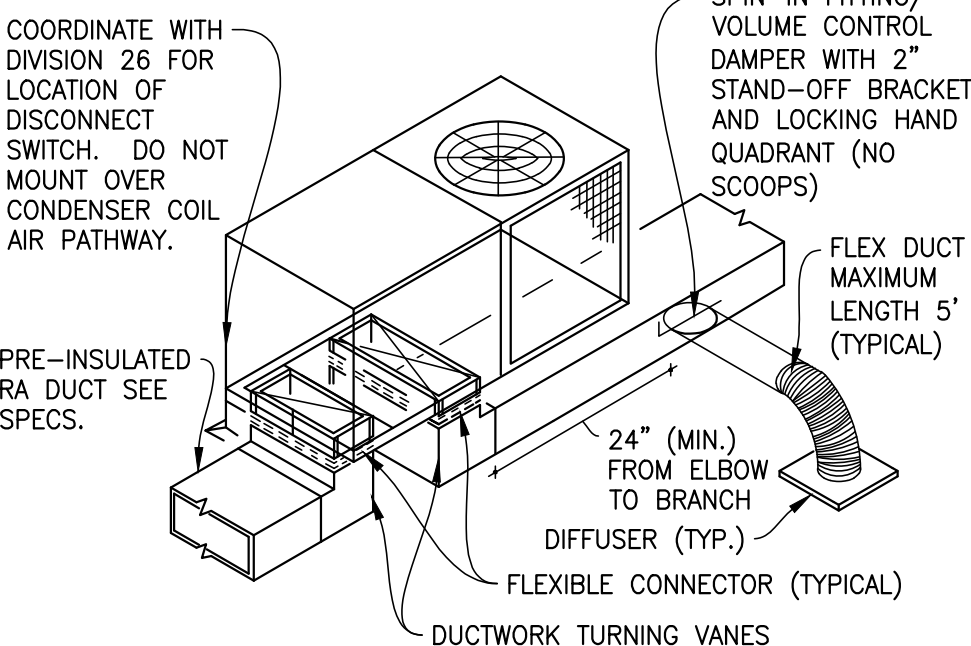
MAXIMUM PIPE/TUBING SUPPORT SPACING (FT)												
NOM. SIZE	THRU 3/4"	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10
PIPE	7 (FT)	7	7	9	10	11	12	14	16	17	19	22
TUBING	5 (FT)	6	7	8	8	9	10	12	13	14	16	-

7 PIPE HANGERS DETAIL
SCALE: NTS
RE:

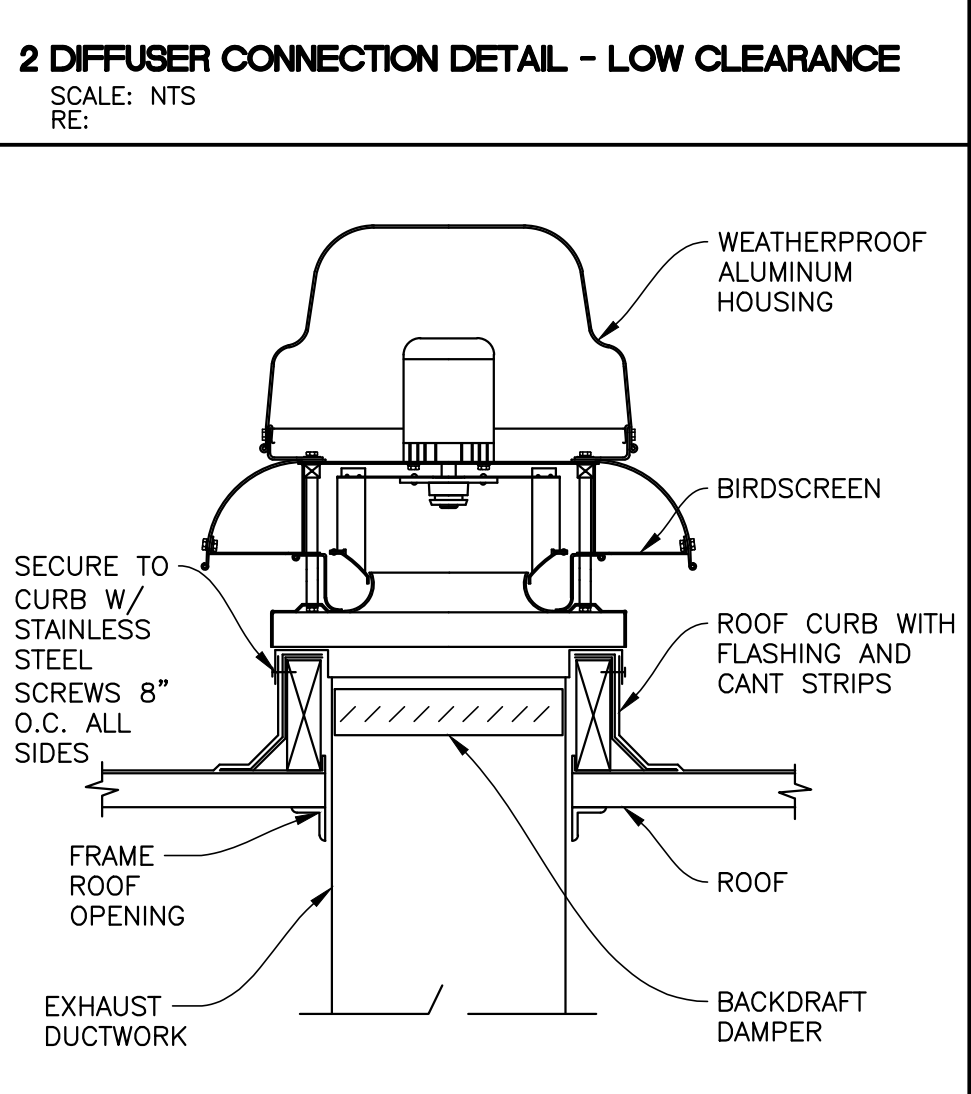
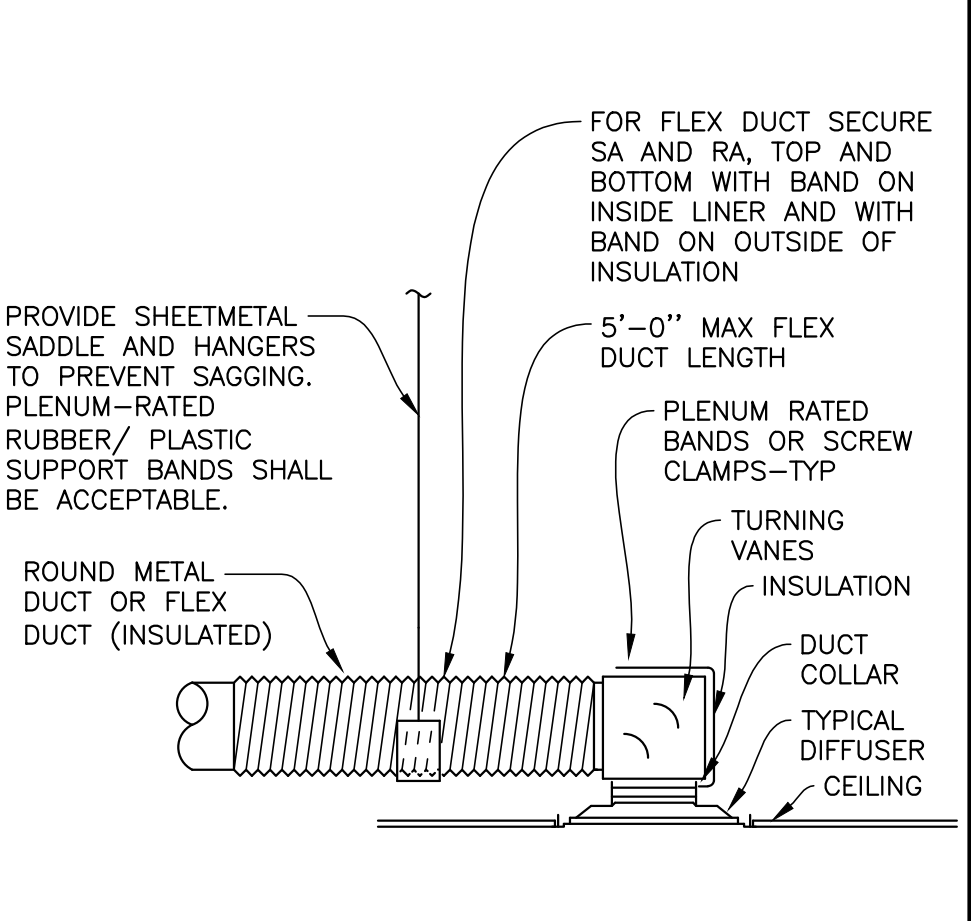
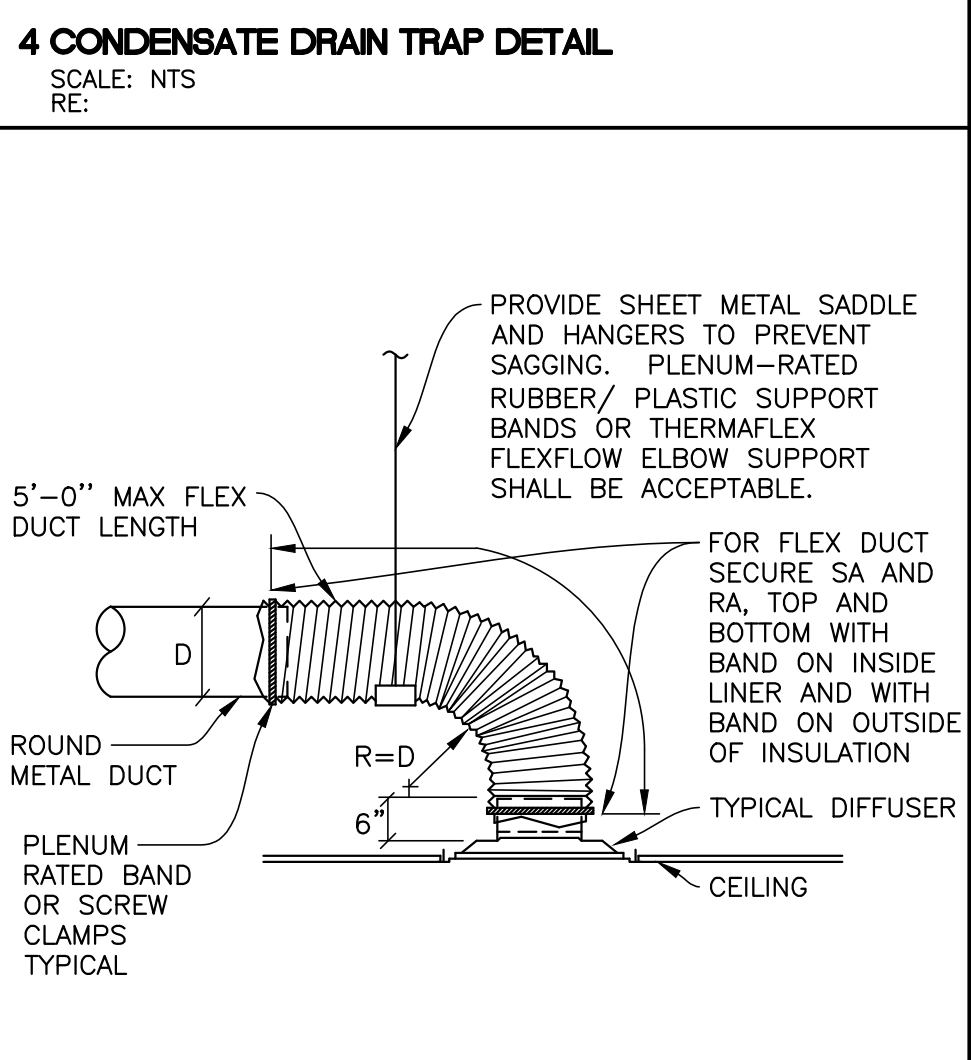
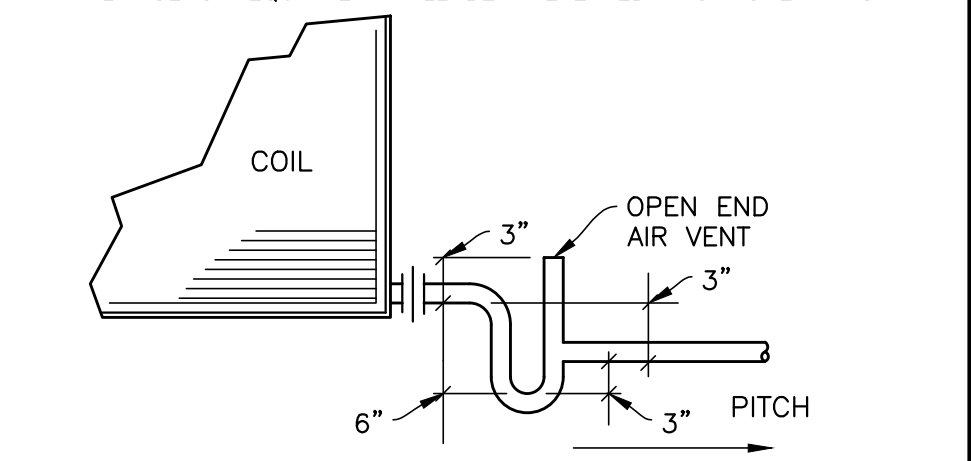
- NOTES:**
- ALL THERMOSTATS SHALL BE INSTALLED AT 42" AFF UNLESS NOTED OTHERWISE.
 - MAINTAIN 16" FROM ADJACENT EXTERIOR WALLS. WHERE INSTALLATION IS REQUIRED ON EXTERIOR WALL, PROVIDE INSULATED MOUNTING PAD FOR BASE PLATE.
 - REFRAIN FROM INSTALLING THERMOSTAT NEAR ANY HEATING OR COOLING SOURCES; SUCH AS EQUIPMENT, WINDOWS, OR UNDER SUPPLY DIFFUSERS.
 - ENSURE THERMOSTAT IS INSTALLED IN CORRECT ORIENTATION AND ACCORDING TO ALL MANUFACTURER INSTALLATION INSTRUCTIONS.
 - COORDINATE FINAL LOCATION WITH IN FIELD CONDITIONS, MAINTAIN CLEARANCE FROM NEARBY SWITCHES AND OTHER DEVICES AS NEEDED.



- ROOFTOP UNIT NOTES:**
- POWER AND CONTROL WIRING FOR ROOFTOP-MOUNTED HVAC EQUIPMENT SHALL BE RUN THROUGH THE BASE INSIDE THE CURB.
 - UNITS SHALL BE MOUNTED LEVEL. SEE ARCHITECTURAL PLANS FOR ROOF PENETRATION FLASHING DETAILS.
 - SEE ARCHITECTURAL CURB DETAILS. IT IS VERY IMPORTANT CURB CORNERS AND FLASHING ARE SEALED WATER-TIGHT.



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- NOTES:**
- CONDENSATE PIPING SHALL BE OF CORROSION RESISTANT MATERIAL AND SHALL NOT BE SMALLER THAN THE DRAIN CONNECTION ON THE APPLIANCE.
 - CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4".
 - MINIMUM HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN 1/8 UNIT VERTICAL IN 12 UNITS HORIZONTAL.
 - CONDENSATE PUMPS LOCATED IN UNINHABITABLE SPACES, SUCH AS ATTICS AND CRAWL SPACES, SHALL BE CONNECTED TO THE APPLIANCE OR EQUIPMENT SERVED SUCH THAT WHEN THE PUMP FAILS, THE APPLIANCE OR EQUIPMENT WILL BE PREVENTED FROM OPERATING.



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PROJECT NUMBER
CEF22-M03A.DWG

PROJECT TITLE
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
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PROFESSIONAL SEAL
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SHEET TITLE
MECHANICAL DETAILS

DRAWING NUMBER
M03A

FOR QUESTIONS, CALL THE
Austin Office
REGION 47
PHONE: (512) 539 - 0483
EMAIL: reg47@captiveaire.com

HOOD INFORMATION - JOB#6701020

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA		CFM	VEL	SP	END TO END	RDW
1	Hd-1	5424 ND-2	CAPTIVEAIRE	8' 0"	600 DEG	I	HEAVY	225	1800			4'	14'	1800	1684	-0.930"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1	Hd-1	CAPTRATE SOLID FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-110110MA_MA4	1 LIGHT 1 FAN	YES	719 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Hd-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00" HIGH X 108.00" LONG 430 SS VERTICAL. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

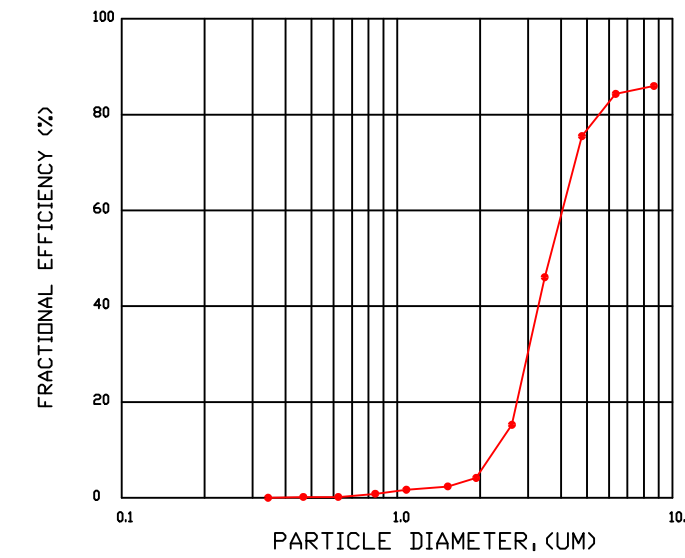
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

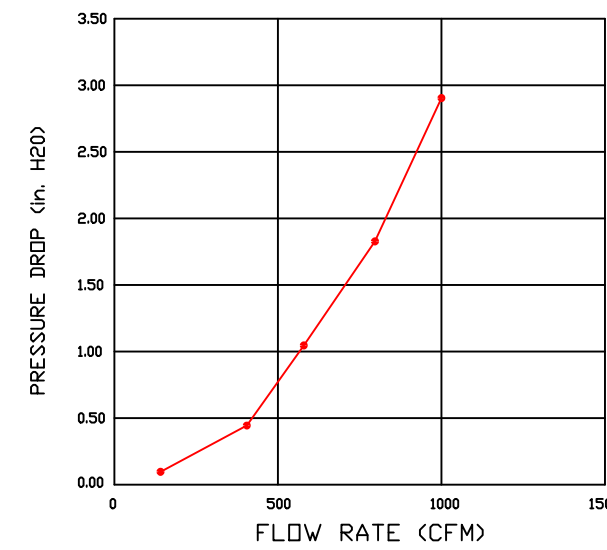
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

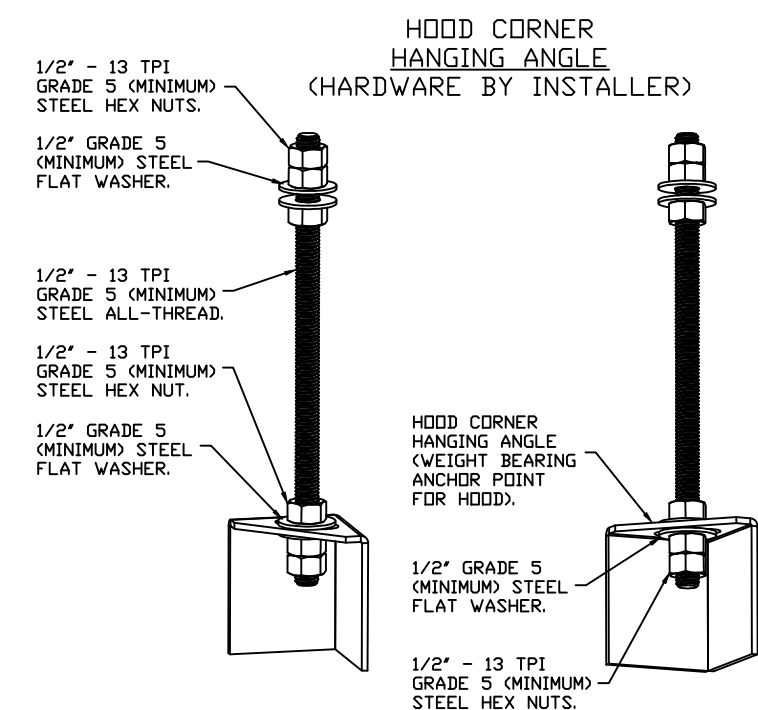


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED-HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

VERIFY CEILING HEIGHT

___' - ___"

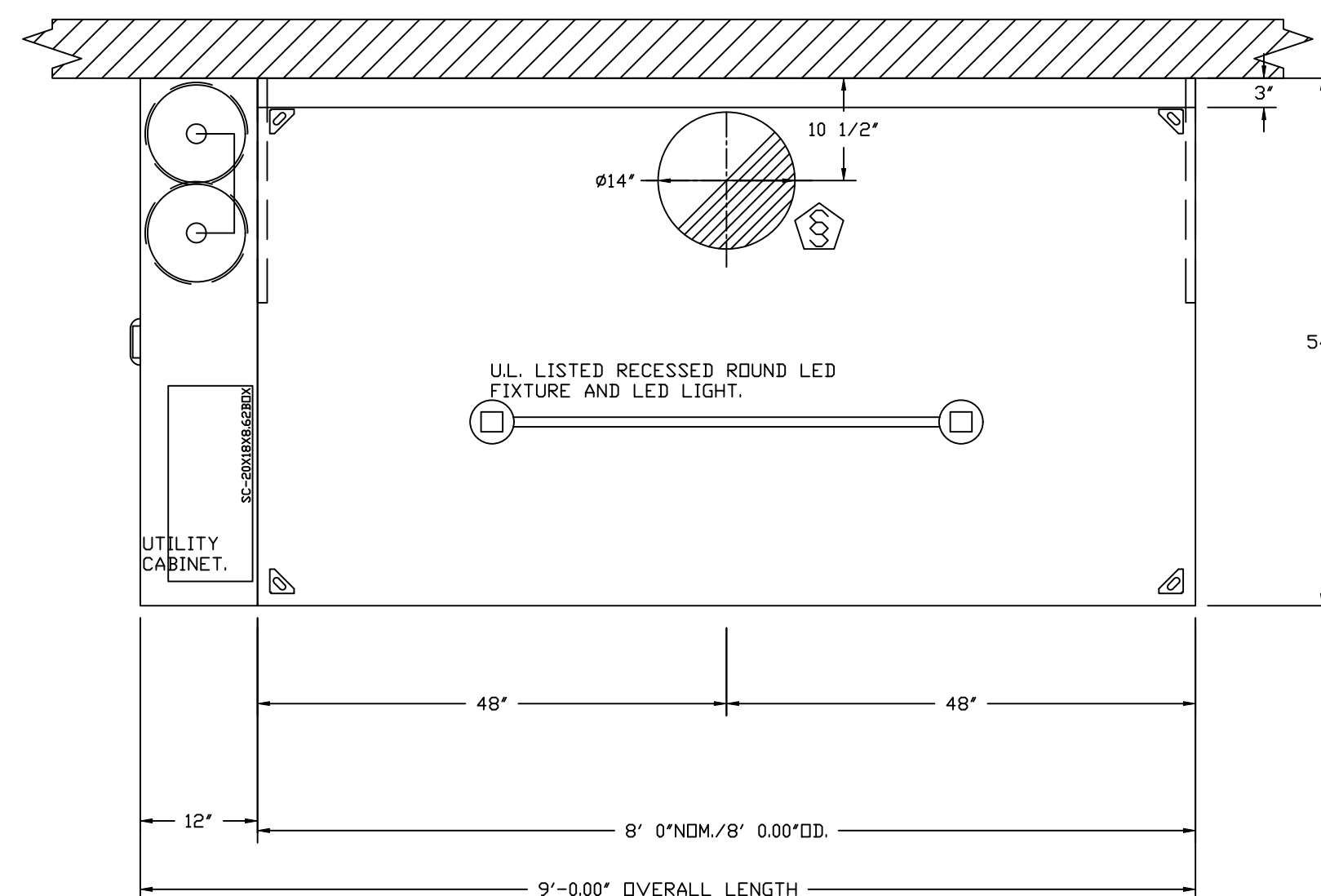
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CAPTIVEAIRE HOODS ARE BUILT IN COMPLIANCE WITH
UL 710 AND NFPA 96
AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

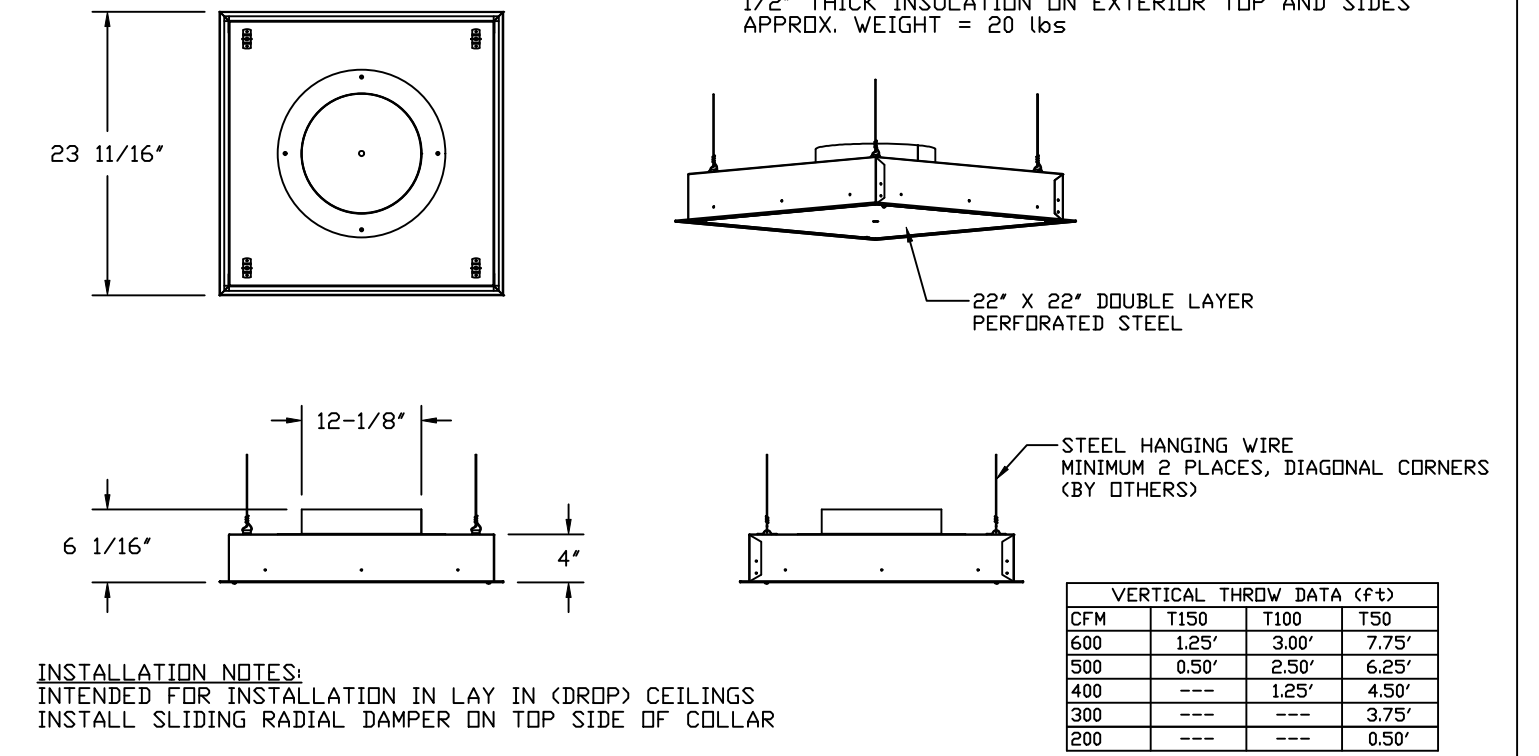
CAPTIVEAIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF
ETL LISTED #3054804-001



PLAN VIEW - HOOD #1 (Hd-1)
8' 0.00" LONG 5424ND-2

QTY 8-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



INSTALLATION NOTES:
INTENDED FOR INSTALLATION IN LAY IN (DROP) CEILINGS
INSTALL SLIDING RADIAL DAMPER ON TOP SIDE OF COLLAR

CFM	T150	T100	T50
600	1.25'	3.00'	7.75'
500	0.50'	2.50'	6.25'
400	---	1.25'	4.50'
300	---	---	3.75'
200	---	---	0.50'

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

CUSTOMER APPROVAL TO MANUFACTURE:

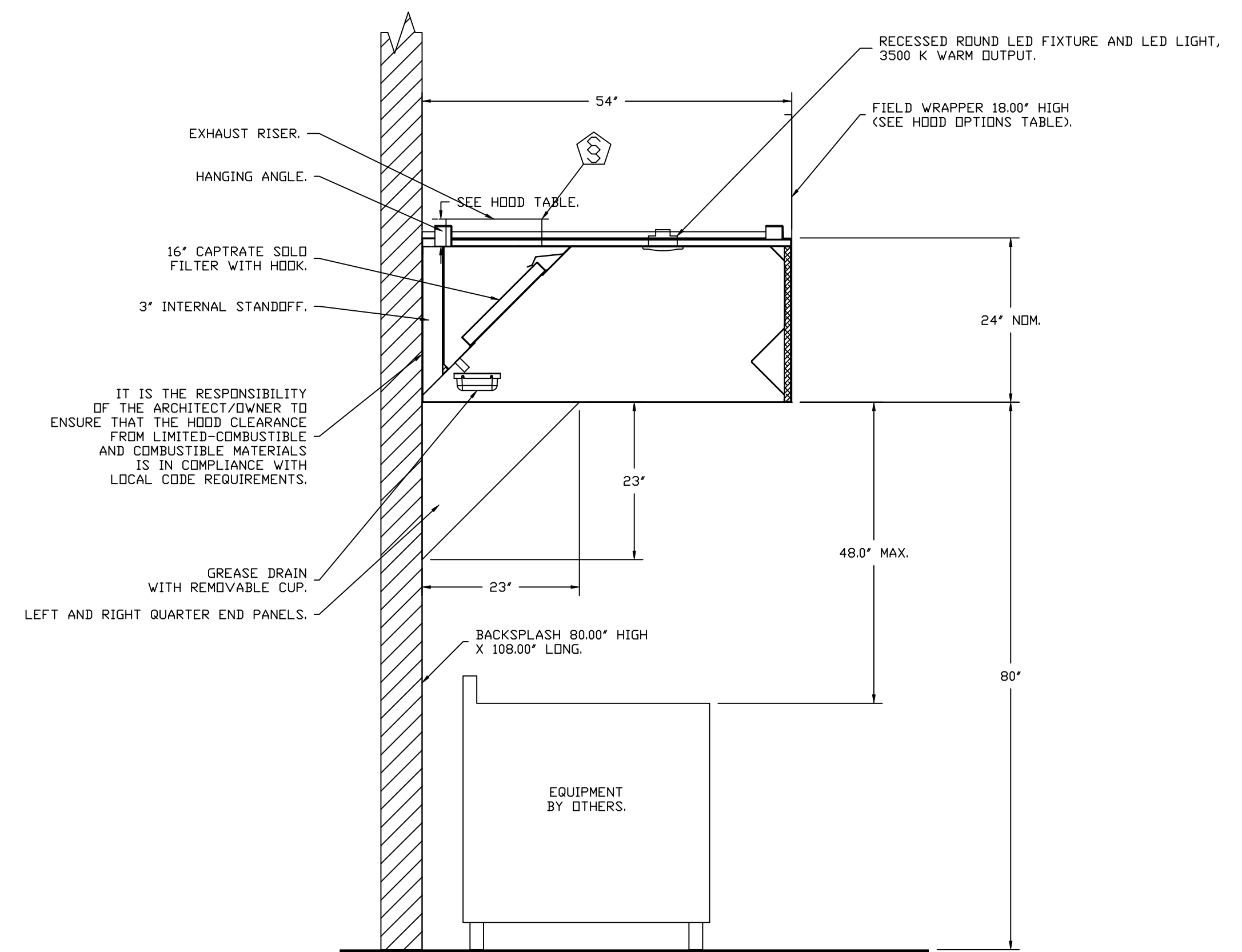
APPROVED AS NOTED

APPROVED WITH NO EXCEPTION TAKEN

REVISE AND RESUBMIT

SIGNATURE _____ DATE _____

YOUR TITLE _____



SECTION VIEW - MODEL 5424ND-2
HOOD - #1 (Hd-1)

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE

Austin Office
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CEFCO #47 Eddy, TX - RTU - 10
I-35 Frontage Road,
Eddy, TX, 76524

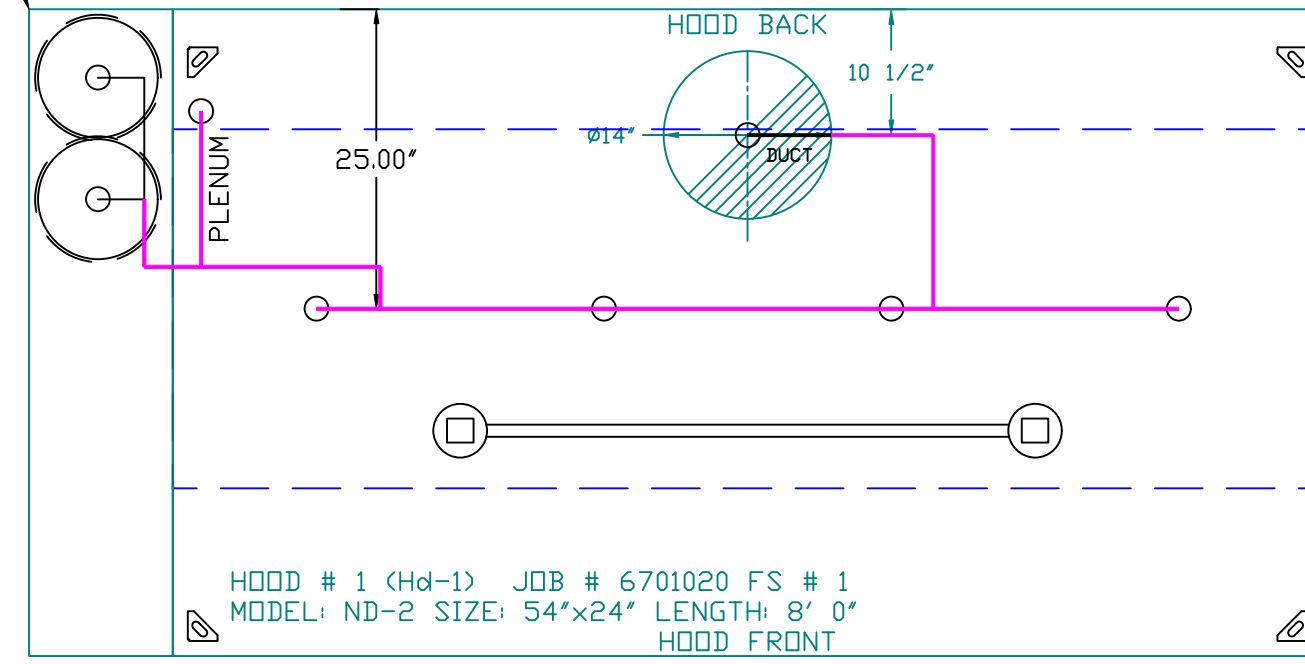
DATE: 3/27/2024
DWG.#: 6701020
DRAWN BY: JLB-47
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

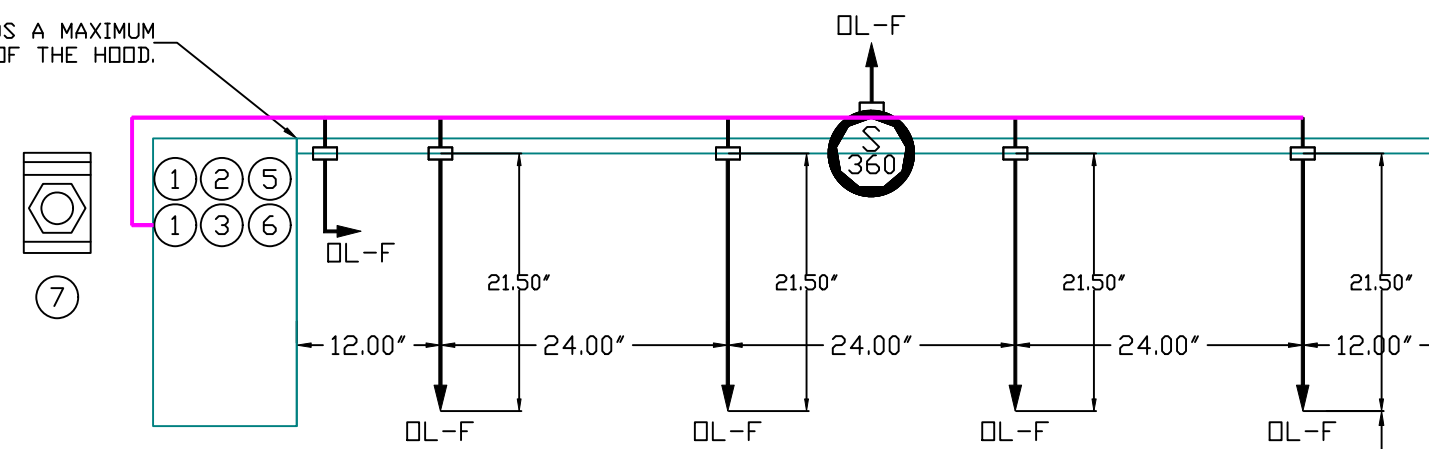
FIRE SYSTEM INFORMATION – JOB#6701020

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

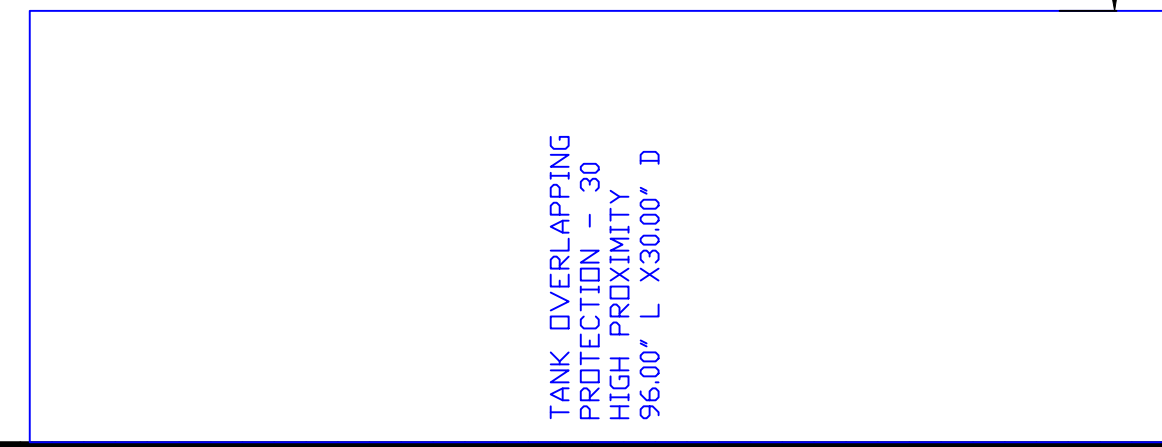
- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS



FACTORY PIPING EXTENDS A MAXIMUM OF 6\"/>



NOZZLE HEIGHT
35-50\"/>



FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 32-00002 QUIK SEAL - 1/2\"/>	1	0
		0 - 0 - 4429K153 1/2\"/>	2	0
		0 - 0 - 4429K422 1/2\"/>	1	0
		0 - 0 - 79525 1/2\"/>	1	0
		0 - 0 - 79580 1/2\"/>	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5\"/>	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	5	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16\"/>	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5\"/>	1	0
		0 - 0 - A31484 1/4\"/>	1	0
		0 - 0 - B1145 3/8\"/>	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2\"/>	6	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8\"/>	6	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6\"/>

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 6701020.
JOB NAME: CEFCO #47 EDDY, TX - RTU - 10.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 28, MAXIMUM FP: 40.
HOOD # 1 8' 0.00\"/>

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

REVISIONS

DESCRIPTION	DATE:

www.captivefire.com

Austin Office

11200 Manchaca Rd., Suite 302, Austin, TX 78748 PHONE: (512) 539-0483 FAX: 9197475622 EMAIL: reg47@captivefire.com

CEFCO #47 Eddy, TX - RTU - 10

I-35 Frontage Road,
Eddy, TX, 76524

DATE: 3/27/2024

DWG.#:
6701020

DRAWN BY: JLB-47

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
2

EXHAUST FAN INFORMATION - JOB#6701020

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF-1	1	DUB5HFA	CAPTIVEAIRE	1800	1.200	1454	TEAD-ECM	1.000	0.5440	1	115	11.6	570 FPM	129	13.7

DOAS/RTU FAN SCHEDULE - JOB#6701020

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION				ELECTRICAL INFORMATION				COOLING INFORMATION						REHEAT INFORMATION				ELECTRIC HEAT INFORMATION					NOTES									
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MDCP	OUTSIDE AIR DB	OUTSIDE AIR WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	LEAVING AIR DP	TOTAL	SENS.	IEER	ISMRE	DISCHARGE DB		DISCHARGE WB	CAPACITY DESIRED	CAPACITY MAX	MOISTURE REMOVAL RATE	DSGN. KW'S	MAX. KW'S	VOLTS	AMPS	TEMP RISE
2	RTU-1	1	CASRTU2-E.302-18-10T	CAPTIVEAIRE	18MF-2-RTU	1240	760	2000	1943	0.800	2.00	3	208	127.7A	150A	98.0°F	74.0°F	83.7°F	66.9°F	45.0°F	44.9°F	44.9°F	125.2 MBH	84.2 MBH	18.6	4.3	70.0°F	56.0°F	55.3 MBH	96 MBH	35.5 LBS/HR	26	30	240	72.2	45 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
3	RTU-2	1	CASRTU2-E.302-18-10T	CAPTIVEAIRE	18MF-2-RTU	2400	1000	3400	1973	0.800	5.00	3	208	92.9A	100A	98.0°F	74.0°F	81.7°F	65.8°F	51.8°F	51.7°F	51.7°F	143.5 MBH	110.3 MBH	18.6	4.3	70.0°F	60.1°F	67.8 MBH	96 MBH	28.4 LBS/HR	28	30	240	72.2	28 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
4	RTU-3	1	CASRTU2-E.302-18-10T	CAPTIVEAIRE	18MF-2-RTU	2400	1000	3400	1973	0.800	5.00	3	208	92.9A	100A	98.0°F	74.0°F	81.7°F	65.8°F	51.8°F	51.7°F	51.7°F	143.5 MBH	110.3 MBH	18.6	4.3	70.0°F	60.1°F	67.8 MBH	96 MBH	28.4 LBS/HR	28	30	240	72.2	28 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

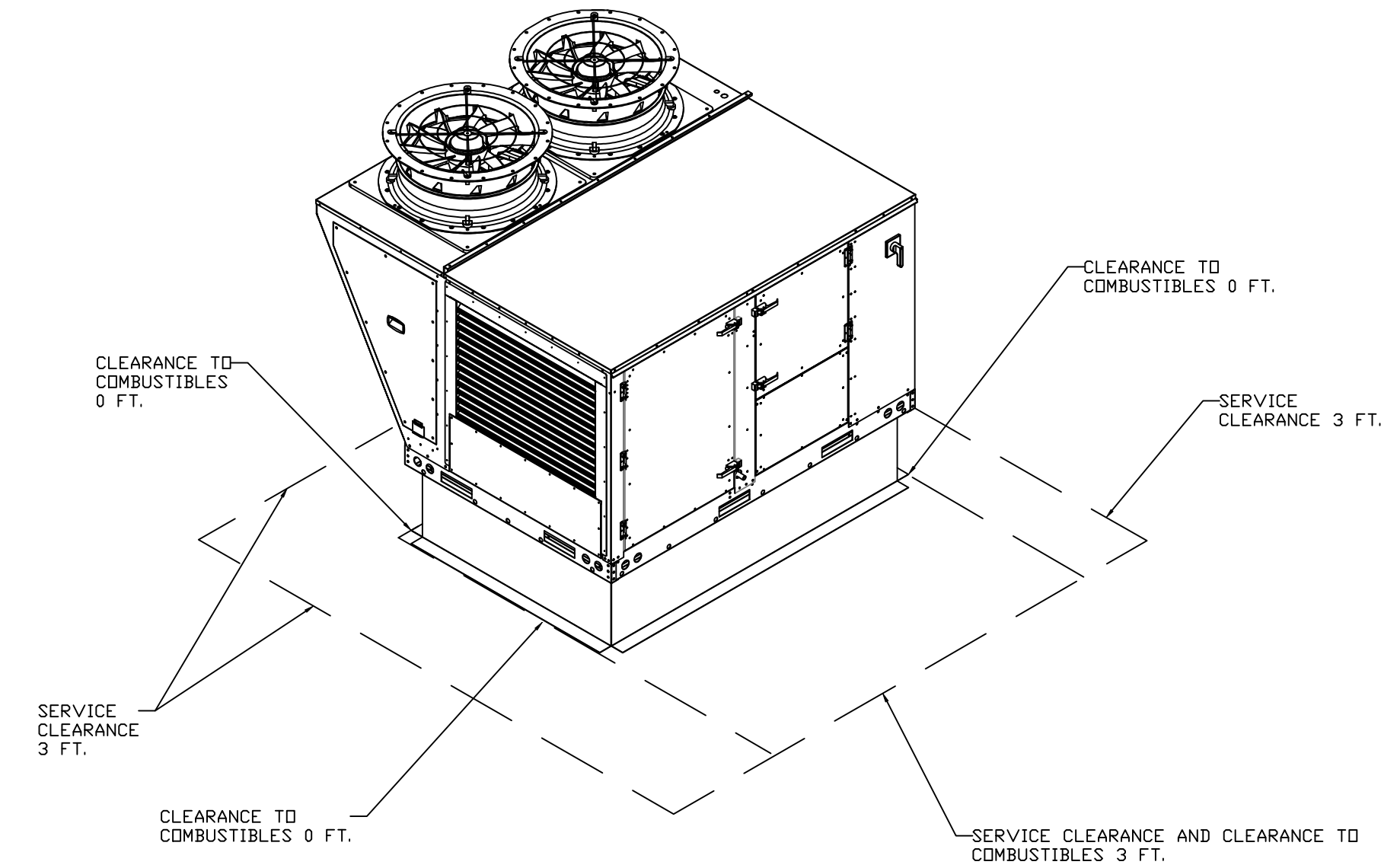
- NOTES:**
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
 2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
 3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
 4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
 5. EC MOTOR CONDENSING FANS
 6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
 7. SUCTION LINE ACCUMULATOR
 8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY
 9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
 10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
 11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
 12. FULLY MODULATING HOT GAS REHEAT
 13. 15 DEGREE LOW AMBIENT OPERATION
 14. HAIL GUARD FOR CONDENSING COIL
 15. BAROMETRIC RELIEF DAMPER
 16. DOWN DISCHARGE/DOWN RETURN
 17. SINGLE POINT POWER CONNECTION FOR UNIT & ELECTRIC HEATER

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION	FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX	4	RTU-3	1	OCCUPIED SCHEDULING
		1	FULL CRATING FOR EXHAUST FANS			1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS			1	RTU2 HAIL GUARD
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION			1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	2 YEAR PARTS WARRANTY			1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
2	RTU-1	1	RTU TOTAL CFM MONITORING			1	24VAC FIRE INPUT
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED			1	120V FIRE INPUT
		1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)			1	RTU2 ECONMIZER BAROMETRIC RELIEF
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)			1	10 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	OVERHEAT STAT			1	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE			1	RTU INTAKE/RETURN DAMPER - DA PERCENTAGE CONTROL
		1	RTU2 DOWN DISCHARGE ELECTRIC HEAT			1	DAMPER PRESET POSITIONS
		1	10 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS			1	DISCHARGE FIRESTAT SET TO 240°F
		1	AUXILIARY REHEAT - ELECTRIC HEATER			1	FREEZESTAT
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS			1	INTAKE FIRESTAT SET TO 135°F
		1	SINGLE POINT CONNECTION - ELECTRIC HEATER RTU, BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE			1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT
		1	RTU2 CURB DUCT HANGER			1	RTU TOTAL CFM MONITORING
		1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT			1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	OCCUPIED SCHEDULING			1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT
		1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX			1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)
		1	RTU2 ECONMIZER BAROMETRIC RELIEF			1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)
		1	RTU INTAKE/RETURN DAMPER - DA PERCENTAGE CONTROL			1	OVERHEAT STAT
		1	DAMPER PRESET POSITIONS			1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	RTU2 HAIL GUARD			1	RTU2 DOWN DISCHARGE ELECTRIC HEAT
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)			1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
1	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL	1	RTU2 HAIL GUARD				
1	RTU2 DOWN RETURN	1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX				
1	24VAC FIRE INPUT	1	OCCUPIED SCHEDULING				
1	DISCHARGE FIRESTAT SET TO 240°F	1	SINGLE POINT CONNECTION - ELECTRIC HEATER RTU, BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE				
1	FREEZESTAT	1	RTU2 DOWN RETURN				
1	INTAKE FIRESTAT SET TO 135°F	1	RTU2 CURB DUCT HANGER				
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT	1	24VAC FIRE INPUT				
3	RTU-2	1	RTU TOTAL CFM MONITORING			1	120V FIRE INPUT
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED			1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT			1	RTU2 ECONMIZER BAROMETRIC RELIEF
		1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)			1	10 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)			1	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	OVERHEAT STAT			1	RTU INTAKE/RETURN DAMPER - DA PERCENTAGE CONTROL
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE			1	DAMPER PRESET POSITIONS
		1	RTU2 DOWN DISCHARGE ELECTRIC HEAT			1	DISCHARGE FIRESTAT SET TO 240°F
		1	RTU2 CURB DUCT HANGER			1	FREEZESTAT
		1	RTU2 DOWN RETURN			1	INTAKE FIRESTAT SET TO 135°F
1	SINGLE POINT CONNECTION - ELECTRIC HEATER RTU, BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT				

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						



REVISIONS

DESCRIPTION	DATE

CAPTIVEAIR
www.captiveaire.com

Austin Office
11200 Manchaca Rd., Suite 302, Austin, TX 78748 PHONE: (512) 539-0483 FAX: 9197475622 EMAIL: reg4@captiveaire.com

CEFCO #47 Eddy, TX - RTU - 10
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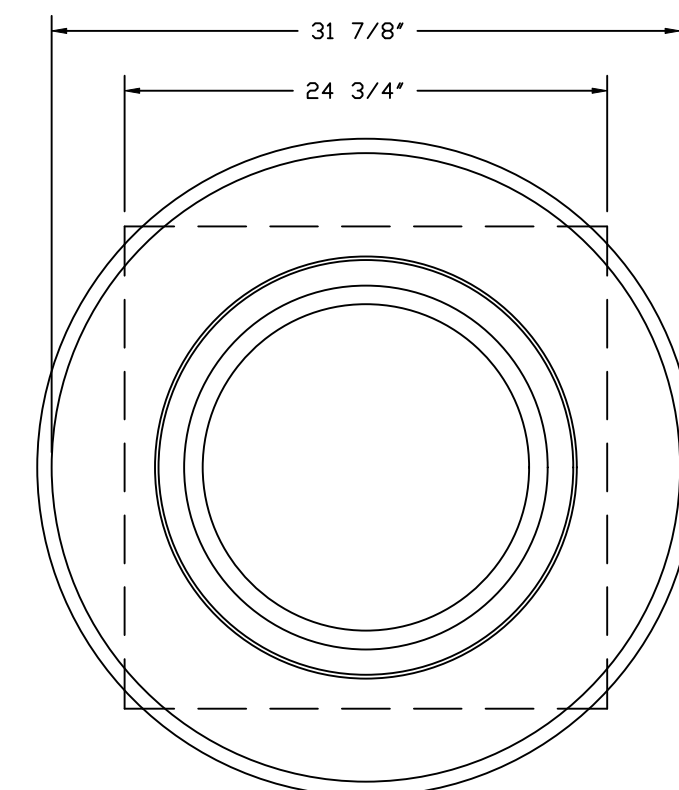
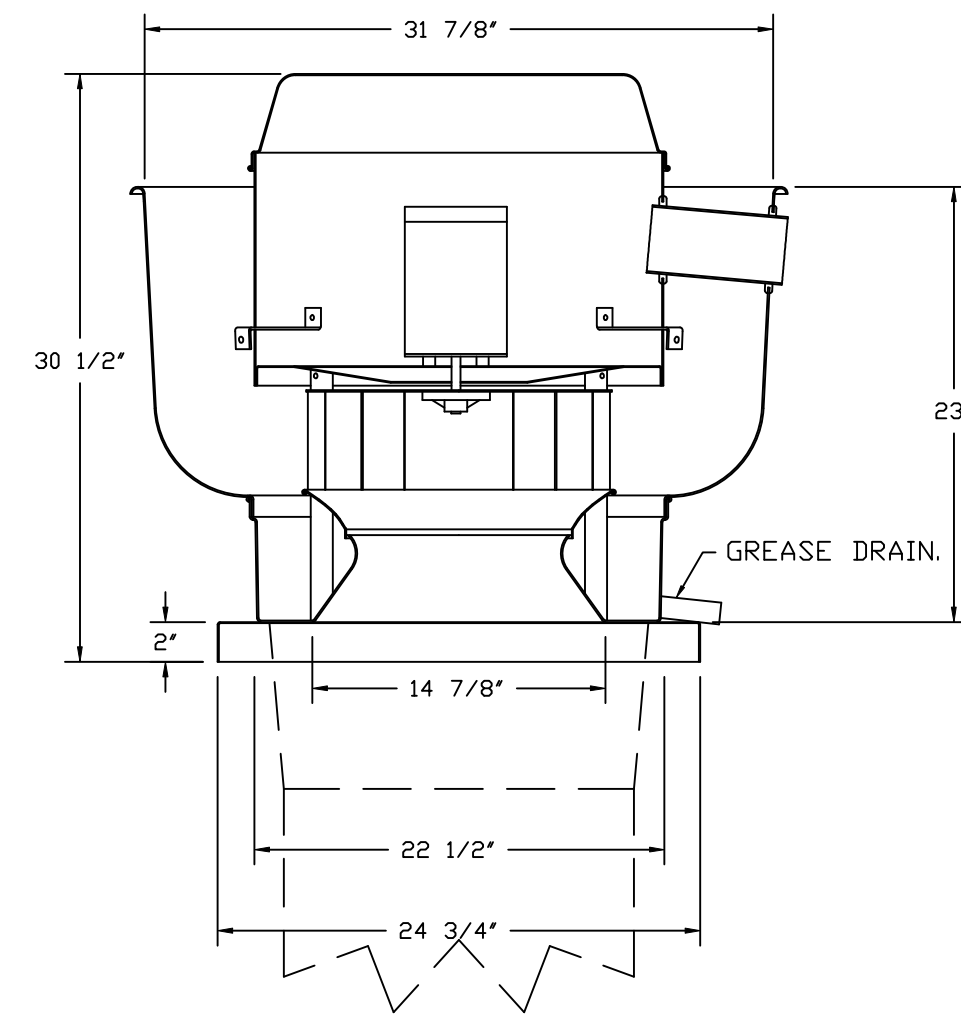
SHEET NO.
3

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	44 LBS	CURB	23.000"W X 23.000"L X 26.000"H VENTED HINGED.
2	# 2	RTU-1	104 LBS	CURB	49.500"W X 75.000"L X 18.000"H INSULATED.
3	# 3	RTU-2	104 LBS	CURB	49.500"W X 75.000"L X 18.000"H INSULATED.
4	# 4	RTU-3	104 LBS	CURB	49.500"W X 75.000"L X 18.000"H INSULATED.

HMI SCHEDULE					
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS	
FAN #2	HMI #1 - UNIT	HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 - SPACE	HMI # 1	SPACE	AVERAGED	56
FAN #3	HMI #1 - UNIT	HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #3	HMI #2 - SPACE	HMI # 1	SPACE	AVERAGED	56
FAN #4	HMI #1 - UNIT	HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #4	HMI #2 - SPACE	HMI # 1	SPACE	AVERAGED	56

FAN #1 DUBSHFA - EXHAUST FAN (KEF-1)



TOP VIEW

FEATURES:

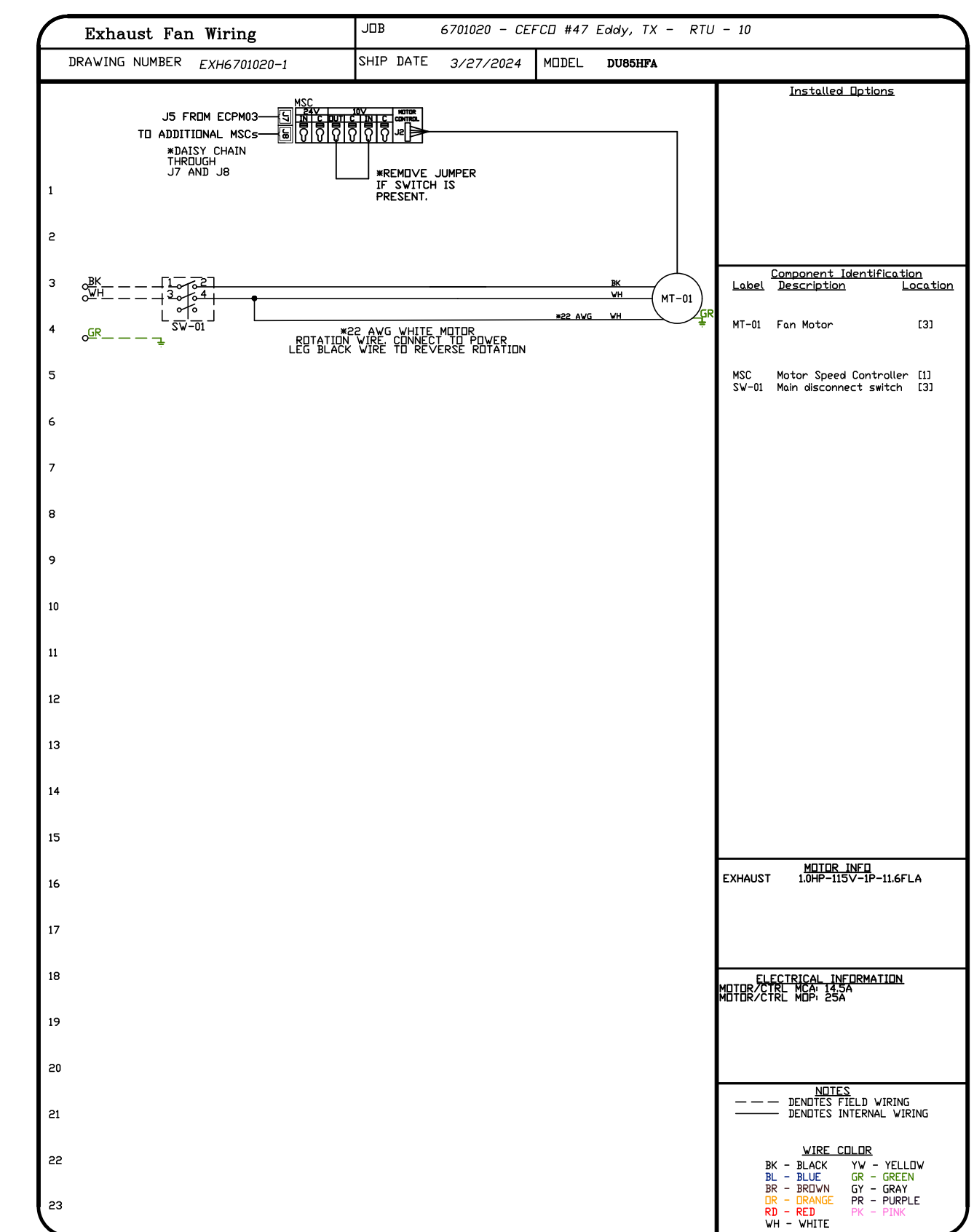
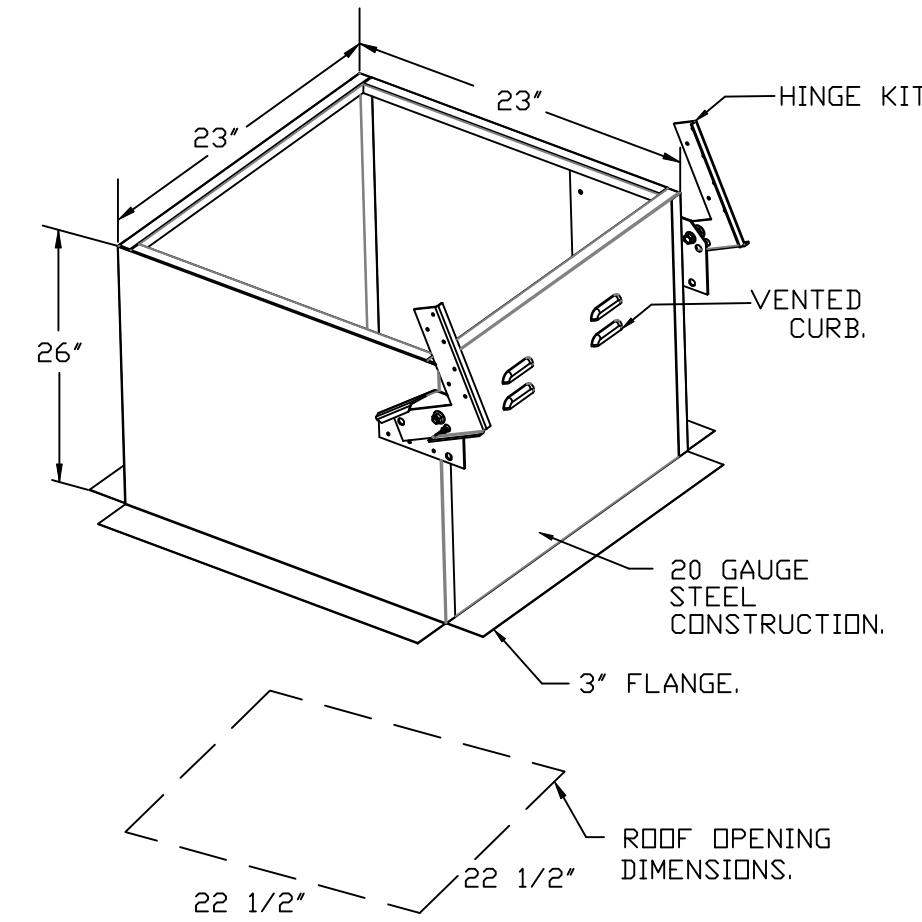
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

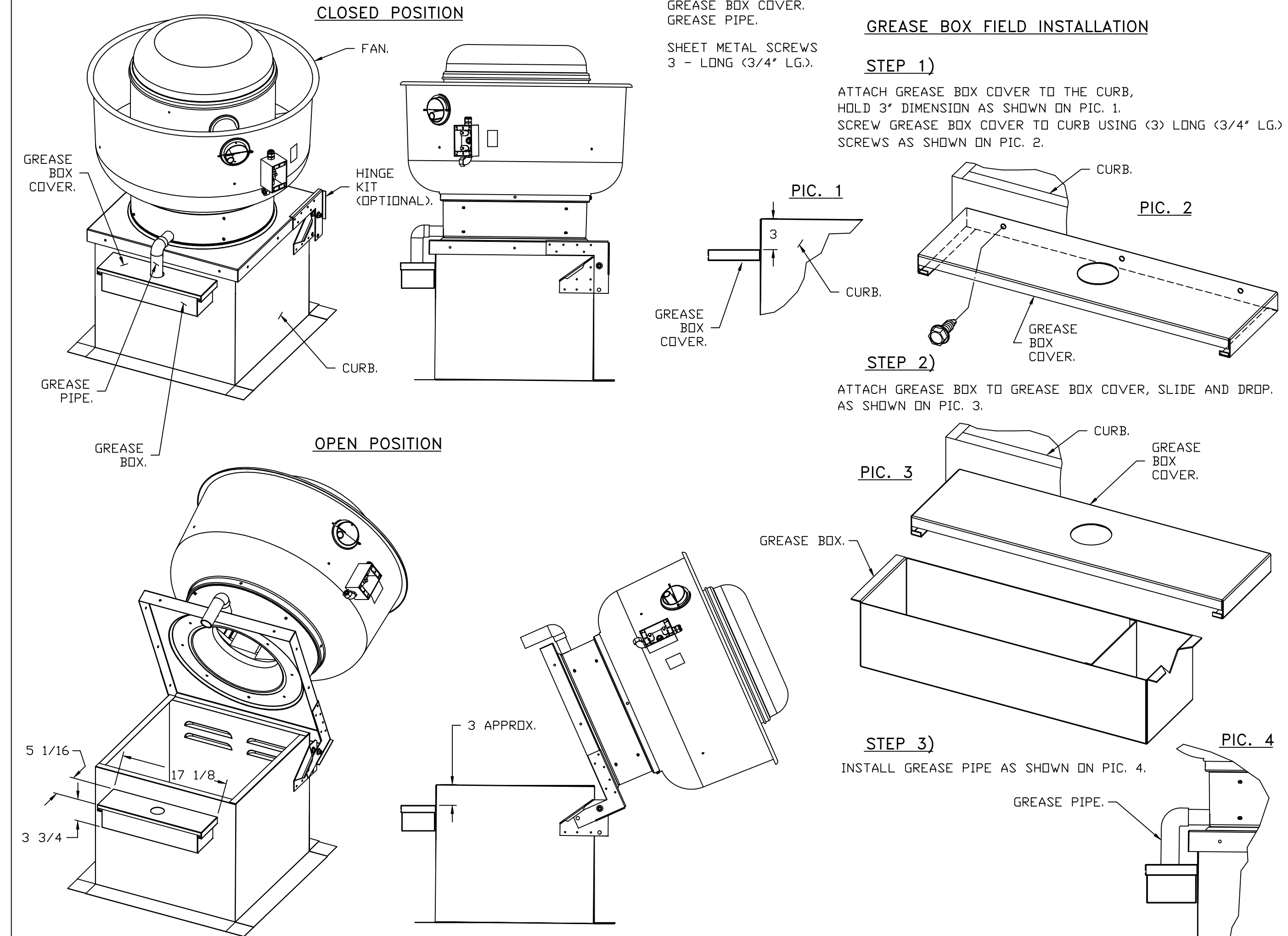
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FULL CRATING FOR EXHAUST FANS.
- FAN BASE CERAMIC SEAL - DU/DR85HFA
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCM ROTATION.
- 2 YEAR PARTS WARRANTY.



GREASE BOX INSTALLATION



*NOTE: UL 705 INSTALL.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

www.captiveair.com

Austin Office

11200 Manchaca Rd., Suite 302, Austin, TX, 78748 PHONE: (512) 639 - 0483 FAX: 9197475622 EMAIL: reg@captivair.com

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DATE: 3/27/2024

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MASTER DRAWING

SHEET NO. 4



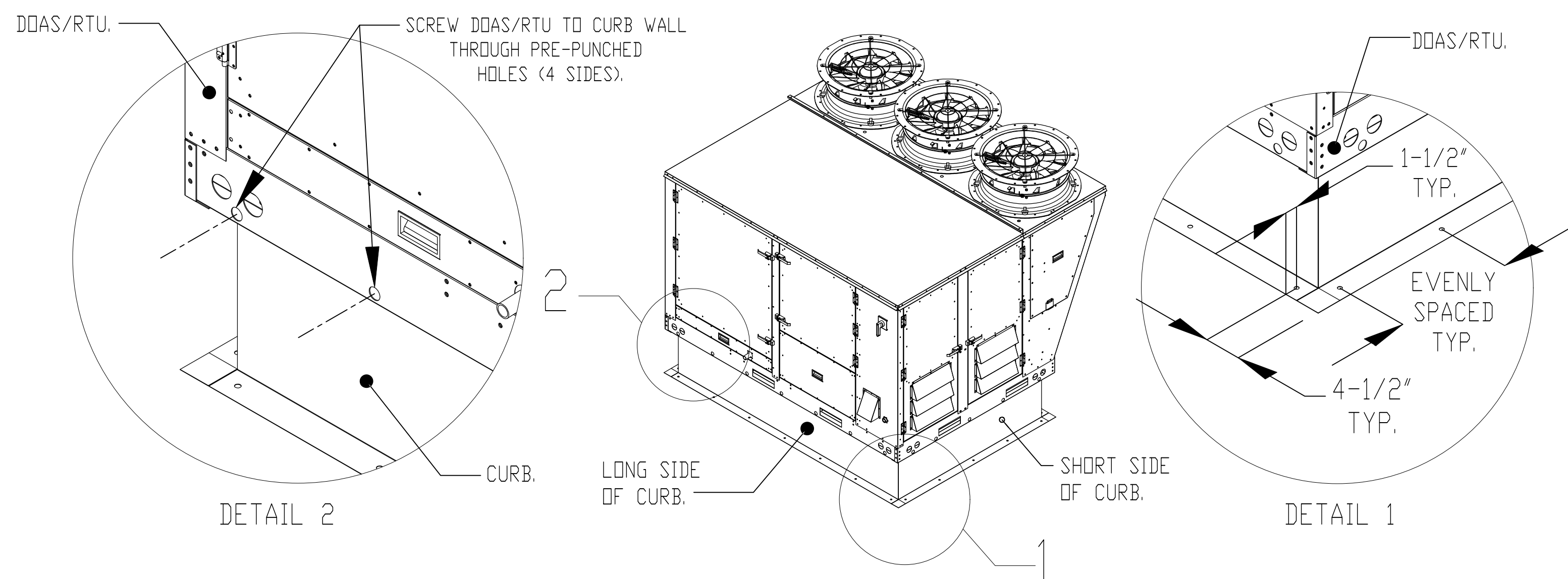
AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
 PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC).
 THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS.
 NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION.
 MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS.
 HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS - 5" THRU 24".
 HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS - 26" THRU 36".
 QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS.
 DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED.
 DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL "R" VALUE REQUIREMENTS.

Insulation R-Value Recommendations		
Supply Duct Type	Minimum R-value	Space Type
Single Wall - S & -HC	N/A	Conditioned Space Only
Double Wall - 1S	R-4	Unconditioned Interior Space Only
Double Wall - 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall - 3S	R-12	Unconditioned Space Climate Zones 5-8

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.
 AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES.
 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

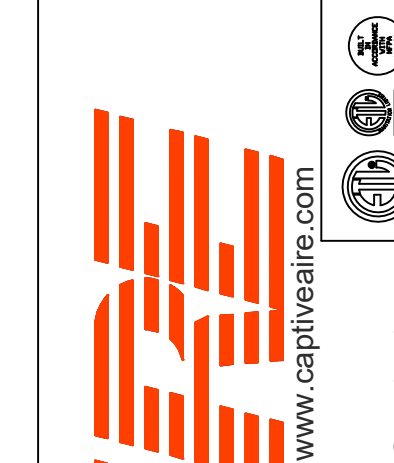
TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



REVISIONS

DESCRIPTION	DATE



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 Eddy, TX, 76524

DATE: 3/27/2024

DWG.#:
6701020

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SCALE:
3/4" = 1'-0"

MASTER DRAWING

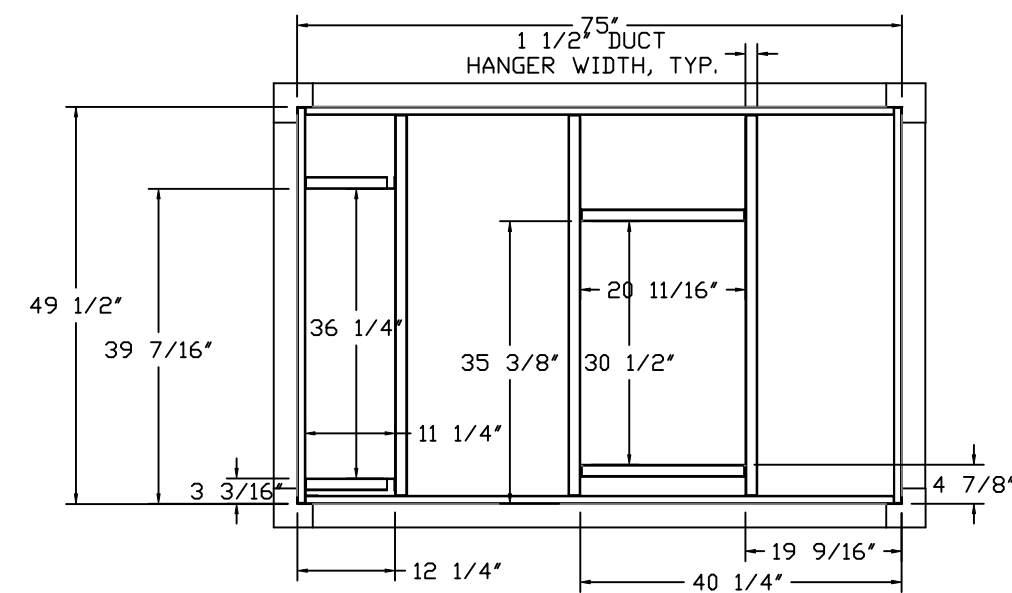
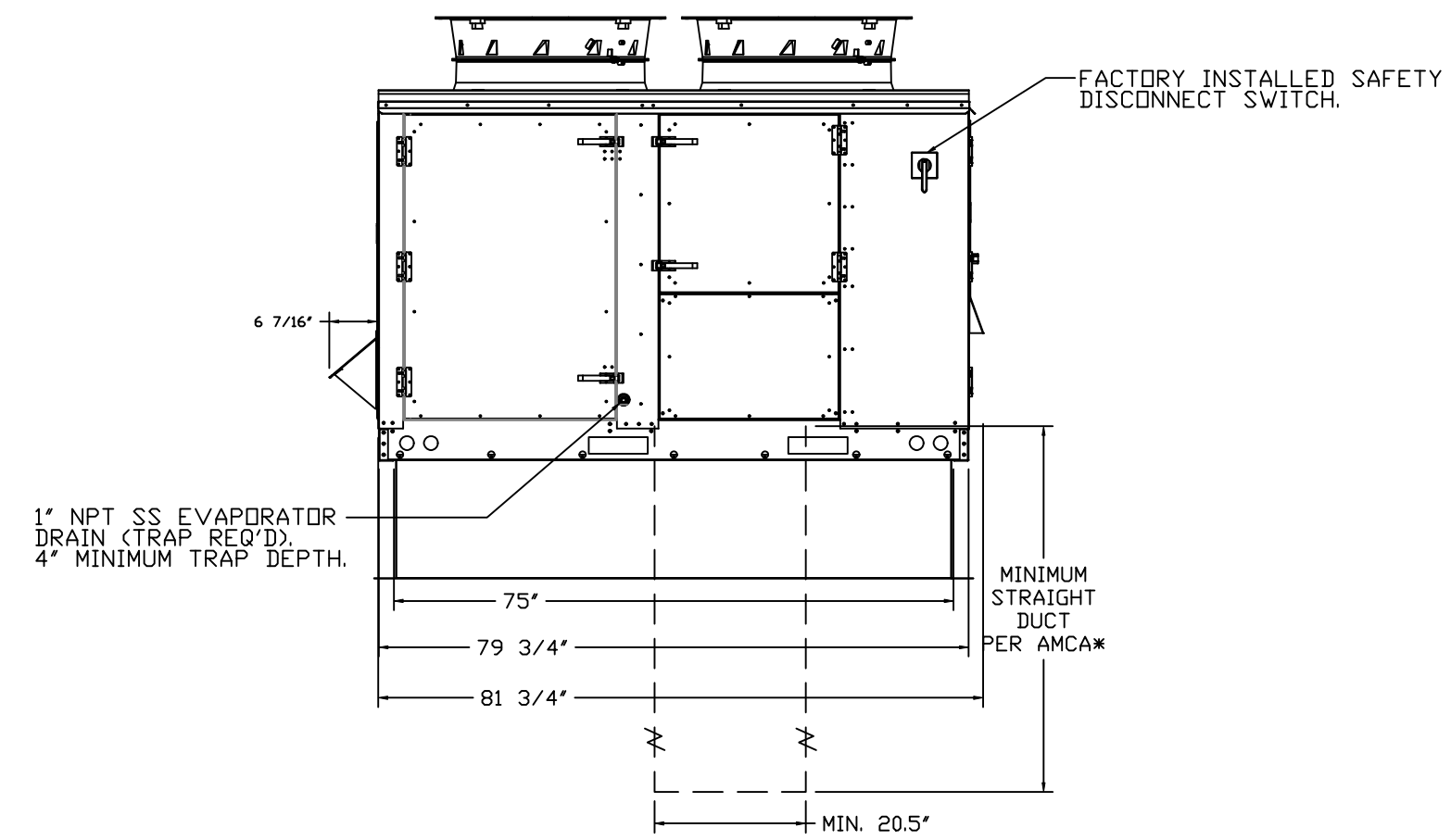
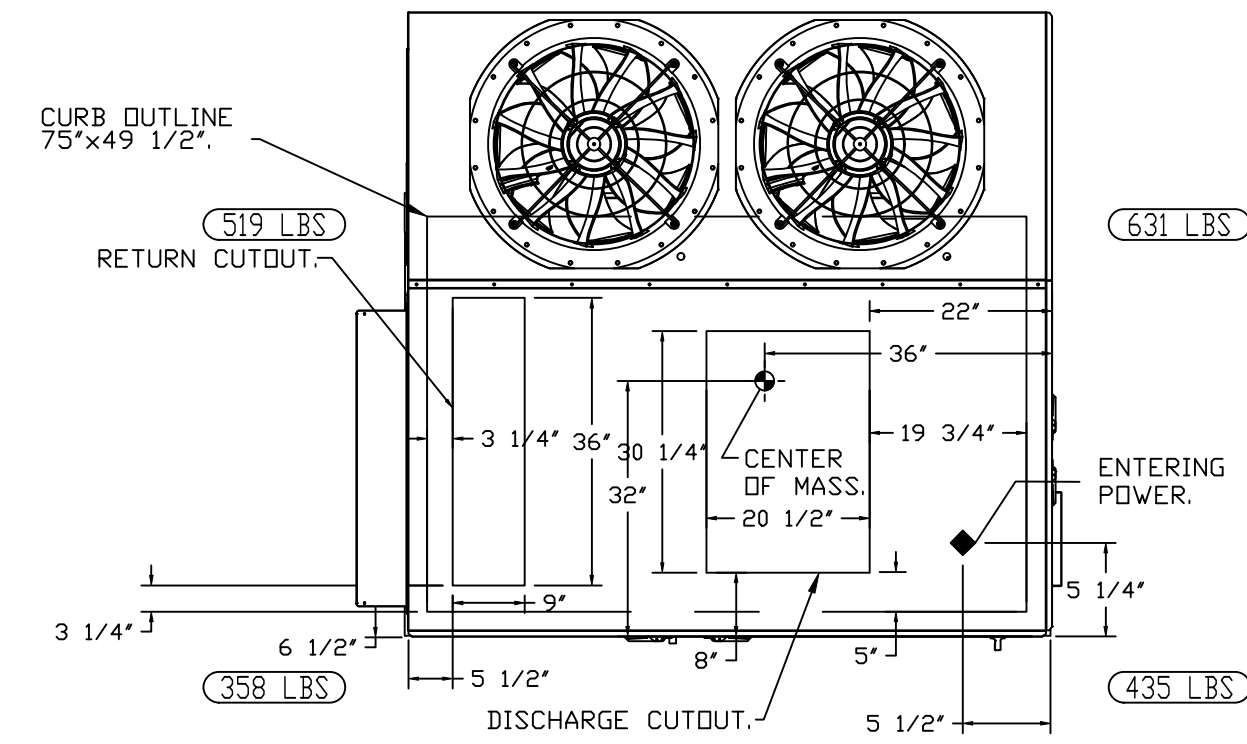
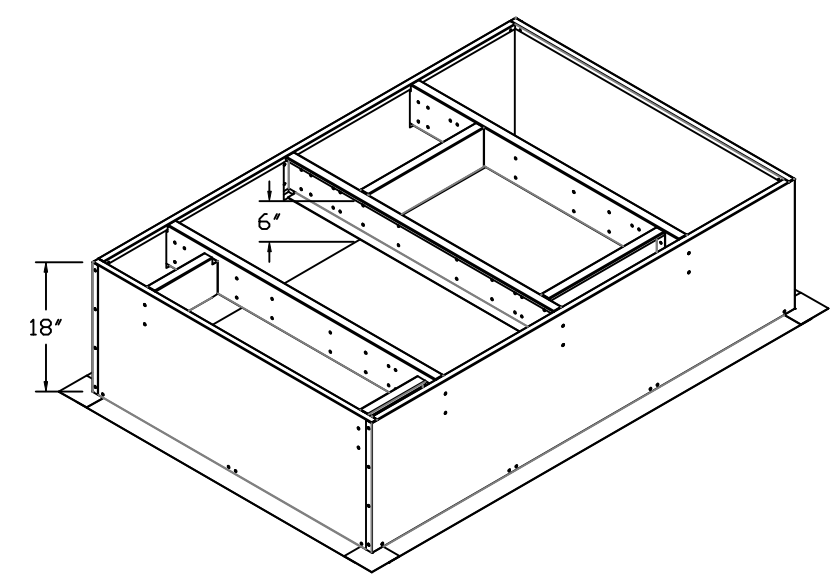
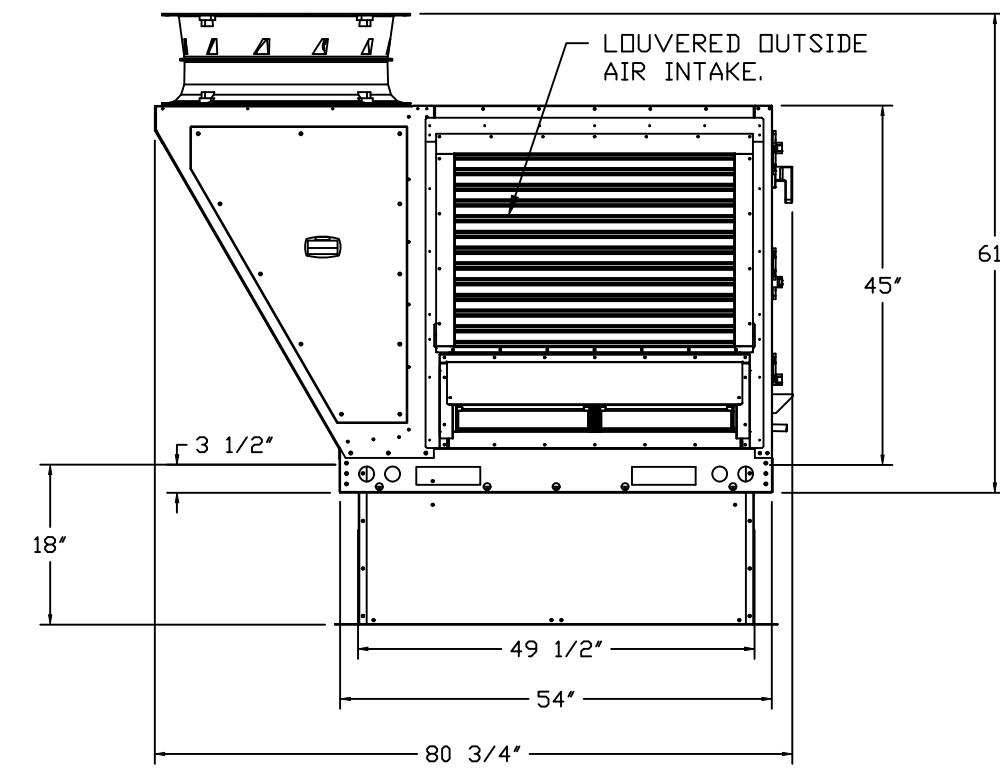
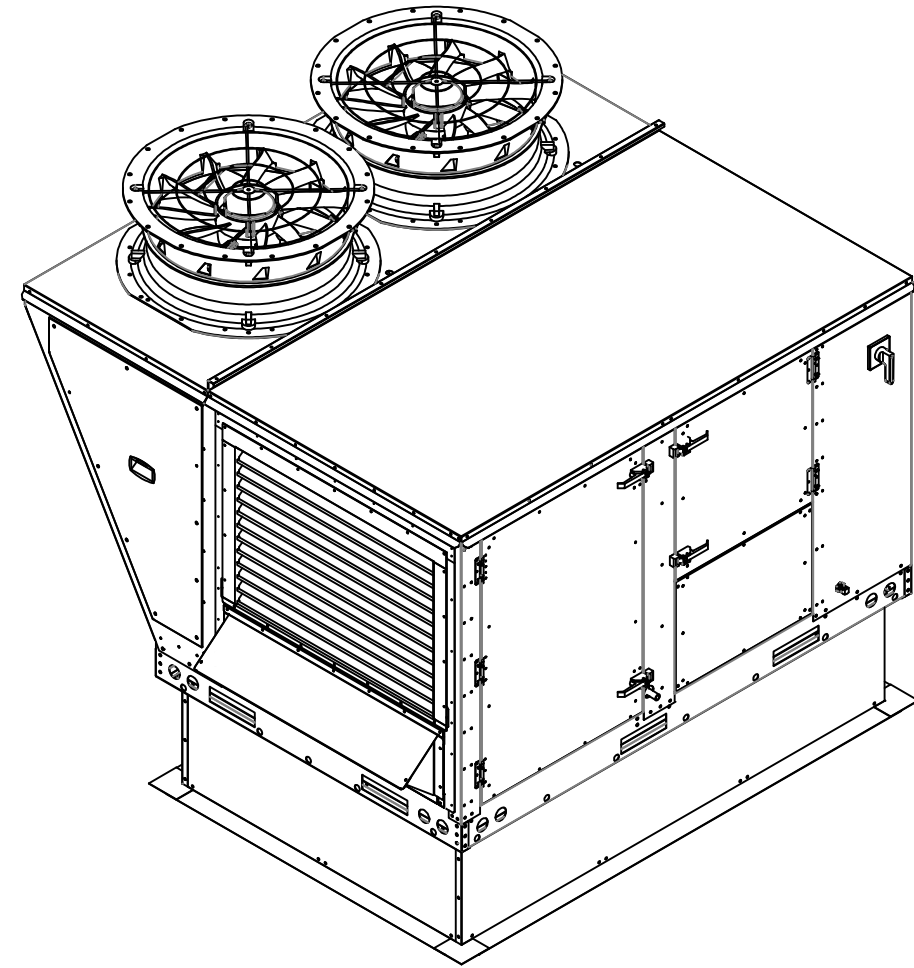
SHEET NO.
5

FAN #2 CASRTU2-E.302-18MF-10T - HEATER (RTU-1)

NOTES:

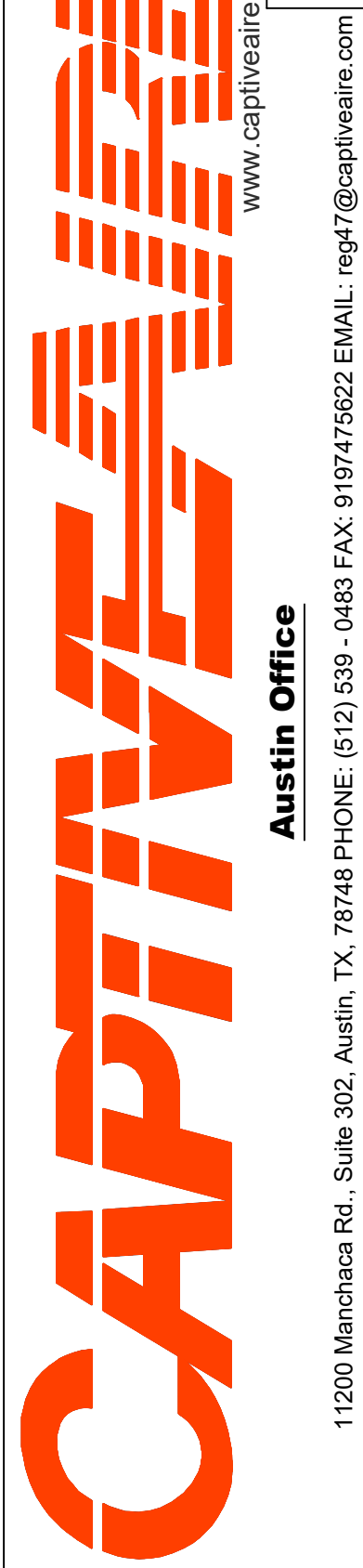
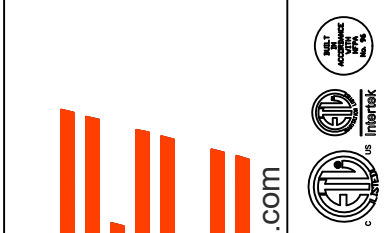
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20.5" x 30.25".



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DATE: 3/27/2024

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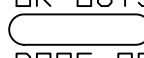
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1/2" = 1'-0"

MASTER DRAWING

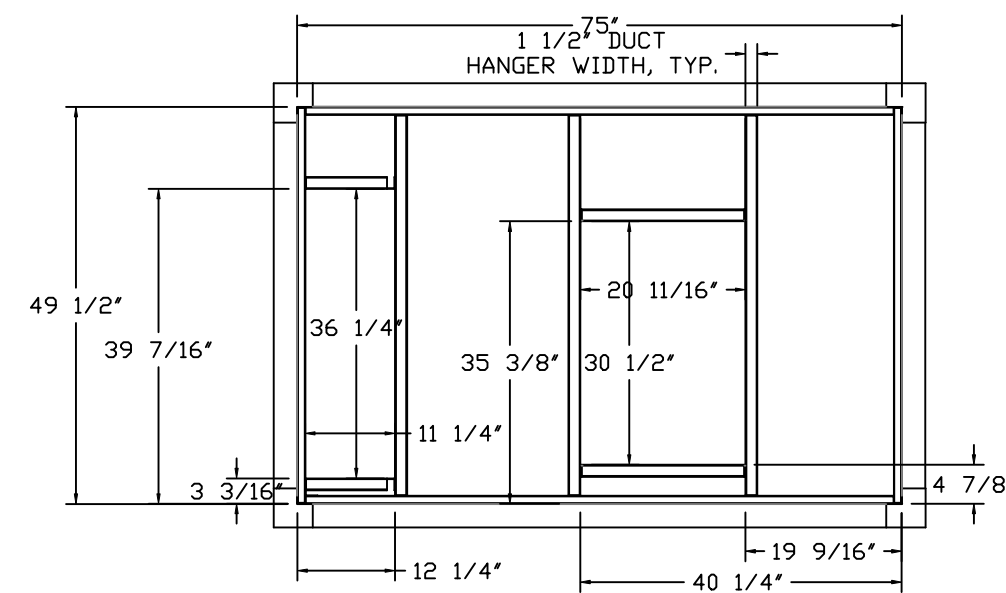
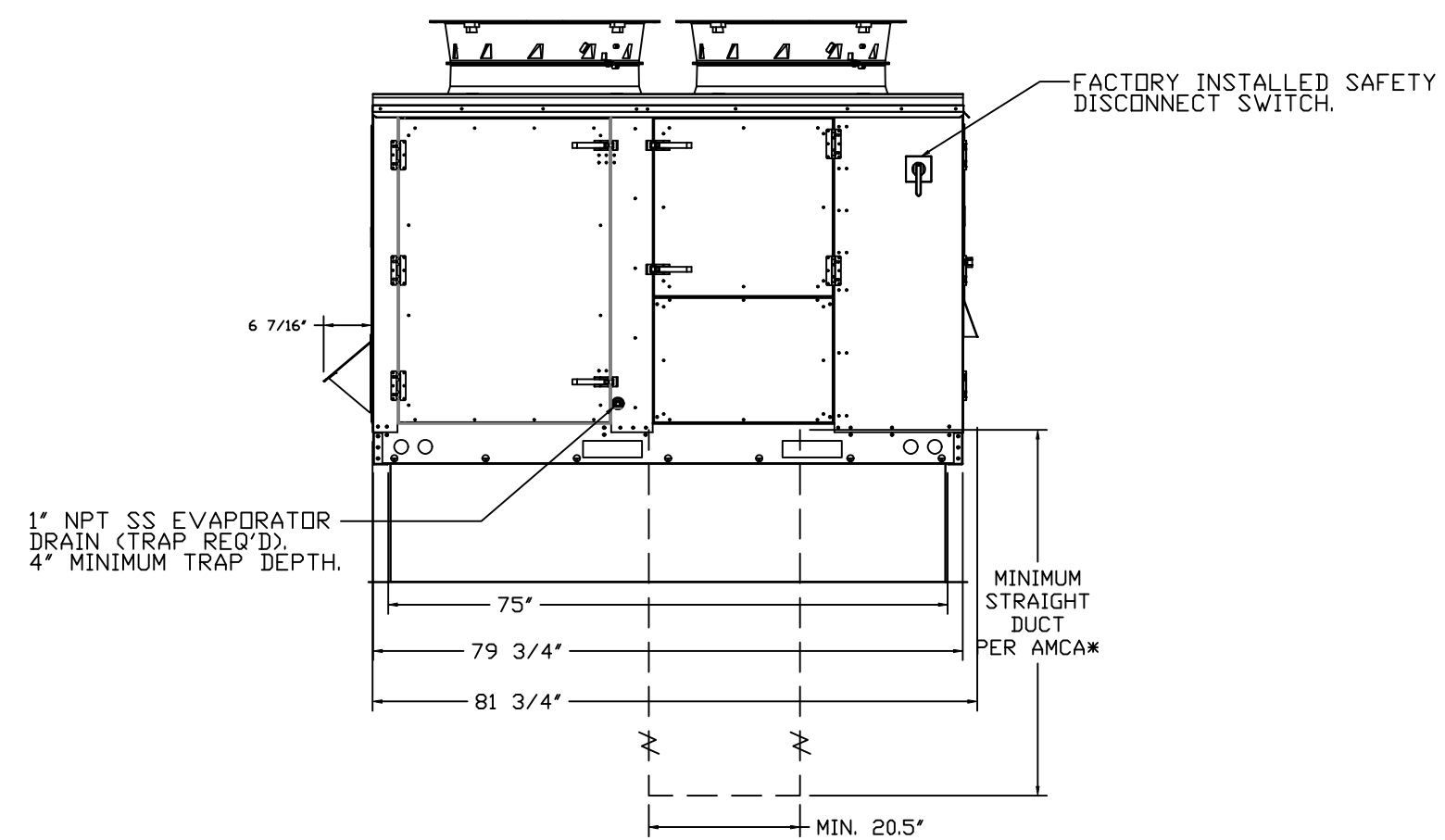
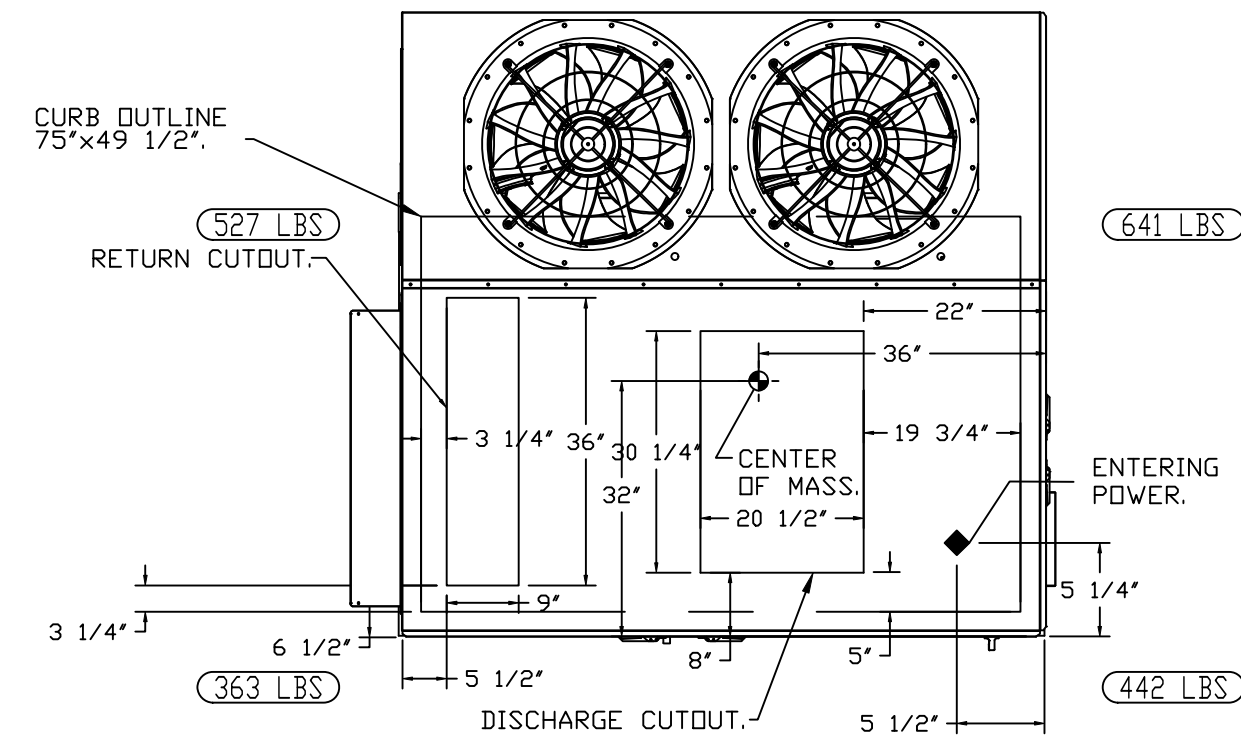
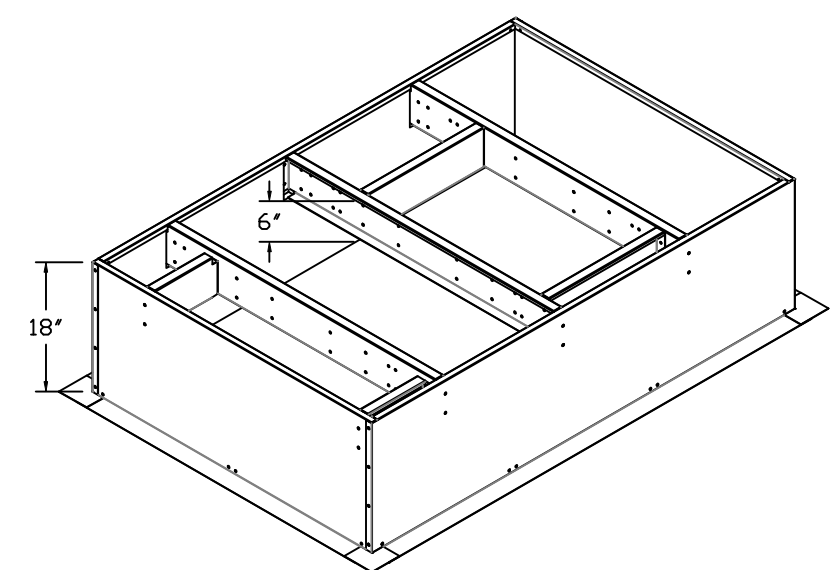
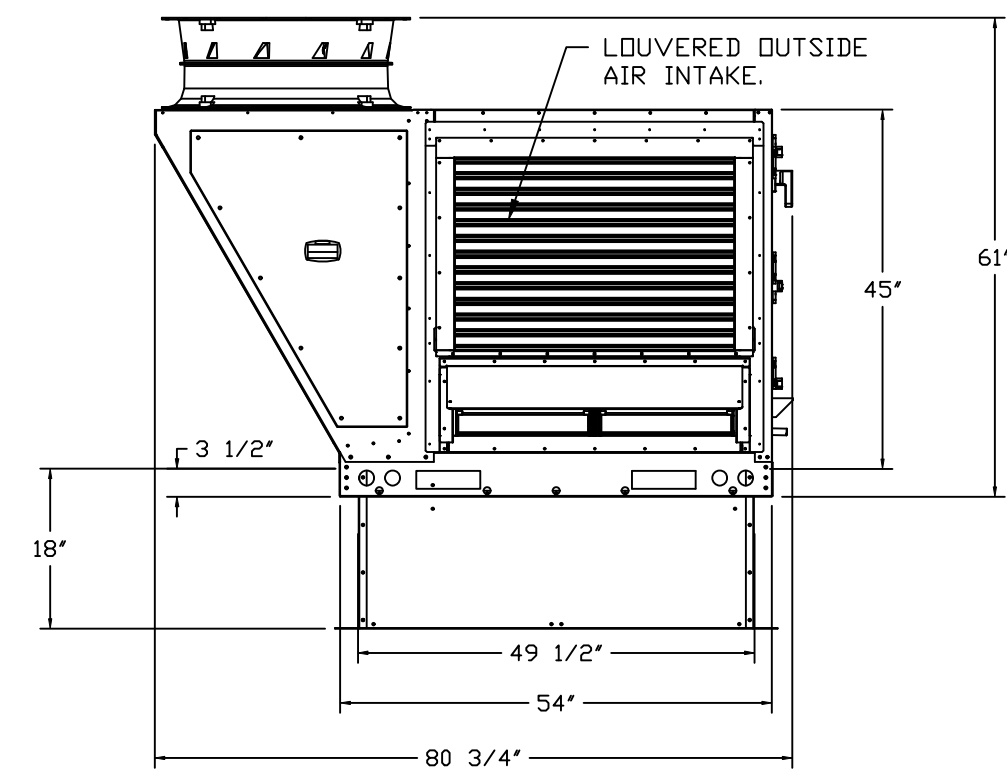
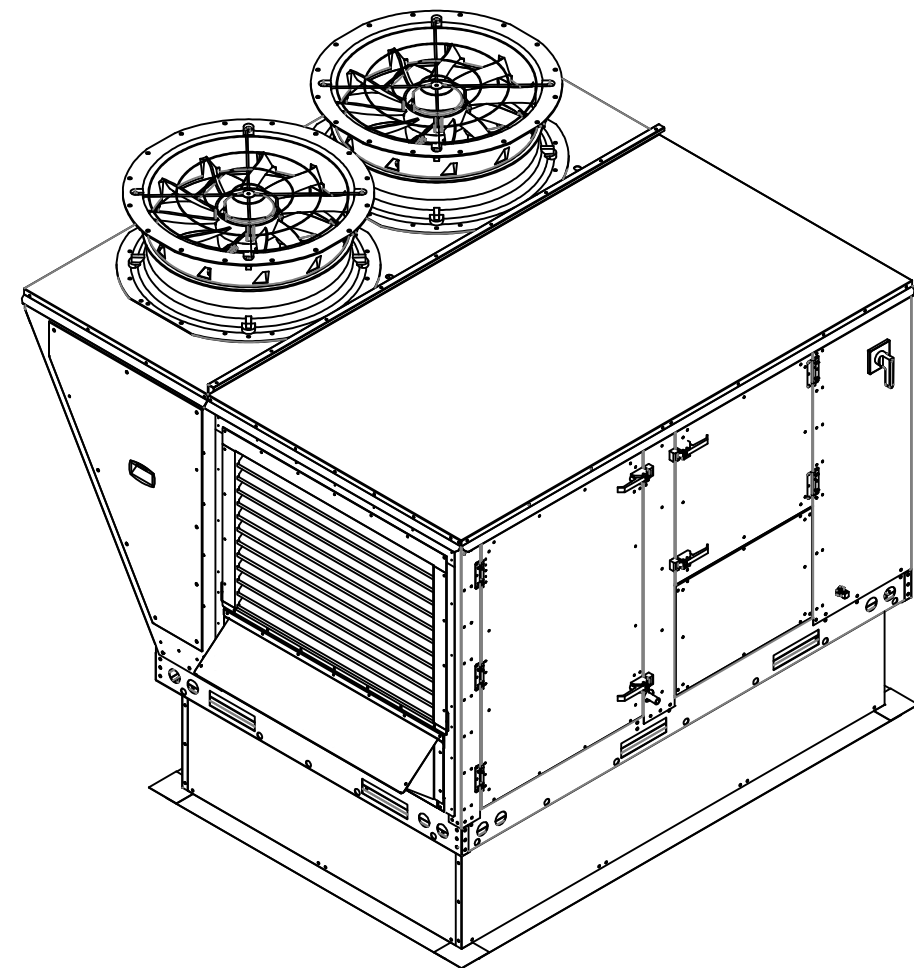
SHEET NO.
6

FAN #3 (RTU-2), #4 (RTU-3) - CASRTU2-E.302-18-10T HEATER

NOTES:

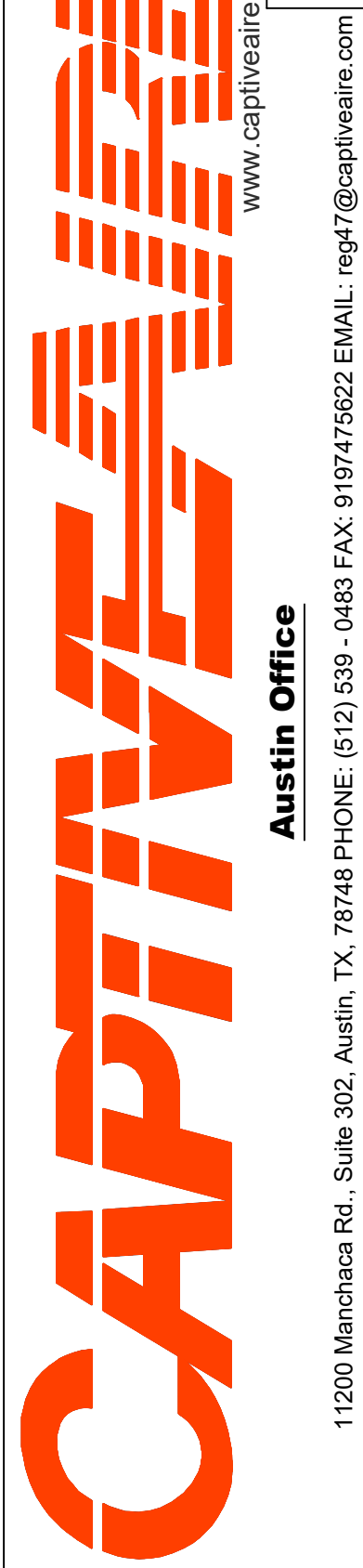
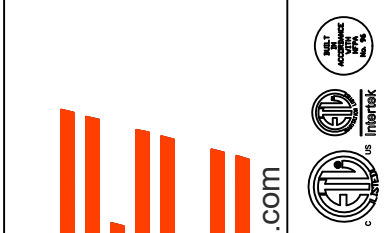
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20.5" x 30.25".



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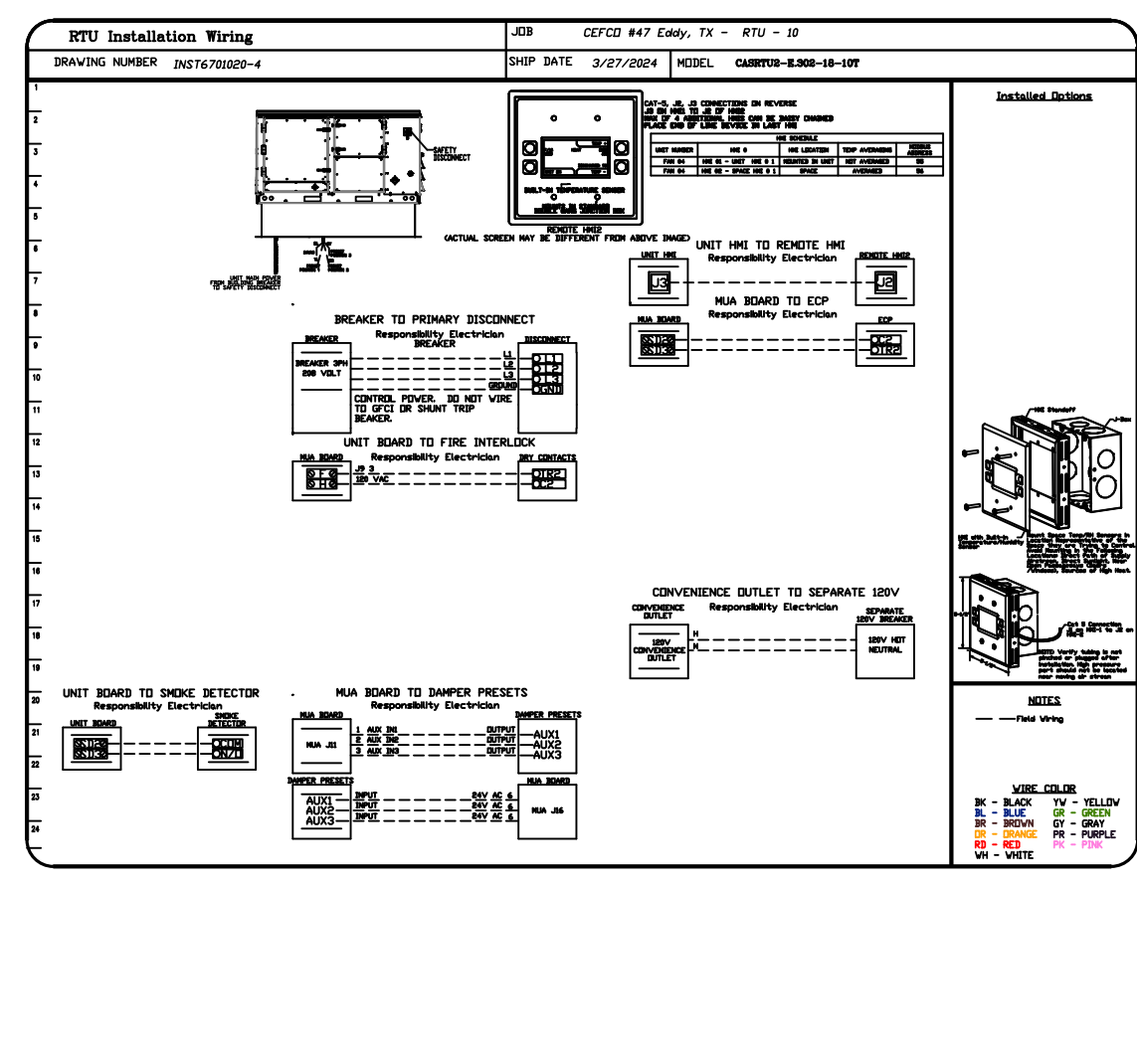
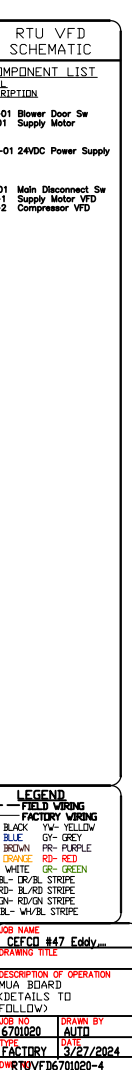
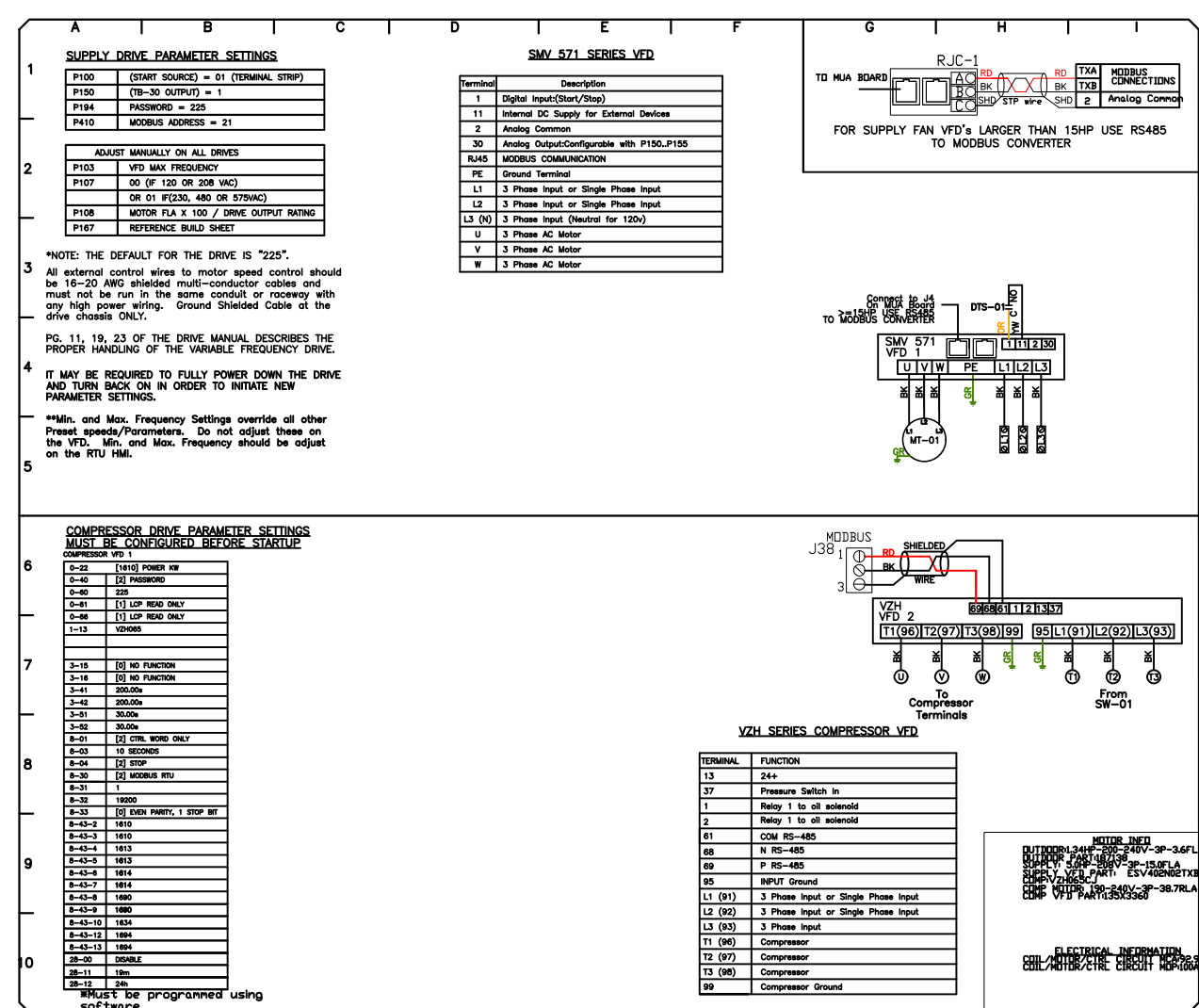
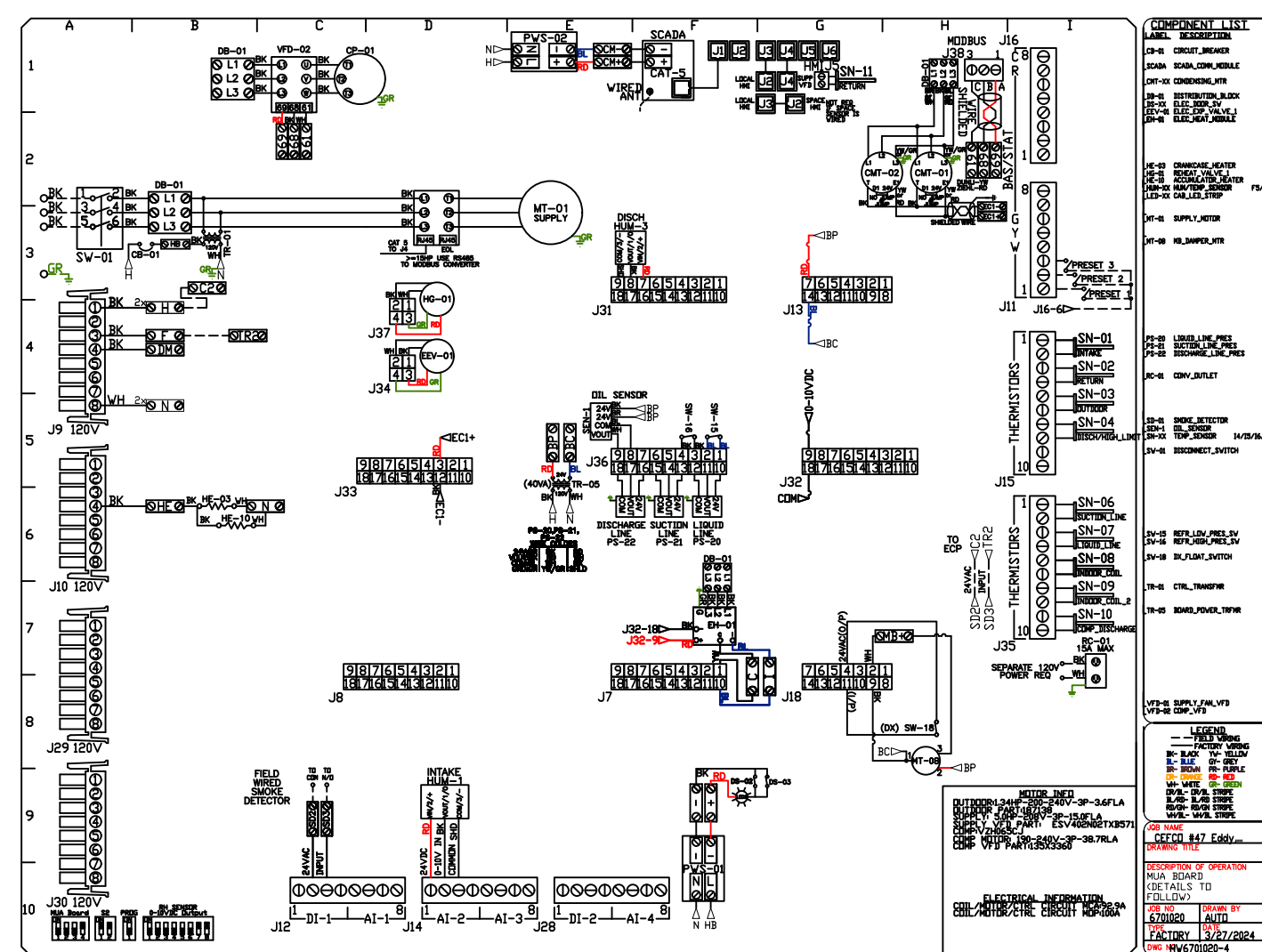
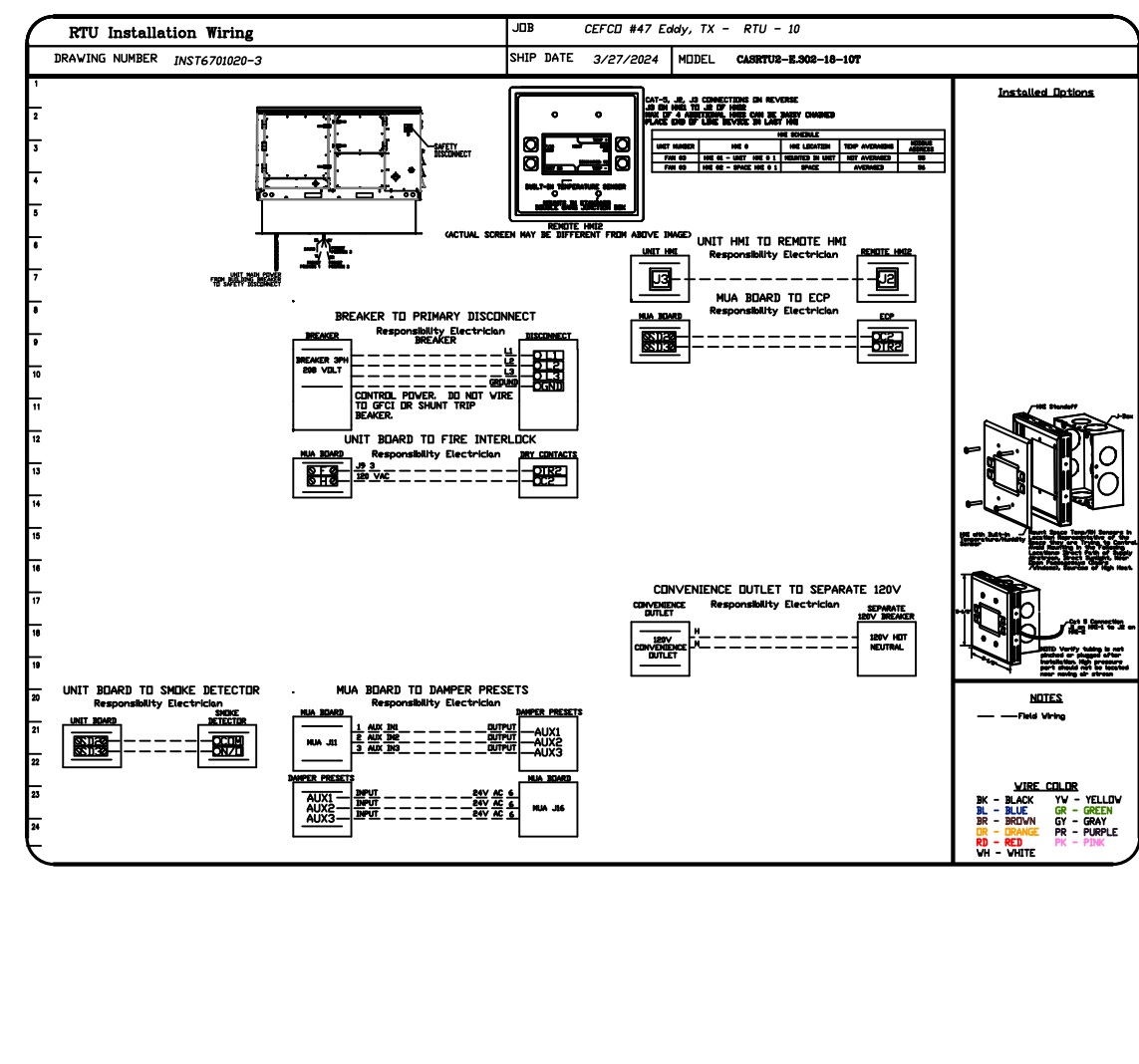
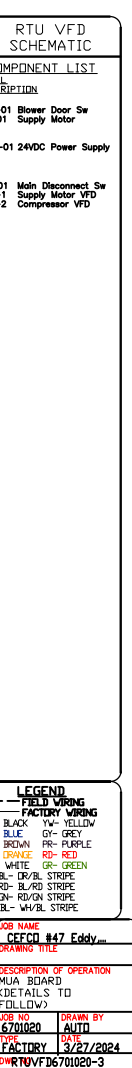
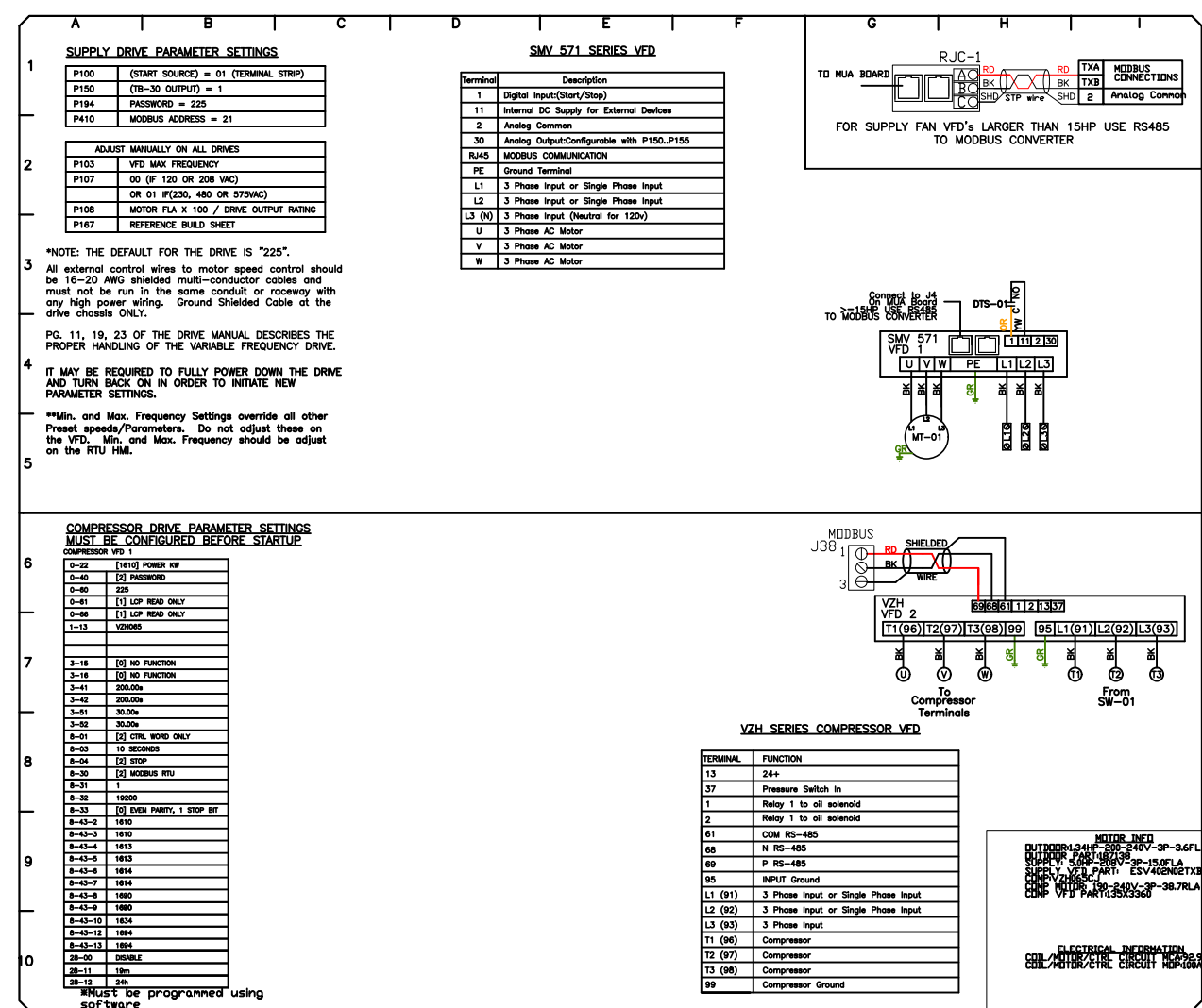
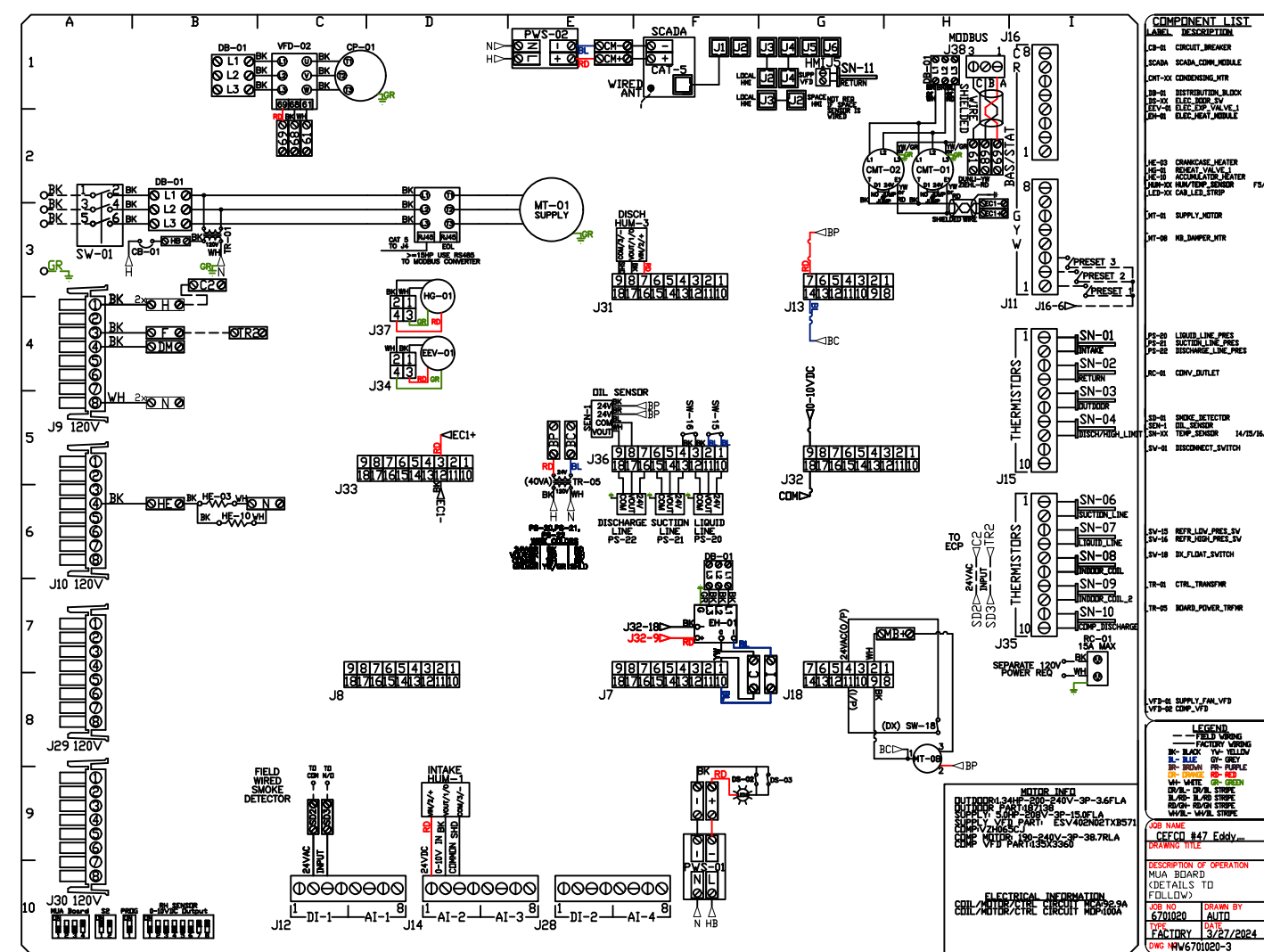
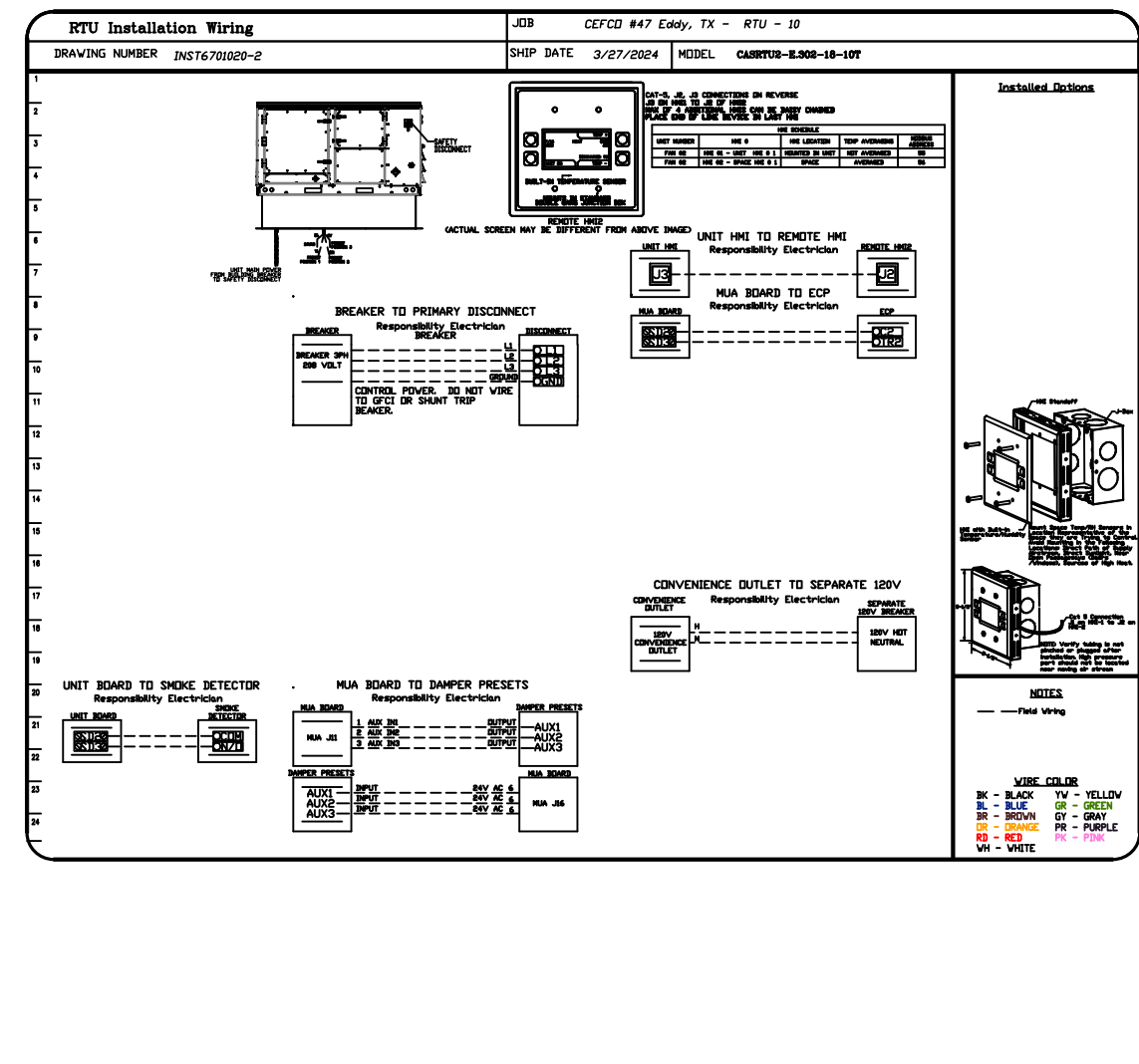
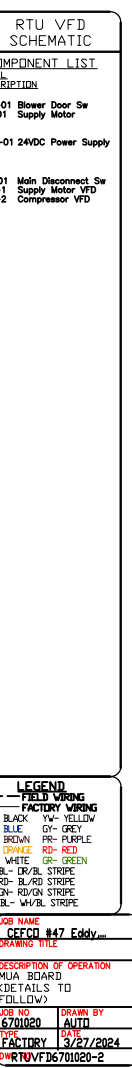
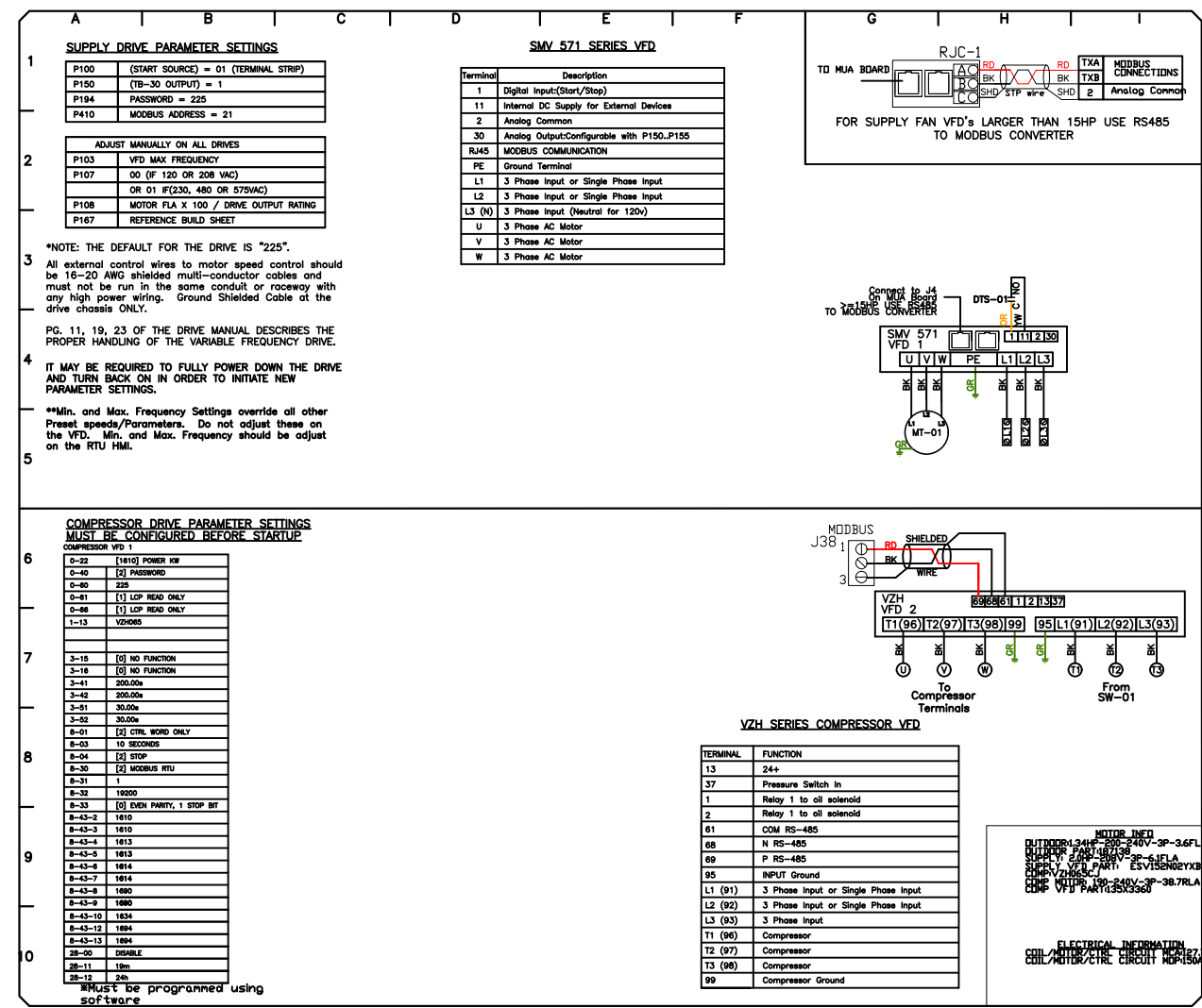
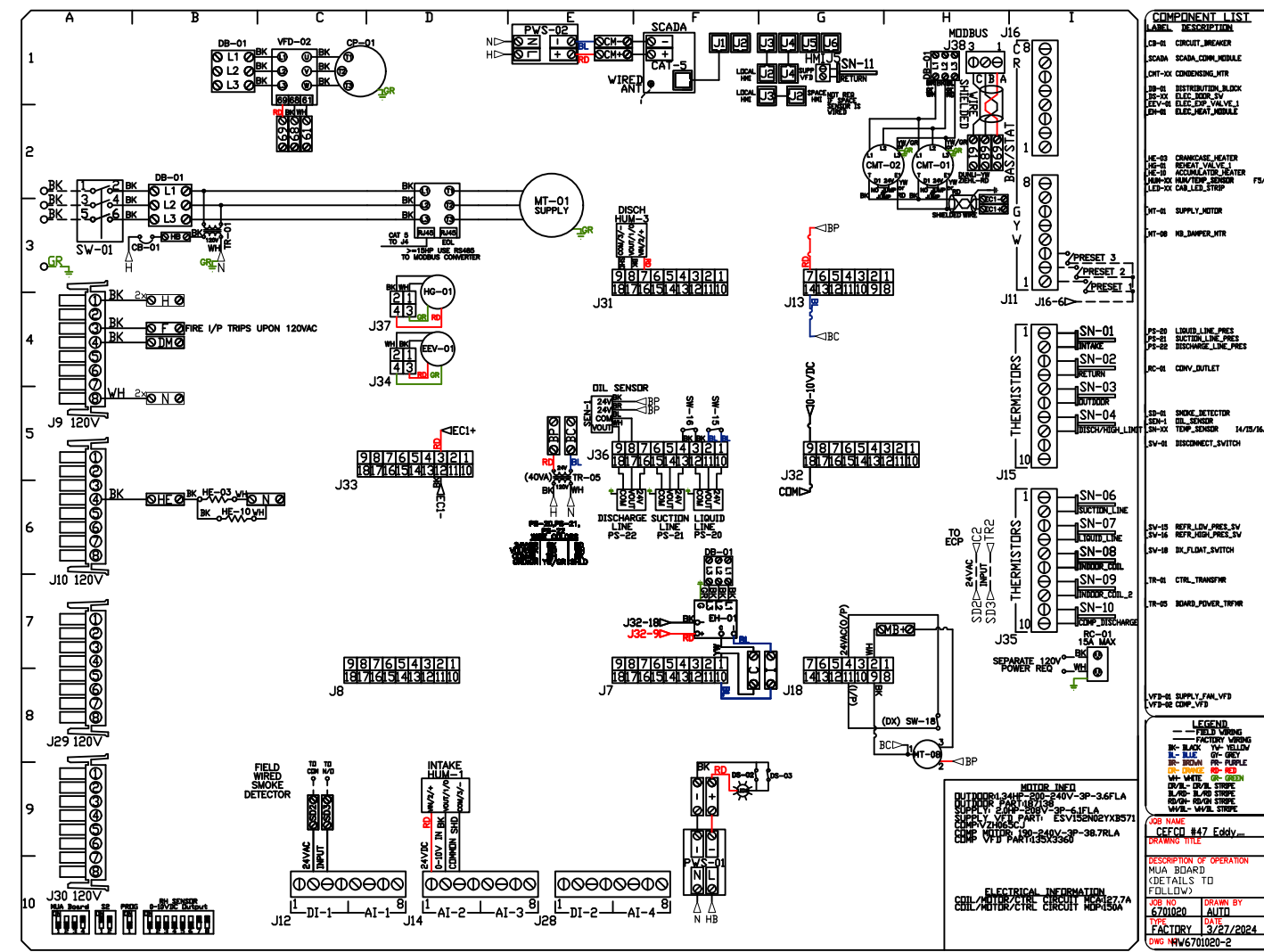
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SCALE:
1/2" = 1'-0"

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7



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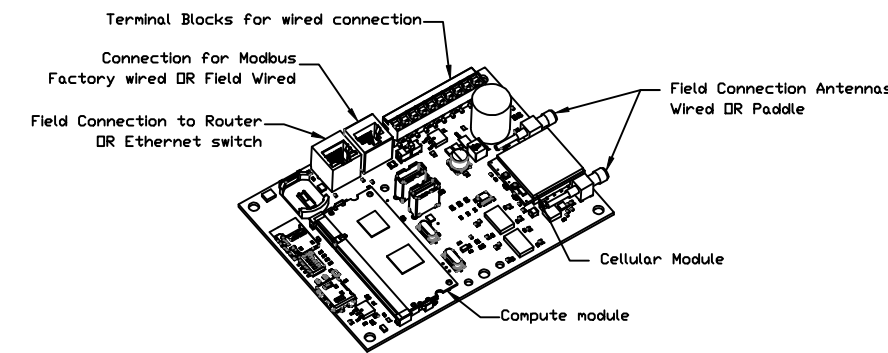
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1/2" = 1'-0"

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8

ELECTRICAL PACKAGE - JOB#6701020

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-110110MA_MA4	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KEF-1	EXHAUST	1	1.000	115	11.6

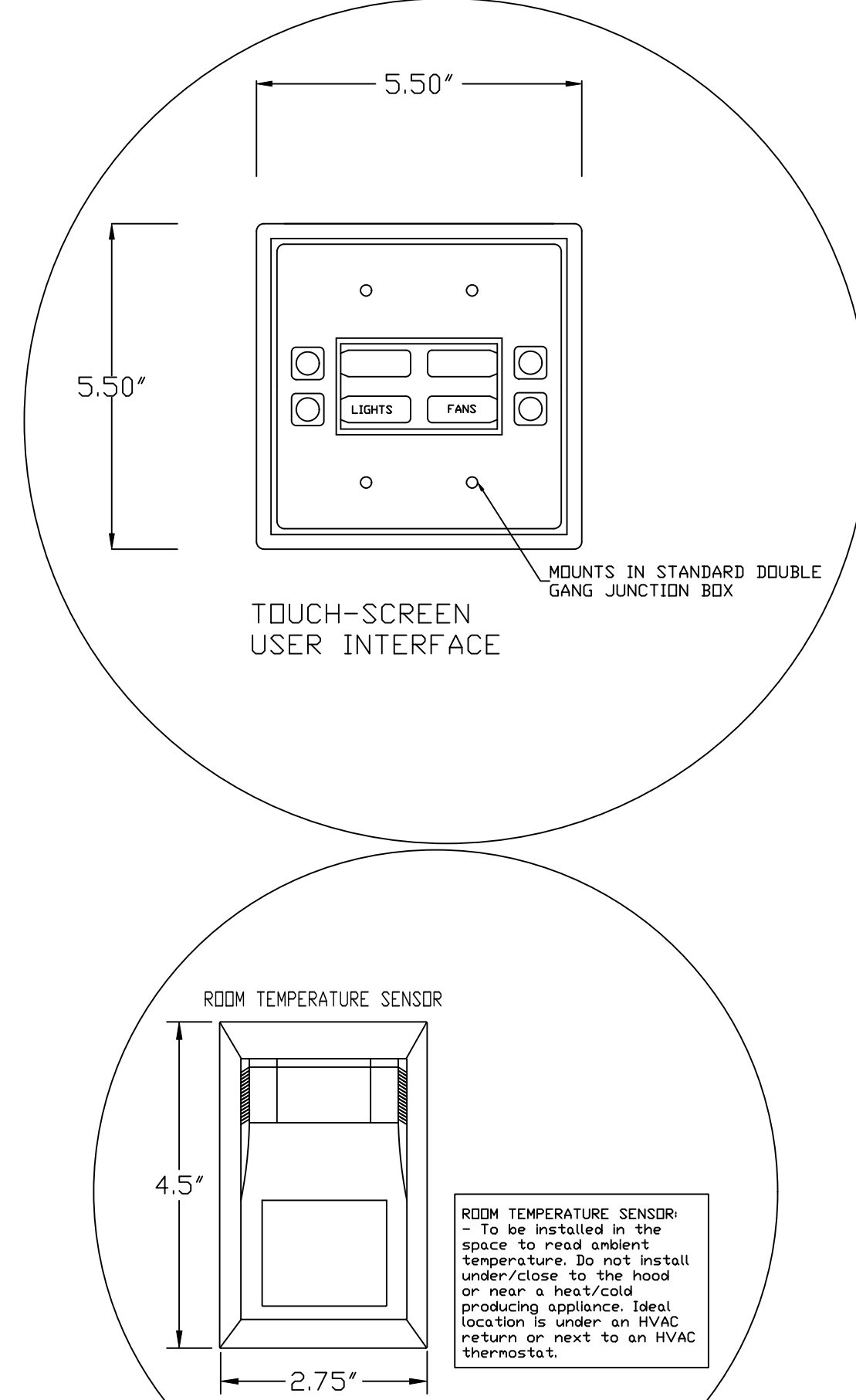
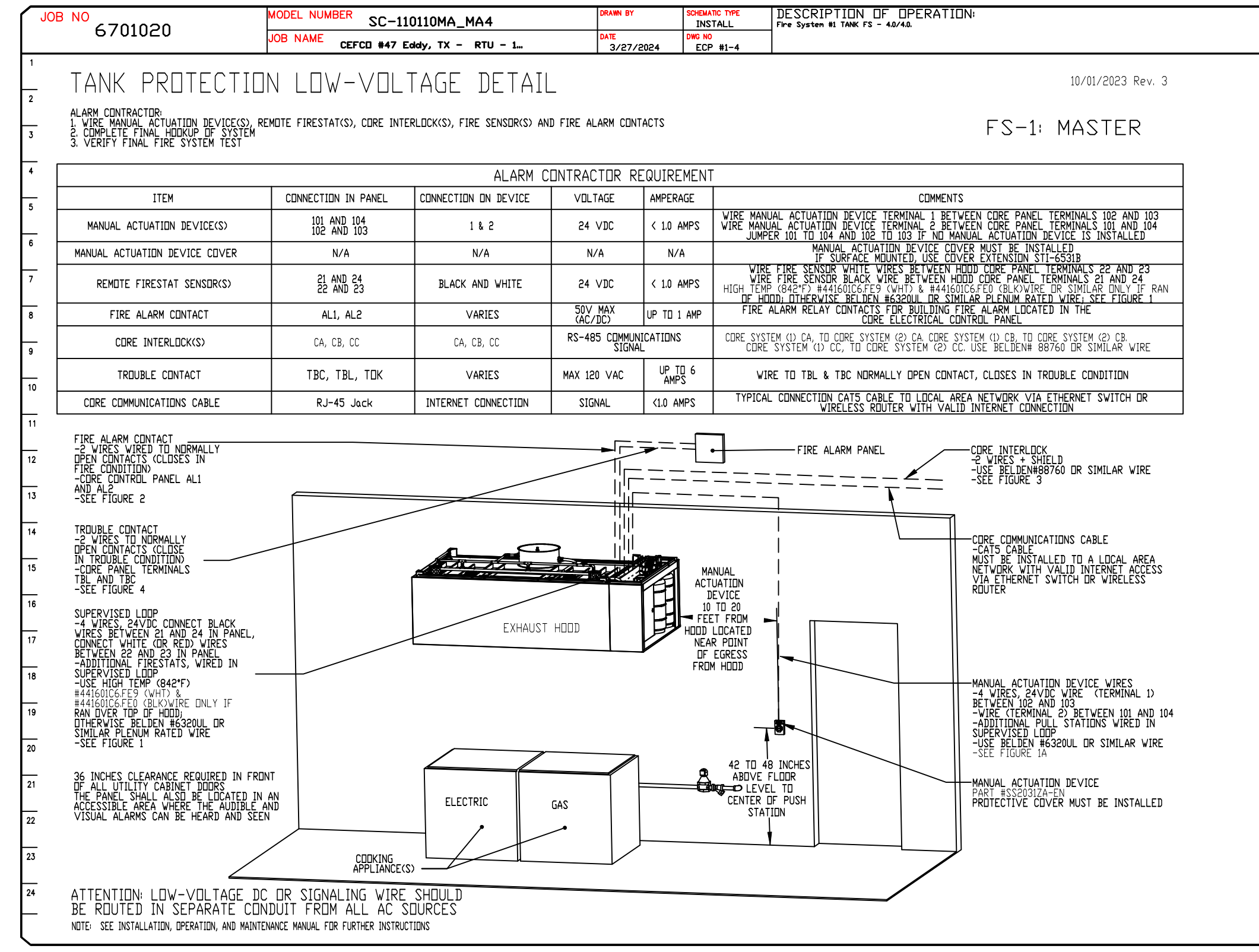
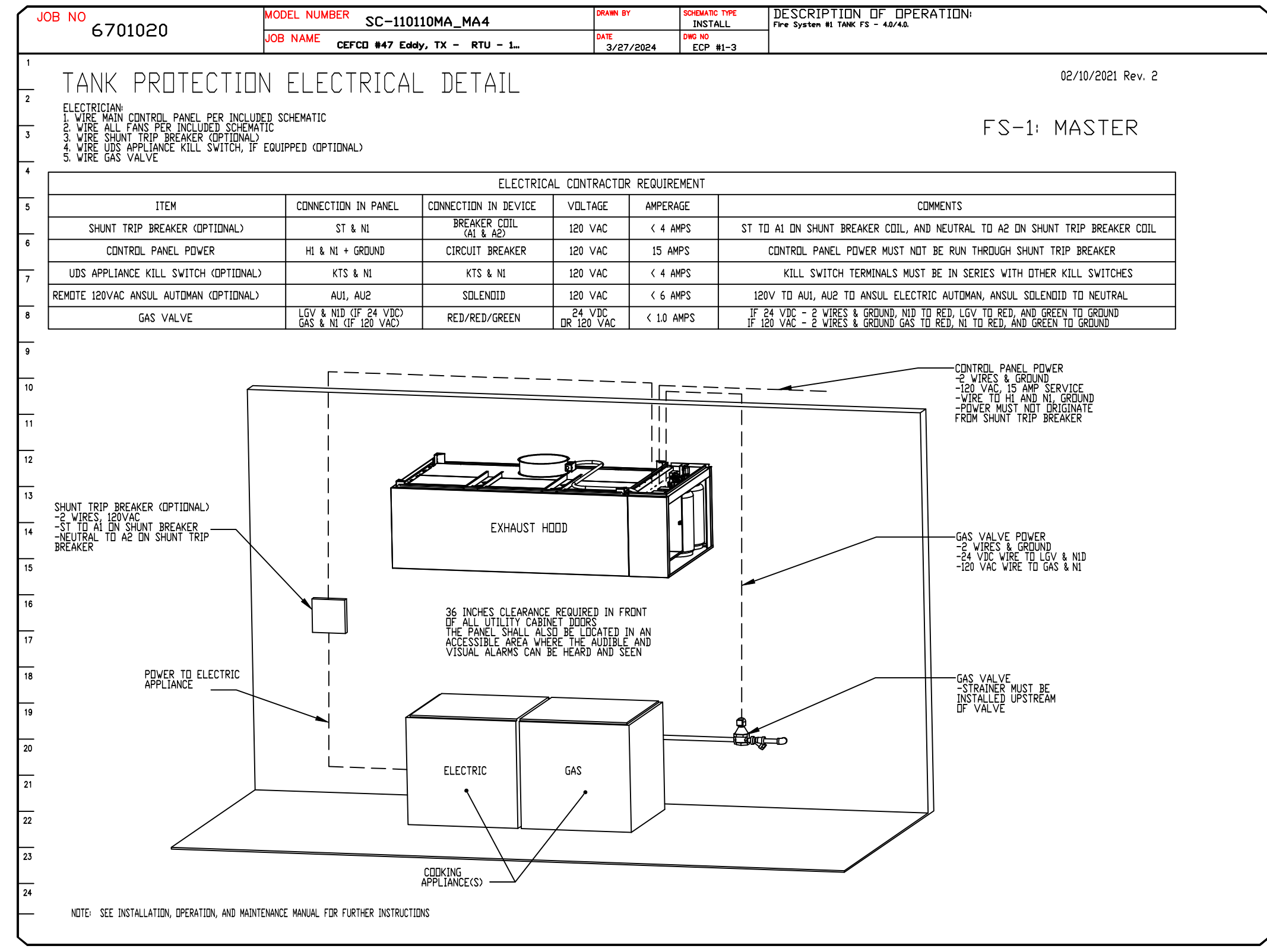
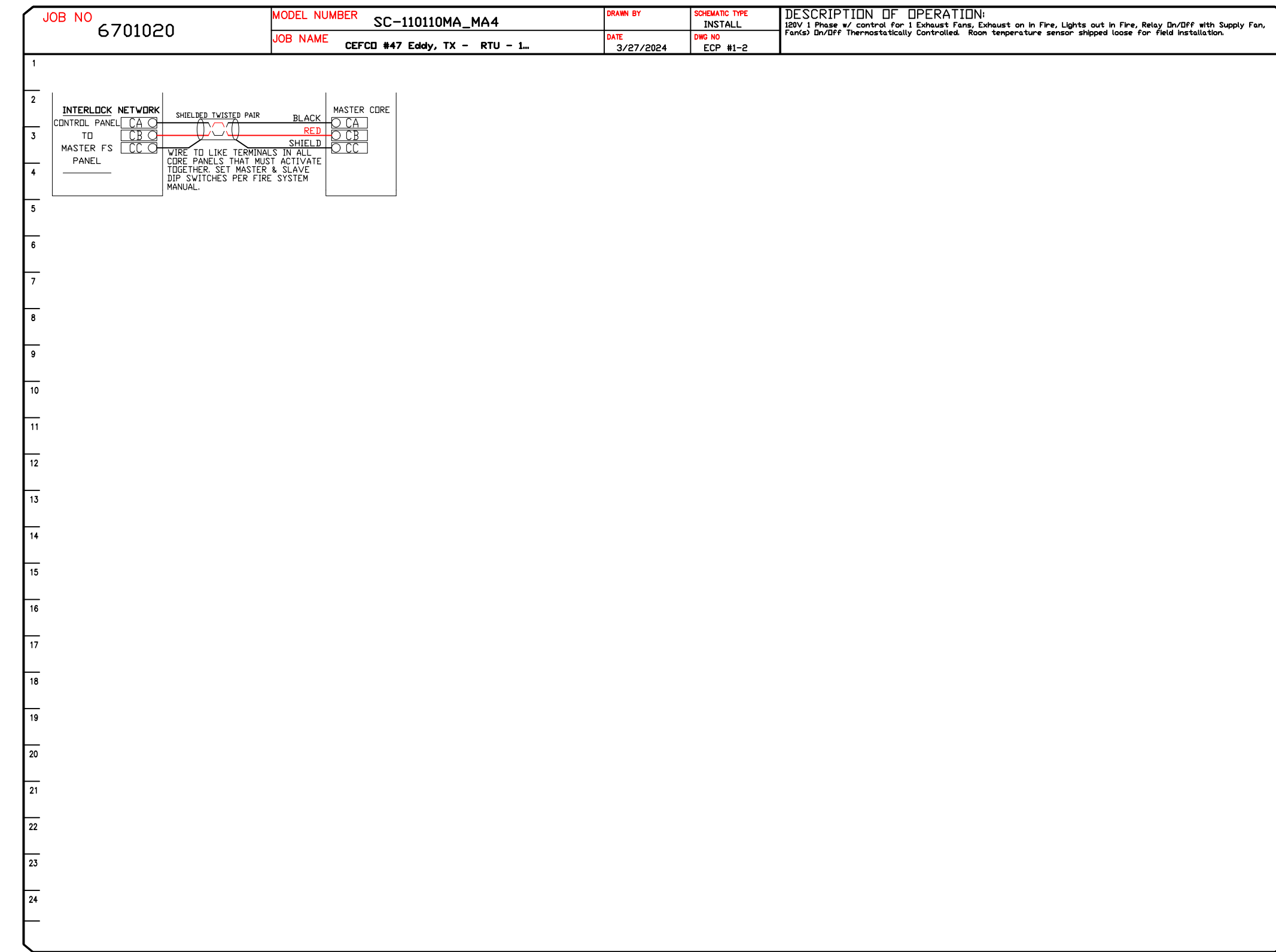
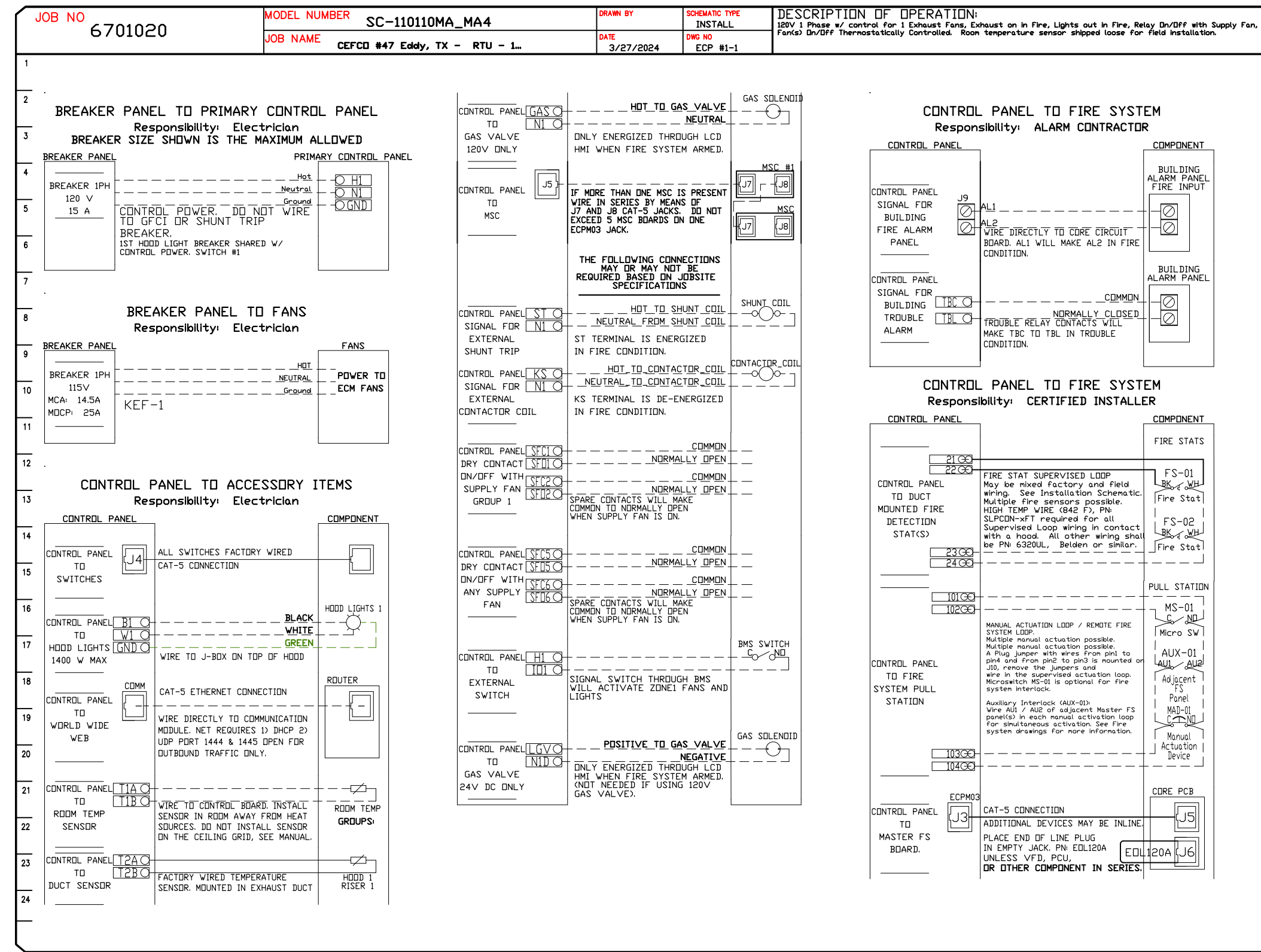


CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management Systems.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCY Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MHA Discharge Temperature	MONITOR	MHA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Flow Condition	MONITOR
Fan Status	MONITOR	CODE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Pans Button(s)	MONITOR & CONTROL
Flow Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CODE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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11200 Mandraca Rd., Suite 302, Austin, TX, 78748 PHONE: (512) 639-0463 FAX: 9197475622 EMAIL: reg@captivair.com

CEFCO #47 Eddy, TX - RTU - 10
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SCALE: 3/4" = 1'-0"
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SHEET NO. 9

DUCTWORK #1 PARTS - JOB#6701020 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
HI-E1	DW18DWRISER-2R-S	1800				-0.93	8.15	0.00	1	DOUBLE WALL RISER COVER - USED ON 14" INNER RISER, 4' LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1445DWASY-2R-S	1800				-0.0473	19.87	1683.79	1	DOUBLE WALL DUCT - 14" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P2	DW1427DWAJD-2R-S	1800				-0.007	52.12	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 24.5' / ADJUSTMENT = 13.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DW1822SADKIT						7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" DD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P4	DW1445DWASY-2R-S	1800				-0.0675	19.87	1683.79	1	DOUBLE WALL DUCT - 14" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P5	DW1447DWAJD-2R-S	1800				-0.014	93.18	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P6 ASSEMBLED W/P7	DW1435DWLTP-2R-S	1800				-0.015	48.06	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P7 ASSEMBLED W/P6 & B SYSTEM AT P7	DW2314TPDBEX	1800					8.00	1683.79	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 14" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE DD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
						-1.0808	0.00			
RC1	DW18DWRISER-2R-S						8.15		1	DOUBLE WALL RISER COVER - USED ON 14" INNER RISER, 4' LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT							266.25			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

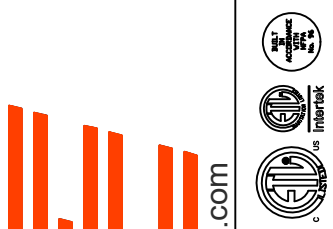
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

TYPE	VERTICAL		
	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

REVISIONS

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SCALE:
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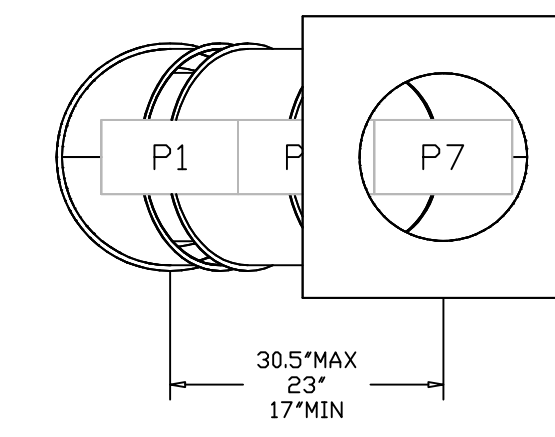
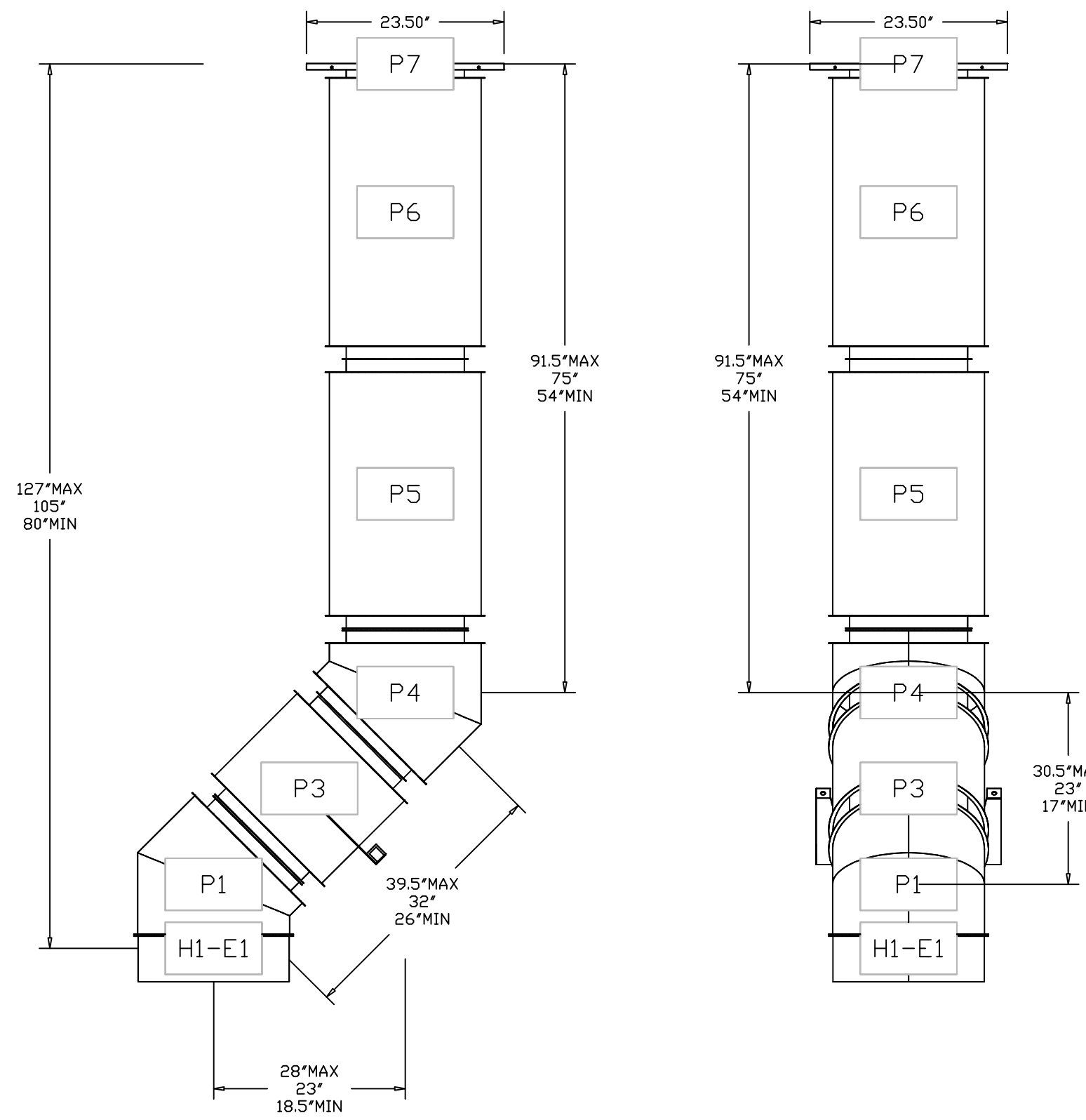
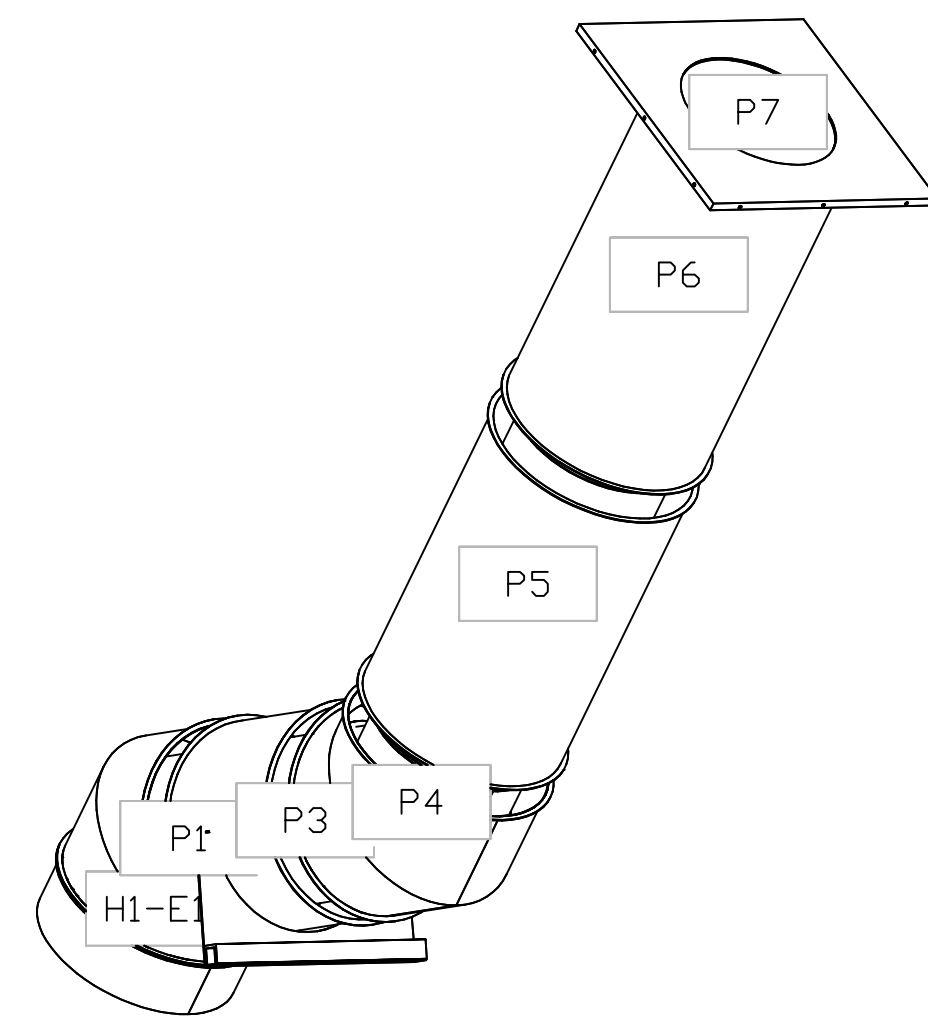
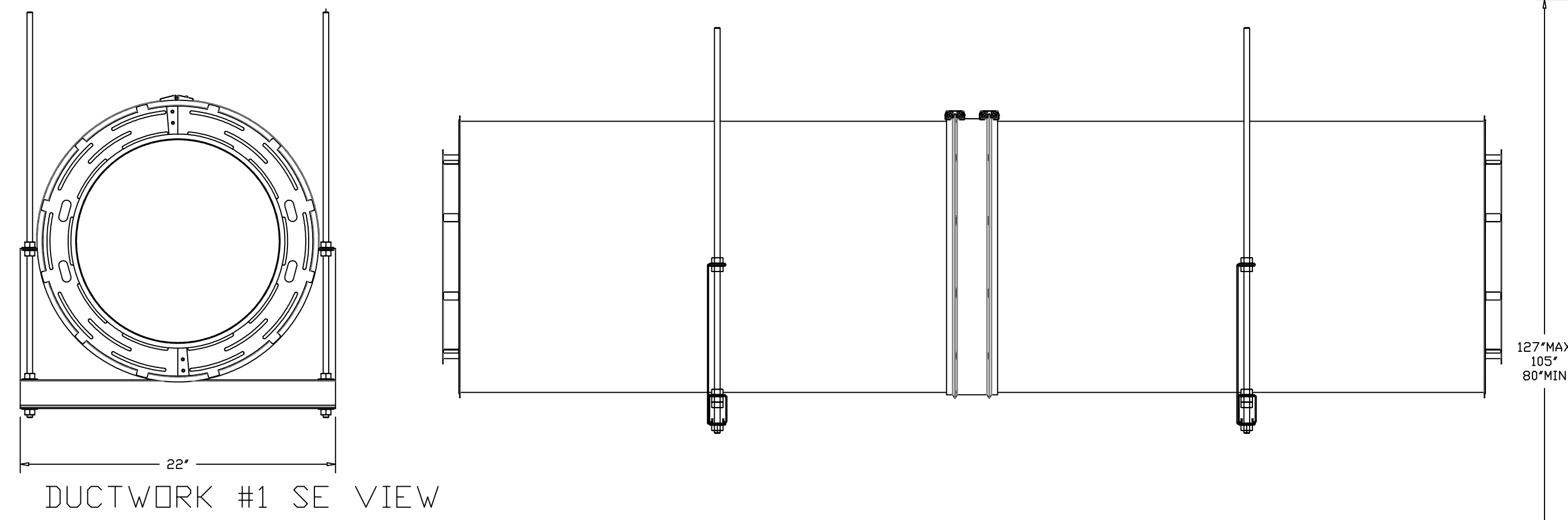
SHEET NO.
11

11200 Manchaca Rd., Suite 302, Austin, TX, 78748 PHONE: (512) 639-0483 FAX: 9197475622 EMAIL: reg7@captiveaire.com

SUPPORT SYSTEM DETAILS #1

DUCTWORK #1 FRONT VIEW DUCTWORK #1 SIDE VIEW DUCTWORK #1 TOP VIEW

DW1822SADKIT - HORIZONTAL SUPPORTS



REVISIONS	
DESCRIPTION	DATE



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POWER SYMBOLS:

NOTE: A COMPLETE LIST OF RECEPTACLE SYMBOLS IS SHOWN FOR THE DUPLEX RECEPTACLE ONLY. OTHER RECEPTACLE SYMBOLS WILL FOLLOW THE SAME SHADING CONVENTION AS THE DUPLEX RECEPTACLE, UNO.

- CENTER HATCH: ISOLATED GROUND RECEPTACLE
OUTER HATCH: GFCI RECEPTACLE
RIGHT HATCH: CONTROLLED RECEPTACLE
20A, 125V, RECEPTACLE (NEMA 5-20R), WALL MTD
20A, 125V, IG DUPLEX RECEPTACLE (NEMA 5-20R), WALL MTD
20A, 125V, GFCI DUPLEX RECEPTACLE (NEMA 5-20R), WALL MTD
20A, 125V, CONTROLLED DUPLEX RECEPTACLE (NEMA 5-20R), WALL MTD
20A, 125V, RECEPTACLE ON EMERGENCY CIRCUIT (NEMA 5-20R), WALL MTD
20A, 125V, RECEPTACLE (NEMA 5-20R), FLOOR MTD
20A, 125V, RECEPTACLE ON EMERGENCY CIRCUIT (NEMA 5-20R), CEILING MTD
MULTI-SERVICE, FLOOR BOX, FLUSH MNT (SEE SPECS OR NOTES)
MULTI-SERVICE, POKE-THRU, 2 HR. FIRE RATED, FLUSH MNT (SEE SPECS OR NOTES)
MULTI-SERVICE, CEILING BOX WITH PROJECTOR MOUNT (SEE SPECS OR NOTES)
MULTI-SERVICE, WALL BOX, RECESSED MNT (SEE SPECS OR NOTES)
SPECIAL PURPOSE RECEPTACLE (SEE EQUIPMENT SCHEDULE OR NOTES)
SPECIAL PURPOSE RECEPTACLE ON EMERGENCY CIRCUIT (SEE EQUIPMENT SCHEDULE OR NOTES)
60A, 480V, 3PH, WELDING RECEPTACLE, WALL MTD
DROP CORD (SEE SPECS OR NOTES)
POWER POLE (SEE SPECS OR NOTES)
RECEPTACLE RACEWAY / PLUG MOLD
JUNCTION BOX, WALL MTD
JUNCTION BOX
JUNCTION BOX, FLOOR MTD
JUNCTION BOX, EXPLOSION PROOF
SAFETY SWITCH, 30A, 3-POLE, NON-FUSED (WALL MTD LEFT, CEILING MTD RIGHT)
SAFETY SWITCH, 30A, 3-POLE, FUSED @ 20A
STARTER OR MOTOR CONTROLLER
STARTER, COMBINATION W/ DISC. SWITCH
TRANSFORMER
ELECTRICAL PANEL / ENCLOSURE AS NOTED ON PLAN DRAWINGS (SURFACE MTD LEFT, RECESSED MTD RIGHT)
ELECTRIC UTILITY METER
GROUNDING BUSBAR (SEE SPECS OR NOTES)
UTILITY POWER POLE

LIGHTING SYMBOLS:

NOTE: REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES AND SENSOR SCHEDULE FOR SENSOR TYPES. REFER TO PLAN DRAWINGS FOR ADDITIONAL SYMBOLS.

- A: CAPITAL LETTER ADJACENT TO FIXTURE = TYPE
a: LOWERCASE LETTER = SWITCHING GROUP
EM: EMERGENCY LIGHTING IS DESIGNATED BY AN "EM" ADJACENT TO THE FIXTURE AND/OR A "HALF SHADED" OR "FULL SHADED" FIXTURE SYMBOL
NL: NIGHT LIGHTING (UNSWITCHED FIXTURE)
SWITCH, 20A, 120/277V, TOGGLE TYPE, U.N.O.
2'X4' LAY-IN TROFFER
2'X2' LAY-IN TROFFER
1'X4' LAY-IN TROFFER
STRIP/CHANNEL FIXTURE
TRACK LIGHTING W/ DIRECTIONAL HEADS
DOWNLIGHT, CEILING MTD
WALL WASHER, CEILING MTD
LIGHT FIXTURE, CEILING MTD
LIGHT FIXTURE, WALL MTD
WALL PACK
SINGLE HEAD AREA LIGHT FIXTURE, POLE MTD
TWIN HEAD AREA LIGHT FIXTURE, POLE MTD
EXHAUST FAN
EMERGENCY WALL PACK (BUG EYE) (WALL MTD LEFT, CEILING MTD RIGHT)
EXIT SIGN, SINGLE FACE (ARROW INDICATES DIRECTION OF EGRESS) (WALL MTD LEFT, CEILING MTD RIGHT)
EXIT SIGN, DOUBLE FACE (ARROW INDICATES DIRECTION OF EGRESS) (WALL MTD LEFT, CEILING MTD RIGHT)
EXIT SIGN W/ COMBINATION EMERGENCY LIGHT, SINGLE FACE (ARROW INDICATES DIRECTION OF EGRESS) (WALL MTD LEFT, CEILING MTD RIGHT)
CODES IN EFFECT:
ALL WORK SHALL BE IN STRICT ACCORDANCE WITH:
NATIONAL ELECTRICAL CODE - 2005
INTERNATIONAL BUILDING CODE - 2021
ASHRAE 90.1 - 2013
INTERNATIONAL ENERGY CONSERVATION CODE - 2021
WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS, AND PRACTICES LISTED HEREIN. THEIR RESPECTIVE DATES ARE FURNISHED AS THE REQUIREMENTS (UNLESS OTHERWISE DETERMINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION).

SPECIAL SYSTEMS SYMBOLS:

NOTE: UNLESS NOTED OTHERWISE, PROVIDE OVERSIZED JUNCTION BOX AND 1" EMPTY CONDUIT WITH PLASTIC INSULATING BUSHINGS AND PULL STRING STUBBED MIN. 6" INTO ACCESSIBLE CEILING SPACE. COORDINATE WITH LV CONTRACTOR FOR FINAL REQUIREMENTS.

- TELEPHONE OUTLET, WALL MTD
DATA OUTLET, WALL MTD
COMBINATION TELE/DATA OUTLET, WALL MTD
TELEPHONE OUTLET (FLOOR MTD LEFT, CEILING MTD RIGHT)
DATA OUTLET (FLOOR MTD LEFT, CEILING MTD RIGHT)
COMBINATION TELE/DATA OUTLET (FLOOR MTD LEFT, CEILING MTD RIGHT)
WIRELESS ACCESS POINT (CEILING MTD LEFT, WALL MTD RIGHT)
TELEPHONE BACKBOARD (TBB)
INTERCOM OUTLET
INTERCOM STATION
AUDIO / VIDEO DEVICE
SPEAKER
AUDIBLE NOTIFICATION DEVICE
BUZZER
BELL & BUZZER COMBINATION
AUDIBLE NOTIFICATION DEVICE
AUXILIARY SYSTEM DEVICE
ANNUNCIATOR
INDICATOR LIGHT
SECURITY DEVICES
ACCESS CONTROL DEVICE
SECURITY CAMERA
PUSHBUTTON STATION
NORMAL / EMERGENCY CALL BUTTON
PUSH BUTTON
THERMOSTAT

RACEWAY SYMBOLS:

- HOMERUN CIRCUIT TO PANELBOARD
LV LOW VOLTAGE CABLE
CONDUIT BURIED
CONDUIT CONCEALED
CONDUIT EXPOSED
FLEXIBLE CONDUIT
CONDUIT UP
CONDUIT DOWN
CONDUIT SEAL-OFF
CONDUIT TEE BODY
CONDUIT EL BODY
CONDUIT CAP
CONDUIT SLEEVE WITH BUSHINGS
PULL BOX
HAND HOLE

ABBREVIATIONS:

- AMPERE
AVAILABLE FAULT CURRENT
ARC FAULT CIRCUIT INTERRUPTER
ABOVE FINISHED FLOOR
ABOVE FINISHED GRADE
AUTHORITY HAVING JURISDICTION
AMPERE INTERRUPTING CAPACITY
AUTOMATIC TRANSFER SWITCH
BUILDING BREAKER
CONDUIT
CIRCUIT
CEILING
CONTROL POWER TRANSFORMER
CURRENT TRANSFORMER
COPPER
CENTER
EACH
EQUIPMENT GROUND
EQUIPMENT GROUNDING CONDUCTOR
EMERGENCY
ELECTRONIC OVERLOAD FEEDER
FULL LOAD AMPS
GROUNDING ELECTRODE CONDUCTOR
GROUND FAULT INTERRUPTER
GROUND FAULT CIRCUIT INTERRUPTER
GROUND
GALVANIZED RIGID STEEL
HAND-OFF-AUTO
ISOLATED GROUND
JUNCTION BOX
KVA
KILOVOLT-AMPERE
KILOWATT
LONG, SHORT, INSTANTANEOUS, GROUND FAULT TRIP
LIGHTING
MINIMUM CIRCUIT AMPS
MAIN CIRCUIT BREAKER
MOTOR CONTROL CENTER
MOLDED CASE CIRCUIT BREAKER
MOTOR CIRCUIT PROTECTOR
MAIN DISTRIBUTION PANEL
MAXIMUM FUSE SIZE
MAIN GROUNDING BUSBAR
MLO
MCOCP
MOUNTED
MTS
MANUAL TRANSFER SWITCH
N.C.
N.O.
NIGHT LIGHT
NOT TO SCALE
OVERCURRENT PROTECTION OVERHEAD
POLE
PHASE
PANEL
POWER
RECEPTACLE
ROOM
SHORT CIRCUIT CURRENT RATING
SWITCH
SWBR
SWGR
TBB
TELECO
TELE
TGB
TMGB
TYP
UNDERGROUND
UNLESS NOTED OTHERWISE
UNINTERRUPTIBLE POWER SUPPLY
VOLT
VERIFY IN FIELD
WITH
WIRE
WEATHERPROOF
WEATHER RESISTANT
TRANSFORMER

GENERAL NOTES:

- PRE-BID SITE VISIT: CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK AND COST THEREOF AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS. BIDDERS WHO DO NOT VISIT THE SITE MAY BE UNLATERALLY NOT PERMITTED TO SUBMIT A BID IF THE OWNER SO DESIGNATES.
BID ITEMS AND CONDITIONS: THE ELECTRICAL CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS AND SPECIFICATIONS FROM THE GENERAL CONTRACTOR PRIOR TO BID. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE TERMS AND CONDITIONS INDICATED IN THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS OR DOUBT AS TO THE INTENT THEREOF, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING TO OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING PROPOSAL FOR WORK WHERE CLARIFICATION CANNOT BE PROVIDED PRIOR TO BID. THE CONTRACTOR SHALL ASSUME THE MORE EXPENSIVE METHOD FOR THE BID, WITHOUT FORMAL AUTHORIZATION, THE ARCHITECT AND OWNER RESERVE THE RIGHT TO REQUIRE THE MORE RESTRICTIVE SPECIFICATION.
EXCLUSIONS: MATERIAL AND LABOR EXCLUDED BY THE ELECTRICAL CONTRACTOR SHALL NOT RELIEVE THE GENERAL CONTRACTOR FROM PROVIDING SAME.
COMPLETE SYSTEMS: MATERIAL AND LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENTS AND SERVICES REQUIRED TO CONSTRUCT, INSTALL, AND MODIFY THE ELECTRICAL SYSTEMS AS HEREBY SPECIFIED AND SHOWN ON THESE DRAWINGS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. COORDINATE WITH OTHERS TO BE INSTALLED BY OTHERS AFFECTING THE ELECTRICAL WORK AND FURNISH AND INSTALL ALL NECESSARY STEEL SHAPES, BLOCKING, ANCHORS, SLEEVES, HANGERS, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR NOT INDICATED IN THE DRAWINGS, WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT, OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
PERMITS: OBTAIN ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS AS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK.
INSPECTIONS: CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED AND APPROVED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER.
REGULATIONS: ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL BUILDING CODES, RULES, REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
WORKMANSHIP: ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH APPLICABLE NECA STANDARDS SUBJECT TO THE APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE. ALL WORK SHALL BE PROPERLY ALIGNED, LEVELED, PLUMBED AND SUPPORTED. RACEWAY MUST BE GROUPED AND INSTALLED IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.
COORDINATION: PRIOR TO COMMENCEMENT OF WORK, EXAMINE ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND COORDINATE WITH ALL OTHER TRADES INCLUDING GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, LOW VOLTAGE CONTRACTOR, AND SECURITY CONTRACTOR IN ORDER TO BECOME FAMILIAR WITH ALL ASPECTS OF THE DESIGN AFFECTING THE ELECTRICAL WORK, AND TO CORRELATE SPECIFIC INSTALLATION REQUIREMENTS TO ARCHITECTURAL DRAWINGS AND EQUIPMENT OUT SHEETS FOR JUNCTION BOXES, EQUIPMENT MOUNTINGS, CONNECTIONS, WIRING DEVICE TYPE, MOUNTING HEIGHTS, MEANS OF ATTACHMENT, AND LOCATIONS OF ALL NEW EQUIPMENT AND ELECTRICAL DEVICES. FIELD VERIFY EXACT NATEL DATA ON ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND BY THE OWNER PRIOR TO THE INSTALLATION OF ELECTRICAL WORK AND MAKE ANY ADJUSTMENTS TO OUPLETS, CONDUITS, WIRE, AND/OR CIRCUIT BREAKER/FUSE RATINGS AS REQUIRED TO MATCH EQUIPMENT ACTUALLY FURNISHED.
EQUIPMENT AND DEVICE LOCATIONS: LOCATIONS ON THE ARCHITECT'S PLANS SHALL BE DETERMINED FROM ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS. FINAL LOCATION OF EQUIPMENT AND DEVICES TO BE COORDINATED WITH ARCHITECT, OWNER, AND/OR OWNER'S REPRESENTATIVE. VERIFY STUB-UP LOCATION FOR ALL UNDER SLAB CONDUITS PRIOR TO POUR-IN.
UTILITIES: UTILITY COORDINATION INFORMATION SHOWN ON THE DRAWINGS SHALL BE CONSIDERED PRELIMINARY. COORDINATE WITH LOCAL POWER COMPANY AND TELCO CONTRACTORS AND PROVIDERS FOR SERVICE REQUIREMENTS AND VERIFY FINAL POINT OF CONNECTION PRIOR TO MOBILIZATION IN THE FIELD. NOTIFY UTILITIES OF COMMENCEMENT OF WORK AND MAKE ALL ARRANGEMENTS FOR TEMPORARY AND PERMANENT SERVICES. PROVIDE ALL EQUIPMENT, MATERIAL, AND LABOR TO MEET UTILITY REQUIREMENTS. INCLUDE ALL ASSOCIATED COSTS TO SET-UP AND COORDINATE TEMPORARY AND PERMANENT ELECTRIC AND TELCO SERVICES IN BID. ALL MATERIALS MUST BE APPROVED BY THE LOCAL UTILITY. IF REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY ELECTRICAL PLANS AND APPROVED INTERLUPTIONS. ALL OUTAGES OR INTERUPTIONS SHALL BE KEPT TO MINIMUM DURATION. PROVIDE TEMPORARY SERVICE DURING OUTAGE WHEN REQUIRED BY AFFECTED PARTIES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PERSONNEL FOR FIRE AND SECURITY WATCH DURING OUTAGES TO FIRE AND SECURITY SERVICES.
PRODUCTS: ALL ELECTRICAL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY NOTED AS EXISTING TO BE REUSED. MATERIAL AND METHODS OF INSTALLATION SHALL CONFORM TO THE STANDARDS OF UNDERWRITERS LABORATORIES, INC. (UL), ANSI, NFPA, ADA, AND ALL OTHER APPLICABLE LOCAL ORDINANCES. DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION AND/OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND THE ENGINEER. PROPOSED EQUIPMENT SHALL BE NRTL LISTED, LABELED, OR APPROVED.
SHOP DRAWINGS AND SUBMITTALS: SUBMIT MANUFACTURER'S STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, ELECTRICAL RATINGS, PHYSICAL DIMENSIONS, AND OTHER INFORMATION NECESSARY FOR ENGINEER TO ENSURE COMPLIANCE WITH SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT. SUBMITTALS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ITEMS TO BE REVIEWED BY HIGHLIGHTING, AND ITEMS NOT TO BE REVIEWED SHALL BE CROSSED OUT. SUBMITTALS WITHOUT HIGHLIGHTING AND CROSSED OUT ITEMS SHALL NOT BE REVIEWED. ALL SUBMITTALS MUST BE RECEIVED BY THE ENGINEER WITHIN 30 DAYS OF CONTRACT AWARD TO THE GENERAL CONTRACTOR AND NO EXCEED 60 DAYS AFTER THE DATE OF CONTRACT AWARD. APPROVED SUBMITTALS SHALL BE KEPT AT THE CONTRACTOR'S OWN RISK.
VALUE ENGINEERING SUBMITTALS: VALUE ENGINEERING SUBMITTALS SHALL BE LABELED AS SUCH AND INDICATE A "DEDUCT" OR CREDIT BACK TO THE OWNER. VE SUBMITTALS NOT CLEARLY LABELED OR NOT INCLUDING A DEDUCT SHALL BE REJECTED.
SUBSTITUTIONS AND ALTERATIONS: THERE SHALL BE NO DEVIATION FROM THE REQUIREMENTS HEREIN WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COSTS INCURRED AS A RESULT OF SUCH DEVIATION AS WELL AS THE PERFORMANCE AND QUALITY REQUIREMENTS OF SUCH EQUIPMENT.
SUBSTITUTIONS AND ALTERATIONS OF OTHER DISCIPLINE'S EQUIPMENT: SUBSTITUTED AND ALTERED EQUIPMENT SHALL INCLUDE ALL MATERIAL AND LABOR COSTS FOR ELECTRICAL CONTRACTOR TO PROVIDE COMPLETE AND FULLY FUNCTIONAL SYSTEMS TO ACCOMMODATE THESE SUBSTITUTED AND ALTERED EQUIPMENT. THESE ADDITIONAL ELECTRICAL COSTS MUST BE ABSORBED BY THE OTHER DISCIPLINE'S CONTRACTOR IN ORDER FOR THE SUBSTITUTED OR ALTERED GEAR TO BE ACCEPTED.
FAULT CURRENT PROTECTION: ALL EQUIPMENT SHALL BE PROVIDED WITH SHORT CIRCUIT CURRENT RATINGS (SCCR) AND OVERCURRENT PROTECTIVE DEVICE (OCPD) RATINGS WHICH SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT AT EACH RESPECTIVE PIECE OF EQUIPMENT. COORDINATE EQUIPMENT SCCR AND OVERCURRENT PROTECTIVE DEVICE AC RATINGS WITH POWER COMPANY. OBTAIN THE AVAILABLE FAULT CURRENT AT TRANSFORMER SECONDARY FROM THE POWER COMPANY AND PROVIDE PROPOSED EQUIPMENT SCCR AND OVERCURRENT PROTECTIVE DEVICE AC RATINGS FOR ENGINEER APPROVAL. OVERCURRENT PROTECTIVE DEVICES AC RATINGS SHALL BE FULLY RATED WITH A MINIMUM 10% MARGIN BETWEEN THE CALCULATED FAULT LEVEL AND THE SPECIFIED SHORT CIRCUIT RATING OF THE EQUIPMENT UNO OR PLANS.
VOLTAGE DROOP: WIRE SIZES SPECIFIED IN THESE PLANS ARE MINIMUM WIRE SIZES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INCREASING WIRE SIZES BASED ON ACTUAL CIRCUIT LENGTH TO MAINTAIN VOLTAGE DROP AT A MAXIMUM OF 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS. THE CUMULATIVE VOLTAGE DROP FROM THE SOURCE TO THE END DEVICE SHALL NOT EXCEED 5% OF NOMINAL SYSTEM VOLTAGE.
WIRING: ALL CONDUCTORS CARRYING 50 VOLTS OR MORE SHALL BE MINIMUM #12 AWG, CU, UNO. PROVIDE DUAL RATED TYPE THIN-THIN FOR ABOVE GROUND AND TYPE THIN OR XHHW FOR BELOW GROUND, COORDINATE INSULATION TYPES WITH ENVIRONMENTAL CONDITIONS, NEC REQUIREMENTS, AND CONDUIT FILL REQUIREMENTS. CONDUCTORS #12 AND #10 SHALL BE SOLID. CONDUCTORS #8 AND LARGER SHALL BE STRANDED. ALL CONDUCTOR SIZES ARE BASED ON COPPER WITH 60°C INSULATION FOR CIRCUITS RATED 100A OR LESS AND 75°C FOR CIRCUITS RATED MORE THAN 100A.
LOW VOLTAGE WIRING: LOW VOLTAGE WIRING FOR SPECIAL SYSTEMS IS PERMITTED TO BE FREE-WIRED ONLY ABOVE ACCESSIBLE CEILINGS AND ABOVE RAISED FLOOR SYSTEMS, UNO. FREE-WIRED CABLE SHALL BE UL LISTED, PLENUM RATED, LOW VOLTAGE WIRING IN OPEN CEILINGS, HARD CEILINGS, WALLS, PASSING THROUGH ADJACENT TENANT SPACES, OR ROUTED UNDERGROUND OR BELOW SLAB SHALL BE INSTALLED IN CONDUIT. LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS, UNLESS SPECIFICALLY CALLED OUT.
COLOR CODING: FOR EXISTING WIRING SYSTEMS, COLOR CODING SHALL FOLLOW EXISTING SITE REQUIREMENTS. FOR NEW INSTALLATIONS OR WHERE EXISTING INSTALLATIONS DO NOT HAVE A COLOR CODING CONVENTION, THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO AND FOLLOWED THROUGHOUT:
CONDUCTOR
PHASE A: BROWN
PHASE B: YELLOW
PHASE C: BLUE
NEUTRAL: GRAY
EQUIPMENT GROUND: GREEN
ISOLATED GROUND: GREEN/YELLOW
SHARED CIRCUIT NEUTRALS: SHARED CIRCUIT NEUTRALS SHALL NOT BE USED UNLESS INDICATED OTHERWISE ON PANEL SCHEDULE. WHERE USED, CIRCUIT BREAKER HANDLE TIES SHALL BE PROVIDED TO DISCONNECT POWER TO EACH PHASE CONDUCTOR OF THE SHARED NEUTRAL CIRCUIT.
GROUNDING: ALL CIRCUIT SHALL BE IN AN INDEPENDENT GROUNDING SYSTEM. THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE BY EQUAL PROPORTION TO THE PHASE CONDUCTORS WHENEVER THE EQUIPMENT GROUND CONDUCTOR HAD BEEN UP SIZED TO MAINTAIN ACCEPTABLE VOLTAGE DROP LEVELS. EQUIPMENT GROUNDS SHALL BE BONDED TO ALL EQUIPMENT AND DEVICES. USE OF METALLIC CONDUIT SHALL NOT TAKE THE PLACE OF AN EQUIPMENT GROUND CONDUCTOR.
CONDUIT: ALL WIRING SHALL BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED. CONDUIT SHALL BE 1/2" FOR INDOOR AND 3/4" FOR OUTDOOR AND UNDER SLAB. EMT IS ACCEPTABLE WITH COMPRESSED AIR FITTINGS ONLY. ALL HOMERUNS SHALL BE HARD PIPED. NO IS HARD PIPED FOR FUTURE WIRING. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN FLOORS, WALLS, AND/OR CEILINGS UNLESS SPECIFICALLY NOTED OTHERWISE. CHANNEL EXISTING WALLS WHERE REQUIRED, WHERE CONDUIITS ARE UNABLE TO BE CONCEALED, HARD PIPED CONDUIT SHALL BE USED AND PAINTED TO MATCH ADJOINING SURFACE.
UNDERGROUND CONDUITS: MINIMUM BURIAL DEPTH SHALL BE 24" TO TOP OF CONDUIT. PROVIDE DETECTABLE WARNING TAPE WHERE REQUIRED BY AHJ OR CODE.
ROUTING: FOR CLAS CONDUIT ROUTING SHOWN IS SYMBOLIC AND DIAGRAMMATIC. INSTALL CONDUIT TO FIT ACTUAL FIELD CONDITIONS.
OPEN CEILINGS: IN AREAS WITHOUT CEILINGS OR WHERE ANY CONDUITS, CONDUCTORS, FEEDERS, OR LOW VOLTAGE CABLING IS USED, ALL WIRING SHALL BE HARD PIPED IN CONDUIT, BX, JUNCTION BOXES, OR FLEX CONDUIT. CONDUITS SHALL BE ROUTED TIGHT TO DECK EITHER PARALLEL OR PERPENDICULAR TO BUILDING LINES, GROUPED ALONG STRUCTURAL MEMBERS, DROP AT MAXIMUM CLEARANCE MAINWAY 1'-1/2" CLEARANCE FROM ROOF DECK PER NEC 300.4(C), WHERE EXPOSED TO VIEW, ALL MATERIALS (CONDUIT, JUNCTION BOXES, ETC.) SHALL BE INSTALLED IN AN ORDINARY FASHION AND SHALL BE CLEAN, FREE FROM ALL VISIBLE MARKINGS, AND PAINTED TO MATCH ADJOINING SURFACE. JUNCTION BOXES SHALL HAVE CIRCUIT NUMBERS WRITTEN ON THE INSIDE OF THE JUNCTION BOX COVER.
PENETRATIONS: CONTRACTOR SHALL INSPECT AREA OF WORK AND PERFORM GROUND PENETRATING RADAR (GPR) SCAN OR X-RAY ALL PROPOSED PENETRATIONS PRIOR TO WORK TO DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES OR PENETRATIONS AND COORDINATE WITH STRUCTURAL ENGINEER. ALL PENETRATIONS SHALL BE SEALED BY APPROVED MEANS TO PREVENT ENERGY LOSS AND MOISTURE AND RODENT INTRUSION.
FIRE-RATED PENETRATIONS: ALL PENETRATIONS THROUGH FIRE-RATED SLABS AND/OR PARTITIONS SHALL BE SEALED WITH A UL LISTED FIRE-RATED ASSEMBLY OF EQUAL OR GREATER RATING THAN THAT OF THE EXISTING SLAB OR PARTITION.
TRENCHING: FIELD VERIFY UNDERGROUND UTILITIES PRIOR TO TRENCHING. ALL PROPOSED EXCAVATION IN THE VICINITY OF EXISTING UTILITIES, PIPING SYSTEMS, OR SIMILAR SHALL BE HAND EXCAVATED. HAND EXCAVATE IN THE VICINITY OF EXISTING TREES WHERE TRENCHING MAY DAMAGE TREE ROOT SYSTEM.
SLEEVES: SLEEVES AND SLEEVE SEALS SHALL BE PROVIDED AT PENETRATIONS OF WALL ASSEMBLIES.
SUBMITTALS: ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY CODE.
REPAIRS: THE CONTRACTOR SHALL REPAIR ALL WALL, CEILING, FLOOR, OR ROOF OPENINGS WHICH ARE CREATED BY DEMOLITION OR PENETRATION. THE REPAIRS SHALL BE WITH MATERIAL AND FINISHES TO MATCH EXISTING ADJACENT UNDISTURBED FINISHED SURFACES.
IDENTIFICATION: ALL ELECTRICAL DISTRIBUTION EQUIPMENT, TRANSFORMERS, PANELBOARDS, AND OTHER ENCLOSED EQUIPMENT SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS. SAID IDENTIFICATION SHALL CONSIST OF PERMANENTLY ATTACHED ENGRAVED LAMINATED PLASTIC LABELS. EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND SCHEDULED INSIDE PANEL DOOR WITH A TYPED CIRCUIT DIRECTORY. EACH BRANCH CIRCUIT SPICE OR TERMINATION SHALL BE IDENTIFIED BY PANEL AND CIRCUIT DESIGNATION SHOWN ON THE JUNCTION OR OUTLET BOX, OR UPON INDIVIDUAL WIRES IN CASES WHERE MORE THAN ONE OF EACH PHASE CONDUCTOR OCCUR. RECEPTABLES AND SWITCH COVER PLATES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION USING TYPED WRITTEN CHARACTERS OF CONTRASTING COLOR (BLACK OR WHITE) ON CLEAR ADHESIVE BACKED LABELS OR FACTORY ENGRAVED COVER PLATES.
PANEL CLEARANCE: MAINTAIN ALL WORKING SPACE AND DEDICATED EQUIPMENT SPACE CLEARANCES AS REQUIRED BY ARTICLE 110 OF THE NEC. GENERAL CONTRACTOR SHALL COORDINATE BETWEEN TRADES SO THAT NO FOREIGN SYSTEMS ARE LOCATED IN THE DEDICATED EQUIPMENT SPACE. IN THE EVENT THAT FOREIGN SYSTEMS ARE INSTALLED ABOVE A PANEL'S DEDICATED EQUIPMENT SPACE, THE GENERAL CONTRACTOR SHALL ASSESS THE COST TO RELOCATE THE FOREIGN SYSTEMS.
WIRING DEVICES: WIRING DEVICES AND COVER PLATES SHALL BE DECORA STYLE OF COLORS SELECTED BY THE ARCHITECT OR INTERIOR DESIGNER. GAG ADJACENT DEVICES WITH A SINGLE ONE-PIECE COVER PLATE, UNO. FOR REMODELS, ALL DEVICES AND COVER PLATES WITHIN THE CONTRACT AREA SHALL BE REPLACED WITH NEW DECORA STYLE DEVICES AND COVER PLATES, UNO.
CLEANING: UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC. ALL EQUIPMENT AND DEVICES SHALL BE CLEANED AND POLISHED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SOAP AND WATER CLEANING OR OTHER METHODS THAT LEAVE A FILM SHALL BE CORRECTED UPON REQUEST BY THE ENGINEER OR ARCHITECT.
TESTING: THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO THE OWNER ITS PROPER OPERATION. AT THE TIME OF FINAL INSPECTION AND TESTS, ALL CONNECTIONS AT PANELBOARDS, CONTROL PANELS, DEVICES, AND EQUIPMENT AND ALL SPICES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS.
TRAINING: OWNER AND/OR OWNER'S REPRESENTATIVE SHALL BE TRAINED ON THE USE OF ANY NEW ELECTRICAL EQUIPMENT AND LIGHTING CONTROLS PRIOR TO FINAL ACCEPTANCE.
FINAL ACCEPTANCE: AT THE END OF CONSTRUCTION, A FINAL WALK-THROUGH SHALL BE PERFORMED. ALL DEFICIENCIES IDENTIFIED DURING FINAL INSPECTION SHALL BE CORRECTED.
CERTIFICATES OF APPROVAL: ALL CERTIFICATES OF APPROVAL SHALL BE IN DUPLICATE, DELIVERED TO THE ARCHITECT, AND BECOME THE PROPERTY OF THE OWNER.
PROJECT RECORD DOCUMENTS: THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE AND ONE COPY GIVEN TO THE ENGINEER UPON COMPLETION OF WORK. DRAWINGS SHALL INCLUDE AT A MINIMUM:
A. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
B. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
OPERATIONS AND MAINTENANCE (O&M) MANUALS: PROVIDE TWO COPIES OF OPERATIONS AND MAINTENANCE MANUALS TO THE BUILDING OWNER IN HARD COPY AND ELECTRONIC FORMAT. HARD COPIES SHALL BE COMPILED AND ORGANIZED IN A BINDER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING INFORMATION:
A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
B. OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
D. WARRANTY INFORMATION.
WARRANTY: THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE HANDED OVER IN PROPER WORKING ORDER. ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FOR ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE SHALL BE REPLACED WITHOUT CHARGE. IF MATERIALS HAVE A STANDARD WARRANTY GREATER THAN ONE YEAR, THE MANUFACTURER'S STANDARD WARRANTY SHALL APPLY. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL DEFECTS IDENTIFIED BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD, BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC. INSTALLED BY HIM, AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.

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PROJECT NUMBER
CEF22-EIS-DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
McLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

Table with 2 columns: Date, Description. Rows include 09-09-20, 10-08-20, 11-10-20, 02-16-23, 03-14-24, 03-28-24.

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, ESI ENGINEERING, INC. (E, N, C, E, E, P, I, N, C.)

Table with 3 columns: No., Date, Description. Header row: NO. DATE DESCRIPTION.

ELECTRICAL GENERAL NOTES AND LEGEND

EIS

ELECTRICAL SPECIFICATIONS - GENERAL REQUIREMENTS

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
 - A. The general provisions of the contract including General and Special Conditions and General Requirements shall apply to all work under this Section.
- 1.02 REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS
 - A. Equipment, fixtures, material and installation shall conform to the requirements of the local Building Department, the serving utility companies, the National Electrical Code, National Electrical Safety Code, Life Safety Code, Occupational Safety and Health Act, and applicable national, state and local codes, ordinances and regulations.
 - B. All equipment shall be equal to or exceed the minimum requirements of NEMA, IEEE, and UL.
 - C. Should any change in Drawings or Specifications be required to comply with governmental regulations, the Contractor shall notify Architect/Engineer prior to execution of the Work. The work shall be carried out according to the requirements of such code in accordance with the instruction of the Architect/Engineer and at no additional cost to the Owner.
 - D. The provisions of Standards, Codes, Laws, Ordinances, etc., shall be considered minimum requirements. In case of conflict between their published requirements, the Owner's Representative shall determine which is to be followed and his decision shall be binding. Specific requirements of this specification or the drawings, which exceed the published requirements, shall take precedence over them.
- 1.03 FEES
 - A. All local fees, permits, and services of inspection authorities shall be obtained and paid for by the Contractor. The Contractor shall cooperate fully with local companies with respect to their services. Contractor shall include in his bid any costs to be incurred relative to power service (primary and/or secondary) and telephone service.
- 1.04 SCOPE OF WORK
 - A. This division of the specifications covers the electrical systems of the project. It includes work performed by the electrical trades as well as trades not normally considered as electrical trades.
 - B. Provide all incidentals, equipment, appliances, services, hoisting, scaffolding, supports, tools, supervision, labor consumable items, fees, licenses, etc., necessary to provide complete systems. Perform start-up and checkout on each item and system to provide fully operable systems.
 - C. Examine and compare the Electrical Drawings with these specifications, and report any discrepancies between them to the Architect/Engineer and obtain from him written instructions for changes necessary in the work. At time of bid the most stringent requirements must be included in the bid.
 - D. Examine and compare the Electrical Drawings and Specifications with the Drawings and Specifications of other trades, and report any discrepancies between them to the Architect/Engineer and obtain from him written instructions for changes necessary in the work. At time of bid, the most stringent requirements must be included in said bid.
 - E. Install and coordinate the electrical work in cooperation with other trades installing interrelated work. Before installation, make proper provisions to avoid interferences in a manner approved by the Architect/Engineer. All changes required in the work of the Contractor, caused by his neglect to do so, shall be made by him at his own expense.
 - F. It is the intent of the Drawings and Specifications to provide a complete workable system ready for the Owner's operation. Any item not specifically shown on the Drawings or called for in the Specifications, but normally required to conform with the intent, are to be considered a part of the Contract.
 - G. All materials furnished by the Contractor shall be new and unused (temporary lighting and power products are excluded) and free from defects. All materials used shall bear the Underwriter's Laboratory, Inc. label provided a standard has been established for the material in question.
 - H. Except for conduit, conduit fittings, outlet boxes, wire and cable, all items of equipment or material shall be the product of one manufacturer throughout the entire project. Multiple manufacturers will not be permitted.
- 1.05 REFERENCES
 - A. Utilize the following abbreviations and definitions for discernment within the Drawings and Specifications.
 - 1. Abbreviations
 - a) NEC National Electrical Code.
 - b) OSHA Occupational Safety and Health Act.
 - c) ANSI American National Standards Institute.
 - d) NFPA National Fire Protection Association.
 - e) ASA American Standards Association.
 - f) IEEE Institute of Electrical and Electronics Engineers.
 - g) NEMA National Electrical Manufacturers Association.
 - h) UL Underwriters' Laboratories, Inc.
 - i) IES Illuminating Engineering Society.
 - j) ICEA Insulated Cable Engineers Association.
 - k) ASTM American Society of Testing Materials.
 - l) ETL Electrical Testing Laboratories, Inc.
 - m) CBM Certified Ballast Manufacturers.
 - n) EIA Electronic Industries Association.
 - o) LED Light Emitting Diode.
 - p) OEM Original Equipment Manufacturer.
- 1.06 DEFINITIONS
 - A. "PROVIDE" means to supply, purchase, transport, place, erect, connect, test, and turn over to Owner, complete and ready for regular operation, the particular Work referred to.
 - B. "INSTALL" means to join, unite, fasten, link, attach, set up, or otherwise connect together before testing and turning over to Owner, complete and ready for regular operation, the particular Work referred to.
 - C. "FURNISH" means to supply all materials, labor, equipment, testing apparatus, controls, tests, accessories, and all other items customarily required for the proper and complete application for the particular Work referred to.
 - D. "WIRING" means the inclusion of all raceways, fittings, conductors, connectors, tape, junction and outlet boxes, connections, splices, and all other items necessary and/or required in connection with such Work.
 - E. "CONDUIT" means the inclusion of all fittings, hangers, supports, sleeves, etc.
 - F. "AS DIRECTED" means as directed by the Architect/Engineer, or his representative.
 - G. "CONCEALED" means embedded in masonry or other construction, installed behind wall furring or within double partitions, or installed above hung ceilings.
- 1.07 COORDINATION OF THE WORK
 - A. Certain materials will be provided by other trades. Examine the Contract Documents to ascertain these requirements.
 - B. Carefully check space requirements with other trades and the physical confines of the area to insure that all material can be installed in the spaces allotted thereto including finished suspended ceilings and the spaces within the existing building. Make modifications thereto as required and approved.
 - C. Transmit to other trades all information required for work to be provided under their respective Sections in ample time for installation.
 - D. Wherever work interconnects with work of other trades, coordinate with other trades to insure that all trades have the information necessary so that they may properly install all the necessary connections and equipment. Identify all items of work that require access so that the ceiling trade will know where to install access doors and panels.
 - E. Coordinate, project and schedule work with other trades in accordance with the construction sequence.
 - F. The Drawings show only the general run of raceways and approximate location of outlets. Any significant changes in location of outlets, cabinets, etc., necessary in order to meet field conditions shall be brought to the immediate attention of the Architect/Engineer and receive his approval before such alterations are made. All such modifications shall be made without additional cost to the Owner.
 - G. Obtain from the Architect/Engineer in the field the location of such outlets or equipment not definitely located on the Drawings.
 - H. Circuit "tags" in the form of arrows are used where shown to indicate the home runs of raceways to electrical distribution points. These tags show the circuits in each home run and the panel designation. Show the actual circuit numbers on the finished record drawings and on panel directory card. Where circuiting is not indicated, Electrical Subcontractor must provide required circuiting in accordance with the loading indicated on the drawings and/or as directed.
 - I. Adjust location of conduits, panels, equipment, pull boxes, fixtures, etc. to accommodate the work to prevent interferences, both anticipated and encountered. Determine the exact route and location of each raceway prior to fabrication.
 - 1. Right-of-Way
 - a) Lines that pitch have the right-of-way over those that do not pitch. For example: steam, condensate, and plumbing drains normally have right-of-way. Lines whose elevations cannot be changed to have right-of-way over lines whose elevations can be changed.
 - b) Make offsets, transitions and changes in direction in raceways as required to maintain proper headroom in pitch of sloping lines whether or not indicated on the Drawings.
 - J. Wherever the work is of sufficient complexity, prepare additional Detail Drawings to scale similar to that of the bidding Drawings, prepared on tracing medium of the same size as Contract Drawings. With these layouts, coordinate the work with the work of other trades. Such detailed work to be clearly identified on the Drawings as to the area to which it applies. Submit for review Drawings clearly showing the work and its relation to the work of other trades before commencing shop fabrication or erection in the field.
 - K. Coordinate with the local Electric Utility Company and the local Telephone Company as to their requirements for service connections and provide all necessary materials, labor and testing.
 - L. Coordinate with contractors for work under other Divisions of this specification for all work necessary to accomplish this contractor's work.
- 1.08 EXAMINATION OF SITE
 - A. Prior to the submitting of bids, the Contractor shall visit the site of the job and shall familiarize himself with all conditions affecting the proposed installation and shall make provisions as to the cost thereof. Failure to comply with the intent of this paragraph will in no way relieve the contractor of performing all necessary work shown on the Drawings.

- 1.09 PROGRESS OF WORK
 - A. The Contractor shall order the progress of his work to conform to the progress of the work of other trades and shall complete the entire installation as soon as the conditions of the building will permit. Any cost resulting from the defective or ill-timed work performed under this section shall be borne by the Contractor.
- 1.10 DELIVERY, STORAGE, AND HANDLING
 - A. Ship and store all products and materials in a manner that will protect them from damage, weather and entry of debris. If items are damaged, do not install, but take immediate steps to obtain replacement or repair. Any such repairs shall be subject to review and acceptance of the Architect/Engineer.
 - B. Deliver materials in manufacturer's unopened container fully identified with manufacturer's name, trade name, type, class, grade, size and color.
 - C. Store materials suitably sheltered from the elements, but readily accessible for inspection by the Architect/Engineer until installed. Store all items subject to moisture damage in dry, heated spaces.
- 1.11 EQUIPMENT ACCESSORIES
 - A. Provide supports, hangers and auxiliary structural members required for support of the work.
 - B. Furnish and set all sleeves for passage of raceways through structural, masonry and concrete walls of floors and elsewhere as will be required for the proper protection of each raceway passing through building surfaces.
 - C. Wall mounted equipment may be directly secured to wall by means of steel bolts. Maintain at least 1" air space between equipment and supporting wall. Groups or arrays of equipment may be mounted on adequately sized steel angles, channels, or bars. Prefabricated steel channels providing a high degree of mounting flexibility, such as those manufactured by Kindorf, Glob-Strutt and Unistrut, may be used for mounting arrays of equipment.
- 1.12 OPERATIONS AND MAINTENANCE MANUALS
 - A. General: Provide operations & maintenance (O&M) manuals in accordance with the Contract Documents.
 - 1. Provide two (2) copies of each manual.
 - 2. Manuals shall be 8-1/2 inches X 11 inches in hard cover 3-ring loose-leaf binders.
 - 3. Manuals shall be complete and in Owner's hands prior to turning building over to Owner and at least 10 days prior to instruction to operating personnel.
 - B. Provide manufacturer's literature as regularly published by the respective manufacturers for proper preventative and comprehensive maintenance.
 - C. Provide O&M manuals including but not limited to the following:
 - 1. Alphabetical list of all system components, with the name, address, and 24-hour phone number of the company responsible for servicing each item during the first year of operation.
 - 2. Operating instructions for complete system including:
 - a) Normal starting, operating, and shut-down.
 - b) Emergency procedures for fire or failure of major equipment.
 - c) Summer and winter special procedures, if any.
 - d) Day and night special procedures, if any.
 - 3. Maintenance instruction including:
 - a) Proper lubricants and lubricating instructions for each piece of equipment, and date when lubricated.
 - b) Necessary cleaning, replacement and/or adjustment schedule.
 - 4. Manufacturer's data for each piece of equipment including:
 - a) Installation instructions.
 - b) Drawings and specifications.
 - c) Parts list, including recommended items to be stocked.
 - d) Complete wiring diagrams.
 - e) Marked or changed prints locating all concealed parts and all variations from the original system design.
 - f) Test and inspection certificates.
 - D. Refer to individual specification sections for additional O&M requirements.
- 1.13 RECORD DOCUMENTS
 - A. During construction, keep an accurate record of all deviations between the work as shown on Drawings and that which is actually installed. Keep this record set of prints at the job site for review by the Architect/Engineer.
 - B. Upon completion of the installation and acceptance by the owner, transfer all record drawing information to one neat and legible set of prints. Then deliver them to the Architect/Engineer for transmittal to the Owner.
 - C. Provide in each main electrical switchboard room a framed copy under glass of the appropriate Single Line Riser Diagram as reviewed by the electrical engineer. Media shall be a high quality presentation type paper. Blueprints or other media which fade shall not be used.
- 1.14 GUARANTEE
 - A. Guarantee all material and workmanship for a period of one (1) year from date of final acceptance by the Owner, except that where guarantees or warranties for longer terms are specified herein, such longer term to apply. Within 24 hours after notification, correct any deficiencies that occur during the guarantee period at no additional cost to the Owner, all to the satisfaction of the Owner and Architect/Engineer. Obtain similar guarantees from subcontractors, manufacturers, suppliers and subtrade specialists.

PART 2 - PRODUCTS

- 2.01 MATERIALS
 - A. Applicable equipment and materials shall be listed by Underwriters' Laboratories and Manufactured in accordance with ASME, NEMA, ANSI or IEEE standards, and as approved by local authorities having jurisdiction as mentioned in Division 1.
 - B. If products and materials are specified or indicated on the Drawings for a specific item or system, use those products or materials. If products and materials are not listed in either of the above, use first class products and materials, subject to approval of Shop Drawings where Shop Drawings are required or as approved in writing where Shop Drawings are not required.
 - C. All equipment capacities, etc. are listed for job site operating conditions. All equipment sensitive to altitudes or ambient temperatures to be indicated on Shop Drawings. Where operating conditions shown differ from the laboratory test conditions, the equipment to be derated and the method of derating shown on Shop Drawings.
- 2.02 SUBSTITUTION OF MATERIALS OR EQUIPMENT
 - A. All requests for substitution of materials or equipment shall be made in writing by the Contractor. The request must be in the Engineers' office not less than 10 days prior to the bid date. Samples of proposed substitute materials or equipment shall be submitted to the Engineer for review whenever they are requested. Bids shall be based only upon the specified materials and equipment, or substitutes that have received written acceptance from the Engineer prior to the bid.
 - B. Wherever the words "for approval" or "approved" are used in regard to manufactured specialties, or wherever it is desired to substitute a different make or type of apparatus for that specified, submit all information pertinent to the adequacy and adaptability of the proposed apparatus, and secure Architect/Engineer's acceptance before apparatus is ordered.
 - C. Wherever quantities or a definite make and size of apparatus is specified, the make and size of apparatus which is proposed must conform substantially (in regard to the operating results) to that specified or implied. Same shall apply to important dimensions relating to operation of apparatus in coordination with the rest of the system, or to properly fitting it into available space conditions. Any substitution of equipment or apparatus shall include all necessary revisions, as required to complete the installation.
 - D. Acceptance of substitutions, for equipment specified herein, will not be given merely upon submission of manufacturer's names and will be given only after receipt of complete and satisfactory performance data covering the complete range of operating conditions in tabular and graphical form. Furnish complete and satisfactory information relative to equipment dimensions, weight, etc. Acceptance of all equipment specified or shown on the Drawings, or substitutions submitted for that specified or shown on the Drawings, will be granted if such equipment, in the opinion of the Architect/Engineer, conforms to the performance requirements, space conditions, weight requirements and quality requirements. Any additional construction and design costs incurred as a result of any accepted substitution shall be borne by the Contractor. The opinion and judgement of the Architect/Engineer shall be final, conclusive, and binding.
- 2.03 SHOP DRAWINGS
 - A. Prepare and submit detailed Shop Drawings for materials, systems, and equipment as listed herein, including locations and sizes of all openings in floor decks, walls, and floors.
 - B. The Work described in any Shop Drawing submission shall be carefully checked for all clearances (including those required for maintenance and servicing), field conditions, maintenance of architectural conditions, and proper coordination with all trades on the job. Each submitted Shop Drawing shall include a certification that all related job conditions have been checked and that no conflict exists.
 - C. All drawings shall be submitted sufficiently in advance of field requirements to allow ample time for checking and resubmittal as may be required. All submittals shall be complete and contain all required and detailed information.
 - D. Acceptance of any submitted data or Shop Drawings for material, equipment apparatus, devices, arrangements, and layout shall not relieve Contractor from responsibility of furnishing some of proper dimensions and weight, capacities, sizes, quantity, quality and installation details, to efficiently perform the requirements and intent of the Contract. Such acceptance shall not relieve Contractor from responsibility for errors, omissions, or inadequacies of any sort on submitted data or Shop Drawings.
 - E. Each Shop Drawing shall contain the following information.
 - 1. Provide general information on each copy of the submittal.
 - a) Project title.
 - b) Reference to the applicable drawing and specification article.
 - c) Contractor and supplier identification, addresses and telephone numbers.
 - d) Submittal Date.
 - 2. Certification that the contractor has reviewed the submittal.
 - 3. Refer to individual specification sections for additional information requirements.
 - F. Shop Drawing submittals shall be provided for each specific material, system, or equipment as identified herein.
 - 1. As a minimum, make submittals on the following items:
 - a) Raceways, conduit & wire
 - b) Wiring devices and plates
 - c) Switchboards
 - d) Transformers
 - e) Panelboards
 - f) Fuses
 - g) Disconnect switches
 - h) Motor control centers
 - i) Motor controllers, starters, and contactors
 - j) Lighting fixtures, lamps
 - k) Instrumentation, metering equipment
 - l) Special systems - fire alarm, security, CCTV, intercom, etc.
 - 2. Refer to individual specification sections for additional submittal requirements.

PART 3 - EXECUTION

- 3.01 INSTALLATION
 - B. Follow manufacturer's instructions for installing, connecting, and adjusting all equipment. Provide one copy of such instructions to the Architect/Engineer before installing any equipment. Provide a copy of such instructions at the equipment during any work on the equipment. Provide all special supports, connections, wiring, accessories, etc.
 - C. Use mechanics skilled in their trade for all work.
 - D. Keep all items protected before and after installation. Clean up all debris.
 - E. Before commencing Work, examine all adjoining, underlying, etc., Work on which this Work is in any way dependent for perfect workmanship and report any condition which prevents performance of first class work. Become thoroughly familiar with actual existing conditions to which connections must be made or which must be changed or altered.
- 3.02 PREMIUM TIME WORK
 - A. The following Work shall be performed at night or weekend other than holiday weekends as directed and coordinated with the Owner.
 - 1. All tie-in, cut-over and modifications to the existing electrical system and other existing system requiring tie-ins or modifications shall be arranged and scheduled with the Owner to be done at a time as to maintain continuity of the service and not interfere with normal building operations.
- 3.03 EXCAVATION, TRENCHING AND BACKFILL
 - A. Provide excavation for the Work. Excavate all material encountered, to the depths indicated on the drawings or required. Remove from the site, excavated materials not required or suitable for backfill. Provide grading, as may be necessary, to prevent surface water from flowing into trenches or other excavations. Remove any water accumulating therein. Provide shoring and shoring as may be necessary for the protection of the Work and for the safety of personnel.
 - B. Provide trenches of widths necessary for the proper execution of the Work. Grade bottom of the trenches accurately to provide uniform bearing and support the Work on undisturbed soil at every point along its entire length. Except where rock is encountered, do not excavate below the depths indicated. Where rock excavations are required, excavate rock to a minimum overdepth of four (4") inches below the trench depths indicated on the Drawings or required. Backfill overdepths in the rock excavation and unauthorized overdepths with loose granular, moist earth, thoroughly machine tamped, to a compaction level of at least 95 percent to standard proctor density or 75 percent relative density or as specified by the Architect. Whenever unstable soil that is incapable of properly supporting the Work, as determined by Architect/Engineer, is encountered in the bottom of the trench, remove soil to a depth required and backfill the trench to the proper grade with coarse sand, fine gravel, or other suitable material.
 - C. Excavate trenches for utilities to a depth that will provide the following minimum depths of cover from existing grade or from indicated finished grade, whichever is lower, unless otherwise specifically shown.
 - 1. Primary electric service: four (4) feet (minimum)
 - 2. Secondary electric service: two (2) feet (minimum)
 - 3. Telephone service: two (2) feet (minimum)
 - D. Trenches shall not be placed within ten (10) feet of foundation or soil surfaces which must resist horizontal forces.
 - E. Do not backfill trenches until all required tests have been performed and the installation observed by the Engineer. Comply with the requirements of other sections of these specifications. Backfill shall consist of non-expansive soil with limited porosity. Deposit in six (6") inch layers and thoroughly and carefully tamp until the Work has a cover of not less than one (1) foot. Backfill and tamp remainder of trench at twelve (12") inch intervals until complete. Uniformly grade the finished surface. Backfill and tamp with compaction at least equal to the surrounding area.
- 3.04 CUTTING, PATCHING AND REPAIRING
 - A. The work shall be carefully laid out in advance. Where cutting, channeling, chasing or drilling of floors, walls, partitions, ceilings or other surfaces is necessary for the proper installation, support or anchorage of raceway, outlets or other equipment, the work shall be carefully done. Any damage to the building, piping, equipment or defaced finish plaster, woodwork, metalwork, etc. shall be repaired by skilled mechanics of the trades involved at no additional cost to the Owner.
 - B. Where conduits, mounting channels, outlet, junction, or pull boxes are mounted on a painted surface, or a surface to be painted, they shall be painted to match the surface. Whenever support channels are cut, the bare metal shall be cold galvanized.
- 3.05 DEMOLITION AND CONTINUANCE OF EXISTING SERVICES
 - A. All existing electrical services not specifically indicated to be removed or altered shall remain as they presently exist.
 - B. Should any existing services interfere with new construction, the Contractor shall (after obtaining written approval from the Architect/Engineer) alter or reroute such existing equipment to facilitate new construction.
 - C. Under no circumstances shall existing services be terminated or altered unless deemed necessary by the Architect/Engineer or specified herein; also, prior to altering any existing situation, the Contractor shall notify the Owner in writing giving two (2) weeks advance notice of planned alteration.
 - D. It shall be solely the Contractor's responsibility to guarantee continuity of present facilities (with respect to damage or alteration due to new construction) and any unauthorized alteration to existing equipment shall be corrected by the Contractor to the Architect/Engineer's satisfaction at the Contractor's expense.
- 3.06 CLEANING UP
 - A. Contractor shall take care to avoid accumulation of debris, boxes, crates, etc., resulting from the installation of his work. Contractor shall remove from the premises each day all debris, boxes, etc., and keep the premises clean.
 - B. Contractor shall clean up all fixtures and equipment at the completion of the project.
 - C. All switchboards, panelboards, wireways, trench ducts, cabinets and enclosures shall be thoroughly vacuumed clean prior to energizing equipment and at the completion of the project. Equipment shall be opened for observation by the Architect/Engineer as required.
- 3.07 WATERPROOFING
 - A. Avoid, if possible, the penetration of any waterproof membranes such as roofs, machine room floors, basement walls, and the like. If such penetration is necessary, perform it prior to the waterproofing and furnish all sleeves or pish-pockets required. Advise the Architect/Engineer and obtain written permission before penetrating any waterproof membrane, even where such penetration is shown on the Drawings.
 - B. If Contractor penetrates any walls or surfaces after they have been waterproofed, he shall restore the waterproof integrity of that surface as directed by the Architect/Engineer at his own expense.
- 3.08 SUPPORTS
 - A. Support work in accordance with the best industry practice and the following.
 - a) Include supporting frames or racks extending from building structure for work indicated as being supported from walls
 - b) where the walls are incapable of supporting the weight. In particular, provide such frames or racks in electric closets.
 - c) Include supporting frames or racks for equipment, intended for vertical surface mounting, which is required in a free standing position.
 - D. Supporting frames or racks shall be of standard angle, standard channel or specialty support system steel members. They shall be rigidly welded to form a substantial structure. Racks shall be of ample size to assure a workmanlike arrangement of all equipment mounted on them.
 - E. Nothing, (including outlet, pull and junction boxes and fittings) shall depend on electric conduits, raceways, or cables for support, except that threaded hub type fittings having a gross volume not in excess of 100 cubic inches may be supported from heavy wall conduit, where the conduit is securely supported from the structure within five inches of the fitting on two opposite sides.
 - F. Nothing shall rest on, or depend for support on, suspended ceilings media (tiles, lath, plaster, as well as spines, runners, bars and the like in the plane of the ceiling).
 - G. Provide required supports and hangers for conduit, equipment, etc., so that loading will not exceed allowable loadings of structure.
- 3.09 FASTENINGS
 - A. Fasten electric work to building structure in accordance with the best industry practice and the following.
 - a) Floor or pad mounted equipment shall not be held in place solely by its own dead weight. Include anchor fastening in all cases.
 - b) For items which are shown as being ceiling mounted at locations where fastening to the building construction element above is not possible, provide suitable auxiliary channel or angle iron bridging, tying to the building structural elements.
- 3.10 TESTING EQUIPMENT AND MATERIALS
 - A. The Contractor shall provide all testing instruments, equipment and all materials, connections, labor, etc., required to perform tests.
 - B. Test all circuits, fixtures, equipment, and systems for proper operation and freedom from grounds, shorts and open circuits before acceptance is requested.
 - C. Measure voltage at panelboards and outlets after the building is fully occupied. Make final transformer tap adjustments based on these measurements.
 - D. Perform all tests required by local authorities, such as tests of life safety systems, in addition to tests specified herein.
 - E. Perform tests required by other specification sections.

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PROJECT NUMBER
CEF22-EIS2.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 MCLENNAN COUNTY
 A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
 FIRM F-13071

 DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, ESI ENGINEERING INC.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE

ELECTRICAL SPECIFICATIONS

DRAWING NUMBER
EIS2
SHEET NO.

KEYED NOTES:

- 1. **EQUIPMENT GFCI PROTECTION:** REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER.
- 2. NOT USED.
- 3. **IPC UNINITIALIZED SWITCHGEAR:** COORDINATE EXACT LOCATION WITH OTHER TRADES. REFER TO ELECTRICAL RISER DIAGRAM.
- 4. **MAC VICTOR UPS:** OWNER SUPPLIED 2KVA MAC VICTOR UPS WITH FOUR (4) 120V, 20A OUTPUT CIRCUITS. UPS TO BE MOUNTED ABOVE IPC PANEL, COORDINATE FINAL LOCATION WITH OWNER. PROVIDE 2-#12, #12 GND & #12 IG, 3/4" C FOR EACH OUTPUT BRANCH CIRCUIT.
 - 1. **MV #1:** BACK OFFICE POS HARDWARE (500VA).
 - 2. **MV #2:** TWO POS UNITS AT FROM SALES COUNTER (THE TWO CLOSEST TO FRONT/MAIN ACCESS) (400VA).
 - 3. **MV #3:** ONE POS UNIT (CLOSEST TO SIDE/END ACCESS) AND TELECOMMUNICATIONS CABINET (400VA).
 - 4. **MV #4:** IPC FUELING CABINET FOR POWERING VEEDER ROOT TLS 450 PLUS ATG, VERIFONE FCI FUEL CONTROLLER, AND WAYNE FUSION IX GATEWAY. (500VA)
- 5. **TBB TO OFFICE CONDUIT:** 2" CONDUIT WITH PULLWIRE ROUTED ABOVE CEILING FROM TBB IN UNINITIALIZED SWITCHGEAR IT RACK IN OFFICE.
- 6. **FUEL EQUIPMENT TO POS EQUIPMENT CONDUIT:** 2" W/ PULL STRING ROUTED ABOVE CEILING FROM FUEL EQUIPMENT IN UNINITIALIZED SWITCHGEAR TO POS EQUIPMENT IN BACK OFFICE.
- 7. **SWITCHED PLUG LOADS:** PROVIDE SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE FOR AUTOMATIC CONTROL OF TASK LIGHTING AND PLUG LOADS. CONNECT RECEPTACLES TO PLUG LOAD CONTROLLER IN THIS ROOM. REFER TO "WATTSTOPPER DLM SWITCHED PLUG LOAD WIRING DIAGRAM", DETAIL 5 ON SHEET E04B.

- 8. **COOLER/FREEZER THERMOSTAT:** PROVIDE WP JUNCTION BOX FOR COOLER / FREEZER THERMOSTAT. ROUTE 3/4" CONDUIT WITH CONTROL WIRING FROM REMOTE CONDENSERS TO EVAPORATOR(S) VIA THERMOSTAT. COORDINATE WITH COOLER / FREEZER SUPPLIER PRIOR TO ROUGH-IN.
- 9. **CEFCO EXTRAS:** CONTRACTOR TO PROVIDE: -(3) SPARE RECEPTACLES FOR 220V FUTURE SERVICE, WITH BLANK COVER PLATES FOR EACH. (18" A.F.F.) -(1) SPARE RECEPTACLE FOR 110V FUTURE SERVICE, WITH BLANK COVER PLATE. (18" A.F.F.).
- 10. **EMERGENCY FUEL SHUT-OFF (EFSO) PUSHBUTTON:** REFER TO TANK PLANS FOR EXACT LOCATION. PROVIDE J-BOX IN WALL WITH 1/2" CONDUIT STUBBED THROUGH WALL AND ROUTED TO DISPENSER DISCONNECT IN IPC UNINITIALIZED SWITCHGEAR ENCLOSURE.
- 11. **EMERGENCY FUEL SHUT-OFF (EFSO) PUSHBUTTON:** LOCATE PUSHBUTTON UNDER CASHIER COUNTER. ROUTE WIRING IN UNDER SLAB CONDUIT BACK TO DISPENSER DISCONNECT IN IPC UNINITIALIZED SWITCHGEAR ENCLOSURE. REFER TO UNDERSLAB ELECTRICAL PLAN.
- 12. **BOOST TRANSFORMER:** PROVIDE BOOST TRANSFORMER TO BOOST LINE VOLTAGE FROM 208V TO 230V. MOUNT TO STRUCTURAL STEEL ABOVE CEILING.
- 13. **COOLER EVAPORATORS:** PROVIDE 2P-20A WEATHERPROOF MOTOR RATED SWITCH. PROVIDE 3/4" CONDUIT WITH CONTROL WIRING FROM REMOTE CONDENSER TO EVAPORATOR(S) FOR CONTROLS. COORDINATE WITH COOLER / FREEZER SUPPLIER PRIOR TO ROUGH-IN.
- 14. **ICE MAKER:** ROUTE 3/4" CONDUIT WITH CONTROL WIRING FROM ICE MAKER TO REMOTE CONDENSER ON ROOF.
- 15. **WATER HEATER:** PROVIDE 2P-20A, MOTOR RATED SWITCH. MOUNT ON WALL ADJACENT TO WATER HEATER AND CONNECT TO WATER HEATER WITH FLEXIBLE CONDUIT.
- 16. **FAUCET SENSOR:** RECEPTACLE FOR POWER SUPPLY FOR TOUCHLESS OPERATION FAUCETS. ACCESS PANEL IS REQUIRED. GFCI PROTECTION PROVIDED BY BREAKER.

- 17. **INSECT LIGHT:** PROPOSED LOCATION OF INSECT LIGHT. FIELD VERIFY EXACT LOCATION WITH CEFCO FIELD REPRESENTATIVE PRIOR TO ROUGH-IN.
- 18. **METAL WHILE-IN-USE WEATHERPROOF COVER:** PROVIDE INTERMATIC WP1010MXD.
- 19. **PENETRATIONS IN WALK-IN AND STEP-IN COOLER/FREEZER/BEER CAVES:** ALL PENETRATIONS SHALL BE MADE THROUGH THE TOP OF THE COOLER/FREEZER BOX. REFER TO SEALING PENETRATION DETAIL ON SHEET E04B.
- 20. **WATER CLOSET // URINAL FLUSHVALVE SENSOR:** POWER SUPPLY FOR TOUCHLESS OPERATION FLUSHVALE. REFER TO DETAIL #3 ON SHEET E04B. ACCESS PANEL IS REQUIRED.
- 21. **TANKLESS GAS WATER HEATERS:** SUBCONTRACTOR TO MANIFOLD BOTH WATER HEATERS (REFER TO READY-LINK MANIFOLD SYSTEM SPECS). PROVIDE ELECTRICAL FOR THE IGNITION SWITCH.
- 22. **HEAT PRODUCING EQUIPMENT UNDER HOOD:** UPON ACTIVATION OF HOOD, THE SOLENOID AND ALL ELECTRICALLY POWERED ITEMS UNDER HOOD SHALL BE ELECTRICALLY DISCONNECTED VIA A RESETTABLE CONTACTOR.
- 23. **GREASE HOOD WITH FIRE SUPPRESSION:** PROVIDE SEPERATE 120V CIRCUITS TO LIGHTS (C-21) AND CONTROLS (C-23) FOR HOODS. WIRE SUPPLY AIR FAN AND EXHAUST AIR FAN THROUGH HOOD CONTROLLER. REFER TO LIGHTING PLAN FOR LIGHT FIXTURE DETAILS.
- 24. **ELECTRIC HAND DRYER:** EC TO FURNISH AND INSTALL VERDEdri Q-973A ELECTRIC HAND DYER.
- 25. **FASIWASH SYSTEM CONTROLS:** PROVIDE 3/4" C WITH (1) 20/6 CONTROL CABLE PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS. ROUTE FROM REMOTE CONTROL POINT TO MAIN UNIT[63].

GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO EQUIPMENT VENDOR, AND ARCHITECTURAL DRAWINGS FOR ALL REQUIRED ELECTRICAL DEVICES, DEVICE LOCATIONS, AND DEVICE MOUNTING HEIGHTS PRIOR TO BID / INSTALLATION. DRAWINGS ARE NOT TO BE SCALED.
2. COORDINATE ELECTRICAL REQUIREMENTS, MOUNTING AND CONNECTIONS WITH ALL EQUIPMENT VENDORS PRIOR TO PURCHASING ELECTRICAL DEVICES.

COOLER SUPPLIER:

STORE SOURCE INC.
GREGORY LAKIN
(830) 743 - 3088
GREG@STORESOURCEINC.COM
VERIFY WITH OWNER.

NOTE:

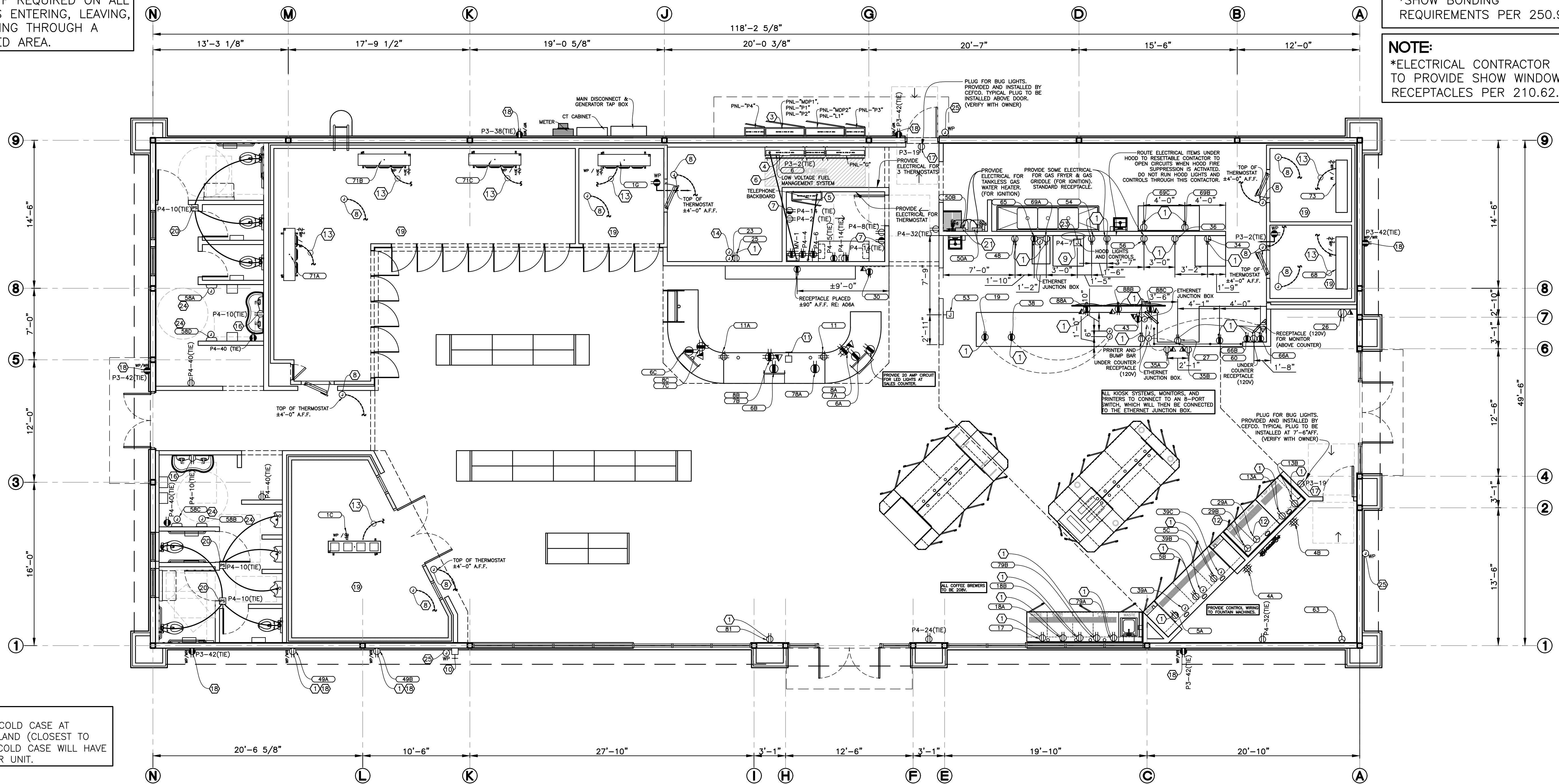
*SEAL OFF REQUIRED ON ALL CONDUITS ENTERING, LEAVING, OR PASSING THROUGH A CLASSIFIED AREA.

NOTE:

*SHOW BONDING REQUIREMENTS PER 250.94.

NOTE:

*ELECTRICAL CONTRACTOR TO PROVIDE SHOW WINDOW RECEPTACLES PER 210.62.



NOTE:

1 HUSSMAN COLD CASE AT MILLWORK ISLAND (CLOSEST TO ENTRANCE). COLD CASE WILL HAVE 1 CONDENSER UNIT.

1 FLOOR PLAN - ELECTRICAL POWER PLAN
SCALE: 3/16"=1'-0"
TOTAL AREA: 5,974 SQ. FT.

MANUEL F. BIRRIEL
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PROJECT NUMBER
CEFC22-FLR.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT

This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE
ELECTRICAL POWER PLAN

DRAWING NUMBER
E02

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KEYED NOTES:

- ① **CONDUIT STUB-UP:** COORDINATE EXACT STUB UP/RECEPTACLE LOCATION WITH EQUIPMENT VENDOR PRIOR TO START OF TRENCHING.
- ② **TELEPHONE SERVICE CONDUITS:** REFER TO SITE ELECTRICAL PLAN FOR REQUIREMENTS AND ROUTING.
- ③ **IPC UNITIZED SWITCHGEAR:** COORDINATE EXACT LOCATION WITH OTHER TRADES. REFER TO ELECTRICAL RISER DIAGRAM.
- ④ **CASHIER CONDUITS:** ROUTE CONDUITS FOR CASHIER COUNTER EQUIPMENT POWER BELOW SLAB FROM ELECTRICAL PANELS TO CASHIER COUNTER.
- ⑤ **CASHIER COUNTER TO OFFICE CONDUIT:** 2" C W/ PULL STRING ROUTED BELOW SLAB FROM CASHIER COUNTER TO OFFICE. REFER TO LOW VOLTAGE PLAN.
- ⑥ **CASHIER COUNTER TO FUEL EQUIPMENT CONDUIT:** 2" C W/ PULL STRING ROUTED BELOW SLAB FROM CASHIER COUNTER TO FUEL EQUIPMENT IN UNITIZED SWITCHGEAR.
- ⑦ **TELECOMMUNICATIONS CABINET:** IPC TELECOM CABINET WITH FIRE-RATED PLYWOOD BACKBOARD AND INTERSYSTEM GROUND BUS BAR. CONNECT GROUND BUS BAR TO BUILDING GROUNDING ELECTRODE SYSTEM WITH (1) #3/0 GROUND CONDUCTOR. COORDINATE WITH TELEPHONE COMPANY FOR REQUIREMENTS. COORDINATE WITH OWNER FOR FINAL LOCATION.
- ⑧ **C-STORE INCOMING FEEDERS:** REFER TO SITE PLAN AND RISER DIAGRAM.
- ⑨ **EMERGENCY FUEL SHUT-OFF (EFSO) PUSHBUTTON:** 3/4" CONDUIT FOR EFSO WIRING FROM CASHIER COUNTER TO DISPENSER DISCONNECT IN IPC SWITCHGEAR.
- ⑩ **CASHIER COUNTER CONDUITS:** STUB CASHIER COUNTER UNDERGROUND LV CONDUITS INTO FLUSH MOUNT 12"x12" ENCLOSURE. INSTALL ENCLOSURE BELOW COUNTER. COORDINATE WITH MILLWORK PRIOR TO ROUGH-IN.

- ⑪ **MERCHANDISER EQUIPMENT:** ROUTE 3/4" CONDUIT WITH CONTROL WIRING FROM MERCHANDISER TO REMOTE CONDENSER ON ROOF.
- ⑫ **ISLAND EQUIPMENT:** EC TO COORDINATE WITH EQUIPMENT MANUFACTURER AND VERIFY ALL EQUIPMENT STUB-UP LOCATIONS AND DEVICE LOCATIONS PRIOR TO ISLAND ROUGH-IN.
- ⑬ **CABINET LED:** PROVIDE JUNCTION BOX FOR CABINET LED.
- ⑭ **N/A**
- ⑮ **EQUIPMENT GFCI PROTECTION:** REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER.
- ⑯ **CONDUIT STUB-UP:** COORDINATE EXACT STUB UP LOCATION WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.

GENERAL NOTES:

- 1. CONTRACTOR SHALL REFER TO EQUIPMENT VENDOR, AND ARCHITECTURAL DRAWINGS FOR ALL REQUIRED ELECTRICAL DEVICES, DEVICE LOCATIONS, AND DEVICE MOUNTING HEIGHTS PRIOR TO BID / INSTALLATION. DRAWINGS ARE NOT TO BE SCALED.
- 2. COORDINATE ELECTRICAL REQUIREMENTS, MOUNTING AND CONNECTIONS WITH ALL EQUIPMENT VENDORS PRIOR TO PURCHASING ELECTRICAL DEVICES.

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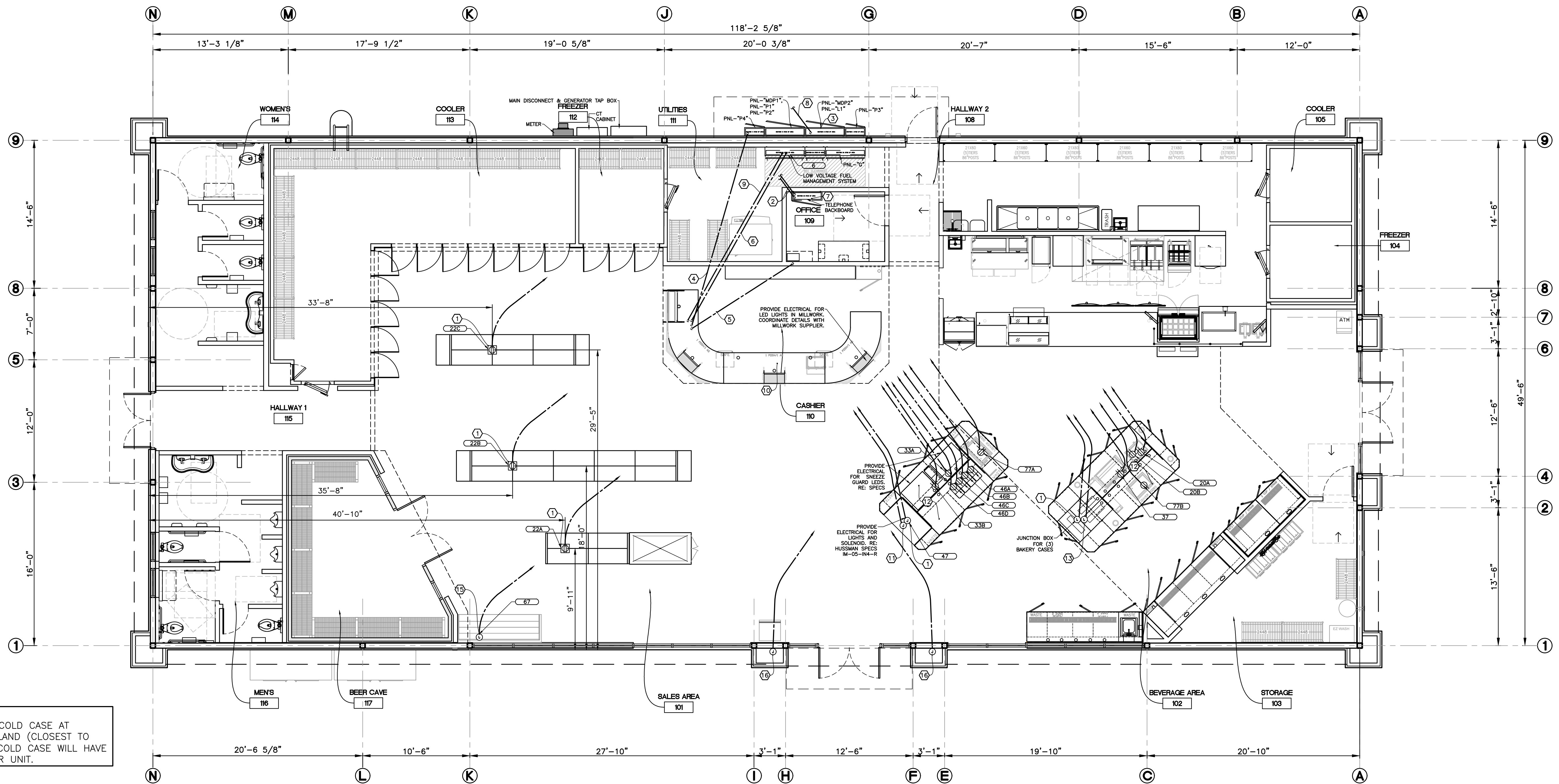
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
UNDERGROUND ELECTRICAL SLAB

DRAWING NUMBER
E02A



NOTE
1 HUSSMAN COLD CASE AT MILLWORK ISLAND (CLOSEST TO ENTRANCE). COLD CASE WILL HAVE 1 CONDENSER UNIT.

THERE ARE ADDITIONAL UNDERGROUND CONDUITS THAT WILL BE REQUIRED FOR SITE, FUEL SYSTEMS AND OTHER MISCELLANEOUS ITEMS. IT IS THE RESPONSIBILITY OF THE GC TO PROVIDE THE EC WITH A COMPLETE SET OF PLANS. THE EC SHALL PROVIDE ALL UNDERGROUND CONDUIT SYSTEMS NEEDED FOR A COMPLETE AND FULLY FUNCTION BUILDING INCLUDING UNDERGROUND CONDUIT SYSTEMS

1 FLOOR PLAN - UNDERSLAB ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

ELECTRICAL EQUIPMENT SCHEDULE:

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NUMBER	PHASE	VOLTAGE	AMPS	LOAD/W	NEMA CONFIGURATION	CONNECTION TYPE	CIRCUIT #	MOUNTING HEIGHT (AFF)	REMARKS
1B	BEER CAVE REMOTE CONDENSING UNIT	HEATCRAFT	MOZ025M63CF	3	208	16.00	5764	-	HARDWIRED	P1-7,9,11	ROOF	AIR DEFROST
1C	BEER CAVE EVAPORATORS	BOHN	SME130BEE	1	208	15.7	3266	-	HARDWIRED	P1-8,10	DOWN FROM ABOVE	EC MOTOR, AIR DEFROST [USING HEATERS]
101	COOLER DOOR HEATERS/LTS - RM 113	ANTHONY	101B NT 30X75 5DOOR	1	120	4.80	576	-	HARDWIRED	P3-8	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
102	COOLER DOOR HEATERS/LTS - RM 113	ANTHONY	101B NT 30X75 2DOOR	1	120	6.72	806	-	HARDWIRED	P3-10	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
103	FREEZER DOOR HEATERS/LTS - RM 112	ANTHONY	101B LT 30X75 3DOOR	1	120	2.88	346	-	HARDWIRED	P3-12	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
104	BEER CAVE DOOR HEATERS/LTS - RM 118			1	120	2.88	346	-	HARDWIRED	P3-14	DOWN FROM ABOVE	COORDINATE WITH DOOR SUPPLIER FOR FINAL CONNECTIONS
1F	3 DOOR FREEZER - REMOTE COND. UNIT	HEATCRAFT	MOZ055L63CF	3	208	30.00	10808	-	HARDWIRED	P1-13,15,17	ROOF	ELECTRIC DEFROST
1G	3 DOOR FREEZER - EVAPORATOR	HEATCRAFT	LET160BEX	1	208	15.7	3266	-	HARDWIRED	P1-14,16	DOWN FROM ABOVE	EC MOTOR, ELECTRIC DEFROST
1H1	WIF DOOR HEATER AND LIGHTS - RM 112			1	120	12.5	1500	-	HARDWIRED	P3-20		
1H2	WC DOOR HEATER AND LIGHTS - RM 113			1	120	12.5	1500	-	HARDWIRED	P3-22		
1H3	STEP-IN COOLER DOOR HTR & LTS RM 105			1	120	12.5	1500	-	HARDWIRED	P3-24		
1H4	STEP-IN FREEZER DOOR HTR & LTS RM 104			1	120	12.5	1500	-	HARDWIRED	P3-26		
4A	BAG-N-BOX		AS PER OWNER	1	120	3	360	5-20	PLUG-IN	P4-34	+80"	
4B	BAG-N-BOX		AS PER OWNER	1	120	3	360	5-20	PLUG-IN	P4-36	+80"	
5A	FOUNTAIN DISPENSER	CORNELIUS	FLAVOR FUSION	1	120	9.3	1116	5-20	PLUG-IN	P2-14		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
5B	FOUNTAIN DISPENSER	CORNELIUS	FLAVOR FUSION	1	120	9.3	1116	5-20	PLUG-IN	P2-16		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
5C	FOUNTAIN DISPENSER	CORNELIUS	FLAVOR FUSION	1	120	9.3	1116	5-20	PLUG-IN	P2-18		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
6A	FUEL MANAGEMENT SYSTEM		AS PER OWNER	1	120	3	360	5-20	PLUG-IN	P4-42 (TIE)		
6B	FUEL MANAGEMENT SYSTEM		AS PER OWNER	1	120	3	360	5-20	PLUG-IN	P4-42 (TIE)		
6C	FUEL MANAGEMENT SYSTEM		AS PER OWNER	1	120	3	360	5-20	PLUG-IN	P4-42 (TIE)		
7A	CASH REGISTER		AS PER OWNER	1	120	1.67	200	5-20	PLUG-IN	MV-2 (TIE)	UNDER COUNTER	CONNECTED TO MAC VICTOR UPS
7B	CASH REGISTER		AS PER OWNER	1	120	1.67	200	5-20	PLUG-IN	MV-2 (TIE)	UNDER COUNTER	CONNECTED TO MAC VICTOR UPS
7C	CASH REGISTER		AS PER OWNER	1	120	1.67	200	5-20	PLUG-IN	MV-2 (TIE)	UNDER COUNTER	CONNECTED TO MAC VICTOR UPS
8A	CREDIT CARD		AS PER OWNER	1	120	1.67	200	5-20	PLUG-IN	-	UNDER COUNTER	PLUG INTO CASH REGISTER 7A RECEPTACLE
8B	CREDIT CARD		AS PER OWNER	1	120	1.67	200	5-20	PLUG-IN	-	UNDER COUNTER	PLUG INTO CASH REGISTER 7B RECEPTACLE
8C	CREDIT CARD		AS PER OWNER	1	120	1.67	200	5-20	PLUG-IN	-	UNDER COUNTER	PLUG INTO CASH REGISTER 7C RECEPTACLE
11	UNDER COUNTER SAFE	ARMOR	CS6-7102	1	120	3.33	400	5-20	PLUG-IN	P4-16	UNDER COUNTER	
11A	UNDER COUNTER SAFE	ARMOR	CS6-7102	1	120	3.33	400	5-20	PLUG-IN	P4-38	UNDER COUNTER	
13A	TEA BREWER	BUNN	ITB-DEC DUAL	1	120	14	1700	5-20	PLUG-IN	P2-20		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER, 2WIRES PLUS GND
13B	TEA BREWER	BUNN	ITB-DEC DUAL	1	120	14	1700	5-20	PLUG-IN	P2-22		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER, 2WIRES PLUS GND
17	CAPPUCCINO MACHINE	BUNN	38600.033	1	120	15	1800	5-20	PLUG-IN	P2-23		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER, 2WIRES PLUS GND
18A	ICB TWIN SH. COFFEE BREWER	BUNN	51200.0100	1	208	25	5200	5-20	PLUG-IN	P2-6,8		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
18B	ICB TWIN SH. COFFEE BREWER	BUNN	51200.0100	1	208	25	5200	5-20	PLUG-IN	P2-28,30		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
19	HEATED DISPLAY CASE (COUNTERTOP)	HATCO	GRSDS-36T	1	208	20	4160	L14-20	PLUG-IN	P2-25	12"	BTC ON FIXTURE MTD. OUTLET
20A	MICROWAVE	PANASONIC	NE-1054F	1	120	12.1	1452	5-20	PLUG-IN	P2-37		
20B	MICROWAVE	PANASONIC	NE-1054F	1	120	12.1	1452	5-20	PLUG-IN	P2-39		
23	ICE MAKER	HOSHIZAKI	KM-1601SRJ	1	208	12.8	2662	-	HARDWIRED	P1-31,33		3 WIRE WITH NEUTRAL
24	ICE MAKER CONDENSER	HOSHIZAKI	URC-22F	1	120	-	-	-	HARDWIRED	P1-31,33	ROOF	POWER PROVIDED FROM ICE MAKER [23]
25	ICE BAGGER	KLOPPENBERG	DISP-1000	1	120	8.8	1056	5-20	PLUG-IN	P3-21		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
26	ATM - ANY CARD	AS PER OWNER		1	120	11.5	1380	5-20	PLUG-IN	P4-1		COORDINATE WITH EQUIP. MANUF. FOR RECEPTACLE REQUIREMENTS
27	PIZZA PREPARATION REFRIGERATOR	KELVINATOR	KCHM748.18	1	115	10	805	5-15	PLUG-IN	P4-17	12"	REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
28A	FROZEN UNCARBONATED BEVERAGE MACHINE	BUNN	58000.0011	1	120	12	1440	-	PLUG-IN	P3-6		
29B	FROZEN UNCARBONATED BEVERAGE MACHINE	BUNN	58000.0011	1	120	12	1440	-	PLUG-IN	P3-32		
30	LOTTO SCREEN	AS PER OWNER		1	120	4	480	5-20	PLUG-IN	P4-20		
33A	HOT DOG GRILL	STAR	75SCBDE	1	120	14.4	1728	5-20	PLUG-IN	P2-36		
33B	HOT DOG GRILL	STAR	75SCBDE	1	120	14.4	1728	5-20	PLUG-IN	P2-38		
34	HEATED LOW TEMP HOLDING CABINET	ALTO-SHAAM	500-2D	1	120		640		PLUG-IN	P1-5		
36	SANDWICH/SALAD PREP. REF.	KELVINATOR	KCHM729.12	1	115	2	575	5-15	PLUG-IN	P2-41	24"	REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
37	REFRIGERATED COUNTER DISPLAY	VOLLRATH	RDCCB-36SS	1	120	3.9	732	5-20	PLUG-IN	P4-21		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
38	HEATED MERCHANDISER	ALTO SHAAM	ED2-48	1	208	12	2500	L14-20	PLUG-IN	P4-23,25	12"	BTC ON FIXTURE MTD. OUTLET
39A	ICE MAKER	CORNELIUS	C569200079	1	120	15.2	1800	-	HARDWIRED	P1-35 (TIE)		
39B	ICE MAKER	CORNELIUS	C569200079	1	120	15.2	1800	-	HARDWIRED	P1-37 (TIE)		
39C	ICE MAKER	CORNELIUS	C569200079	1	120	15.2	1800	-	HARDWIRED	P1-39 (TIE)		
40A	ICE MAKER CONDENSER	CORNELIUS	C638090690	1	120	-	-	-	HARDWIRED	P1-35 (TIE)		POWER SUPPLIED FROM ICE MAKER[39A]
40B	ICE MAKER CONDENSER	CORNELIUS	C638090690	1	120	-	-	-	HARDWIRED	P1-37 (TIE)		POWER SUPPLIED FROM ICE MAKER[39B]
40C	ICE MAKER CONDENSER	CORNELIUS	C638090690	1	120	-	-	-	HARDWIRED	P1-39 (TIE)		POWER SUPPLIED FROM ICE MAKER[39C]
43	BOHA FOOD LABEL MAKER	TRANSACT	ACCUDATE 9700	1	120	10	1200	-	PLUG-IN	P4-19		NEEDS 3-PRONG PLUG (INSTALL A 4-PORT)
44	HUSSMAN REMOTE CONDENSING UNIT	KRACK	HTST-020PMSDT	1	208	16.03	3335	-	HARDWIRED	P2-27,29	ROOF	
46A	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204		PLUG-IN	P4-29 (TIE)		
46B	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204		PLUG-IN	P4-29 (TIE)		
46C	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204		PLUG-IN	P4-29 (TIE)		
46D	CHILI / CHEESE DISPENSER	GEHL'S		1	120	1.7	204		PLUG-IN	P4-29 (TIE)		
47	MULTI-DECK MERCHANDISER (MEDIUM TEMP)	HUSSMAN	IM-05-IN4-R	1	208	6	1248	-	HARDWIRED	P1-38,40		END PIECE
48	PIZZA PREP TABLE REF.	KELVINATOR	KCHPT72.9	1	115	4.5	800	5-15	PLUG-IN	P4-27	24"	REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
49A	ICE MECHANDISER	LEER	LO60SASP	1	120	7.2	1800	5-20	PLUG-IN	P1-24		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
49B	ICE MECHANDISER	LEER	LO60SASP	1	120	7.2	1800	5-20	PLUG-IN	P1-26		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
50A	TANKLESS GAS WATER HEATER (FOR IGNITION)	NAVIER	NPE-240A2-NG				350			P2-13		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
50B	TANKLESS GAS WATER HEATER (FOR IGNITION)	NAVIER	NPE-240A2-NG				350			P2-15		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
53	HEATED DISPLAY CASE (FLOOR MODEL)	ALTO-SHAAM	HSM-36/55/T	1	208	16.7	3474	-		P2-19,21	12"	CORD INCLUDED NO PLUG
54	REFRIGERATED CHEF BASE	KELVINATOR	KCHCB48R				200			P2-17		
56	DUAL GAS FRYERS (FOR IGNITION)	HENNY PENNY	0GA322.0				1440			P2-5		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
59	STEP-IN FREEZER - CONDENSING UNIT	HEATCRAFT	MOH025L63CF	3	208	16.8	6052	-	HARDWIRED	P1-25,27,29		END PIECE
60	DROP-IN HOT WELL	ALTO-SHAAM	300-HW/D6	1	208	6.5	1352	6-15	PLUG-IN	P1-28,30	24"	
63	EASIWASH WASH SYSTEM			1	208	19.2	4992	6-30	PLUG-IN	P2-10,12		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
65	VECTOR MULTI-COOK OVEN	ALTO-SHAAM	VMC-H4	3	208	33	11,886	15-50	PLUG-IN	P2-7,9,11	24"	REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
66A	FLAT TORTILLA PLATE	WARING	WSC300	1	120	15	1800	5-20	PLUG-IN	P4-18		
66B	FLAT TORTILLA PLATE	WARING	WSC300	1	120	15	1800	5-20	PLUG-IN	P4-35		
67	SSS COLD CASE	HUSSMAN	SSS-8M	1	208	12.2	2540	-	HARDWIRED	P3-16,18		
68	STEP-IN FREEZER - EVAPORATOR	BOHN	LT090BEX	1	208	7.8	1622	-	HARDWIRED	P1-20,22		
69A	CONVENIENCE OUTLET			1	120	3	360	-	PLUG-IN	P2-24		4 PORT REGULAR OUTLET (THAT CAN HOLD A NEMA 5-15P (SPRONG). REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
69B	CONVENIENCE OUTLET			1	120	3	360	-	PLUG-IN	P2-26		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
69C	CONVENIENCE OUTLET			1	120	3	360	-	PLUG-IN	P2-40		REQUIRED GFCI PROTECTION PROVIDED BY GFCI BREAKER
Q	EXHAUST FAN [KEF-1]	CAPTIVE-AIR	DUB5HFA	1	120	8.8	1056	-	HARDWIRED	P3-31		ROUTE THROUGH HOOD CONTROLLER PER MANUFACTURE'S INSTALLATION REQUIREMENTS
T	EXHAUST FAN [EF-1]	GREENHECK	G-123-VG	1	120	3.7	444	-	HARDWIRED	P3-39		

ELECTRICAL EQUIPMENT SCHEDULE (CONTINUED):

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NUMBER	PHASE	VOLTAGE	AMPS	LOAD/W	CONNECTION TYPE	CIRCUIT #	MOUNTING HEIGHT (AFF)	REMARKS
22A	GONDOLA RECEPTACLE			1	120	3	360	PLUG-IN	P4-26	FLOOR	5-20
22B	GONDOLA RECEPTACLE			1	120	3	360	PLUG-IN	P4-28	FLOOR	5-20
22C	GONDOLA RECEPTACLE			1	120	3	360	PLUG-IN	P4-30	FLOOR	5-20
35A	KIOSK STATION	BY OWNER	CUSTOM	1	120	15	1800	PLUG-IN	P3-43		VERIFY REQUIREMENTS WITH PROVIDER
35B	KIOSK STATION	BY OWNER	CUSTOM	1	120	15	1800	PLUG-IN	P3-45		VERIFY REQUIREMENTS WITH PROVIDER
58A	HAND DRYER	WORLD DRYER CORP.	VERDEDRI Q-973A	1	120	15	1800	HARDWIRED	P3-23		
58B	HAND DRYER	WORLD DRYER CORP.	VERDEDRI Q-973A	1	120	15	1800	HARDWIRED	P3-25		
58C	HAND DRYER	WORLD DRYER CORP.	VERDEDRI Q-973A	1	120	15	1800	HARDWIRED	P3-27		
58D	HAND DRYER	WORLD DRYER CORP.	VERDEDRI Q-973A	1	120	15	1800	HARDWIRED	P3-29		
70	L-SHAPED COOLER - CONDENSING UNIT	HEATCRAFT									

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- ### KEYED NOTES:
- BUILDING LIGHTING CIRCUIT:** ROUTE CIRCUIT VIA "1/3 SITE LIGHTING ZONE" AND "2/3 SITE LIGHTING ZONE" LIGHTING CONTACTORS IN CPI SWITCHGEAR.
 - BUILDING LIGHTING CIRCUIT:** ROUTE CIRCUIT VIA "BUILDING EXTERIOR LIGHTING ZONE" LIGHTING CONTACTORS IN CPI SWITCHGEAR.
 - WALK-IN COOLERS/FREEZERS:** PROVIDE RACEWAYS, WIRING, AND ALL LIGHTING FIXTURES IN COOLER / FREEZER. COORDINATE THE INSTALLATION OF SWITCHES AND PLATES WITH THE EQUIPMENT SUPPLIER. REFER TO DETAIL #4 ON SHEET E03A FOR LOW TEMPERATURE OCCUPANCY SENSOR AND POWER PACK FOR AUTOMATED CONTROL OF LIGHTS. ALL PENETRATIONS IN WALK-IN/STEP-IN COOLERS/FREEZERS/BEER CAVE SHALL BE MADE THROUGH THE TOP OF THE BOX. MAKE ALL PENETRATIONS PER DETAIL ON SHEET E04B.
 - HOOD LIGHTS:** EC SHALL PROVIDE (2) 100 WATT A-21 INCANDESCENT LAMPS FOR UNDER HOOD LIGHTING.
 - SIGN:** PROVIDE A WEATHER PROOF JUNCTION BOX FOR EXTERIOR SIGN. ROUTE CIRCUIT VIA "SIGNAGE LIGHTING ZONE" LIGHTING RELAY PANEL IN CPI SWITCHGEAR. REFER TO "OUTDOOR LIGHTING CONTROL SCHEMATIC", DETAIL #3 ON SHEET E04A. PROVIDE WEATHERPROOF SWITCH FOR LOCAL DISCONNECTING MEANS IF ONE IS NOT INCLUDED INTEGRAL TO SIGN.
 - SWITCHBANK:** COORDINATE FINAL SWITCHBANK LOCATION WITH ARCHITECT.
 - EXTERIOR EMERGENCY EGRESS LIGHTING:** CONNECT FIXTURES ABOVE ENTRANCE TO 100W EXTERNAL 90-MIN BATTERY BACKED EMERGENCY LIGHTING INVERTER, PHILIPS BODINE ELI-S-100 OR EQUAL. INSTALL ABOVE CPI SWITCHGEAR.
 - WALK-IN COOLER / FREEZER ANTIHONEY DOOR LIGHTING:** COORDINATE WITH EQUIPMENT SUPPLIER FOR FINAL CONNECTION.
 - SWITCHED PLUG LOADS:** EXTEND BRANCH CIRCUIT TO THIS ROOM'S CONTROLLED RECEPTACLES FOR AUTOMATIC CONTROL OF TASK LIGHTING AND PLUG LOADS VIA THIS ROOM'S OCCUPANCY SENSOR. REFER TO "OCCUPANCY SENSOR CONTROLLED SWITCHED PLUG LOAD WIRING DIAGRAM" ON SHEET E04B.
 - MANUAL LIGHTING CONTROLS:** MANUAL CONTROLS NOT LOCATED WHERE THE LIGHTS BEING CONTROLLED ARE VISIBLE SHALL HAVE LABELED INDICATION OF AREA SERVED AND A PILOT LIGHT TO INDICATE STATUS OF LIGHTS IN 'ON' AND 'OFF' STATES.
 - BEER CAVE SIGNAGE:** ADD A JUNCTION BOX FOR BEER CAVE SIGN. REFER TO SHEET A06A FOR SIGNAGE DETAILS.

- ### SHEET NOTES:
- HALF SHADED OR FULLY SHADED LUMINAIRES SHALL BE PROVIDED WITH SELF-CONTAINED 90-MINUTE BACK-UP BATTERY PACKS.
 - EMERGENCY LIGHTING FIXTURES SHALL SWITCH WITH LOCAL NORMAL LIGHTING UNLESS INDICATED AS "EM/NL" OR "NL" (NIGHT LIGHT).
 - EMERGENCY FIXTURES WITH INTEGRAL 90-MINUTE BATTERY PACKS SHALL BE PROVIDED WITH AN UN-SWITCHED HOT CONDUCTOR SO THAT EMERGENCY BATTERY PACK CAN CHARGE WHEN POWER TO THE LIGHT FIXTURES IS SWITCHED OFF.
 - EXIT AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED TO UN-SWITCHED CIRCUIT AHEAD OF LIGHTING CONTROLLER.
 - LIGHT FIXTURES IN THE SAME ROOM SHALL HAVE THE SAME ORIENTATION.
 - THE CIRCUIT NEUTRAL CONDUCTOR SHALL BE ROUTED TO EACH LINE VOLTAGE WALL SWITCH. WHERE THE WIRING DEVICE DOES NOT REQUIRE THE USE OF A NEUTRAL CONDUCTOR, CAP FOR FUTURE USE.
 - REFER TO DETAIL #3 ON SHEET E04A FOR OUTDOOR LIGHTING CONTROL SCHEMATIC.
 - EC SHALL INCLUDE FUNCTIONAL TESTING OF LIGHTING SYSTEM CONTROLS TO BE PERFORMED BY A THIRD PARTY THAT THE EC SHALL HIRE FOR THIS PURPOSE. THE FUNCTIONAL TESTING SHALL CERTIFY THAT THE INSTALLED LIGHTING CONTROLS MEET THE PERFORMANCE CRITERIA OF C405 OF IECC 2021. COPIES OF THESE DOCUMENTS SHALL BE PROVIDED FOR THE ELECTRICAL ENGINEER OF RECORD AND THE BUILDING OWNER'S O&M MANUALS.
 - REFER TO ROOF PLAN FOR PHOTOCELL PROPOSED LOCATION AS WELL AS CONDUIT AND WIRING REQUIREMENTS.

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PROJECT NUMBER
CFE22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
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SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, BIRRIEL ENGINEERING PER REQUEST.

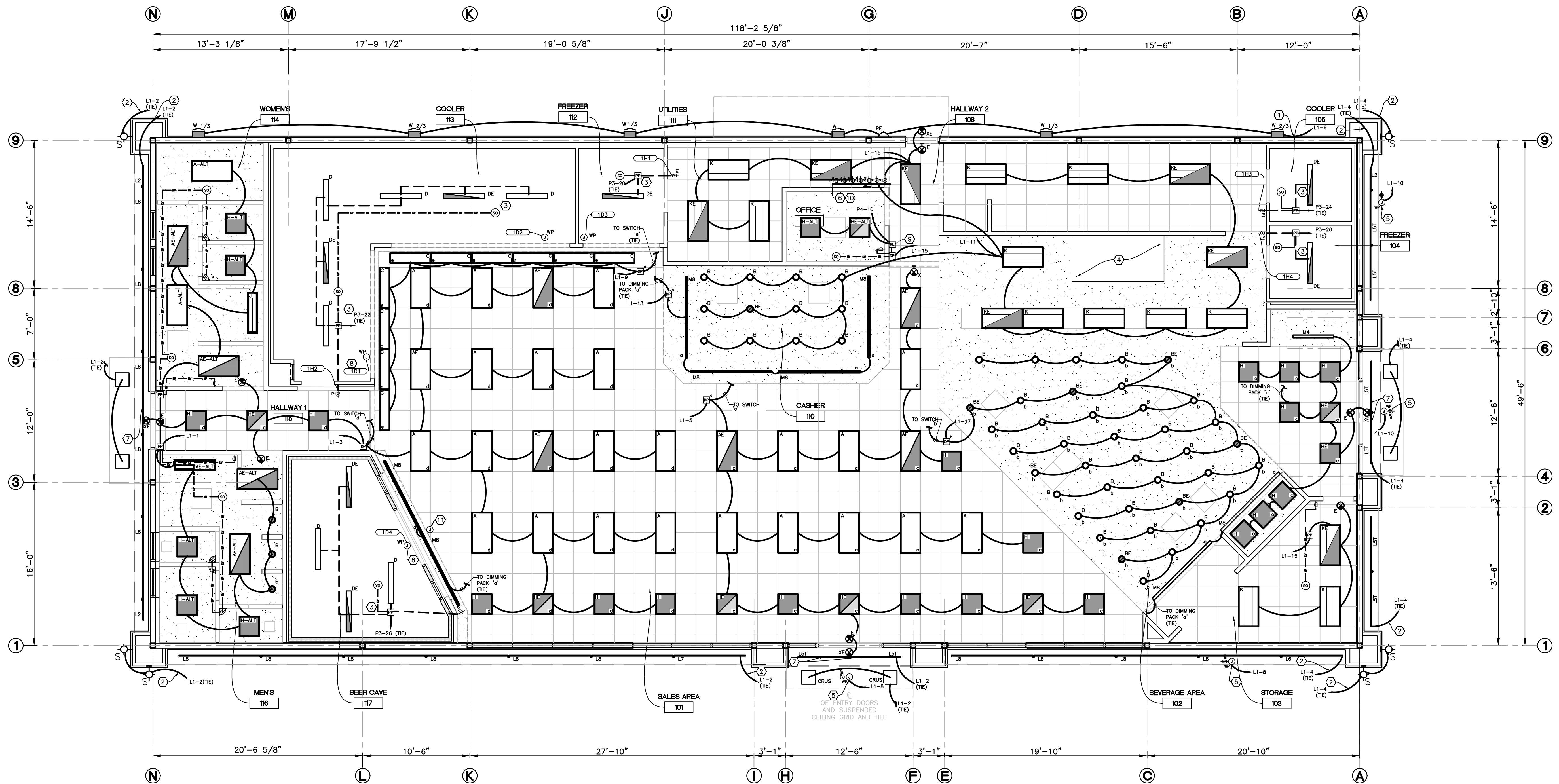
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
ELECTRICAL LIGHTING PLAN

DRAWING NUMBER
E03



1 FLOOR PLAN - ELECTRICAL LIGHTING PLAN
SCALE: 3/16"=1'-0"
TOTAL AREA: 5,974 SQ. FT.

LIGHTING FIXTURE SCHEDULE

LABEL	DESCRIPTION	LIGHT FIXTURE		MOUNTING	QTY. OF LAMPS	VOLTS	WATTS
		MFG.	MODEL #				
A	2'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP24 LED 50 UE DIM 40	LAY-IN	LED	120	50
AE	2'x4' EDGE-LIT EMERGENCY BACKUP LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP24 LED 50 UE DIM 40 EM	LAY-IN	LED	120	50
A-ALT	2'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP24 LED 50 UE DIM 40; FK24	LAY-IN	LED	120	50
AE-ALT	2'x4' EDGE-LIT EMERGENCY BACKUP LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP24 LED 50 UE DIM 40 EM; FK24	LAY-IN	LED	120	50
B	6" LED DOWNLIGHT, 2500LUMEN.	LSI	LCD6 LED 25L UNV DIM1 40	RECESSED	LED	120	22
BE	6" LED EMERGENCY BACKUP DOWNLIGHT, 2500LUMEN.	LSI	LCD6 LED 25L UNV DIM1 40 EM	RECESSED	LED	120	22
C	1'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP14 LED 40 UE DIM 40	LAY-IN	LED	120	40
C2	1'x2' EDGE-LIT LED PANEL, 2000 LUMEN, 40K, DIMS TO 10%	LSI	CONSULT WITH LSI REP FOR 1'X2' FLAT PANEL LUMINAIRE	LAY-IN	LED	120	20
CRUS	LED CANOPY LUMINAIRE, 10525 LUMEN, 142 EFFICACY, B3-U0-G1, SYMMETRIC DISTRIBUTION, 50K COLOR TEMP.	LSI	CRUS LW LED SS 50 UE WHT	SURFACE	LED	120	74
D	4' LED VAPORTIGHT WET LOCATION LINEAR LUMINAIRE CONSTRUCTED OF FIBERGLASS-REINFORCED FIBERGLASS HOUSING, 6695 LUMENS, 4000K COLOR TEMP, 0-10V DIMMING. [PT-VT1-4F-45W-50 (4FT LED VAPORTIGHT)]	LSI	PT-VT1-4F-45W-50	SURFACE	LED	120	50
DE	4' LED VAPORTIGHT WET LOCATION EMERGENCY BACKUP LINEAR LUMINAIRE CONSTRUCTED OF FIBERGLASS-REINFORCED FIBERGLASS HOUSING, 6695 LUMENS, 4000K COLOR TEMP, 0-10V DIMMING.	LSI	[PT-VT1-4F-45W-50 EM	SURFACE	LED	120	50
H	2'x2' EDGE-LIT LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40	LAY-IN	LED	120	30
HE	2'x2' EDGE-LIT EMERGENCY BACKUP LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40 EM	LAY-IN	LED	120	30
H-ALT	2'x2' EDGE-LIT LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40; FK22	LAY-IN	LED	120	30
HE-ALT	2'x2' EDGE-LIT EMERGENCY BACKUP LED PANEL, 3000 LUMEN, 40K, DIMS TO 10%	LSI	SFP22 LED 30 UE DIM 40 EM; FK22	LAY-IN	LED	120	30
J	1'x4' EDGE-LIT LED PANEL, 4000 LUMEN, 40K, DIMS TO 10%	LSI	SFP14 LED 40 UE DIM 40 U; FK14	LAY-IN	LED	120	40
K	2'x4' LED TROFFER, 4800 LUMENS, 4000K, 0-10V DIMMING TO 10%.	LSI	OPT24 LED 48L W UNV DIM 40	LAY-IN	LED	120	39
KE	2'x4' EMERGENCY BACKUP LED TROFFER, 4800 LUMENS, 4000K, 0-10V DIMMING TO 10%.	LSI	OPT24 LED 48L W UNV DIM 40 EM	LAY-IN	LED	120	39
L2	QWIK STIK FLAT SERIES 2' LED FIXTURE WITH 12VDC POWER SUPPLY. SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS24-XX-FL	SURFACE	LED	120	4.7
L5T	QWIK STIK FLAT SERIES 5'-4" LED FIXTURE WITH 12VDC POWER SUPPLY. SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS64-XX-FL	SURFACE	LED	120	14.2
L6	QWIK STIK FLAT SERIES 6' LED FIXTURE WITH 12VDC POWER SUPPLY. SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS72-XX-FL	SURFACE	LED	120	15.6
L7	QWIK STIK FLAT SERIES 7' LED FIXTURE WITH 12VDC POWER SUPPLY. SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS84-XX-FL	SURFACE	LED	120	18.0
L8	QWIK STIK FLAT SERIES 8' LED FIXTURE WITH 12VDC POWER SUPPLY. SUPPLIED BY FASCIA SUPPLIER, ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	PRINCIPAL LED	PL-QS96-XX-FL	SURFACE	LED	120	21.2
M4	4FT LED STRIP DIFFUSED LUMINAIRE, 4000 LUMENS, 4000K.	LSI	SDL4 LED 40L FL UNV DIM1 40 90CRI	SURFACE	LED	120	31
S	DORADO ROUND 4" ROUND LED WALL MOUNT CYLINDER, UP/DOWN, 50K	E-CONOLIGHT	OWCQ4-U-10-33-MV-50-BZ	WALL	LED	120	33
W	MIRADA OUTDOOR LED WALL SCONCE, TYPE 4, 6000 LUMEN, 50K	LSI INDUSTRIES	XWM-FT-LED-06-50-UE	WALL	LED	120	45
PE	WALL SCONCE, WET-LISTED EMERGENCY LIGHT WITH BATTERY BACKUP, BRONZE DIE-CAST HOUSING WITH POLYCARBONATE LENS AND MIRROR REFLECTOR.	E-CONOLIGHT	E-XMTDCZ	WALL	XENON	120	4
X	EXIT SIGN LIGHT WITH BATTERY BACKUP, WHITE POLYCARBONATE HOUSING, RED EXIT LETTERS.	SURE-LITES	APX7R	SURFACE	LED	120	7

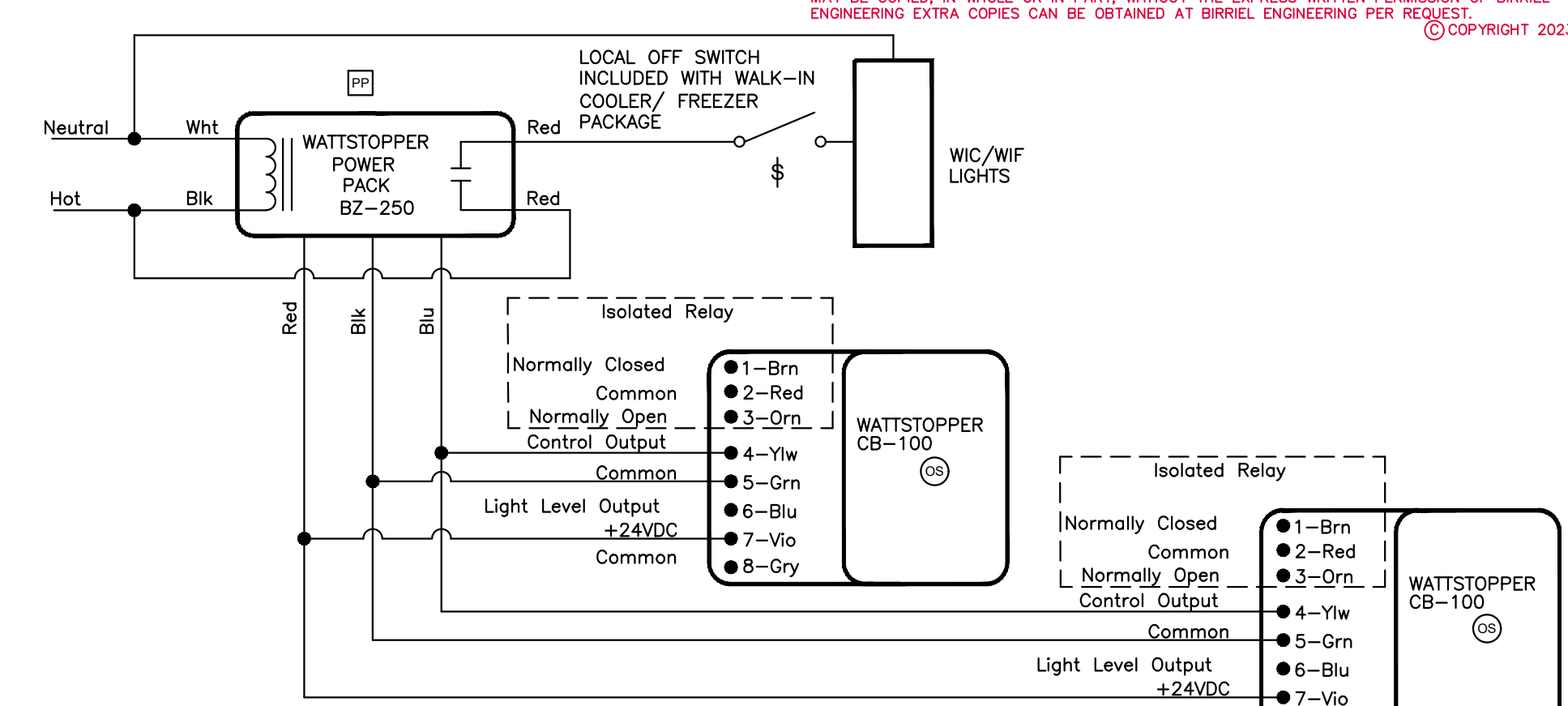
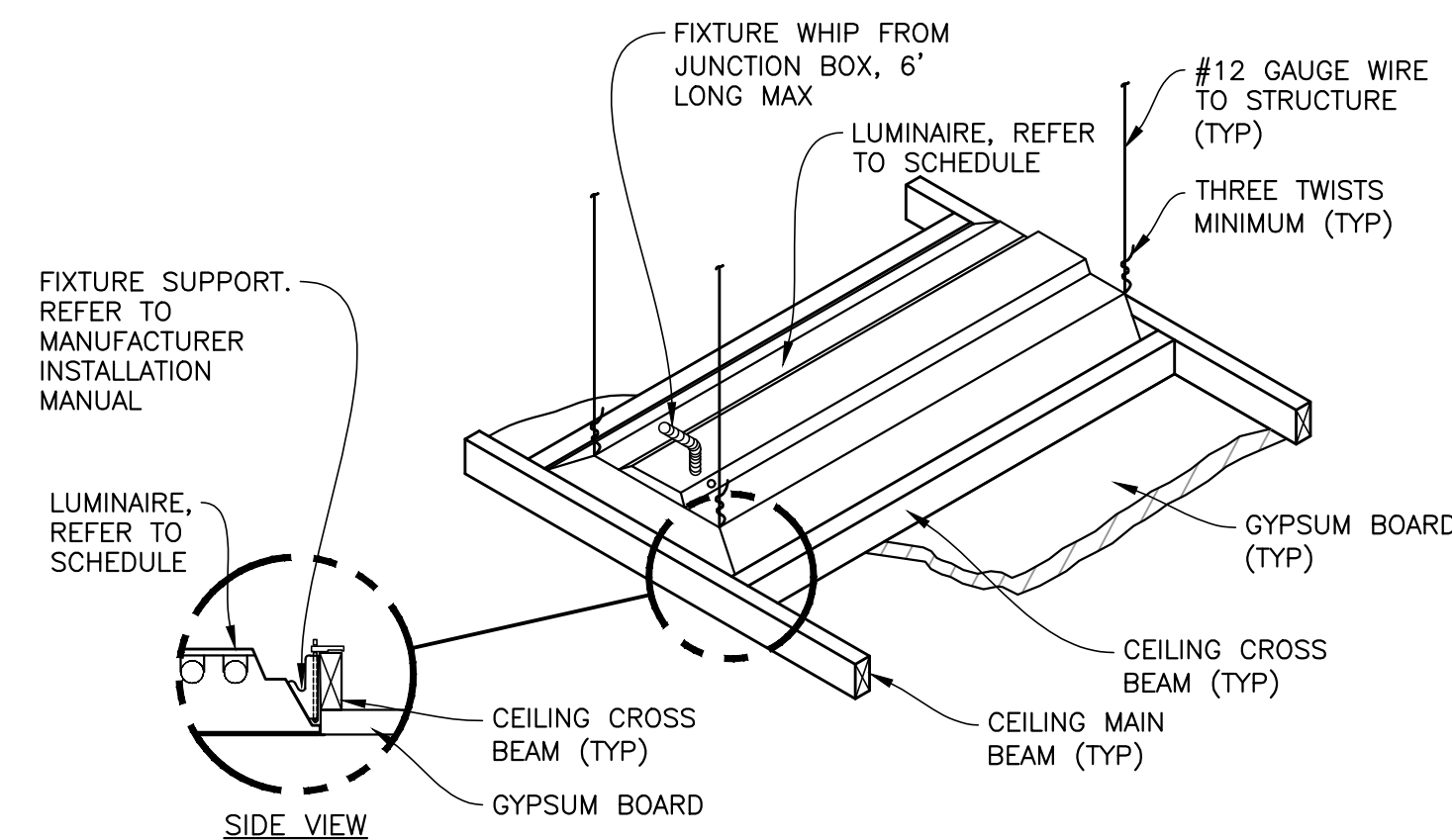
- ALL LIGHT FIXTURE SUBSTITUTION SHALL BE APPROVED BY OWNER AND MUST BE EQUAL TO OR OF BETTER QUALITY THAN FIXTURES SPECIFIED BY ARCHITECT.
- PENDANT LUMINAIRES: ORIENTATION OF PENDANT LUMINAIRES SHALL BE THE SAME.
- FASCIA LIGHT FIXTURES: BOLT ALL FASCIA LIGHT FIXTURES TOGETHER PER MANUFACTURER RECOMMENDATIONS.

NOTES:

- INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING RECOMMENDED MOUNTING HARDWARE. THERMAL INSULATION SHALL NOT BE INSTALLED ABOVE A RECESSED LUMINAIRE OR WITHIN 3" OF THE RECESSED LUMINAIRE'S ENCLOSURES, WIRING COMPARTMENT, BALLAST, TRANSFORMER, LED DRIVER, OR POWER SUPPLY UNLESS THE LUMINAIRE IS IDENTIFIED AS TYPE IC FOR INSULATION CONTACT.
- ALL JUNCTION BOXES SHALL BE ACCESSIBLE.

5 TROFFER MOUNTING - GYPSUM BOARD CEILING

SCALE: NTS
RE:

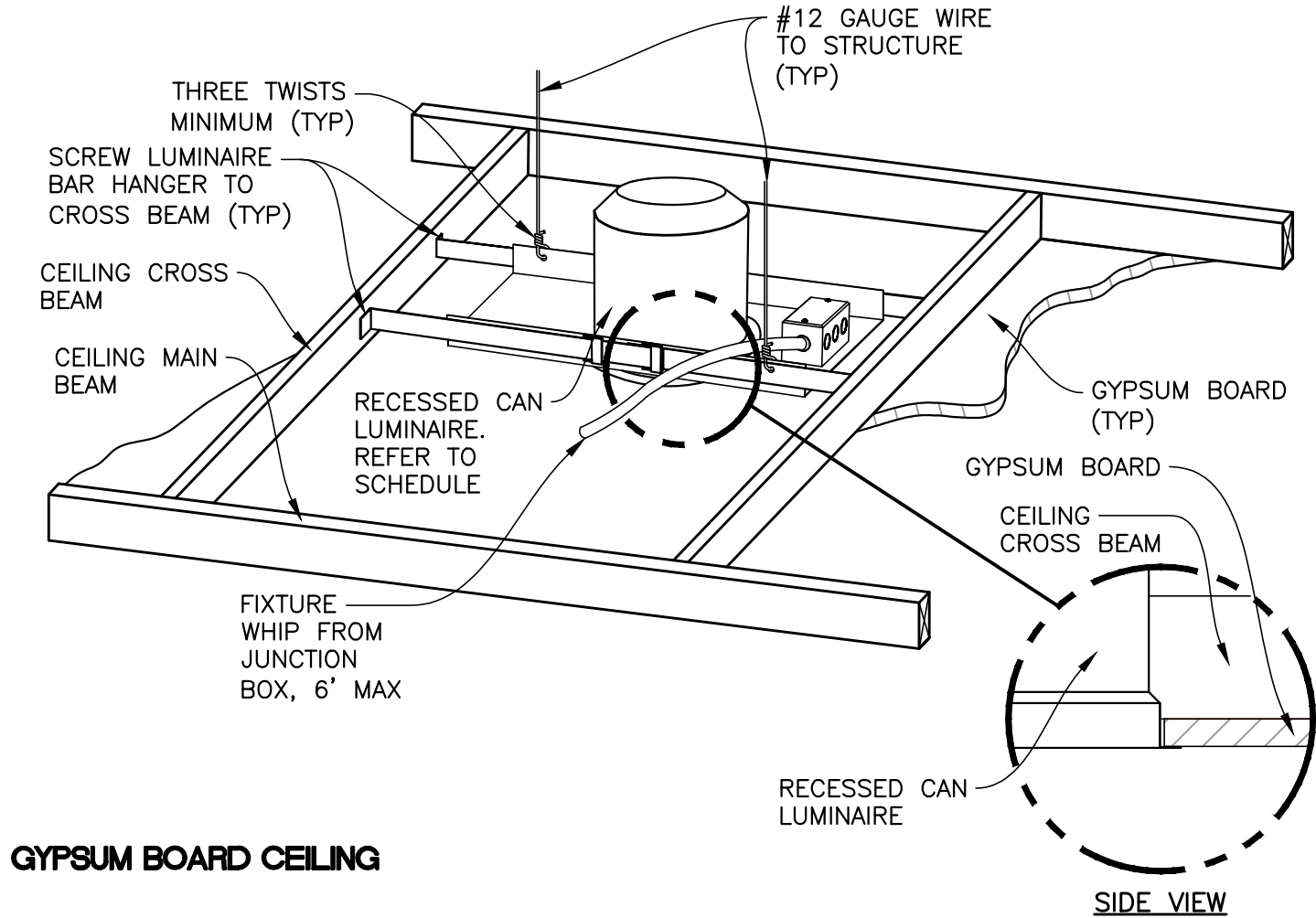


4 BEER CAVE / WALK-IN COOLER / FREEZER LIGHTING CONTROL DIAGRAM

SCALE: NTS
RE:

NOTES:

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- ALL JUNCTION BOXES SHALL BE ACCESSIBLE.

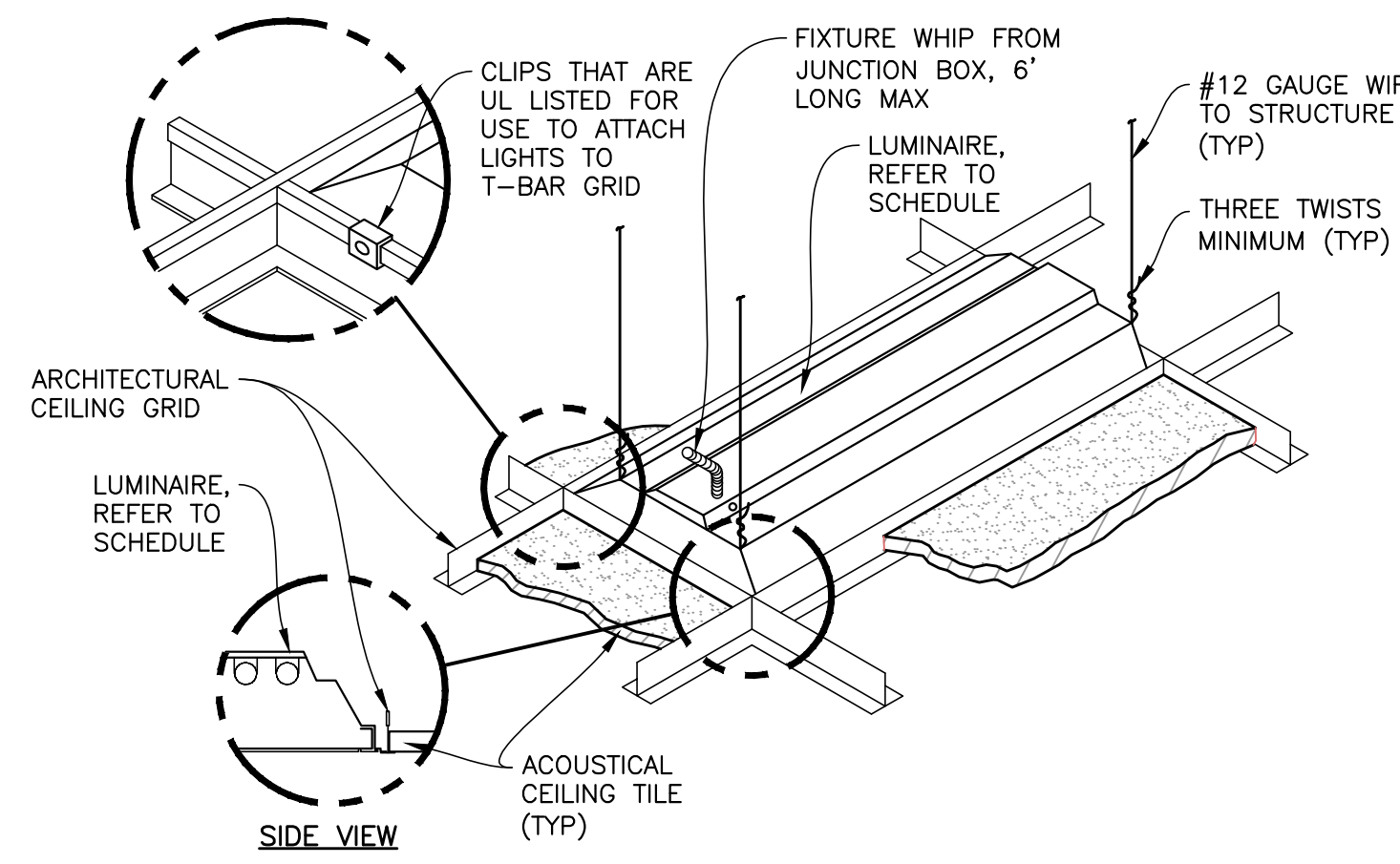


3 DOWNLIGHT MOUNTING - GYPSUM BOARD CEILING

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RE:

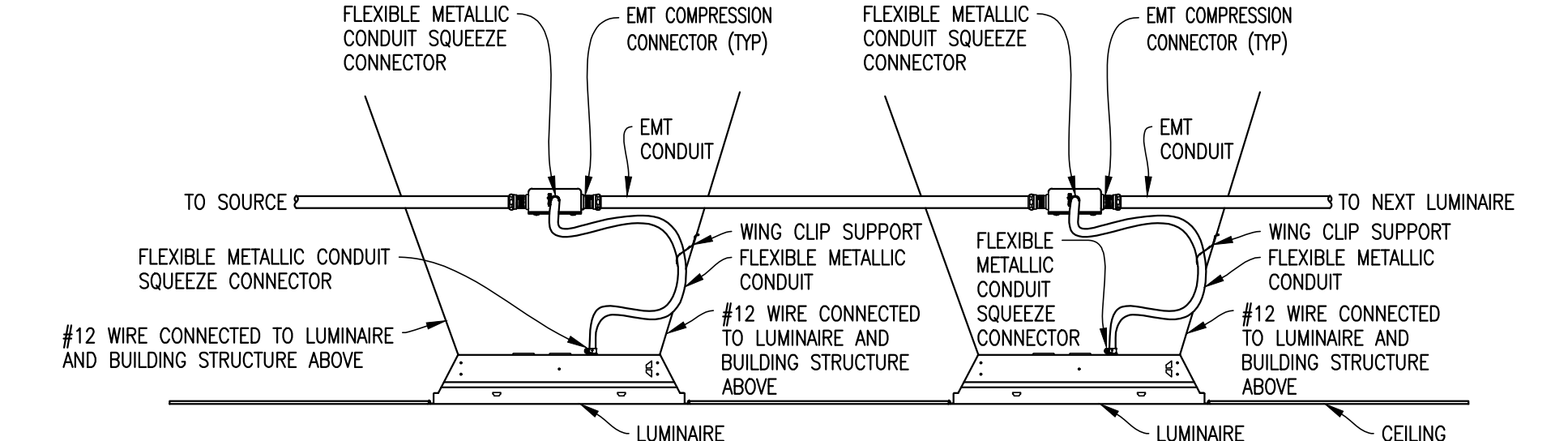
NOTES:

- REFER TO ARCHITECTURAL PLANS FOR CEILING GRID SUPPORT REQUIREMENTS. THIS DETAIL SHOWS FIXTURE SUPPORT REQUIREMENTS ONLY.
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING RECOMMENDED MOUNTING HARDWARE. THERMAL INSULATION SHALL NOT BE INSTALLED ABOVE A RECESSED LUMINAIRE OR WITHIN 3" OF OF THE RECESSED LUMINAIRE'S ENCLOSURES, WIRING COMPARTMENT, BALLAST, TRANSFORMER, LED DRIVER, OR POWER SUPPLY UNLESS THE LUMINAIRE IS IDENTIFIED AS TYPE IC FOR INSULATION CONTACT.



2 TROFFER MOUNTING - LAY IN CEILING

SCALE: NTS
RE:



NOTES:

- REFER TO ARCHITECTURAL PLANS FOR CEILING GRID SUPPORT REQUIREMENTS. THIS DETAIL SHOWS FIXTURE SUPPORT REQUIREMENTS ONLY.
- RACEWAY SHALL BE SUPPORTED IN ACCORDANCE WITH NEC 300.11.
- LUMINAIRES MAY NOT BE USED AS A RACEWAY IN ACCORDANCE WITH NEC 410.21 AND 410.64.
- ALL JUNCTION BOXES SHALL BE SUPPORTED BY BUILDING STRUCTURE.
- LUMINAIRES SHALL BE SUPPORTED INDEPENDENT OF THE CEILING GRID TO BUILDING STRUCTURE. DO NOT SUPPORT FROM DUCTWORK OR PIPING.
- FLEXIBLE METALLIC CONDUIT WHIPS FOR LUMINAIRES SHALL NOT EXCEED 6 FEET IN LENGTH.
- FLEXIBLE METALLIC CONDUIT WHIPS SHALL BE SUPPORTED BY LUMINAIRE SUPPORT WIRE USING A CONDUIT WING CLIP THAT IS UL LISTED FOR THIS PURPOSE.
- SECURELY FASTEN FIXTURE TO CEILING FRAMING MEMBERS. ATTACH TO SUSPENDED CEILING GRID ONLY AS APPROVED BY AUTHORITY HAVING JURISDICTION.

1 LIGHTING FIXTURE AND RACEWAY SUPPORT DETAIL

SCALE: NTS
RE:

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PROJECT NUMBER
CEF22-E03A.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

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	FINAL PRINT

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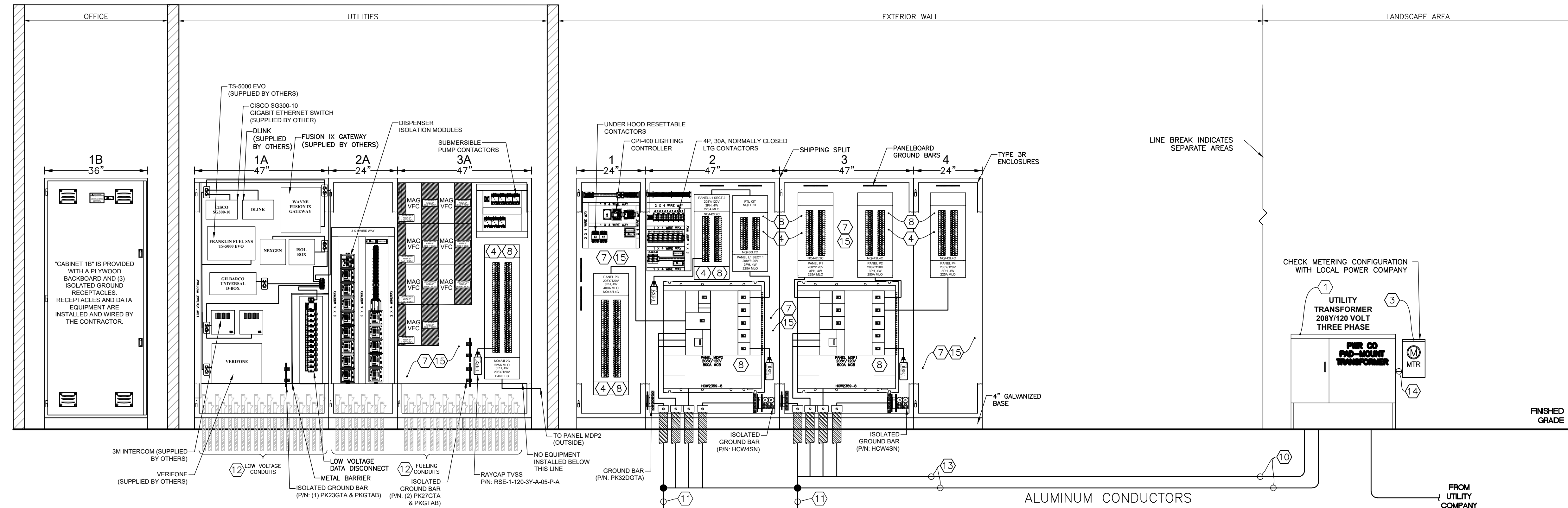
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DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
ELECTRICAL LIGHTING DETAILS

DRAWING NUMBER
E03A

FOR REFERENCE ONLY. REFER TO ELECTRICAL PANEL SUBMITTAL FOR DETAILS



1 CEFCO RISER DIAGRAM

RE:

PANEL MANUFACTURER WILL NEED TO AFFIX A FACTORY APPLIED ARC FLASH LABEL PER NEC 110.16(B).

REFER TO STANDARD CEFCO FUEL WIRE SIZES FOR STANDARD FUEL WIRE SIZES.

STANDARD CEFCO FUEL WIRE SIZES

Dispenser Type/Description	Size Of Conduit	Function Of The Wire	QTY Of Wire In Conduit	Size Of Wire	QTY Of Wire In Conduit	Size Of Wire	QTY Of Wire In Conduit	Size Of Wire
3+2 Wayne Helix	1 Inch	Power	3	# 12	4	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare						
	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
Master Dispenser	1 Inch	Power	3	# 12	2	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare						
	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
Satellite	3/4 Inch	Sensor	2	SPARE # 18/2 Cable	1	# 12 Ground		
Master/Satellite Loop		Power	1	# 12 Ground	5	# 14		
Auto Gas Canopy	1 Inch	Power	1 ?	Raceway Only				
	1 Inch	Spare	3 ?	Raceway Only				
Truck Canopy	1 Inch	Power	1	Raceway Only				
	1 Inch	Spare	3	Raceway Only				
STP	1 Inch	Power	4	# 10				
Tank Sensor Home Run	1 Inch	Sensor	EACH SUMP	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" to each stp Sump for sen's wt. 1 spare	
ATG & Interstitial Loops Home Run	1" / 3/4 Inch	Sensor	Per Sensor	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" Home Run for ATG & Int. Loops	
Remote E Stop	3/4 Inch		3	# 12				

CEFCO RISER DIAGRAM KEYED NOTES:

- POWER COMPANY PAD MOUNTED TRANSFORMER: SERVICE SHALL BE 208Y/120V, 3Ø, 4-WIRE TYPE. COORDINATE EXACT LOCATION WITH POWER COMPANY. MOUNT TRANSFORMER ON CONCRETE PAD, FURNISHED BY ELECTRICAL CONTRACTOR.
- N/A
- METER SOCKET: PROVIDE APPROVED MODEL METER SOCKET PER POWER COMPANY REQUIREMENTS.
- PANEL SERIES RATING LABEL: PROVIDE A SERIES RATING LABEL PER DETAIL 6 ON SHEET E04B.
- MACVICTOR UPS: MACVICTOR BATTERY BACKUP AND POWER CONDITIONER FURNISHED BY OWNER AS PART OF ELECTRICAL PANEL PACKAGE. COORDINATE WITH OWNER FOR FINAL LOCATION. MAKE ALL CONNECTIONS.
- SWITCHBOARD: 1600A, 600V, NEMA-3R SERVICE ENTRANCE RATED SWITCHBOARD WITH 800A FEEDER BREAKERS FOR MDP1 AND MDP2 FURNISHED BY OWNER AS PART OF ELECTRICAL PANEL PACKAGE.
- IPC UNITIZED SWITCHBOARD: SWITCHBOARD SHALL BE FACTORY WIRED AND ASSEMBLED WITH ELECTRICAL PANELS, LIGHTING CONTROLS, FUEL EQUIPMENT, INTERCOM, AND POS. PROVIDE WITH 4" GALVANIZED BASE AND DOCUMENT HOLDER. UNITIZED SWITCHBOARD SHALL BE FURNISHED BY OWNER AND INSTALLED BY EC.
- C-STORE ELECTRICAL PANELS: THESE PANELS ARE FULLY EQUIPPED WITH BOLT-ON TYPE CIRCUIT BREAKERS AND FACTORY WIRED AND INSTALLED IN IPC UNITIZED SWITCHBOARD. REFER TO PANEL SCHEDULES FOR RATINGS. PROVIDE LABEL PER EQUIPMENT LABEL DETAIL 4 ON SHEET E04B.
- PHOTOCELL: INSTALL IPC FURNISHED PHOTOCELL ON NORTH SIDE OF BUILDING TO CONTROL ON/OFF CIRCUIT TO LIGHTING CONTACTOR. EXACT LOCATION OF PHOTOCELL DEVICE TO BE AS DIRECTED BY GENERAL CONTRACTOR.
- SERVICE ENTRANCE: (3) SETS OF 4-#400 KCMIL ALUMINUM EACH IN 3-1/2" CONDUIT. METHOD WILL HAVE THE OWNER PROVIDING THE CONDUCTORS FOR THE EC TO INSTALL.
- GROUNDING ELECTRODE CONDUCTOR: PROVIDE 1-#3/0 PVC INSULATED CONDUCTOR ROUTED FROM MAIN DISCONNECT SWITCH IN 3/4" PVC CONDUIT. BOND GROUNDING ELECTRODE CONDUCTOR TO 2-3/4" X 10' CU CLAD GROUND RODS, CONCRETE ENCASED ELECTRODE, BUILDING STEEL, AND METAL COLD WATER PIPE. PROVIDE ADDITIONAL GROUND RODS TO OBTAIN A RESISTANCE OF 10 OHMS OR LESS.
- CONDUIT FOR FUEL EQUIPMENT: ROUTE CONDUIT AND WIRING TO FUEL EQUIPMENT. PROVIDE EXPLOSION-PROOF SEAL-OFFS AS REQUIRED BY NEC. REFER TO ELECTRICAL PLAN DRAWINGS, TANK ELECTRICAL DRAWINGS, AND PANEL SCHEDULES FOR EQUIPMENT/CONSUMER LOCATIONS AND BRANCH CIRCUIT REQUIREMENTS. REFER TO EQUIPMENT INSTALLATION MANUALS PRIOR TO INSTALLATION.
- C-STORE SERVICE FEEDER WITH ISOLATED GROUND: (3) SETS OF 4-#400 KCMIL ALUMINUM, 1-#4/0 ALUMINUM IG AND 1-#4/0 CU EG EACH IN 4" CONDUIT. OWNER TO PROVIDE THE CONDUCTORS FOR THE EC TO INSTALL.
- METER WIRING CONDUIT: PROVIDE A 1-1/2" CONDUIT WITH PULL CORD INSTALLED FOR UTILITY PROVIDED METER WIRING.
- C-STORE ELECTRICAL SUB-PANEL FEEDERS: THESE FEEDERS ARE FACTORY WIRED BY ELECTRICAL PANEL PROVIDER. REFER TO PANEL SCHEDULE FOR NUMBER AND SIZE.
- SURGE PROTECTIVE DEVICE: FURNISHED AND INSTALLED IN IPC UNITIZED GEAR.
- GENERATOR CAM-LOCKS: FURNISHED AS A PART OF IPC GEAR. COORDINATE WITH SUPPLIER.
- GENERATOR CAM-LOCKS FEEDER: PROVIDE (4) SETS OF 4-#600 KCMIL CU & #4/0 GND EACH IN 4" CONDUIT
- METER SOCKET WORKING SPACE CLEARANCE: ENSURE REQUIRED WORKING SPACE CLEARANCE FOR ELECTRICAL METER IS MAINTAINED WHEN INSTALLING SWITCHBOARD AND GENERATOR CAM LOCKS BOX.
- POWER COMPANY PRIMARY CONDUIT SYSTEM: PROVIDE CONDUIT SYSTEMS, IF REQUIRED, FOR POWER COMPANY PRIMARY SERVICE CONDUCTORS. POINT OF INTERCEPTION WITH POWER COMPANY SHALL BE PER POWER COMPANY FIELD REPRESENTATIVE DIRECTION. THIS CONDUIT RUN PASSES BELOW A HAZARDOUS (CLASSIFIED) AREA NEAR FUEL ISLAND. PROVIDE RIGID METALLIC CONDUIT STUB-UPS AND CONDUIT SEAL-OFFS ON BOTH ENDS OF CONDUIT RUN PER NEC 514.
- 12 POLE RESETTABLE CONTACTOR: FACTORY WIRED AND INSTALLED 12 POLE RESETTABLE CONTACTOR WITH THE BELOW CIRCUITS ROUTED THROUGH IT. WHEN THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED, THE CONTACTOR SHALL OPEN THE CIRCUITS. CIRCUITS: P1-1; P2-13,15,17; P2-41; P1-42

SCALE: NTS

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PROJECT NUMBER
CEF22-E04.DWG

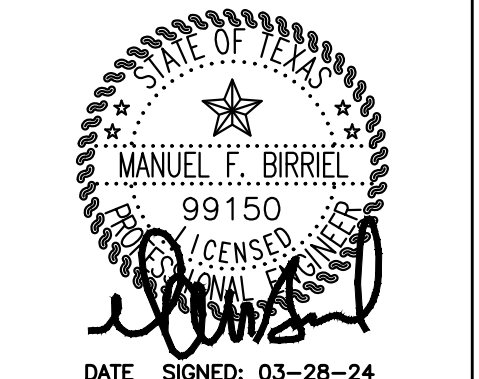
PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
F-2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL

FIRM F-13071



DRAWINGS ISSUED FOR:

DATE	DESCRIPTION
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT

This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, BIRRIEL ENGINEERING.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE

CEFCO ELECTRICAL
RISER DIAGRAM

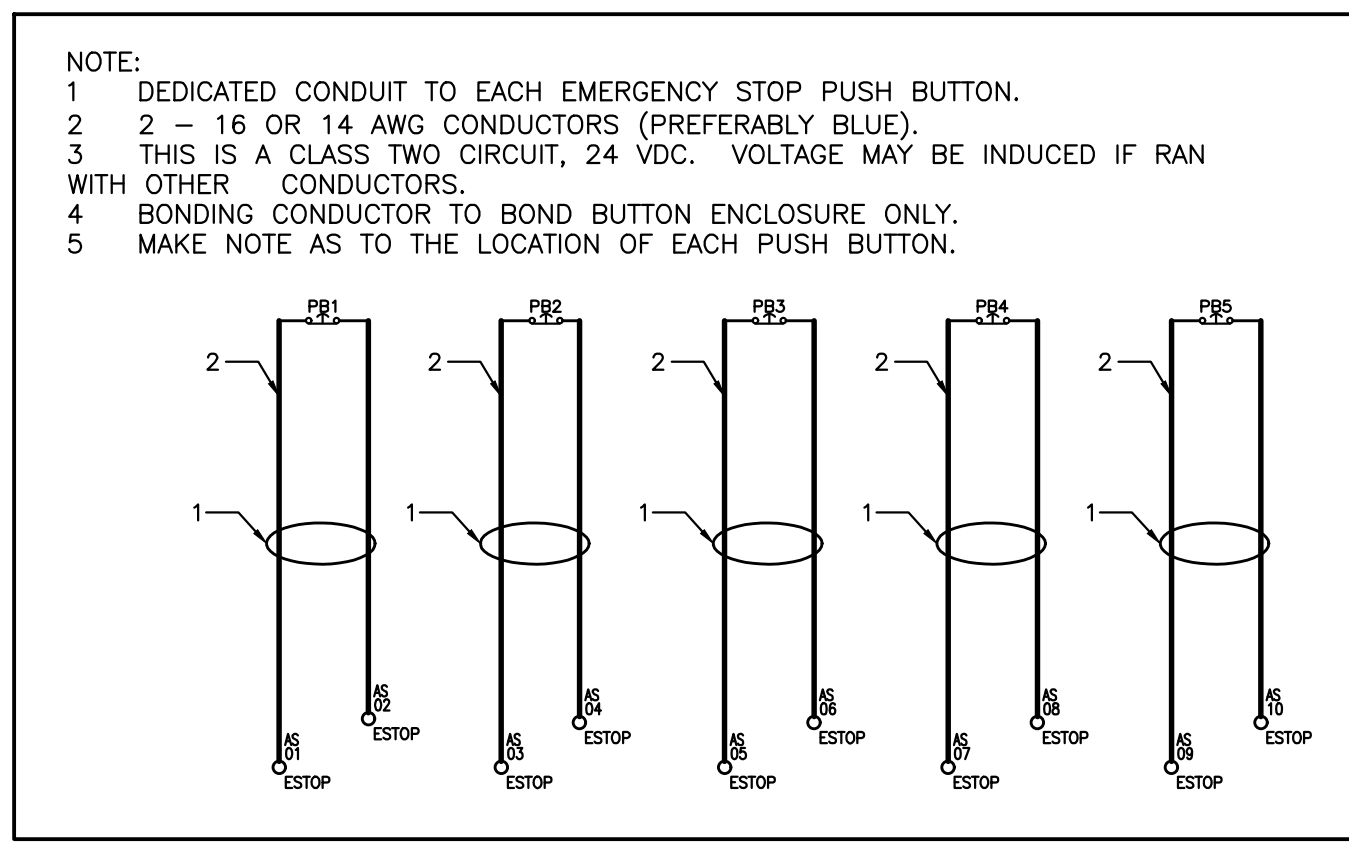
DRAWING NUMBER SHEET NO.

E04

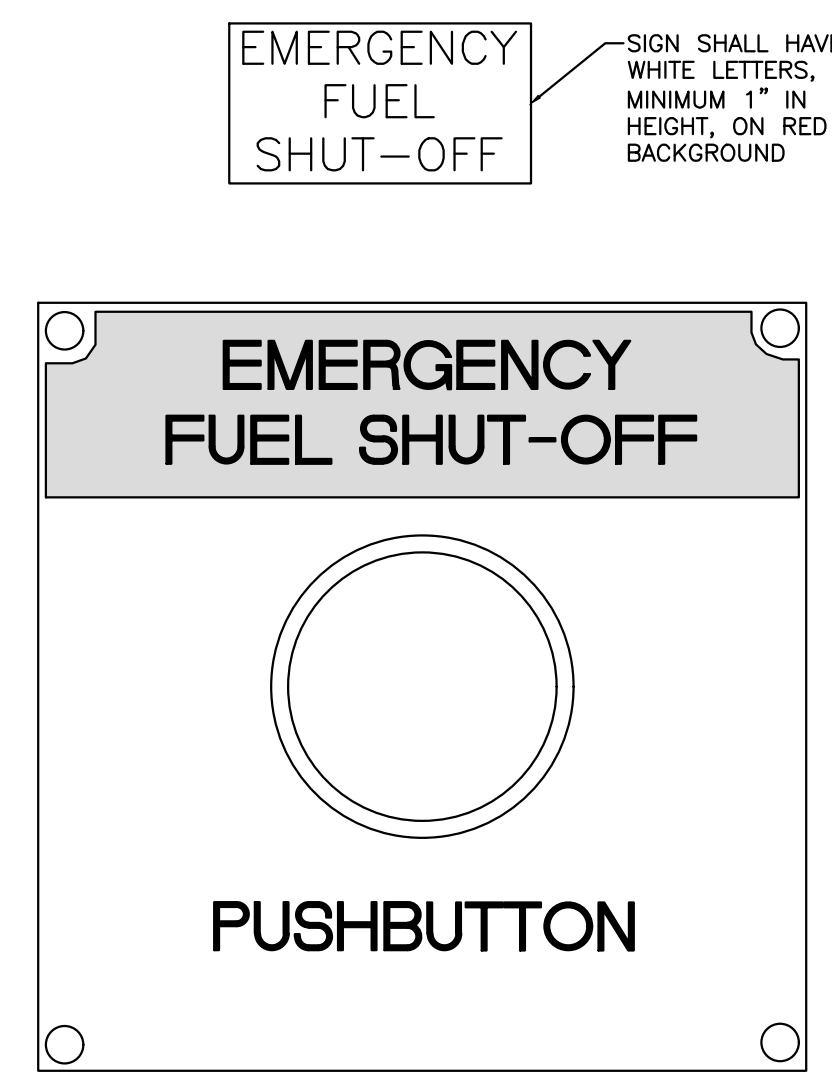
PANELBOARD: P4 (NEW)												FAULT CURRENT: REFER TO ONE-LINE DIAGRAM												PROVIDE EQUIPMENT GROUND BUS																							
BUS AMPS: 225A												AIC RATING: 65000 SERIES RATED																																			
MAIN SIZE/TYP: MLO												SERVES:																																			
VOLTS/PHASE: 208Y/120V, 3PH, 4W												MOUNTING: SURFACE												ENCLOSURE: NEMA 1																							
SECTION: 1												LOCATION:																																			
CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT						BREAKER			VOLTSAMPS/PHASE			VOLTSAMPS/PHASE			BREAKER			CONDUCTOR & CONDUIT						DESCRIPTION	CKT NO.																				
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG	GND	NEUT	PH																								
1	REC-ATM ANY CARD(28A)	12	12	12	12	3/4"	20	1	1,380			360			1	20	3/4"	12	12	12	12	REC-OFFICE QUAD	2																								
3	MISC-MAC VECTOR	10	10	10	10	3/4"	25	1	2,000			360			1	20	3/4"	12	12	12	12	REC-CASHIER EQ QUAD	4																								
5	REC-OFFICE CPU	12	12	12	12	3/4"	20	1	750			360			1	20	3/4"	12	12	12	12	REC-TBB EQ QUAD	6																								
7	MISC-GAS-SOLENOID VALVE	12	12	12	12	3/4"	20	1	200			360			1	20	3/4"	12	12	12	12	REC-OFFICE QUAD	8																								
9	SPACE											144			1	20	GFCI	3/4"	12	12	12	12	REC-RESTROOM SENSORS	10																							
11	SPACE											360			1	20	3/4"	12	12	12	12	REC-OFFICE QUAD	12																								
13	SPACE											540			1	20	3/4"	12	12	12	12	REC-TBB CABINET RECEPITS	14																								
15	SPACE											400			1	20	3/4"	12	12	12	12	REC-UC SAFETY	16																								
17	KIT-PIZZA PREP (27)	12	12	12	12	3/4"	20	1	805			1,800			1	20	3/4"	12	12	12	12	KIT-FLAT TORT. PLATE (86A)	18																								
19	KIT-FOOD LABELER	12	12	12	12	3/4"	20	1	1,200			480			1	20	3/4"	12	12	12	12	REC-LOTTO SCREEN (30)	20																								
21	REF-REFRIG DISPLAY (37)	12	12	12	12	3/4"	20	1	732			1,700			1	20	1"	12	12	12	12	REC-TV SCREEN (88A,B,C)	22																								
23	KIT-HEATED MERCHAND	12	12	12	12	3/4"	L/OFF	20	2	1,250			900			1	20	3/4"	12	12	12	12	REC-UC SAFETY	24																							
25	REF-PIZZA PREP (48)	12	12	12	12	3/4"	20	1	800			360			1	20	1"	10	10	10	10	REC-GONDOLA REC (22A)	26																								
27	REC-CHILI CHEESE A,B,C	10	10	10	10	1"	20	1	612			360			1	20	1"	10	10	10	10	REC-GONDOLA REC (22C)	30																								
29	SPACE											540			1	20	3/4"	12	12	12	12	REC-BAG-N BOX (4A)	32																								
31	KIT-HEATED DISPLAY MERCH	12	12	12	12	3/4"	20	1	1,330			360			1	20	3/4"	12	12	12	12	REC-BAG-N BOX (4B)	34																								
33	KIT-FLAT TORT. PLATE (86B)	12	12	12	12	3/4"	20	1	1,800			360			1	20	3/4"	12	12	12	12	REC-BAG-N BOX (4B)	36																								
37	SPACE											400			1	20	3/4"	12	12	12	12	REC-UC SAFETY	38																								
39	SPACE											720			1	20	3/4"	12	12	12	12	REC-RESTROOM	40																								
41	SPACE											600			1	20	3/4"	12	12	12	12	REC-FUL MGMT SYS [6]	42																								
SUBTOTAL												4,030	4,862	5,217	3,040	4,044	4,740	SUBTOTAL																													
LOAD												LOAD												LOAD																							
CONN. VA												CONN. VA												CONN. VA																							
DF												DF												DF																							
COOLING												REFRIGERATION												REFRIGERATION																							
HEATING												SIGN/DISPLAY												SIGN/DISPLAY																							
LIGHTING												KITCHEN												KITCHEN																							
RECEPTACLES												EXISTING												EXISTING																							
MOTORS												LARGEST MOTOR												LARGEST MOTOR																							
WATER HEATER												SHOW WINDOW												SHOW WINDOW																							
MISC EQUIPMENT												LTG TRACK												LTG TRACK																							
TOTAL PHASE A - VA												TOTAL PHASE B - VA												TOTAL PHASE C - VA												TOTAL PHASE A - VA											
CONN. AMPS												CONN. AMPS												CONN. AMPS												CONN. AMPS											
TOTAL PHASE A - VA												TOTAL PHASE B - VA												TOTAL PHASE C - VA												TOTAL PHASE A - VA											
CONN. AMPS												CONN. AMPS												CONN. AMPS												CONN. AMPS											
TOTAL PNLBD - VA												TOTAL PNLBD - VA												TOTAL PNLBD - VA												TOTAL PNLBD - VA											
AMPS												AMPS												AMPS												AMPS											

PANELBOARD: P3 (NEW)												FAULT CURRENT: REFER TO ONE-LINE DIAGRAM												PROVIDE EQUIPMENT GROUND BUS																							
BUS AMPS: 400A												AIC RATING: 65000 SERIES RATED																																			
MAIN SIZE/TYP: MLO												SERVES:																																			
VOLTS/PHASE: 208Y/120V, 3PH, 4W												MOUNTING: SURFACE												ENCLOSURE: NEMA 1																							
SECTION: 1												LOCATION:																																			
CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT						BREAKER			VOLTSAMPS/PHASE			VOLTSAMPS/PHASE			BREAKER			CONDUCTOR & CONDUIT						DESCRIPTION	CKT NO.																				
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG	GND	NEUT	PH																								
1	SPACE											360			1	20	GFPE	3/4"	12	12	12	12	REC-WIF DRAIN HEATERS	2																							
3	SPACE											500			1	20	3/4"	12	12	12	12	MISC-IRRIGATION TIMER	4																								
5	SPACE											1,440			1	20	3/4"	12	12	12	12	KIT-FROZEN BEV (28A)	6																								
7	SPACE											575			1	20	3/4"	L/OFF	12	12	12	12	MISC - COOLER DOOR (1D1)	8																							
9	SPACE											805			1	20	3/4"	L/OFF	12	12	12	12	MISC - COOLER DOOR (1D1)	10																							
11	SPACE											345			1	20	3/4"	L/OFF	12	12	12	12	MISC - COOLER DOOR (1D1)	12																							
13	SPACE											345			1	20	3/4"	L/OFF	12	12	12	12	MISC - COOLER DOOR (1D1)	14																							
15	SPACE											1,560			2	20	GFCI	3/4"	10	10	10	10	REF - SELF CONTAINED CASE (87)	16																							
17	SPACE											1,560			2	20	GFCI	3/4"	10	10	10	10	REF - SELF CONTAINED CASE (87)	18																							
19	REC-INSECT LIGHTREC	12	12	12	12	3/4"	20	1	180			1,500			1	20	3/4"	12	12	12	12	MISC - DR HTR AND LTS (1H1)	20																								
21	REC-ICE BAGGER (25)	12	12	12	12	3/4"	GFCI	20	1	1,056		1,500			1	20	3/4"	12	12	12	12	MISC - DR HTR AND LTS (1H2)	22																								
23	MISC-HAND DRYER (58A)	10	10	10	10	3/4"	L/OFF	20	1	1,464		1,500			1	20	3/4"	12	12	12	12	MISC - DR HTR AND LTS (1H3)	24																								
25	MISC-HAND DRYER (58A)	10	10	10	10	3/4"	L/OFF	20	1	1,464		1,500			1	20	3/4"	12	12	12	12	MISC - DR HTR AND LTS (1H4)	26																								
27	MISC-HAND DRYER (58A)	10	10	10	10	3/4"	L/OFF	20	1	1,464		216			1	20	3/4"	12	12	12	12	KIT-2 SH STAND	28																								
29	MISC-HAND DRYER (58A)	10	10	10	10	3/4"	L/OFF	20	1	1,464		216			1	20	3/4"	12	12	12	12	KIT-2 SH STAND	30																								
31	MTR - EXHAUST FAN (KEF-1)	10	10	10	10	3/4"	L/OFF	20	1	1,012		1,440			1	20	3/4"	12	12	12	12	KIT-FROZEN BEV (29B)	32																								
33	SPACE																						SPACE	34																							
35	SPACE																						SPACE	36																							
37	SPACE											360			1	20	3/4"	12	12	12	12	REC - EXTERIOR GEN RECEP	38																								
39	MTR-EXHAUST FAN (EF-1)	12	12	12	12	3/4"	20	1	426			2,220			1	30	GFCI	1"	8	8	8	MISC-AIR MACHINE	40																								
41	REC-IVAC MAINTENANCE	12	12	12	12	3/4"	20	1	1,080			900			1	20	3/4"	12	12	12	12	REC - EXTERIOR GEN RECEP	42																								
43	MISC-KIOSK STATION (35A)	12	12	12	12	3/4"	20	1	1,800														SPACE	44																							
45	MISC-KIOSK STATION (35B)	12	12	12	12	3/4"	20	1	1,800														SPACE	46																							
47	SPACE																						SPACE	48																							
49	SPACE																						SPACE	50																							
51	SPACE																						SPACE	52																							
53	SPACE																						SPACE	54																							
55	SPACE																						SPACE	56																							
57	SPACE																						SPACE	58																							
SUBTOTAL												4,456	4,746	4,008	6,080	6,801	5,961	SUBTOTAL																													
LOAD												LOAD												LOAD																							
CONN. VA												CONN. VA												CONN. VA																							
DF												DF												DF																							
COOLING												REFRIGERATION												REFRIGERATION																							
HEATING												SIGN/DISPLAY												SIGN/DISPLAY																							
LIGHTING												KITCHEN												KITCHEN																							
RECEPTACLES												EXISTING												EXISTING																							
MOTORS												LARGEST MOTOR												LARGEST MOTOR																							
WATER HEATER												SHOW WINDOW												SHOW WINDOW																							
MISC EQUIPMENT												LTG TRACK												LTG TRACK																							
TOTAL PHASE A - VA												TOTAL PHASE B - VA												TOTAL PHASE C - VA												TOTAL PHASE A - VA											
CONN. AMPS												CONN. AMPS												CONN. AMPS												CONN. AMPS											
TOTAL PHASE A - VA												TOTAL PHASE B - VA												TOTAL PHASE C - VA												TOTAL PHASE A - VA											
CONN. AMPS												CONN. AMPS												CONN. AMPS												CONN. AMPS											
TOTAL PNLBD - VA												TOTAL PNLBD - VA												TOTAL PNLBD - VA												TOTAL PNLBD - VA											
AMPS												AMPS												AMPS												AMPS											

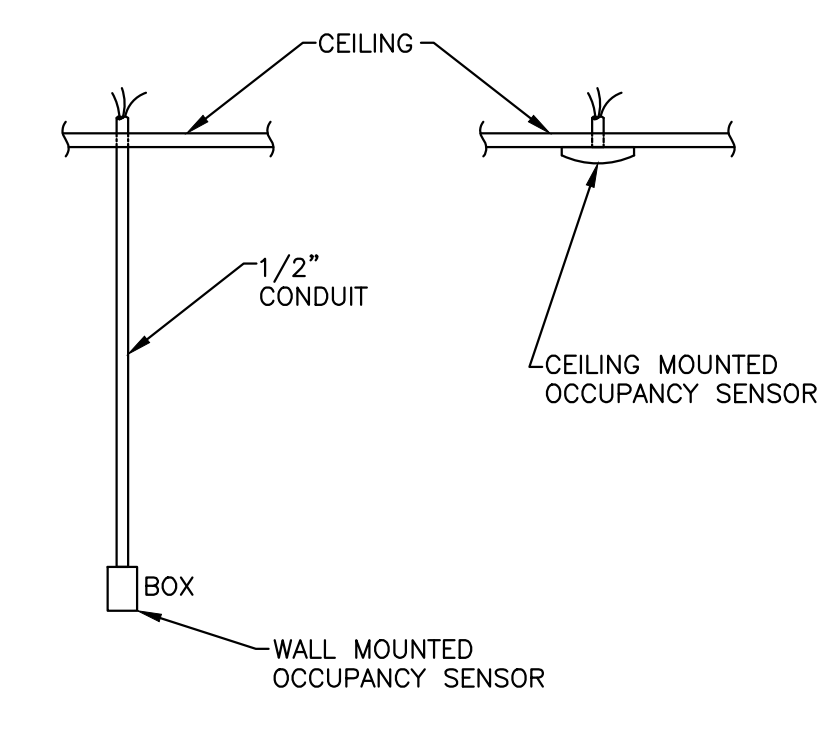
PANELBOARD: P2 (NEW)												FAULT CURRENT: REFER TO ONE-LINE DIAGRAM												PROVIDE EQUIPMENT GROUND BUS											
BUS AMPS: 250A												AIC RATING: 65000 SERIES RATED																							
MAIN SIZE/TYP: MLO												SERVES:																							
VOLTS/PHASE: 208Y/120V, 3PH, 4W												MOUNTING: SURFACE												ENCLOSURE: NEMA 1											
SECTION: 1												LOCATION:																							



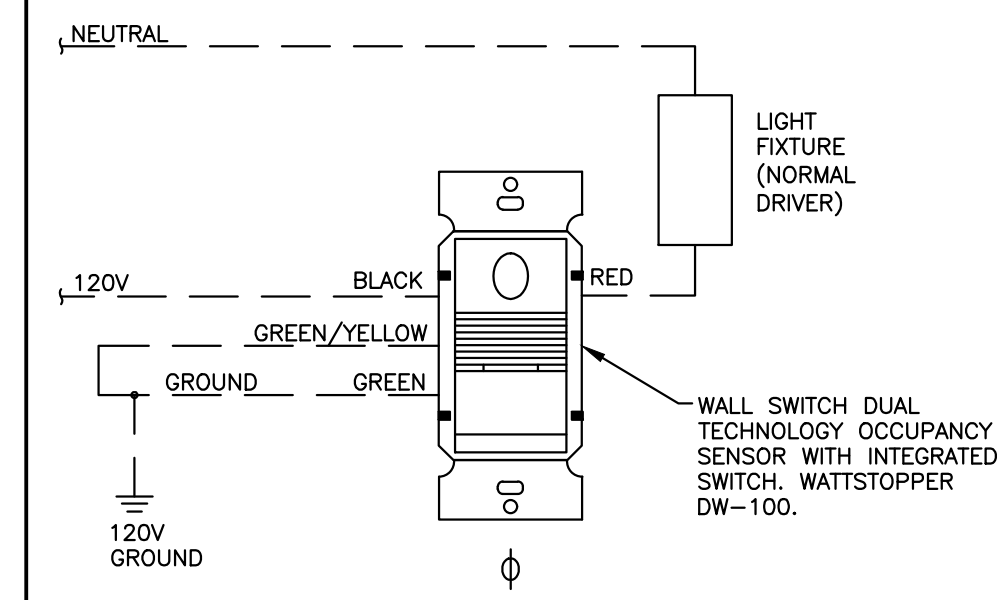
7 EMERGENCY STOP REQUIREMENTS
 SCALE: NTS
 RE:



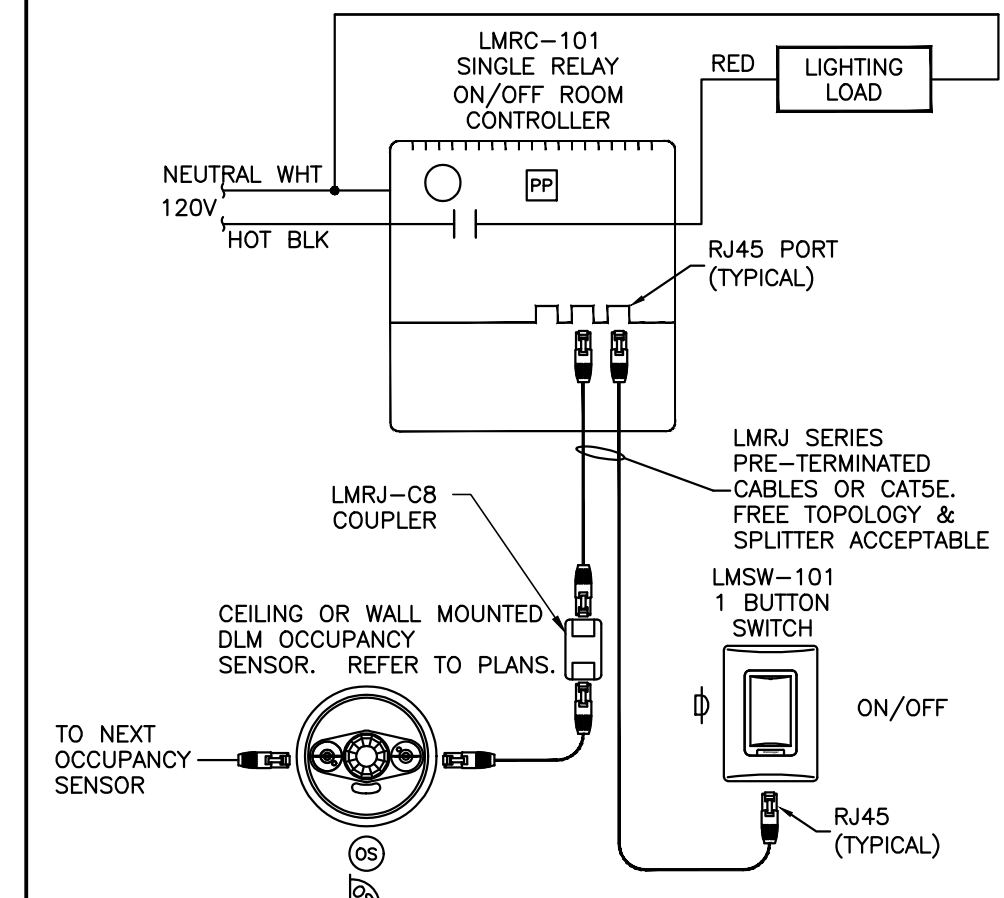
6 EMERGENCY FUEL SHUT-OFF PUSHBUTTON
 SCALE: NTS
 RE:



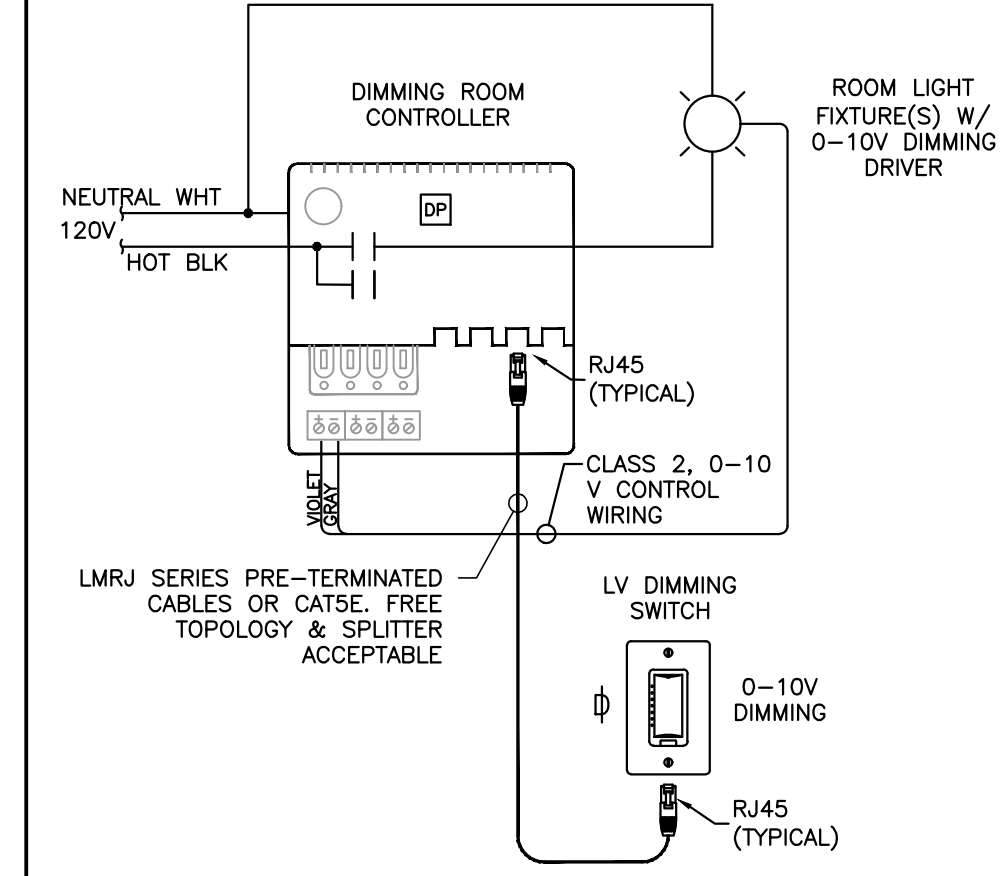
5D OCCUPANCY AND DIMMING PHOTOSENSOR ELEVATION
 SCALE: NTS
 RE:



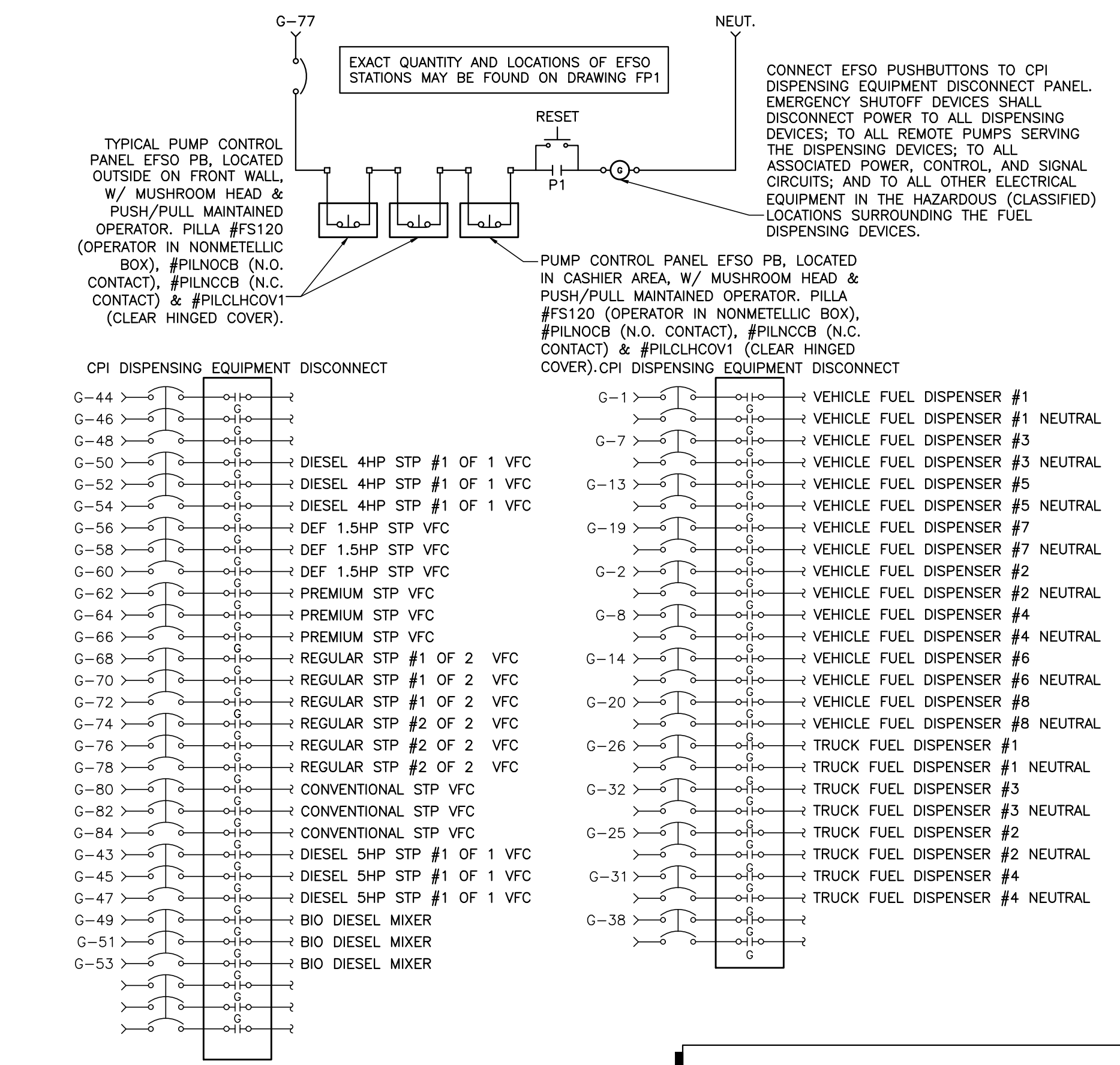
5C WALL SWITCH OCCUPANCY SENSOR WIRING DIAGRAM
 SCALE: NTS
 RE:



5B STORAGE AND RESTROOM LIGHTING CONTROL WIRING
 SCALE: NTS
 RE:

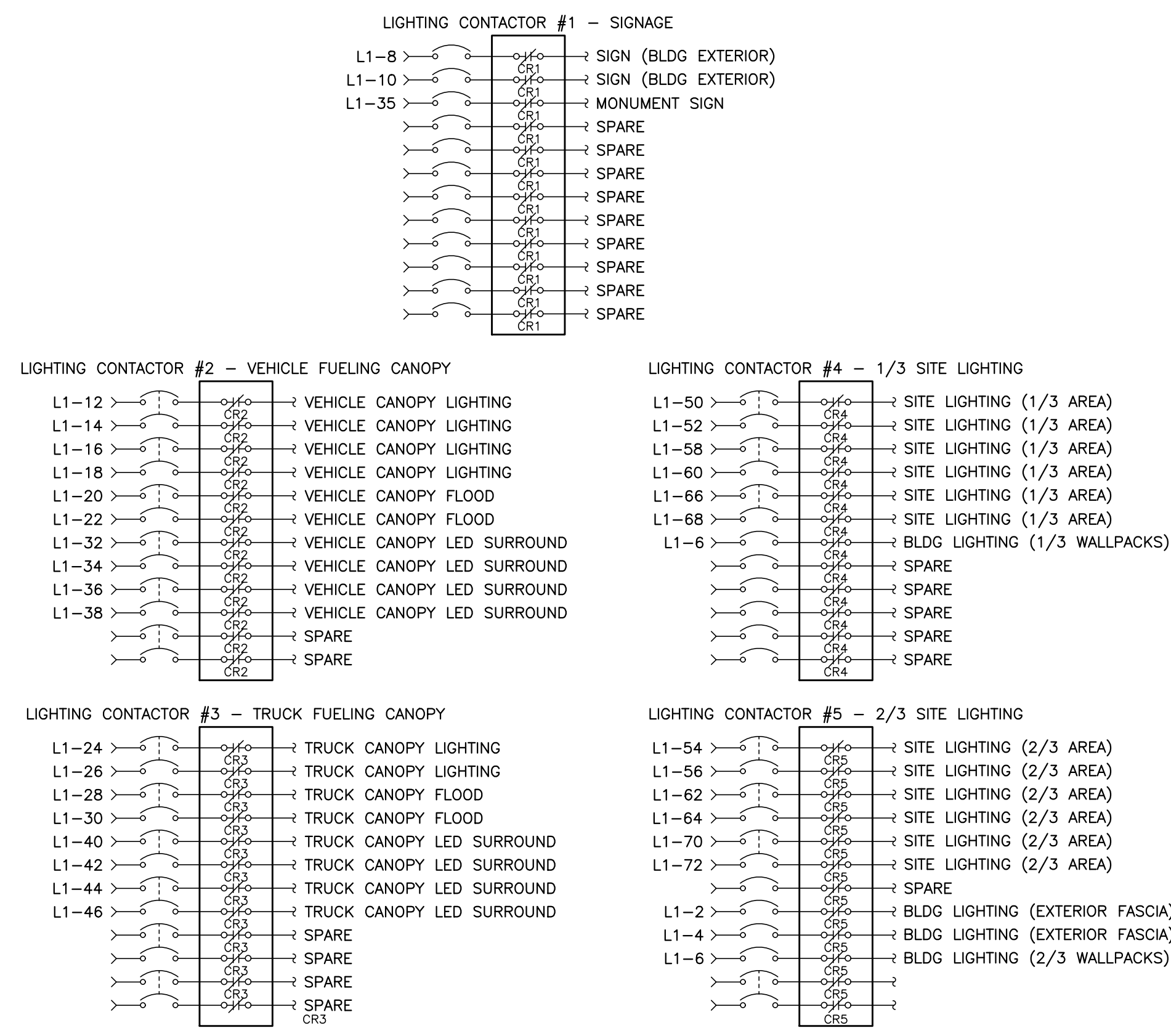


5A SALES AREA LIGHTING CONTROL WIRING DIAGRAM
 SCALE: NTS
 RE:



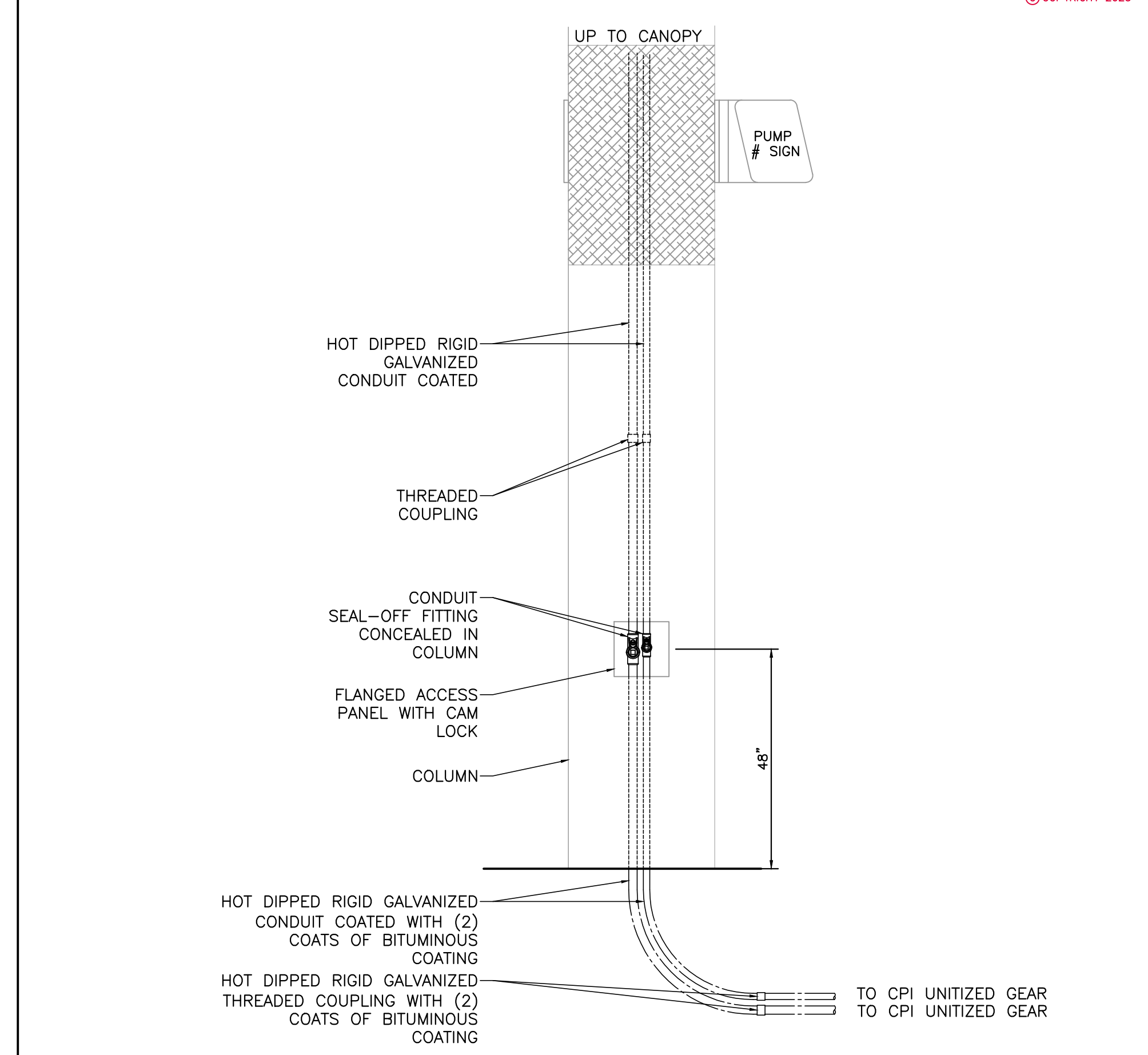
4 TYPICAL EMERGENCY FUEL SHUT OFF (EFSO) SCHEMATIC
 SCALE: NTS
 RE:

NOTE: ALL LOW-VOLTAGE WIRING GOING TO DISPENSER SHALL BE ROUTED THROUGH A LOW VOLTAGE ISOLATION RELAY THAT IS INTERLOCKED WITH THE EMERGENCY FUEL SHUT-OFF PUSHBUTTONS.

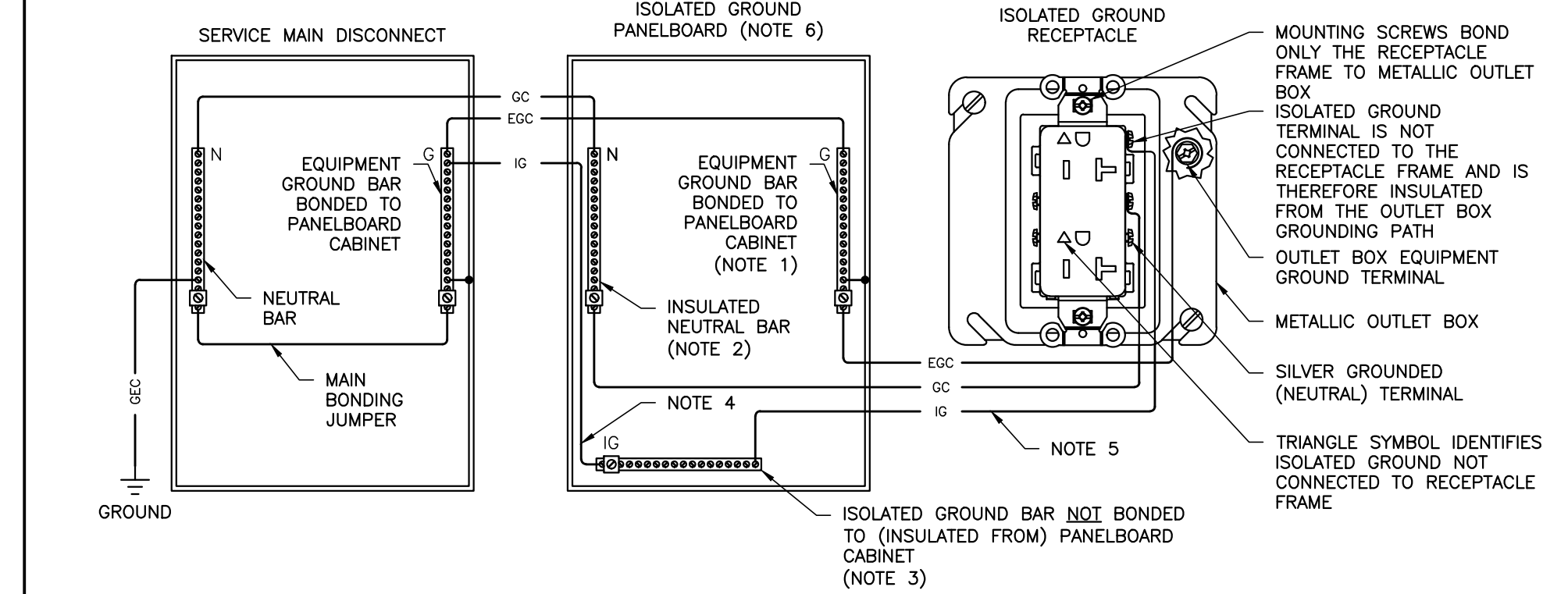


GENERAL NOTES:
 1. OUTDOOR SITE AREA (POLE) LIGHTING CIRCUITS AND PYLON SIGNAGE CIRCUITS SHALL REQUIRE SURGE PROTECTION WHERE THE CONDUCTORS ENTER THE CONVENIENCE STORE BUILDING

3 TYPICAL OUTDOOR LIGHTING CONTROL SCHEMATIC
 SCALE: NTS
 RE:



2 CANOPY CONDUIT SEAL-OFF
 SCALE: NTS
 RE:



GENERAL NOTES:
 A. THIS DETAIL IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO INDICATE PROPOSED CIRCUIT ROUTING, PHASE CONDUCTORS AND RACEWAYS ARE NOT SHOWN FOR CLARITY. ALL RACEWAYS SHALL BE SECURELY BONDED TO THE ENCLOSURE'S RACEWAYS CONNECT.
 B. A GREEN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN ADDITION TO THE ISOLATED GROUNDING CONDUCTOR FOR BONDING METALLIC RACEWAY AND ENCLOSURES. UNDER NO CIRCUMSTANCES WILL A METALLIC RACEWAY SYSTEM BE ACCEPTED AS THE SOLE MEANS OF EQUIPMENT GROUNDING.
 C. GROUND (NEUTRAL) CONDUCTORS ARE ONLY REQUIRED FOR 120V LOADS OR POLYPHASE LOADS THAT REQUIRE 120V POWER.
 D. REFERENCE PLAN DRAWINGS FOR ACTUAL RECEPTACLE TYPE AND NEMA CONFIGURATION.
 E. ISOLATED GROUND RECEPTACLES SHALL BE ORANGE FACE.

CONDUCTOR LEGEND:
 - GC - GROUND (NEUTRAL) CONDUCTOR
 - EGC - EQUIPMENT GROUNDING CONDUCTOR
 - IG - ISOLATED GROUNDING CONDUCTOR
 - GEC - GROUNDING ELECTRODE CONDUCTOR

1 ISOLATED GROUND DETAIL
 SCALE: NTS
 RE:

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PROJECT NUMBER
 CEF22-E04A.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
 FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
 FIRM F-13071

 DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:
 09-09-20 MARCEL CAD
 10-08-20 PROGRESS PRINT
 11-10-20 PROGRESS PRINT
 02-16-23 60% REVIEW SET
 03-14-24 90% REVIEW SET
 03-28-24 100% SET
 FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, BIRRIEL ENGINEERING PER REQUEST.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE

SHEET TITLE
ELECTRICAL DETAILS

DRAWING NUMBER
E04A
 SHEET NO.

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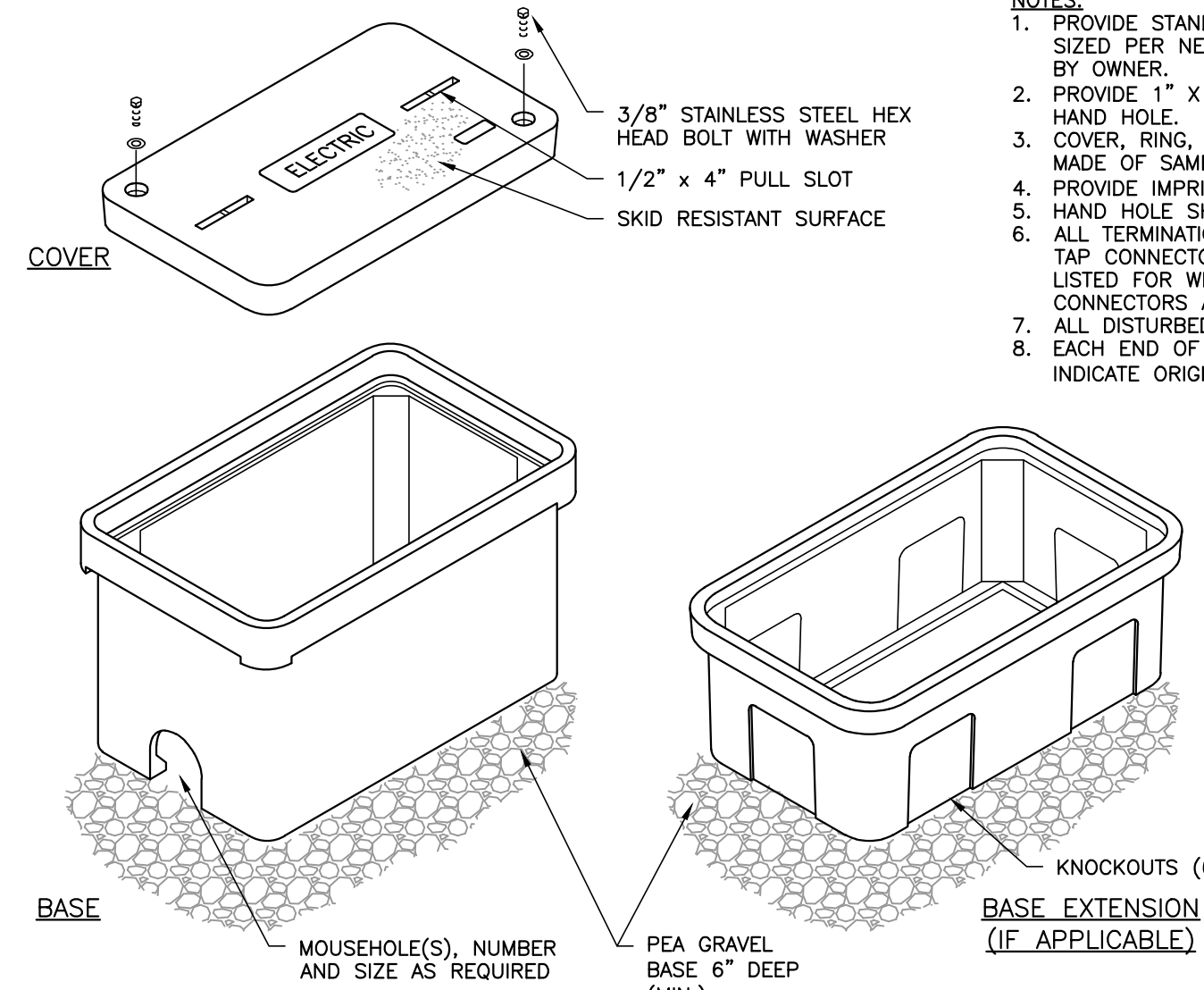
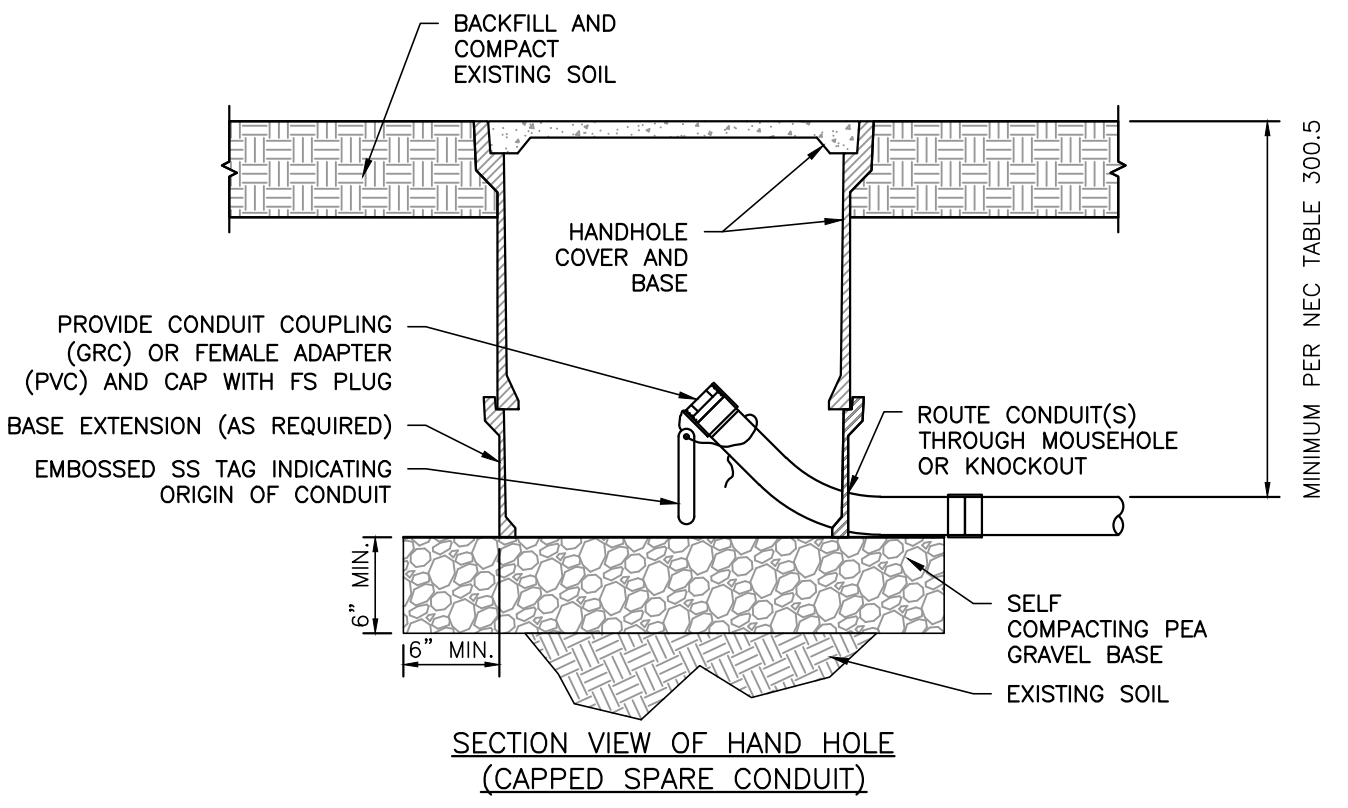
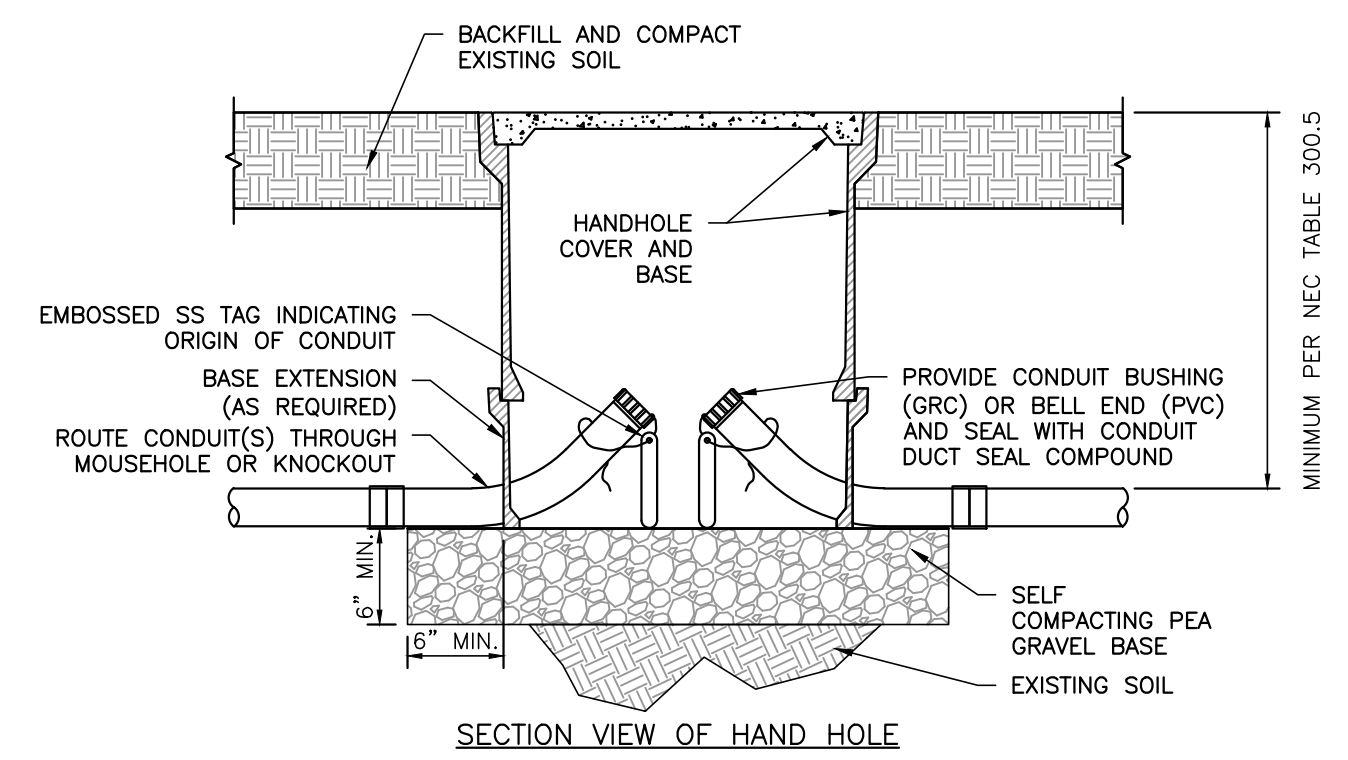
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REVISIONS

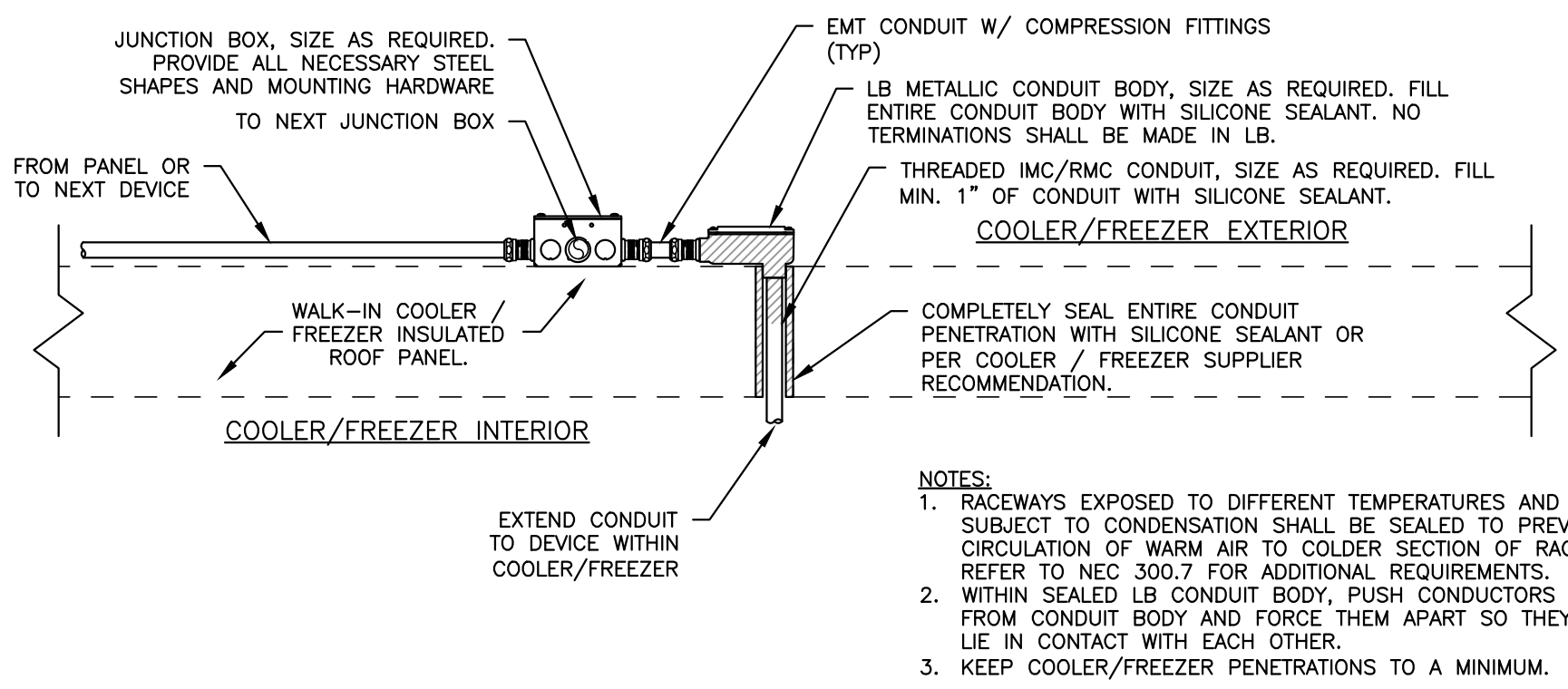
NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____
SHEET TITLE
ELECTRICAL DETAILS

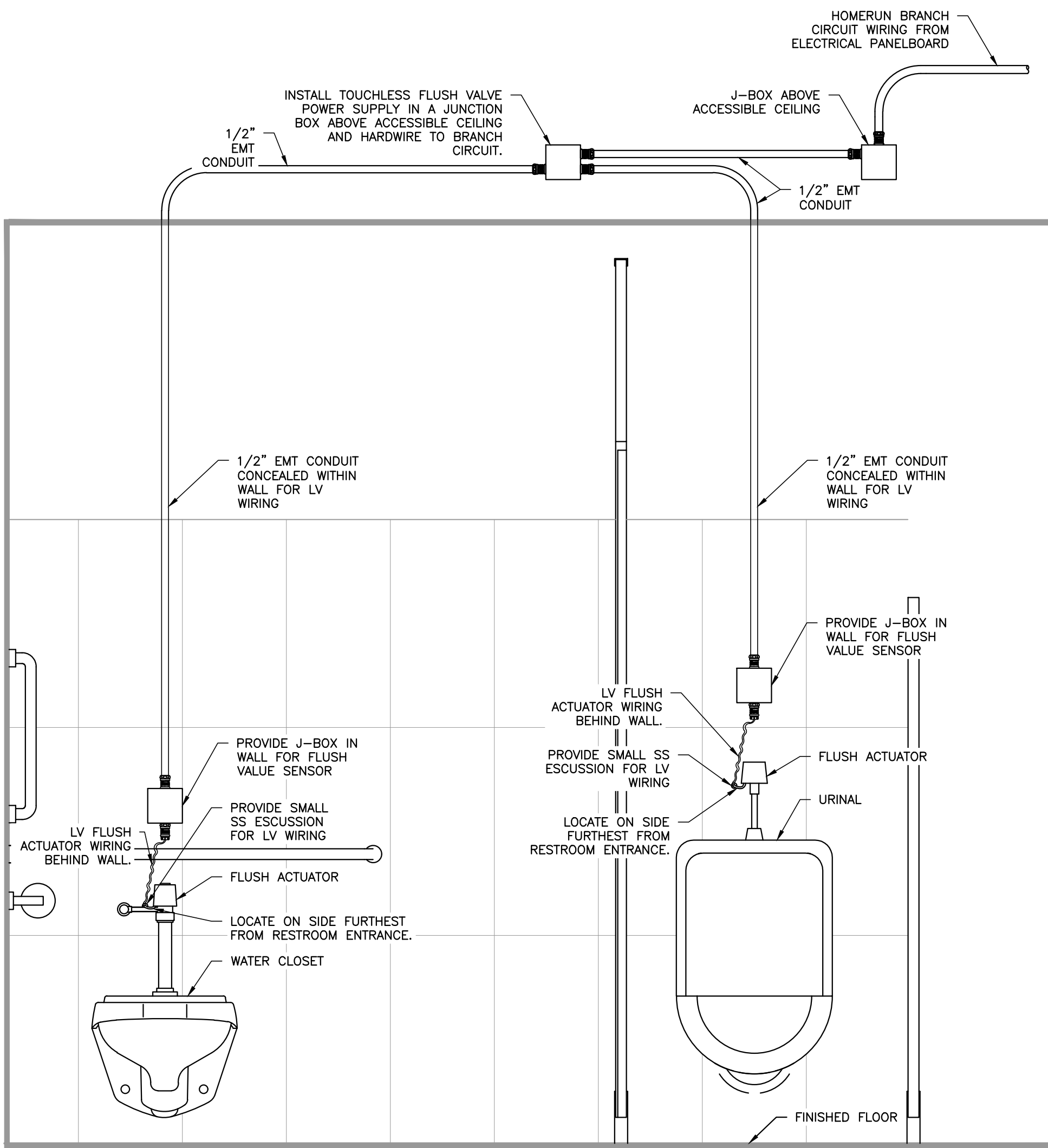
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E04B
SHEET NO.



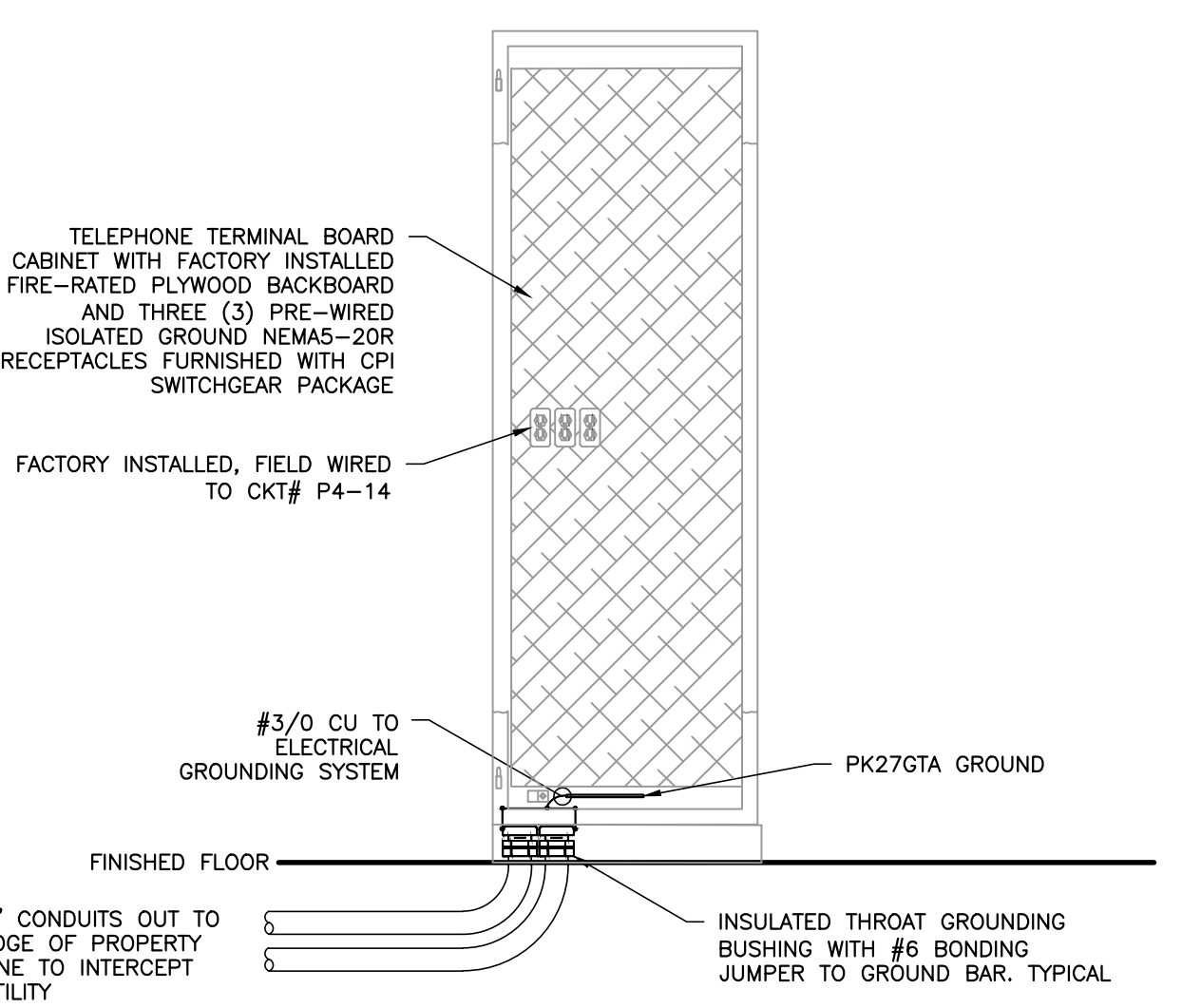
2 HANDHOLE DETAIL
SCALE: NTS
RE:



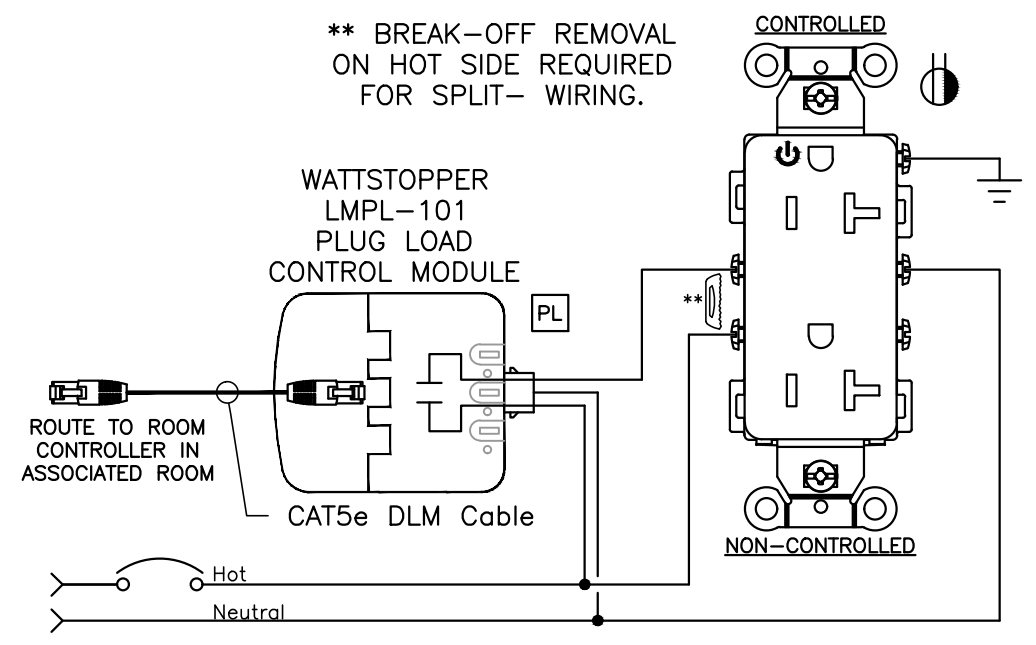
1 COOLER / FREEZER CONDUIT PENETRATION SEALING DETAIL
SCALE: NTS
RE:



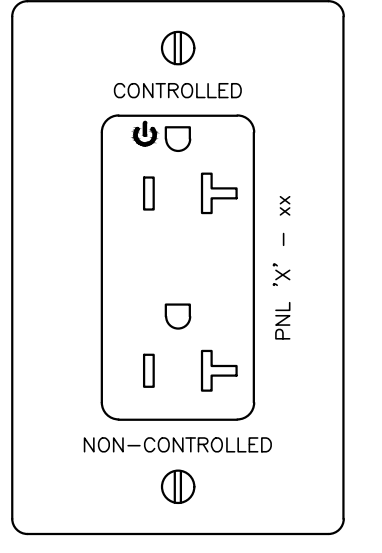
2 TYPICAL RESTROOM TOUCHLESS FAUCET AND FLUSHOMETER DETAIL
SCALE: NTS
RE:



1 IPC UNITIZED GEAR TELEPHONE TERMINAL BOARD CEFCO RETAIL
SCALE: NTS
RE:

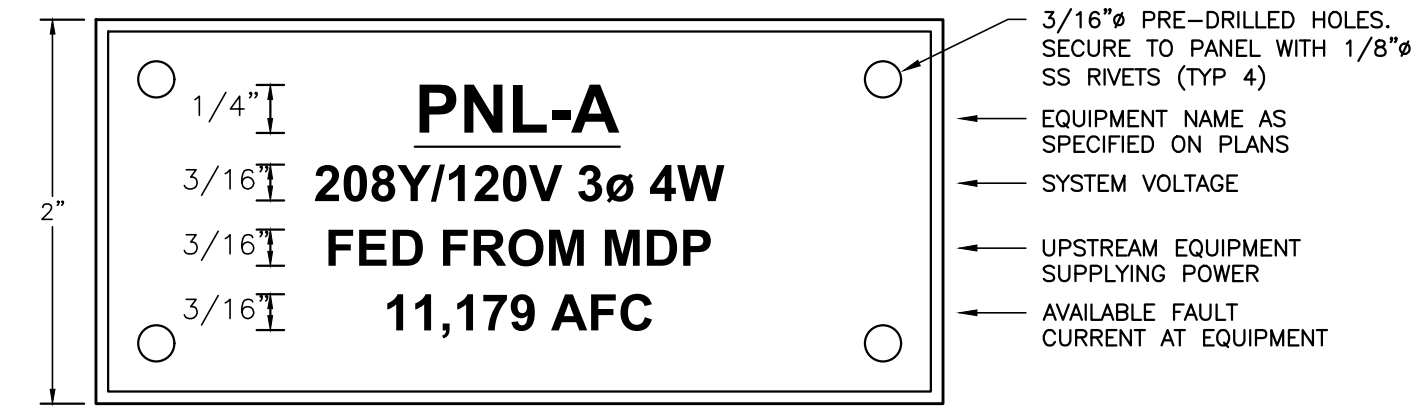


OCCUPANCY SENSOR CONTROLLED RECEPTACLES: CONTROLLED RECEPTACLES SHALL BE CONTROLLED BY OCCUPANCY SENSOR AND OPERATE WITH LIGHTS IN ASSOCIATED ROOM. PROVIDE PLUS LOAD CONTROL MODULE FOR EACH ROOM AND CONNECT TO ROOM CONTROLLER IN ASSOCIATED ROOM.



- NOTES:**
- ALL CONTROLLED RECEPTACLES AND/OR COVER PLATES SHALL BE PROVIDED WITH FACTORY ENGRAVED LABELS INDICATING TOP OUTLET AS 'CONTROLLED' AND BOTTOM OUTLET AS 'NON-CONTROLLED'.
 - CIRCUIT NUMBER SHALL BE INDICATED WITH A TYPED SELF-ADHESIVE BACKED LABEL WITH CLEAR BACKGROUND AND CHARACTERS OF CONTRASTING COLOR TO COVER PLATE (BLACK OR WHITE CHARACTERS).
 - FOR CLARITY, NOT ALL EQUIPMENT GROUNDS ARE SHOWN.
 - PROVIDE ISOLATED GROUND RECEPTACLE AND IG CONDUCTOR WHEN SPECIFIED ON PLAN DRAWINGS AND PANEL SCHEDULES.
 - CONTROLLED RECEPTACLES SHALL BE FACTORY MARKED WITH THE CONTROLLED RECEPTACLE SYMBOL [NEC 406.3].

5 WATTSTOPPER DLM SWITCHED PLUG LOAD WIRING DIAGRAM
SCALE: NTS
RE:



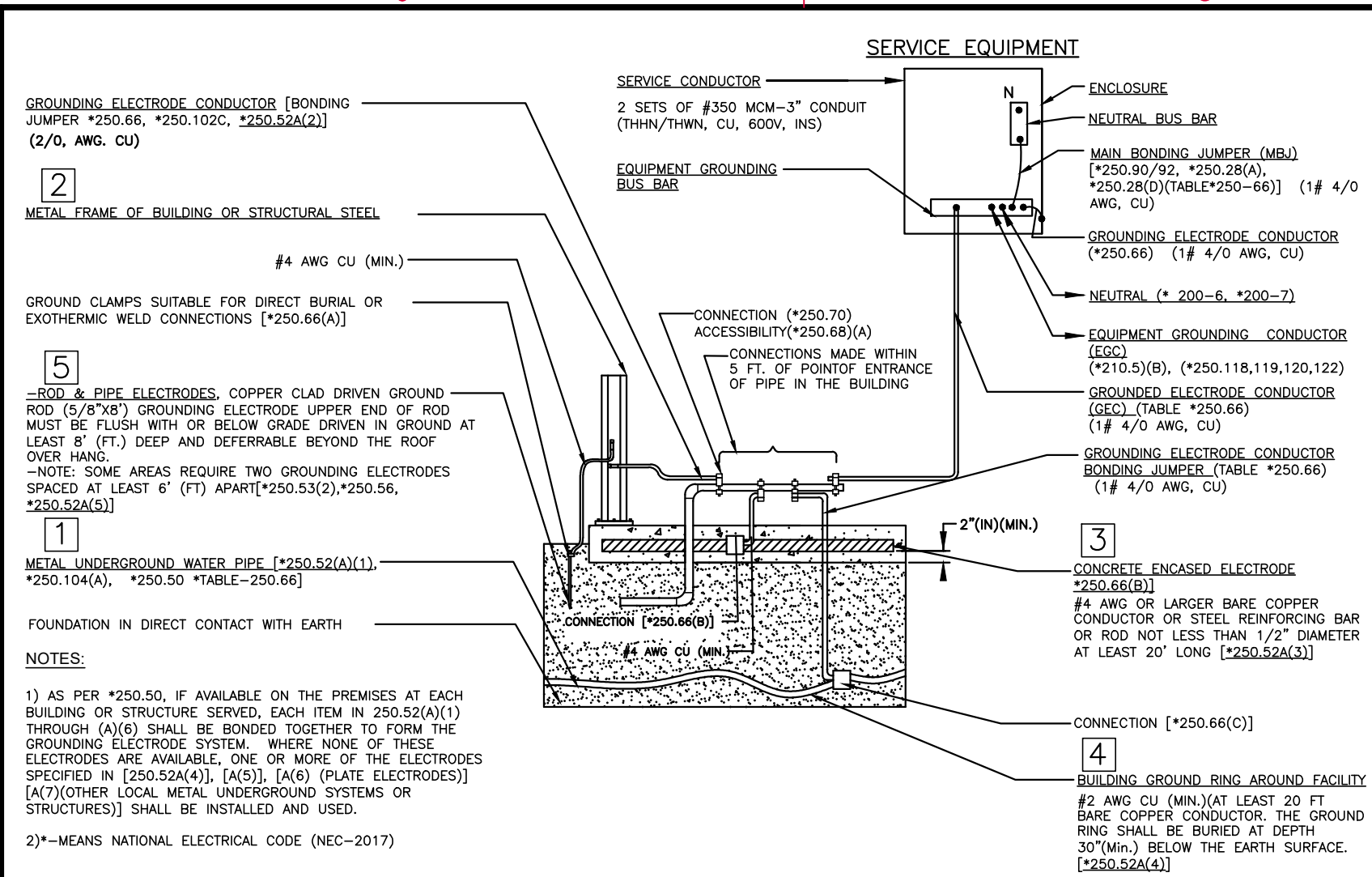
- NOTES:**
- ALL DISTRIBUTION EQUIPMENT SUCH AS PANELBOARDS, SWITCHBOARDS, DISCONNECTS, TRANSFORMERS, ETC. SHALL BE PROVIDED WITH AN EQUIPMENT LABEL PER THE REQUIREMENTS OF THIS DETAIL.
 - LABELS SHALL BE 2-PLY ENGRAVED PLASTIC LAMINATE WITH BLACK TYPEFACE LETTERS. LABEL BACKGROUND SHALL FOLLOW THE BELOW COLOR SCHEME:
A. NORMAL POWER - WHITE
B. UPS POWER - BLUE
C. LIFE SAFETY POWER - YELLOW
 - LABEL MATERIAL SHALL BE DURABLE, UV STABLE, RATED FOR OUTDOOR USE, AND ABRASION RESISTANT. WHERE ATTACHED TO NEMA 4X EQUIPMENT, LABELS SHALL IN ADDITION BE CHEMICAL RESISTANT.
 - LABELS SHALL BE PERMANENTLY ATTACHED TO ENCLOSURE COVER WITH RIVETS UNLESS DOING SO COMPROMISES ITS NEMA / IP RATING. LABELS FOR ENCLOSURES WITH WELDED SEAMS AND GASKETED DOORS SUCH AS THOSE RATED NEMA 12 OR NEMA 4 SHALL BE INSTALLED USING PERMANENT WEATHER-, UV-, AND TEMPERATURE-RESISTANT DOUBLE-SIDED MOUNTING TAPE ONLY.
 - A SUBMITTAL WITH A COMPLETE LIST OF EQUIPMENT LABELS SHALL BE PROVIDED FOR ENGINEER APPROVAL PRIOR TO ORDERING.
 - LABELS SHALL INDICATE NO LESS THAN THE FOLLOWING:
A. EQUIPMENT NAME
B. THE NOMINAL SYSTEM VOLTAGE WHICH SAID EQUIPMENT IS CONNECTED TO
C. THE EQUIPMENT NAME SUPPLYING POWER TO SAID EQUIPMENT
D. THE AVAILABLE FAULT CURRENT AT SAID EQUIPMENT

4 EQUIPMENT LABEL DETAIL
SCALE: NTS
RE:



- NOTES:**
- ALL SERIES RATED EQUIPMENT SHALL BE PROVIDED WITH A LABEL PER THE REQUIREMENTS OF THIS DETAIL.
 - LABEL SHALL BE PERMANENT, ADHESIVE-BACKED, UV STABLE, AND RATED FOR OUTDOOR USE.
 - A SUBMITTAL WITH A COMPLETE LIST OF EQUIPMENT LABELS SHALL BE PROVIDED FOR ENGINEER APPROVAL PRIOR TO ORDERING.

3 SERIES RATED EQUIPMENT LABEL DETAIL
SCALE: NTS
RE:



GROUNDING DETAIL - G
NOT TO SCALE
RE: NONE

GROUNDING NOTE:
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONNECTED TO THE SERVICE CONDUCTOR AT ANY ACCESSIBLE POINT FROM THE LOAD END OF THE SERVICE DROP OR LATERAL TERMINAL OR BUS TO WHICH THE SERVICE GROUNDED CONDUCTOR IS CONNECTED AT THE SERVICE DISCONNECTING MEANS. A GROUNDING CONNECTION SHALL NOT BE MADE TO ANY GROUNDED CIRCUIT CONDUCTOR ON THE LOAD SIDE OF THE SERVICE DISCONNECTING MEANS EXCEPT AS PERMITTED IN THIS ARTICLE. NEC 250.24

IMPORTANT NOTE:
WHERE MULTIPLE SERVICES ARE TO BE CONNECTED TO A SINGLE SERVICE A SERVICE CABLE TAP BOX SHALL BE REQUIRED. THE SERVICE CABLE TAP BOX SHALL BE WEATHERPROOF AND COMPLY WITH THE FOLLOWING:
1. THE SERVICE CABLE TAP BOX SHALL BE LOCKABLE WITH PROVISIONS TO ACCEPT THE UTILITY LOCKS.
2. COVERS SHALL BE FASTENED WITH MACHINE SCREWS OR BOLTS. HINGED COVERS SHALL NOT BE PERMITTED.
3. COVERS SHALL HAVE TWO HANDLES FOR COVER REMOVAL.
4. BUSBARS SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND HELD FIRMLY IN PLACE.
5. BUSBARS SHALL BE SIZED TO PHYSICALLY ACCOMMODATE THE MAXIMUM NUMBER OF TENANT SERVICES ANTICIPATED AND PREDRILLED.

TRUCKER FUEL CANOPY LIGHTING PLAN
RE: SITE PLAN
SCALE: NONE

GROUNDING DETAIL - G
NOT TO SCALE
RE: NONE

LIGHTING FOR ITS CIRCUITRY FOR THE CANOPY NOT INCLUDED AS PART OF THIS PART OF PERMITTING. CANOPY ELECTRICAL WILL BE SUBMITTED SEPARATELY

ALL METAL WIREWAYS WITH PARALLEL CONDUCTORS WITH AN AMPACITY OF OVER 800 AMPERES SHALL HAVE INSULATED STEP BUS CONDUCTORS. AS PER SECTION 504.4 OF NEC.

GENERAL CONTRACTOR IS TO INSURE THAT ALL GROUNDING AND BONDING IS TO OCCUR AT THE MAIN SERVICE GUTTER ONLY

SERVICE CONDUCTORS OCP 230.90(A) UNDERGROUND CONDUCTORS SHALL BE PROTECTED WITH AN OVER-CURRENT DEVICE IN SERIES WITH EACH UNDERGROUND CONDUCTOR HAVING A RATING OR SETTING NO HIGHER THAN THE ALLOWABLE AMPACITY OF THE CONDUCTOR. THIS REFERS TO ALL MAIN CIRCUIT BREAKERS AT THE PANELS.

GASOLINE DISPENSING SEALING;
514 GASOLINE DISPENSING STATIONS: SEALING AT DISPENSER AND AT BOUNDARY AS PER ARTICLE 514.9(A) AND (B), NEC.

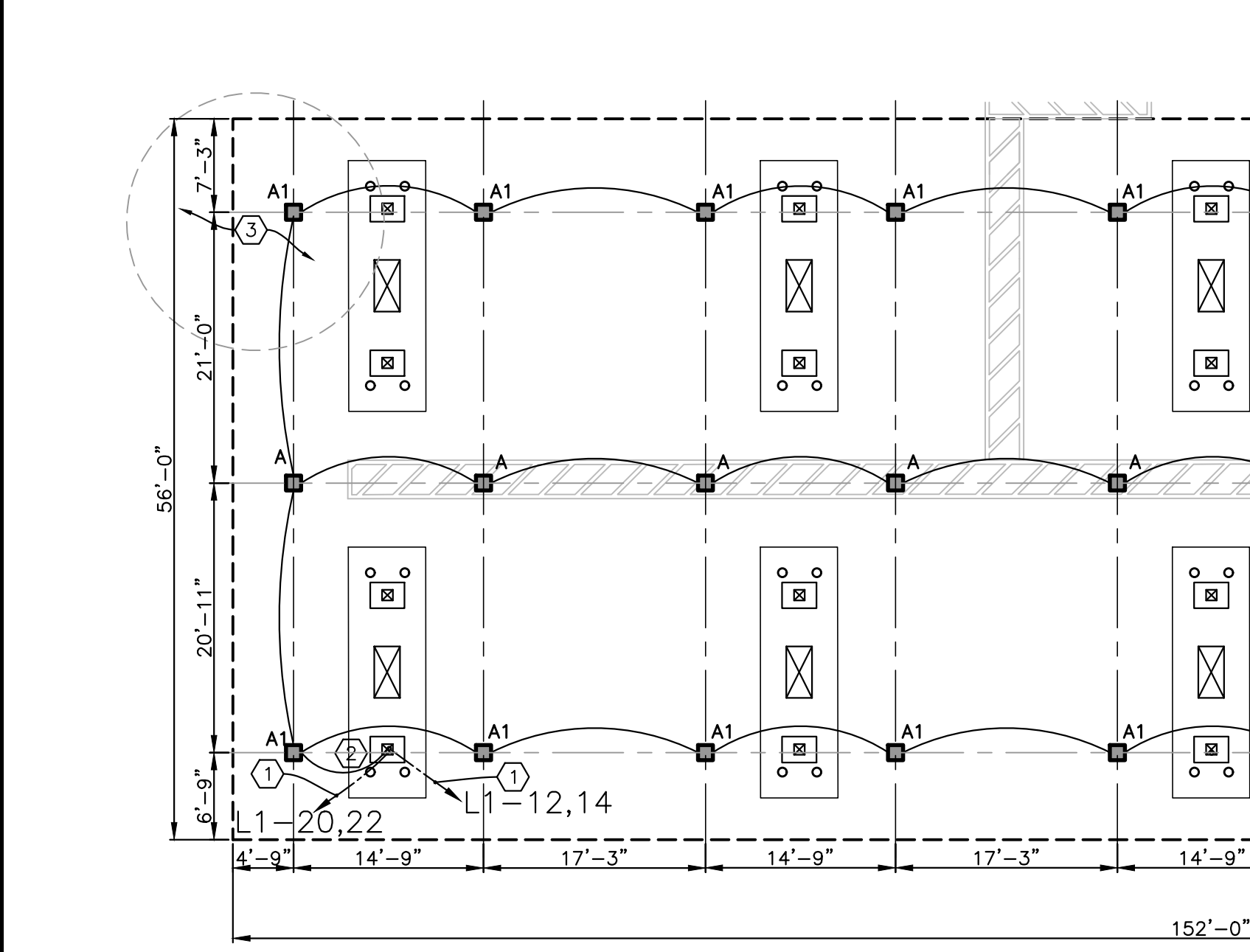
EXCEPTION TO 9.4.1.3: LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS FROM BUILDING OR PARKING STRUCTURES WHERE REQUIRED FOR SAFETY, SECURITY, OR EYE ADAPTION

ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.

TURNING OFF EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHTING NOT REQUIRED DURING NIGHT TIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK-TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL EXTERIOR LIGHTING CONTROL TIME SWITCH OR PHOTO SENSOR.

1) AS PER *250.50, IF AVAILABLE ON THE PREMISES AT EACH BUILDING OR STRUCTURE SERVED, EACH ITEM IN 250.52(A)(1) THROUGH (A)(6) SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THE ELECTRODES ARE AVAILABLE, ONE OR MORE OF THE ELECTRODES SPECIFIED IN 250.52(A)(4), (A)(5), (A)(6) (PLATE ELECTRODES) [(A)(7) OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES] SHALL BE INSTALLED AND USED.

2) * MEANS NATIONAL ELECTRICAL CODE (NEC-2017)



RETAIL FUEL CANOPY LIGHTING PLAN
SCALE: NONE

ELECTRICAL NOTES FOR UNDERGROUND FUEL TANKS

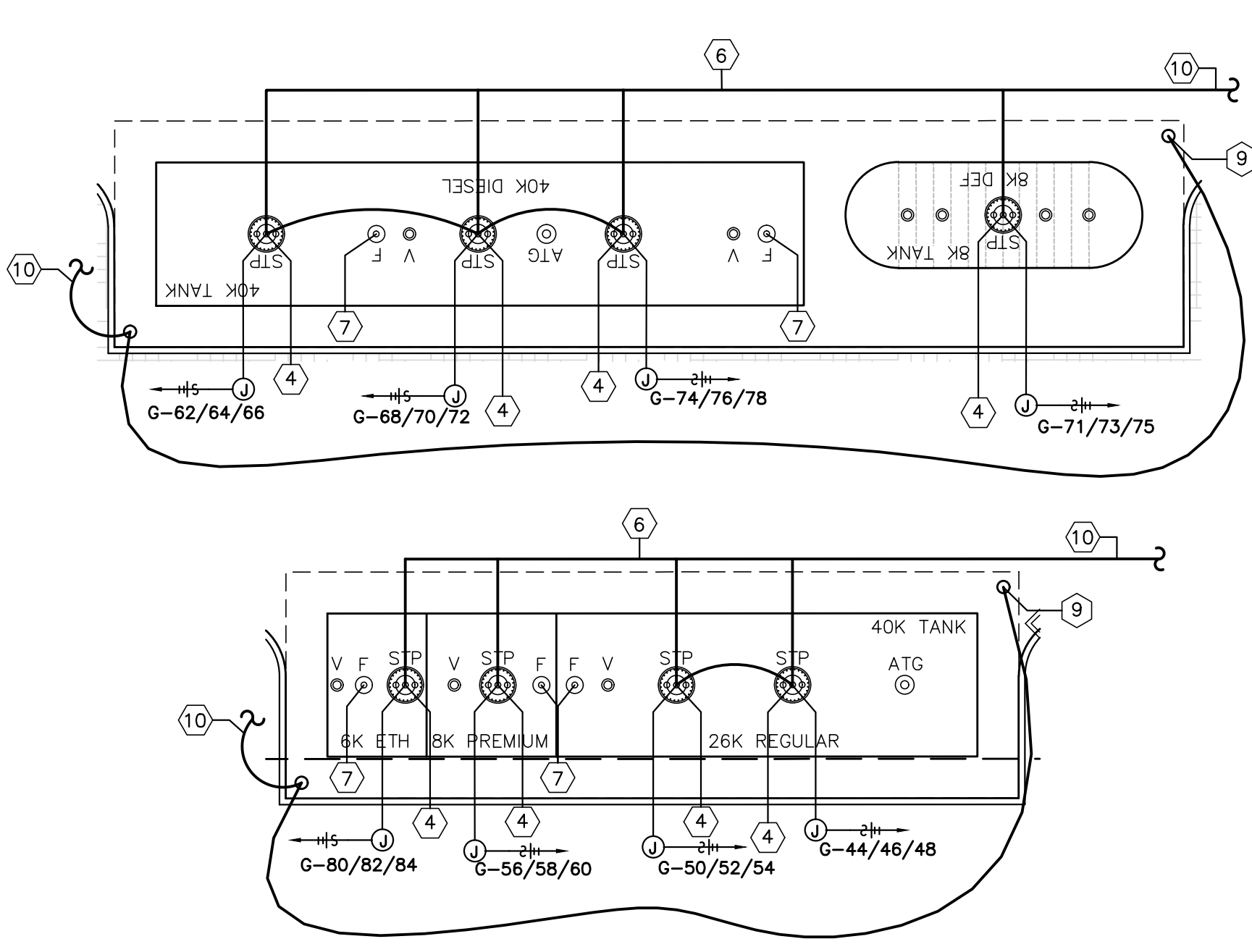
NO.	TYPE	LOCATION
1.	1 - 3/4" CONDUIT	- SUMP PUMPS AS PER N.E.C. CODE.
2.	1 - 3/4" CONDUIT	- TANK GAUGE INVENTORY (LOOPED).
3.	1 - 3/4" CONDUIT	- PER LEAK-LINE DETECTION SYSTEM TO SUMP PUMP (TOTAL OF 3)
4.	1 - 3/4" CONDUIT	- TO MONITOR WELLS (LOOPED).

FUEL AND CANOPY ELECTRICAL KEYED NOTES

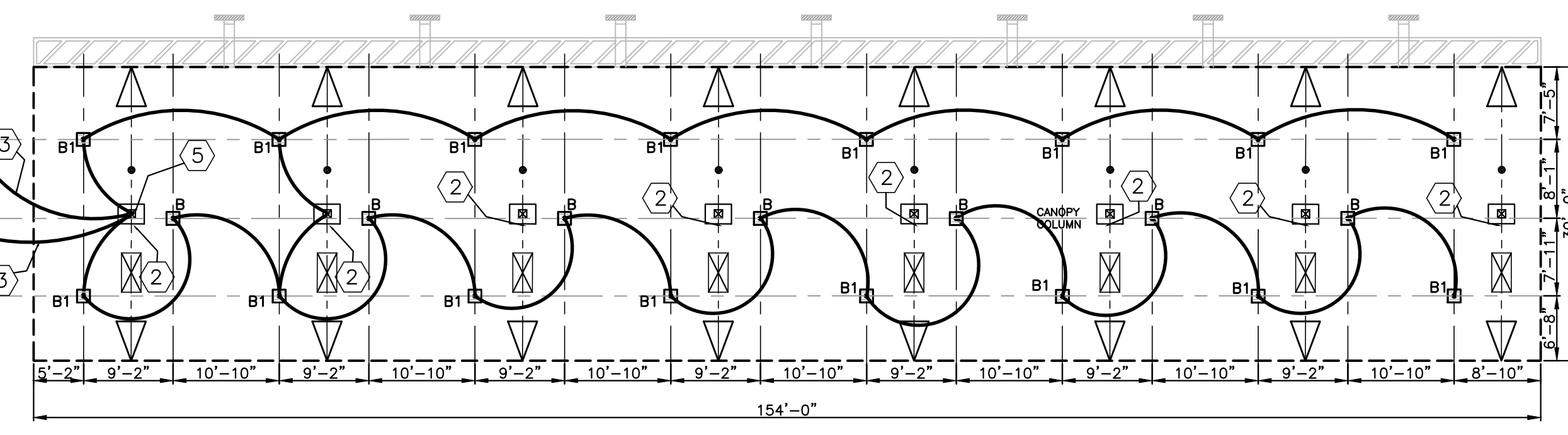
①	NONFUSED DISCONNECT FOR SIGN
②	3/4" CONDUIT FOR REMOTE CONTROLS AND READ-OUT AT CHECK-OUT COUNTER. VERIFY EXACT LOCATION BEFORE ROUGH-IN. CONDUIT ROUTE TO STORAGE ROOM.
③	CONTROL CIRCUIT FOR NIGHT OPERATION: RUN THIS CIRCUIT VIA LIGHTING CONTACTOR IN UNITIZED GEAR. REFER TO OUTDOOR LIGHTING SCHEMATIC DETAIL #3 ON SHEET E04A FOR ADDITIONAL INFORMATION.
④	FUEL TANK LEVEL GAUGE PROBES
⑤	SEAL-OFF FITTING: PROVIDE SEAL OFF FITTING FOR EACH CONDUIT WITHIN STEEL COLUMN AT HANDHOLE. REFER TO DETAIL 2 ON SHEET E04A.
⑥	3/4" CONDUIT WITH 12# 14 TO TANK LEVEL GAUGE BOX IN STORAGE ROOM.
⑦	SUB PUMP IN FUEL TANK
⑧	1/2" CONDUIT WITH 3 #14, TO EACH PROBE.
⑨	MONITOR WELL
⑩	1" CONDUIT TO J-BOX IN STORAGE ROOM WITH PULL WIRE.
⑪	3/4" CONDUIT TO MPD (WITH SPARE).

RE: E04P2 FOR STANDARD CEFCO FUEL WIRE SIZES.

NOTE
ALL UNDERGROUND ELECTRICAL WIRING, 480V OR HIGHER, IS TO BE ENCAPSULATED IN 2" OF RED CONCRETE. RE: E04P2 FOR STANDARD CEFCO WIRE SIZES.



UNDERGROUND FUEL TANKS PLAN - ELECTRICAL
RE: SITE PLAN
SCALE: NONE



TRUCKER FUEL CANOPY LIGHTING PLAN
RE: SITE PLAN
SCALE: NONE

NOTE
ALL KITCHEN AREA, ISLAND AND SELF SERVE AREA PLUGS HAVE TO BE GFI PROTECTED.

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SHEET NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL ORDINANCES.
- VERIFY ALL MECHANICAL EQUIPMENT SIZES PRIOR TO CONNECTION.
- COORDINATE ALL INSTALLATIONS W/ OTHER TRADES.
- CANOPY LIGHTING FIXTURES TO BE OF LED TYPE. FIXTURES ARE PROVIDED AND INSTALLED BY CANOPY SUPPLIER AND CIRCUITED BY ELECTRICAL CONTRACTOR.
- ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE GASOLINE DISPENSER, GASOLINE TANK VENTS, AND UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA-30A.
- ALL INTRINSICALLY SAFE (IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSI/ISA RP 12.6. IN ADDITION, SPECIAL IS WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS) WHERE PRACTICAL, OR PERMANENTLY ATTACHED, GROUNDED DIVIDER.
- UNDERGROUND STORAGE FUEL TANK LEAK MONITOR PANEL REQUIRES AN EQUIPMENT GROUND WIRE AND A BARRIER GROUND WIRE.

KEYED NOTES:

- CONTROL CIRCUIT FOR NIGHT OPERATION: RUN THIS CIRCUIT VIA LIGHTING CONTACTOR IN UNITIZED GEAR. REFER TO OUTDOOR LIGHTING SCHEMATIC DETAIL #3 ON SHEET E04A FOR ADDITIONAL INFORMATION.
- SEAL-OFF FITTING: PROVIDE SEAL OFF FITTING FOR EACH CONDUIT WITHIN STEEL COLUMN AT HANDHOLE. REFER TO DETAIL 2 ON SHEET E04A.
- HAZARDOUS CLASSIFIED AREA: VENTS FOR UNLEADED, PREMIUM UNLEADED AND REC 90 ARE IN A HAZARDOUS CLASSIFIED AREA. AVOID ANY CONDUIT RUNS THROUGH CANOPY HAZARDOUS CLASSIFIED AREAS. IF UNAVOIDABLE, THE CONDUIT SYSTEM WILL REQUIRE A SEAL-OFF FITTING BEFORE ENTERING THE HAZARDOUS CLASSIFIED AREA AND UPON LEAVING THE HAZARDOUS CLASSIFIED AREA. PROVIDE LIGHT FIXTURES CORRECT FOR THE HAZARDOUS CLASSIFIED LOCATION.

GENERAL ELECTRICAL NOTES

1.	ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2005 EDITION OF THE N.E.C.	10.	THE ELECTRICAL SYSTEM DESIGN IS BASE IN PART ON THE HVAC EQUIPMENT SPECIFIED ON THE MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE HVAC EQUIPMENT BEING FURNISHED AND PROVIDE THE CORRECT CONDUCTORS AND BREAKERS WITH NO ADDITIONAL COST TO THE OWNER. SHOULD THE LOAD OF THE EQUIPMENT BEING FURNISHED RESULT IN THE NEED TO INCREASE THE AMPACITY OF THE PANELS OR FEEDERS, THAT WORK SHALL ALSO BE PROVIDED A NO ADDITIONAL COST TO THE OWNER.
2.	THE DRAWINGS ARE DIAGRAMMATIC ONLY. NOT TO BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS FOR DIMENSIONS.	11.	THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
3.	ALL THE CONDUCTORS SHALL BE COPPER	12.	COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
4.	ALL WIRING ABOVE GRADE SHALL BE IN CONDUIT. SERVICE CONDUCTORS LOCATED OUTDOORS AND ABOVE THE GROUND SHALL BE IN IMC. ALL WIRING BELOW GRADE SHALL BE IN PVC. FEEDERS AND BRANCH CIRCUIT WIRING SHALL BE IN EMT. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.	13.	FIELD VERIFY THE EXISTING CONDITIONS AND MAKE ALLOWANCES FOR THE SAME.
5.	ALL WIRING IN FINISHED SPACES SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.	14.	ALL UTILITY CO. CHARGES FOR SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S BID AS A LINE ITEM.
6.	ALL RECEPTACLES INSTALLED IN BATHROOMS AND OUTDOORS SHALL BE GFCI TYPE OR PROTECTED BY A GFCI DEVICE.	15.	VERIFY EXACT REQUIREMENTS FOR ELECTRICAL EQUIPMENT WITH OWNER FOR THIS PROJECT. IN THE CASE OF A DISCREPANCY BETWEEN THE ACTUAL SELECTION OF EQUIPMENT AND THESE DRAWINGS, ADVISE THE OWNER BEFORE WORK BEGINS.
7.	COORDINATE INSTALLATION OF DEVICES AT COUNTERS WITH ARCHITECTURAL DRAWINGS.	16.	FIELD VERIFY ROUGH-IN LOCATIONS FOR ALL LIGHTS AND EQUIPMENT BEFORE INSTALLATION.
8.	PROVIDE "IN USE" WEATHER PROOF COVERS FOR ALL EXTERIOR DEVICES.	17.	AS PER NEC ART. 240-21 THE MAIN DISCONNECT MUST HAVE ADEQUATE SPACE FOR THE CONDUCTORS.
9.	ALL THE LIGHT FIXTURES SHALL BE AS SPECIFIED COMPLETE WITH REQUIRED MOUNTING HARDWARE, LAMPS, ETC.		

SITE CANOPY LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING HEIGHT	ARRANGEMENT	LAMP	VOLTAGE	TOTAL WATTAGE
A	LEGACY LED CANOPY LIGHT, STANDARD SYMMETRIC, HIGH OUTPUT 5000K COOL WHITE	LSI INDUSTRIES	CRUS-SC-VHO-50-WHT	17'	SINGLE	LED	208V	152W
A1	LEGACY LED CANOPY LIGHT, STANDARD SYMMETRIC, VERY HIGH OUTPUT 5000K COOL WHITE	LSI INDUSTRIES	CRUS-SCFT-LED-VHO-50-WHT	17'	SINGLE	LED	208V	152W
B	LEGACY LED CANOPY LIGHT, STANDARD SYMMETRIC, VERY HIGH OUTPUT 5000K COOL WHITE	LSI INDUSTRIES	CRUS-SC-VHO-50-WHT-BRZ	18'	SINGLE	LED	208V	152W
B1	LEGACY LED CANOPY LIGHT, STANDARD SYMMETRIC, VERY HIGH OUTPUT 5000K COOL WHITE	LSI INDUSTRIES	CRUS-SCFT-LED-VHO-50-BRZ	18'	SINGLE	LED	208V	152W

SITE LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	HEIGHT	ARRANGEMENT	LAMP	TOTAL WATTAGE
☐	MIRADA LARGE OUTDOOR LED AREA LIGHT	LSI INDUSTRIES	MRL-LED-65L-SIL-FT-50-70CRI-D90-30' POLE +3' BASE	30'	2 @ 90°	LED	1036W
☐	MIRADA LARGE OUTDOOR LED AREA LIGHT	LSI INDUSTRIES	MRL-LED-65L-SIL-FT-50-70CRI-T90-30' POLE +3' BASE	30'	3 @ 90°	LED	1554W
☐	MIRADA LARGE OUTDOOR LED AREA LIGHT	LSI INDUSTRIES	MRL-LED-65L-SIL-FT-50-70CRI-Q90-30' POLE +3' BASE	30'	4 @ 90°	LED	2072W

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PROJECT NUMBER: **CEF22-E04C.DWG**

PROJECT TITLE: **CEFCO CONVENIENCE STORES #0047**

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
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BRUCEVILLE - EDDY CITY LIMITS
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LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
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02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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NO.	DATE	DESCRIPTION

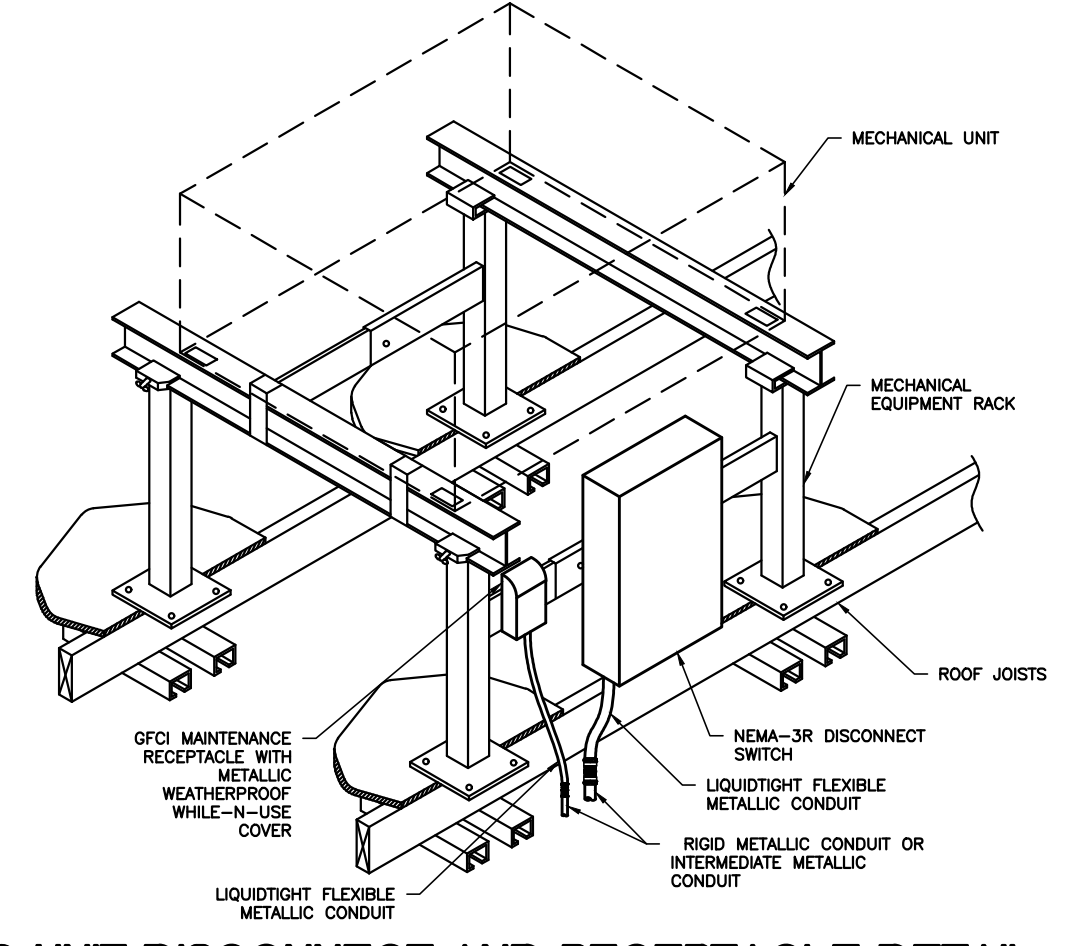
DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE: **CANOPY LIGHTING PLAN**

DRAWING NUMBER: **E04C** SHEET NO. _____

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- NOTES:**
1. REMOTE CONDENSING UNIT RACK IS TYPICAL. COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR SITE SPECIFIC RACK.
 2. COORDINATE FINAL LOCATION OF DISCONNECT SWITCH AND RECEPTACLE WITH MECHANICAL CONTRACTOR IN FIELD. ELECTRICAL INSTALLATION SHALL BE SECURELY FASTENED TO MEET THE RESPECTIVE WIND SPEED FOR THE LOCATION IN WHICH IT IS INSTALLED.
 3. PROVIDE ROOF BOOT TYPE FLASHING FOR ALL CONDUIT PENETRATIONS. COORDINATE PENETRATIONS WITH ROOFING CONTRACTOR IN FIELD.
 4. CONDUIT STUP-UP THROUGH ROOF SHALL BE RIGID METALLIC CONDUIT OR INTERMEDIATE METALLIC CONDUIT. STUB-UP SHALL BE SECURED TO ROOF STRUCTURE BELOW AND SHALL EXTEND BEYOND ROOF BOOT TYPE FLASHING. FLEXIBLE CONDUIT SHALL NOT PASS THROUGH ROOF BOOT TYPE FLASHING.
 5. ALL MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL WITH STAINLESS STEEL FASTENERS.
 6. ALL PENETRATIONS INTO ENCLOSURES AND EQUIPMENT SHALL BE FROM BELOW OR SIDES. NO TOP PENETRATIONS.
 7. FINAL CONNECTION FROM DISCONNECT SWITCH TO MECHANICAL EQUIPMENT SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT OR CONDUIT CHASE NIPPLE.



- KEYED NOTES:**
1. DISCONNECT: DISCONNECT FURNISHED WITH UNIT.
 2. ROOF MAINTENANCE RECEPTACLE: WEATHER RESISTANT GFCI DUPLEX RECEPTACLE IN WEATHERPROOF SURFACE MOUNTED METAL BELL BOX WITH METALLIC "IN-USE" COVER MOUNT ADJACENT TO DISCONNECT.
 3. REMOTE CONDENSER DISCONNECT: MOUNT 240V, NEMA-3R, HEAVY DUTY, NON-FUSIBLE DISCONNECT SWITCH ON RACK AT LOCATION DETERMINED BY EQUIPMENT INSTALLER. ROUTE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT TO UNIT AS REQUIRED.
 4. PHOTOCELL FOR CEFCC: PROVIDE 1/2" CONDUIT FROM PROPOSED PHOTOCELL LOCATION TO IPC UNITIZED GEAR FOR SITE LIGHTING CONTROLS. INSTALL A 2 WIRE SHIELDED CABLE. REFER TO IPC UNITIZED GEAR SUBMITTALS.
 5. REMOTE ICE MAKER CONDENSER: PROVIDE WEATHERPROOF 1P-20A MOTOR RATED SWITCH MOUNTED ON CONDENSER.
 6. REMOTE CONDENSER FUSIBLE DISCONNECT: MOUNT 240V, NEMA-3R, HEAVY DUTY, FUSIBLE DISCONNECT SWITCH ON RACK AT LOCATION DETERMINED BY EQUIPMENT INSTALLER. ROUTE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT TO UNIT AS REQUIRED. PROVIDE FUSES FOR DISCONNECT PER UNIT NAMEPLATE MAXIMUM OVERCURRENT PROTECTION (MOCP).

- GENERAL NOTES:**
1. ALL CONTROL & POWER WIRING SHALL BE COORDINATED WITH EQUIPMENT SUPPLIERS.
 2. FINAL LOCATION OF EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR.
 3. VERIFY NUMBER & SIZES OF CONDENSER UNITS WITH EQUIPMENT SUPPLIERS.

24 ROOF REMOTE CONDENSING UNIT DISCONNECT AND RECEPTACLE DETAIL
NOT TO SCALE

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PROJECT NUMBER
CEF22-FLR.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
ELECTRICAL ENGINEER
DATE SIGNED: 03-28-24

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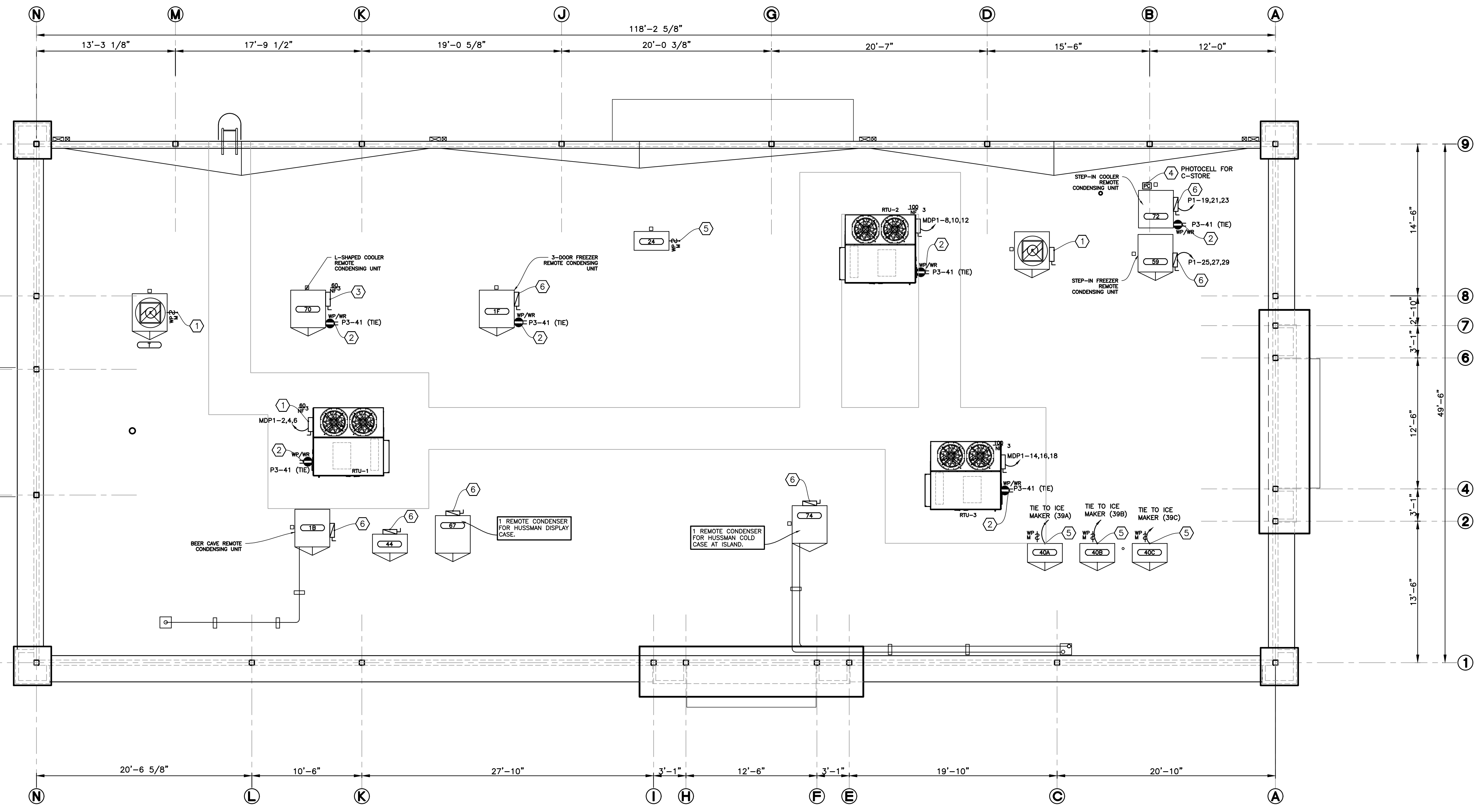
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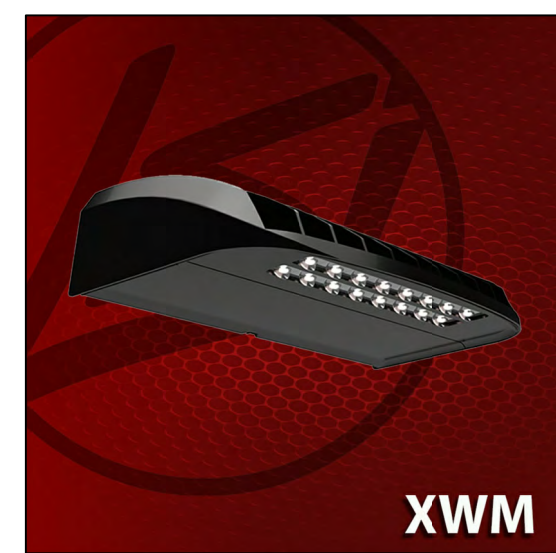
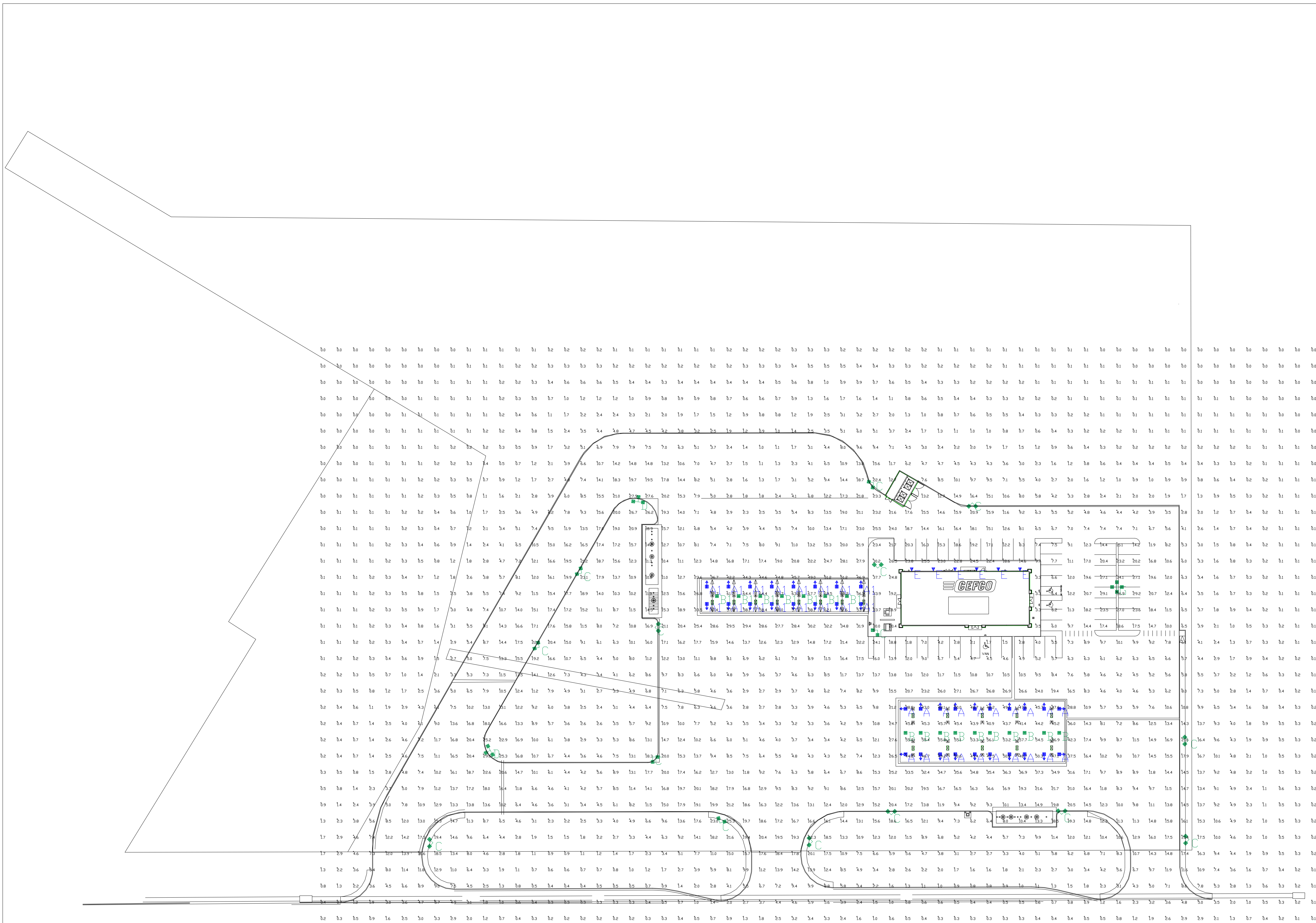
SHEET TITLE
ELECTRICAL ROOF PLAN

DRAWING NUMBER
E05



NOTE
1 HUSSMAN COLD CASE AT MILLWORK ISLAND (CLOSEST TO ENTRANCE). COLD CASE WILL HAVE 1 CONDENSER UNIT.

1 FLOOR PLAN - ELECTRICAL ROOF PLAN
SCALE: 3/16"=1'-0"
TOTAL AREA: 5,974 SQ. FT.



INTERSTATE HIGHWAY No. 35

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
ALL CALC POINTS 15 x 15	ILLUMINANCE	Fc	7.89	69.5	0.0	N.A.
DIESEL CANOPY	ILLUMINANCE	Fc	58.90	69.5	40.4	1.46
GAS CANOPY	ILLUMINANCE	Fc	48.42	57.7	37.6	1.29
INSIDE CURB	ILLUMINANCE	Fc	13.17	51.2	1.0	13.17

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLD	LLF	Arr. Lum. Lumens	Arr. Watts
	20	A	SINGLE	CRUS-SCFT-LED-VHD-50-WHT	17' GAS	1.000	1.000	23269	152
	16	A1	SINGLE	CRUS-SCFT-LED-VHD-50-BRZ	18' DIESEL	1.000	1.000	23269	152
	10	B	SINGLE	CRUS-SC-VHD-50-WHT	17' GAS	1.000	1.000	22697	152
	7	B1	SINGLE	CRUS-SC-VHD-50-WHT-BRZ	18' DIESEL	1.000	1.000	22697	152
	15	C	2 @ 90 degrees	MRL-LED-65L-SIL-FT-50-70CRI-D90	30'POLE+3'BASE	1.000	1.000	138474	1036
	2	D	3 @ 90 DEGREE	MRL-LED-65L-SIL-FT-50-70CRI-T90	30'POLE+3'BASE	1.000	1.000	207711	1554
	6	E	SINGLE	XWM-FT-LED-08L-50	12'	1.000	1.000	8465	64
	1	G	4 @ 90 Degrees	MRL-LED-65L-SIL-FT-50-70CRI-Q90	30'POLE+3'BASE	1.000	1.000	276948	2072

PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Total Project Watts
Total Watts = 29160

9000 ALLIANCE RD. CINCINNATI, OHIO 45241 USA
TEL: 703-208-1111 FAX: 703-208-0822

LIGHTING PROPOSAL LO-157291-6

CEFCO #47
INTERSTATE HIGHWAY 35
EDDY, TX

BY: SAM	DATE: 01-17-23	REV: 03-15-24	SHEET 1 OF 1
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SCALE: 1"=50'

KEYED NOTES:

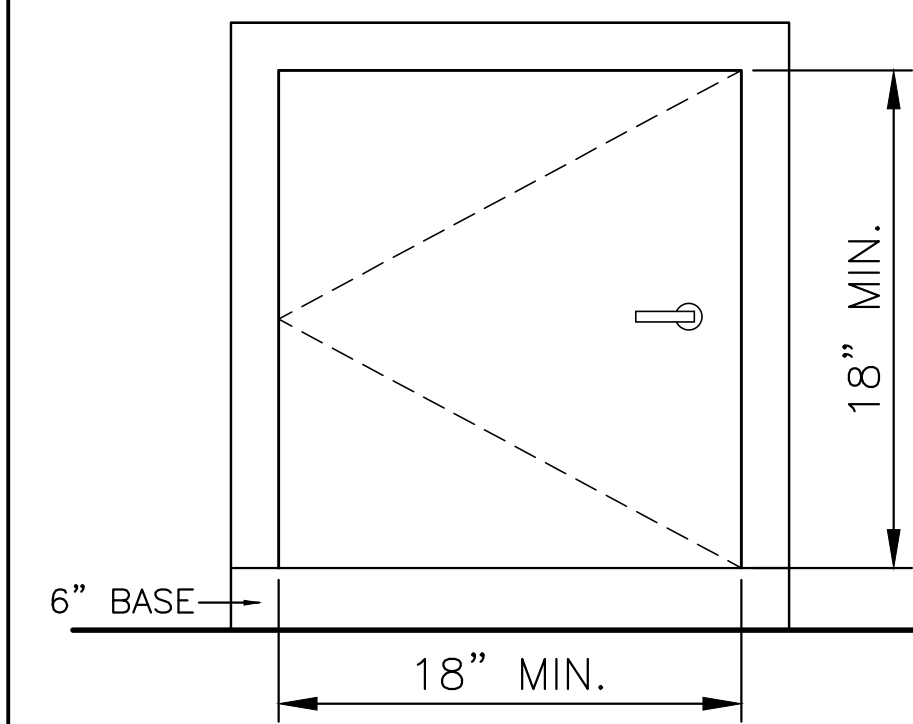
- 1 UNDER FLOOR REFRIGERANT LINE CHASE. 4" PVC INSTALLED WITH LONG RADIUS SWEEPS (MINIMUM 24" R.). BED PIPE IN 4" GRAVEL. INSTALL WITH MINIMUM NUMBER OF JOINTS POSSIBLE.

KITCHEN EQUIPMENT PLUMBING SUPPLY SCHEDULE

ITEM #	COLD WATER SIZE (IN)	HOT WATER SIZE (IN)	COLD WATER A.F.F. (IN)	HOT WATER A.F.F. (IN)	FILTERED WATER	INDIR. DRAIN SIZE (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN A.F.F. (IN)	GAS SIZE (IN)	MBTUH	GAS A.F.F. (IN)	EQUIPMENT CATEGORY	PLUMBING REMARKS
1	1/2"	1/2"	18"	18"	-	-	1 1/2"	20"	-	-	-	HAND SINK	-
2	-	-	-	-	-	-	-	-	3/4"	170	12"	FRYER BATTERY	-
3	-	-	-	-	-	-	-	-	3/4"	90	12"	GRIDDLE	CONNECT AS SPECIFIED IN THE OWNER MANUAL
4	1/2"	1/2"	36"	36"	-	-	-	-	-	-	-	SERVICE FAUCET	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-

PLUMBING NOTES (DIVISION 22)

- A. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S).
- B. INSTALL KEC (SECTION 114000) FURNISHED MOP SINK(S).
- C. INSTALL KEC (SECTION 114000) FURNISHED FIRE SUPPRESSION SYSTEM GAS SHUT OFF VALVE. MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.
- D. INSTALL KEC (SECTION 114000) FURNISHED DRAIN LINE TEMPERING KIT PER MANUFACTURER'S RECOMMENDATIONS.
- E. MANIFOLD DRAINS TO SINGLE CONNECTION.
- F. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.
- G. PIPING FROM WATER FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN IF REQUIRED.
- H. CONNECT MIN. 110°F HOT WATER SUPPLY TO BUILT-IN OR EXTERNAL (70° RISE) BOOSTER HEATER. WHEN EXTERNAL, INSTALL TEMPERATURE/PRESSURE GAUGE(S) AS REQ'D AND EXTEND TO DISHWASHER INLET.
- I. CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. 1/2" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
- J. PROVIDE GRAY WATER AND SLURRY PIPING TO AND FROM (SECTION 114000) FURNISHED PULPER, TROUGH, AND WATER EXTRACTOR. INSTALL KEC (SECTION 114000) FURNISHED TROUGH INLET NOZZLES AND PROVIDE SHUT OFF VALVE AT EACH NOZZLE.
- K. PROVIDE "TEE" IN HOT WATER LINE AND CAP FOR FUTURE INSTALLATION OF CHEMICAL DISPENSING SYSTEM BY OTHERS.
- L. PROVIDE CHROME PLATED PIPE AND FITTINGS WHERE EXPOSED.
- M. PROVIDE AND INSTALL 3" MIN. DRAIN LINE TO 12"x12"x10" DEEP FLOOR SINK.
- N. VERIFY EXACT LOCATION AND QUANTITY OF AREA FLOOR DRAIN(S) WITH THE PLUMBING ENGINEER.



2 ACCESS PANEL (WALK-IN COOLER)
NOT TO SCALE
RE: A03 & P02

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CEF22-FLR.DWG

PROJECT TITLE

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I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
McLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

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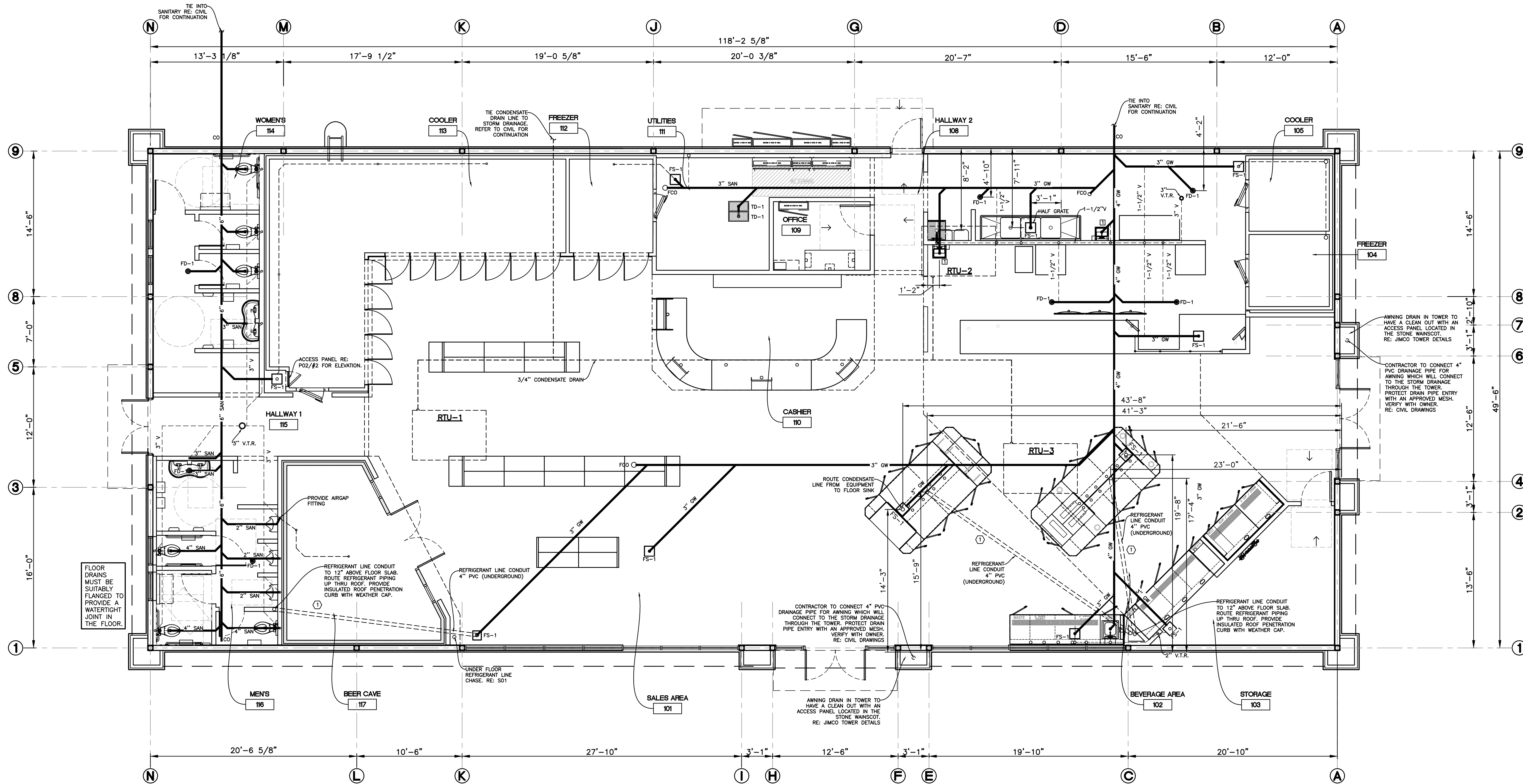
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SHEET TITLE

**PLUMBING
PROPOSED PLAN -
SANITARY AND VENT**

DRAWING NUMBER SHEET NO.

P02



1 FLOOR PLAN - SANITARY AND VENT
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

PROPOSED PLAN KEYED NOTES:

- ① REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF WATER METER AND BACKFLOW PREVENTER.
- ② PLUMBING CONTRACTOR TO PROVIDE RPZ BACKFLOW PREVENTERS OUTSIDE MAIN SERVICE LINE, EACH ICE MACHINE, AND WATER FILTER INDIVIDUALLY. CONTRACTOR TO PROVIDE RPZ BACKFLOW PREVENTERS FOR EACH BEVERAGE EQUIPMENT.
- ③ 4" PVC REFRIGERANT LINE CHASES AT FLOOR. ROUTE REFRIGERANT LINES UP TO CONDENSING UNIT LOCATED ON ROOF. RUN REFRIGERANT PIPING SUCH THAT MANUFACTURERS MAXIMUM REFRIGERANT PIPE LENGTH IS MAINTAINED.
- ④ **EASIWASH SYSTEM:** INSTALL EASIWASH SYSTEM PER MANUFACTURER'S INSTRUCTIONS. ROUTE HIGH PRESSURE LINES THRU 2" SCHEDULE 40 PVC WITH LONG RADIUS SWEEP ABOVE CEILING TO HOSE CONNECTION POINTS ON EXTERIOR WALL. REFER TO ARCHITECTURAL EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ⑤ CONNECT INCOMING HIGH PRESSURE WATER LINE WITH HIGH PRESSURE HOSE AND FREEZE RESISTANT BALL VALVE.
- ⑥ CAP COLD WATER LINE IN WALL. PROVIDE SMALL ACCESS PANEL. ACCESS PANEL TO PROVIDE ACCESS TO IN WALL DRAIN LINE.
- ⑦ N/A
- ⑧ DESIGNATED AREA FOR STACKED RPZS FOR BEVERAGE AREA. SEE 2/P03 FOR IMAGE REFERENCE.

NOTE:

GENERAL CONTRACTOR TO PROVIDE APPROPRIATE BACKFLOW PREVENTION AT ALL HYDRANTS WHERE A WATER HOSE CAN BE CONNECTED, TO INCLUDE THE ROOF HYDRANT, IN ACCORDANCE WITH IPC SECTION 608.

RE: P03A FOR WATER HEATER SCHEDULE

NOTE:

ALL APPLIANCES CONNECTED TO THE WATER SYSTEM SHALL BE PROTECTED BY A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY.

CEFCO STORE NATURAL GAS KEYED NOTES:

- ① REFER TO CIVIL DRAWINGS FOR EXACT POINT OF CONNECTION TO PROPANE TANK.
- ② N/A
- ③ INSTALL NATURAL GAS WATER HEATERS PER MANUFACTURER'S INSTRUCTIONS, CONNECT 3/4" GAS LINE TO GAS WATER HEATER.
- ④ CONNECT 3/4" GAS TO FRYER, INSTALL REGULATOR SUPPLIED WITH UNIT & FLEX LINE TO EQUIPMENT WHERE ALLOWED BY LOCAL CODES.
- ⑤ GAS LINE TO EQUIPMENT IN UP-DRAFT TO HAVE AUTOMATIC SHUT-OFF VALVE TIED INTO FIRE SYSTEM. VALVE SUPPLIED BY AUTO FIRE PROTECTION SYSTEM SUPPLIER - INSTALLED BY PLUMBING CONTRACTOR.

KITCHEN EQUIPMENT PLUMBING SUPPLY SCHEDULE

ITEM #	COLD WATER SIZE (IN)	HOT WATER SIZE (IN)	COLD WATER A.F.F. (IN)	HOT WATER A.F.F. (IN)	FILTERED WATER	INDIR. DRAIN SIZE (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN A.F.F. (IN)	GAS SIZE (IN)	MBTUH	GAS A.F.F. (IN)	EQUIPMENT CATEGORY	PLUMBING REMARKS
1	1/2"	1/2"	18"	18"	-	-	1 1/2"	20"	3/4"	170	12"	HAND SINK	-
2	-	-	-	-	-	-	-	-	3/4"	170	12"	FRYER BATTERY	-
3	-	-	-	-	-	-	-	-	3/4"	90	12"	GRIDDLE	CONNECT AS SPECIFIED IN THE OWNER MANUAL
4	1/2"	1/2"	36"	36"	-	-	-	-	-	-	-	SERVICE FAUCET	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-



2 STACKED RPZ IMAGE REFERENCE

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MCLENNAN COUNTY
A PROJECT OF:
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CEFCO
F2501-B SERIES
RIGHT FACING

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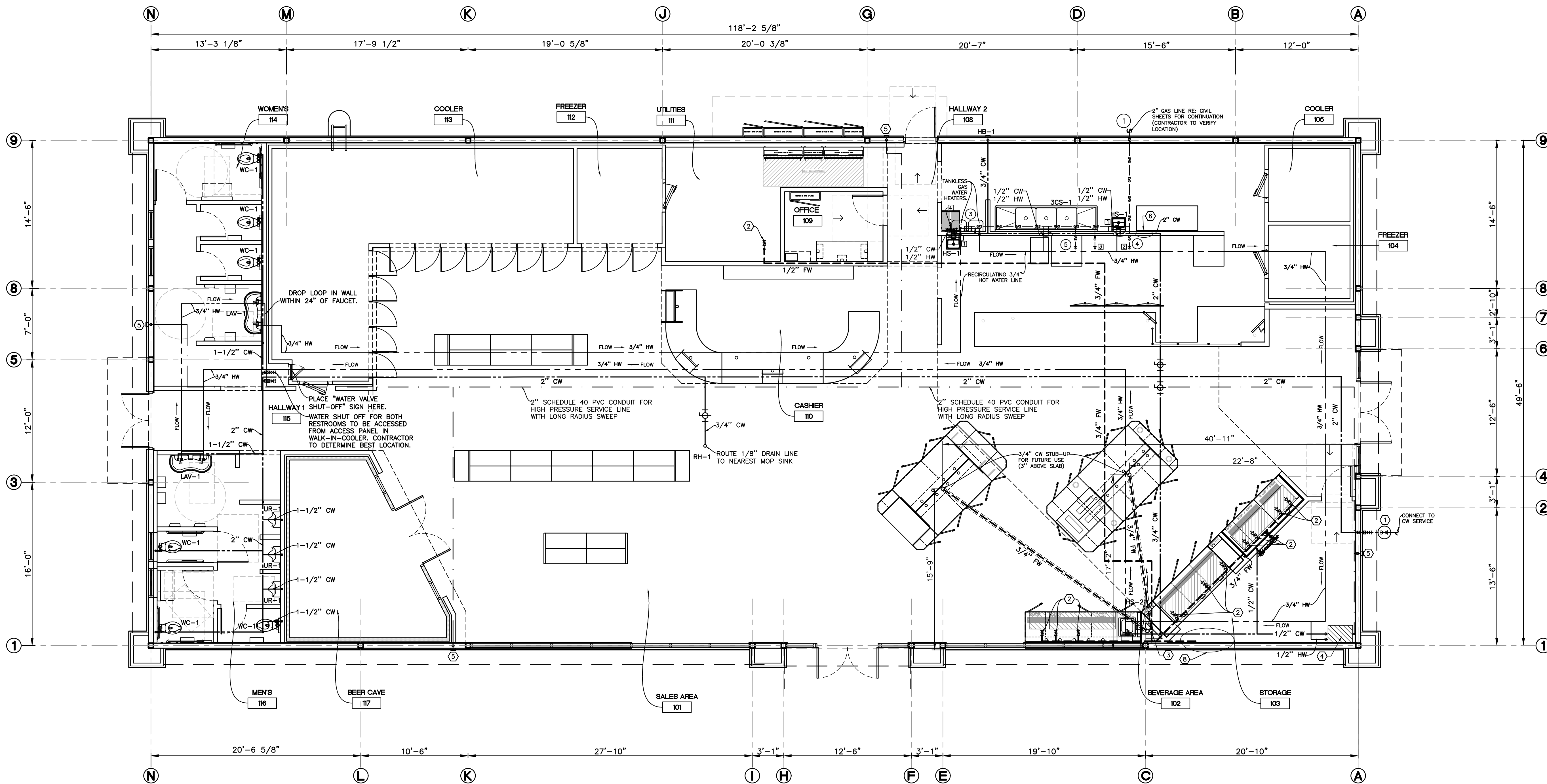
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
PLUMBING PROPOSED PLAN - DOMESTIC WATER

DRAWING NUMBER
P03



1 FLOOR PLAN - DOMESTIC WATER
SCALE: 3/16" = 1'-0"
TOTAL AREA: 5,974 SQ. FT.

PLUMBING FIXTURE SCHEDULE:

FIXTURE MARK	MANUFACTURER SERIES NUMBER	DESCRIPTION	CONNECTIONS			
			CW	HW	W	V
HS-1	HAND SINK ADVANCE TABCO 7-PS-EC-SP-1X	WALL MOUNTED BASE TYPE.	1/2"	1/2"	1-1/2"	1-1/2"
HS-2	HAND SINK EAGLE GROUP SR19-16-13.5-1	DROP-IN SINK, 1-COMPARTMENT, 20"X16"X13-1/2". 18 GAUGE STAINLESS STEEL, WITH DECK MOUNTED FAUCET, SWING NOZZLE, BASKET DRAIN. PROVIDE THERMOSTATIC MIXING VALVE, SET OUTLET TEMPERATURE TO 105°F.	1/2"	1/2"	1-1/2"	1-1/2"
HB-1	WOODFORD 24P3/4 WWC	ANTI-SIPHON WALL FAUCETS. MODEL 24/B24: P-3/4 INLET, 3/4" FPT. MAX PRESSURE: 125 PSI. MAX TEMP: 120° F.	2"	-	-	-
LAV-1	LAVATORY SLOAN ELS-72000	2 STATION WALL MOUNTED SINK, 301PC P-TRAP, PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, SET OUTLET TEMPERATURE TO 100°F.	1/2"	1/2"	2"	1-1/2"
LAV-2	LAVATORY SLOAN ELS-73000	3 STATION WALL MOUNTED SINK, 301PC P-TRAP, PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, SET OUTLET TEMPERATURE TO 100°F.	1/2"	1/2"	2"	1-1/2"
WC-1	WATER CLOSET AMERICAN STANDARD 3043.001.020 WWC	1.6/1.1 GPF FLUSH VALVE TYPE FLOOR MOUNTED WATER CLOSET WITH SLOAN ECOS 111 HARDWIRED -1.6/1.1 - HW SENSOR FLUSHOMETER. PROVIDE EL-451 TRANSFORMER SERVING (3) WATER CLOSETS, AND PROVIDE (3) 18 GAUGE WIRE FROM TRANSFORMER TO FLUSHOMETER. MAINLINE ML 1055SC000 WHITE ELONGATED PLASTIC OPEN FRONT TOILET SEAT WITH SELF SUSTAINING CHECK HINGE	1"	-	4"	2"
UR-1	URINAL AMERICAN STANDARD 6590001.020 WWC	TOP SPUD URINAL WITH SLOAN ECOS 186 HARDWIRED-1.0-OR-HW 1.0 GPF FLUSHOMETER. PROVIDE EL-451 TRANSFORMER SERVING (4) URINALS, AND PROVIDE (4) 18 GAUGE WIRE FROM TRANSFORMER TO FLUSHOMETER.	3/4"	-	2"	2"
FS-1	FLOOR SINK OATEY MANUFACTURING 42721 WWC	12"X12"X8" PORCELAIN COATED CAST IRON FLOOR SINK, NO-HUB BOTTOM OUTLET, ALUMINUM DOME STRAINER, AND 3" WASTE CONNECTION.	-	-	3"	1-1/2"
3CS-1	3 COMPARTMENT SINK	24"X24"X24" 3 COMPARTMENT SINK (ADVANCE TABCO, FC-3-2424-24RL-X) WITH BRASS FAUCET: 5PR-8W14-C.	1/2"	1/2"	3"	1-1/2"
MS-1	MOP SINK ADVANCE TABCO 9-OP-24FM-SSR	FLOOR MOUNTED MOP SINK. FACET: ADVANCE TABCO, K-240, SERVICE SINK FAUCET.	1/2"	1/2"	3"	1-1/2"
FD-2	FLOOR DRAIN SIOUX CHIEF 832-36PF WWC	FLOOR DRAIN WITH HUB ADAPTOR	-	-	3"	1-1/2"
TD-1	ZURN Z893	STAINLESS STEEL FLOOR RECEPTOR WITH BAR GRATE, 24"L.	-	-	3"	-
RH-1	ROOF HYDRANT WATTS HY900	NON-FREEZE ROOF HYDRANT WITH 3/4" INLET FEMALE THREADED INLET CONNECTION. ROUTE 1/8" DRAIN LINE TO NEAREST FLOOR SINK.	3/4"	-	1/8"	-
FCO	SIOUX CHIEF 834-4HNR WWC	SIOUX CHIEF 834 SERIES, ON-GRADE ADJUSTABLE CLEANOUT. CONNECTION SIZE: 4" SCH. 40 HUB. RING & COVER: ROUND NICKEL-BRONZE.	-	-	-	-

NOTES:

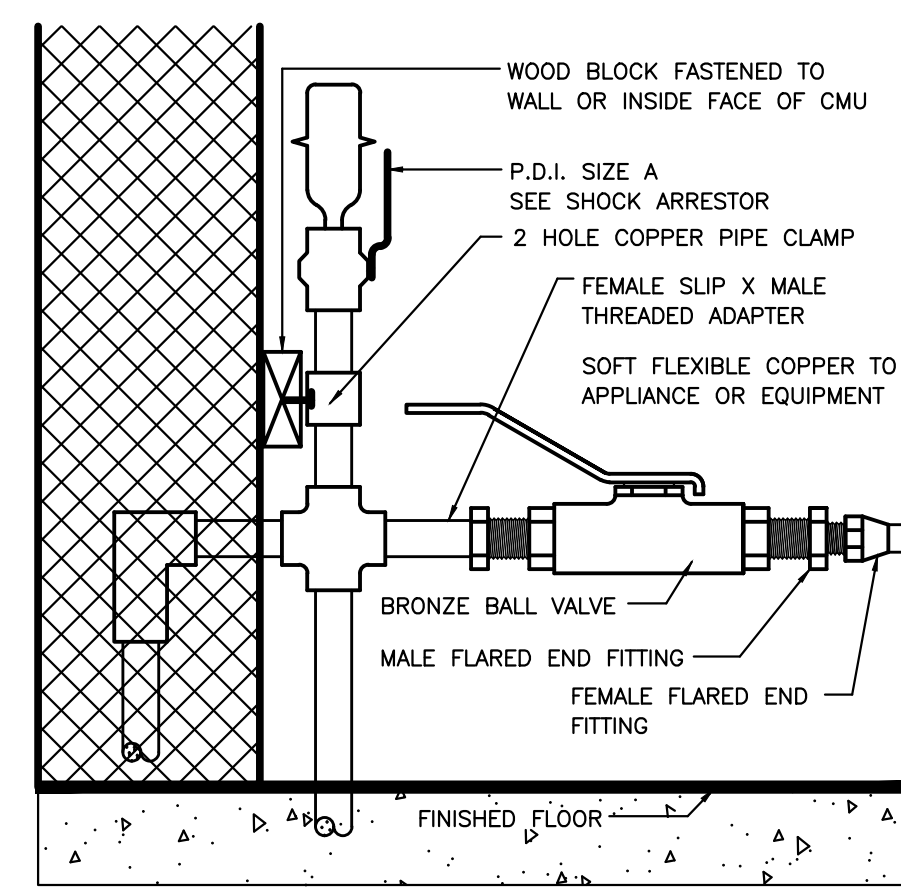
1) ALL NOTED FIXTURES SHALL BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE WITH THE "AMERICANS WITH DISABILITIES ACT OF 1990". FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 - "PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE" AND/OR GOVERNING CODE.

2) ALL PLUMBING FIXTURES, EQUIPMENT, TRIM, AND FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR COMPLYING FIXTURES, EQUIPMENT, TRIM, AND FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS AND CODES.

TANKLESS GAS WATER HEATER:

MANUFACTURER	MODEL	COMMENTS
NAVLEN	NPE-240A2-NG	

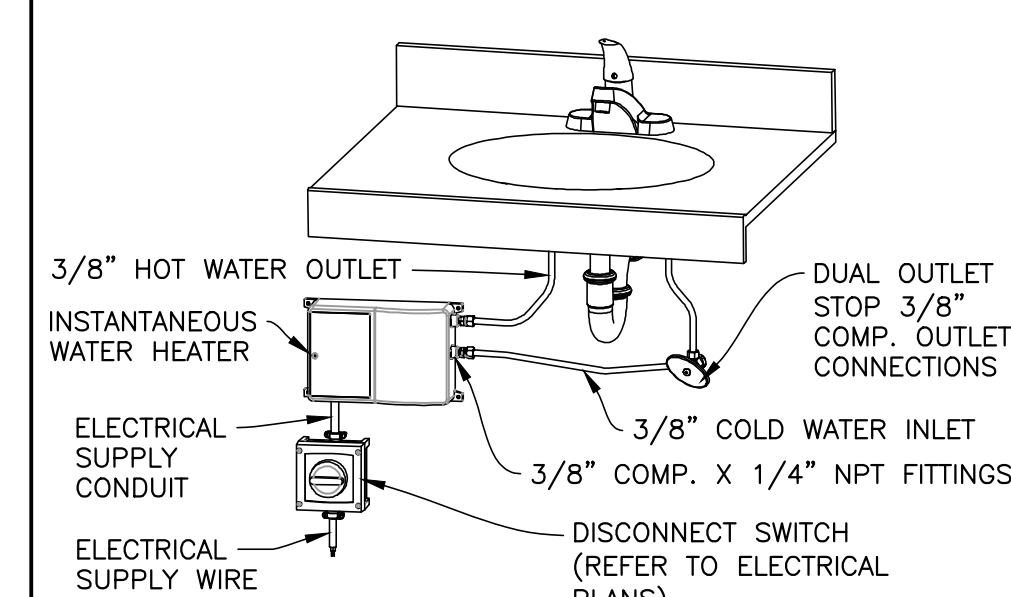
* VERIFY WITH OWNER *



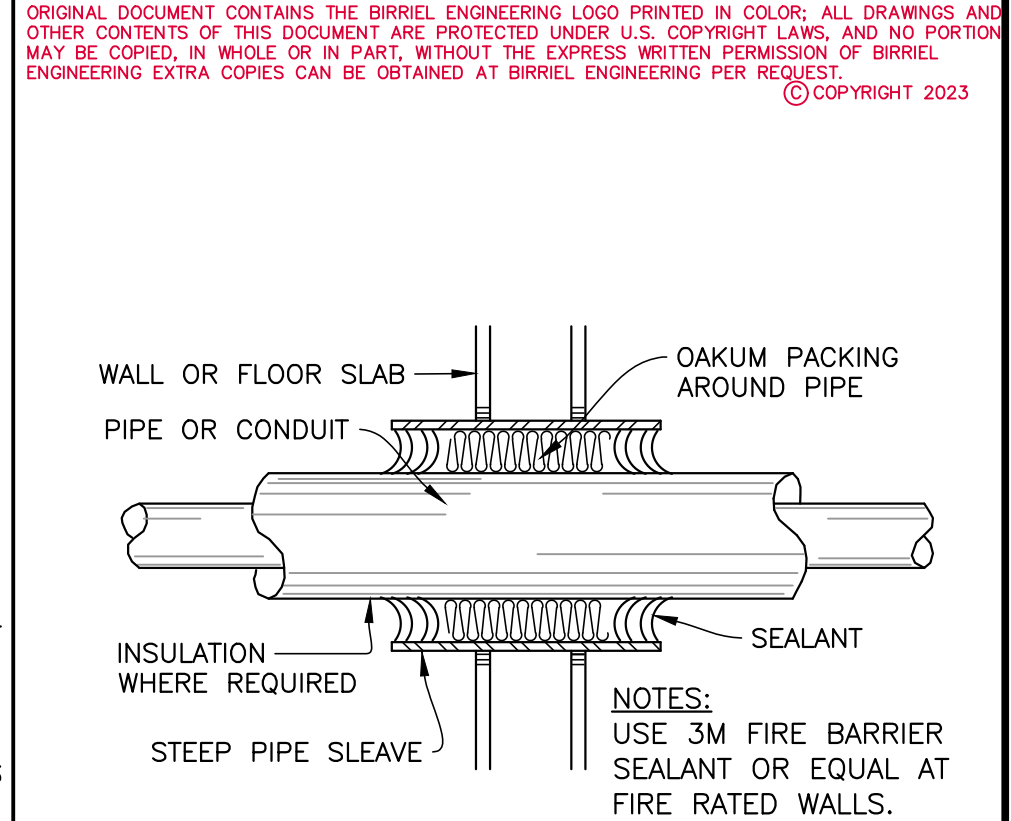
9 FLEXIBLE EQUIPMENT CONNECTION
NOT TO SCALE
RE:

NOTES:

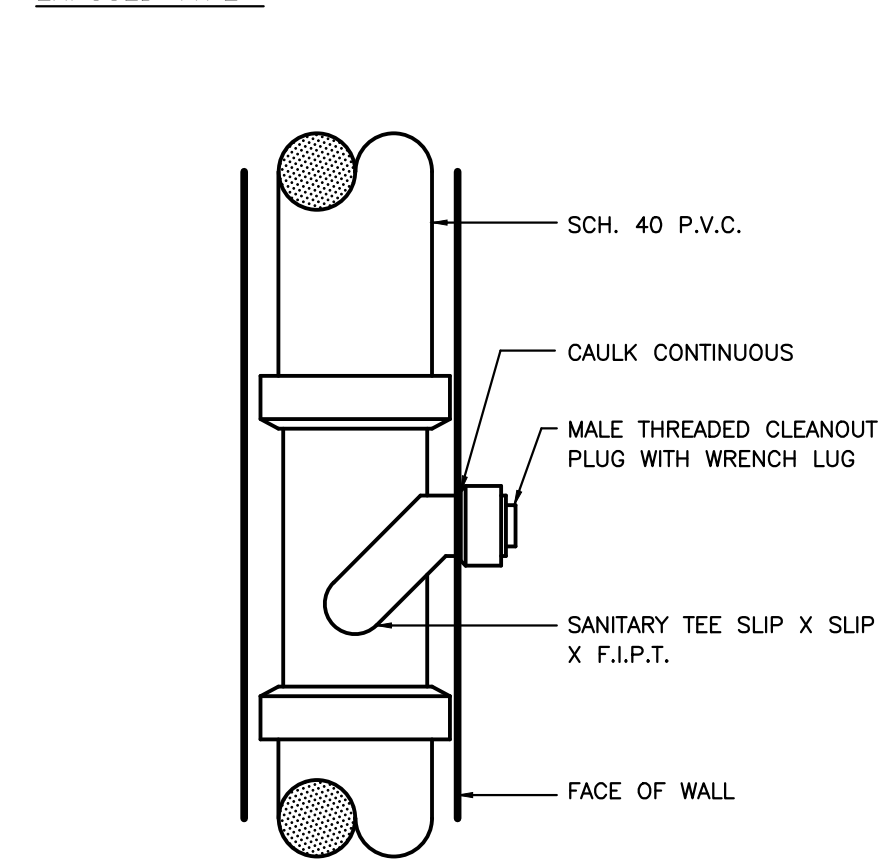
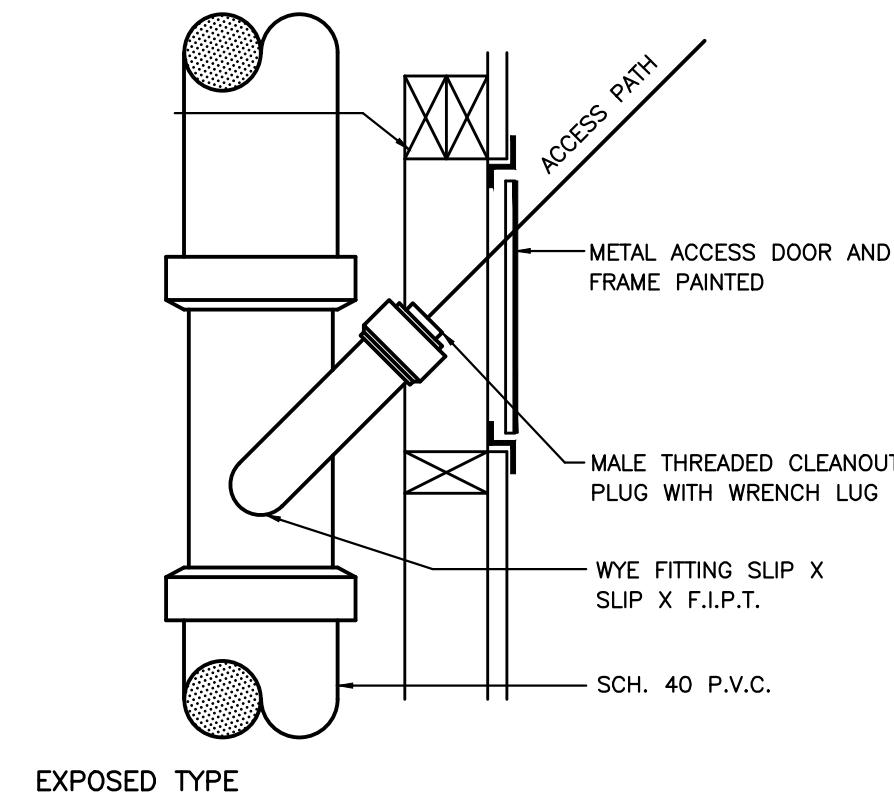
- 1) HEATER TO BE INSTALLED BELOW THE LEVEL OF ALL HOT WATER OUTLETS SERVICED BY THE HEATER.
- 2) DIAGRAM SHOWN WITH STANDARD 3/8" COMPRESSION FITTING. OPTIONAL 1/2" MALE NPT WATER CONNECTIONS AVAILABLE.
- 3) REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION REGARDING DISCONNECT SWITCH AND OTHER ELECTRICAL COMPONENTS.



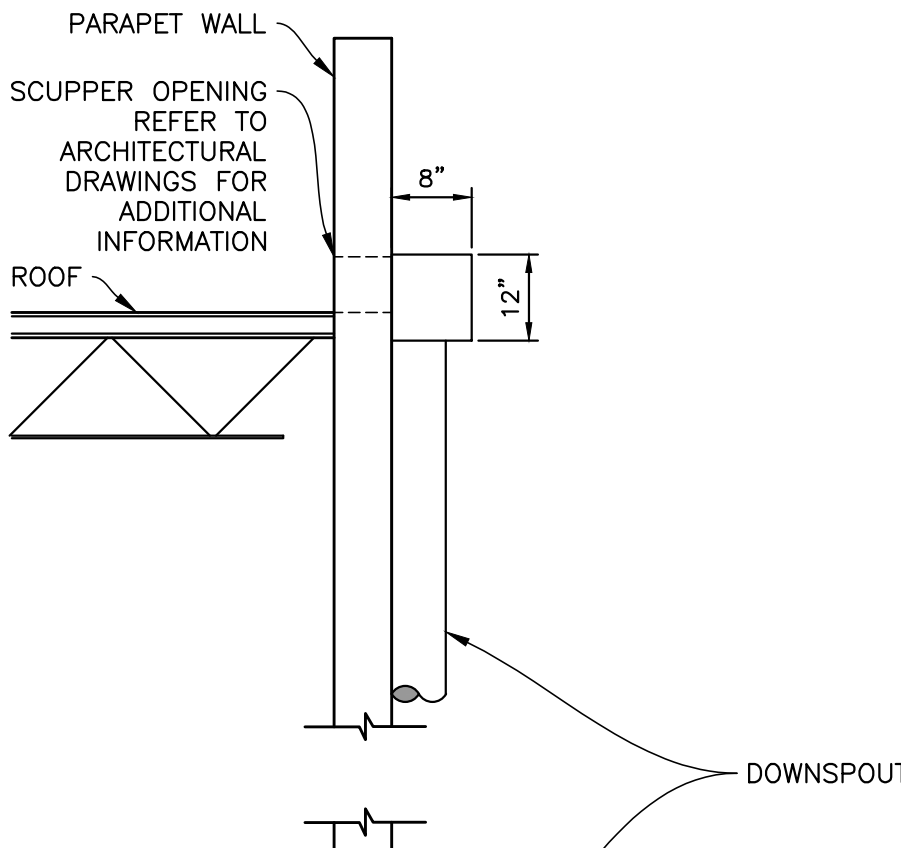
6 INSTANTANEOUS WATER HEATER INSTALLATION DETAIL
SCALE: NTS
RE:



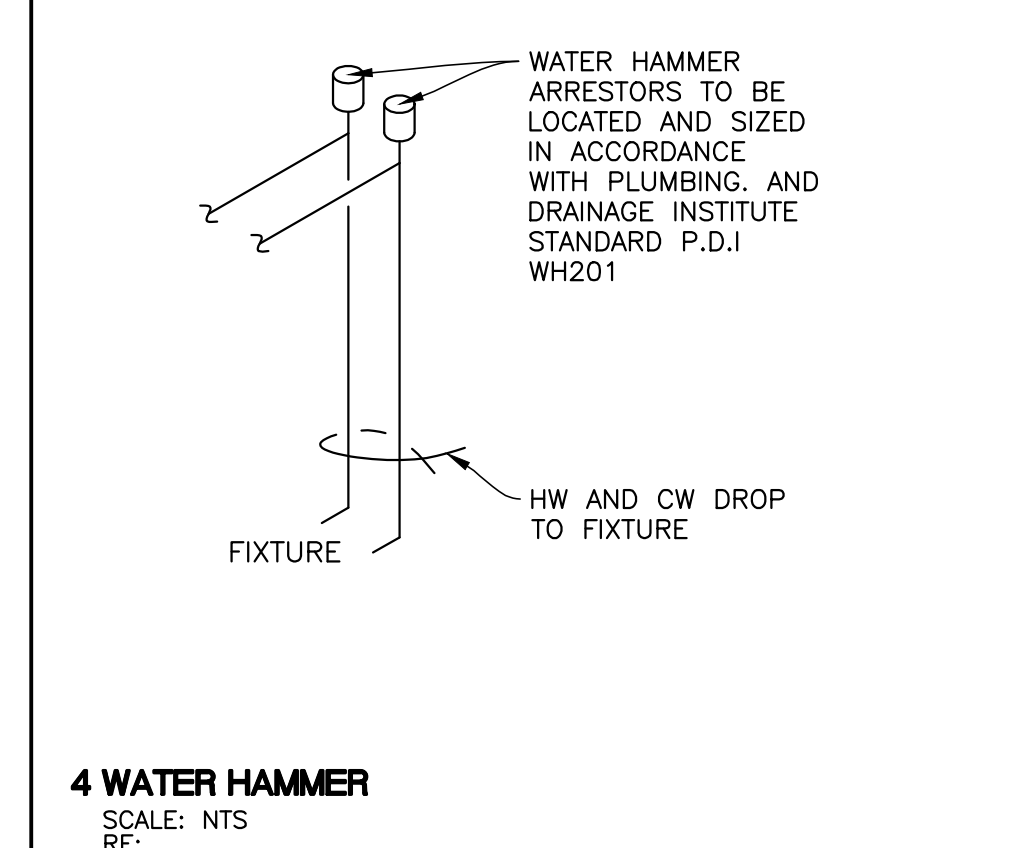
5 WALL PENETRATION DETAIL
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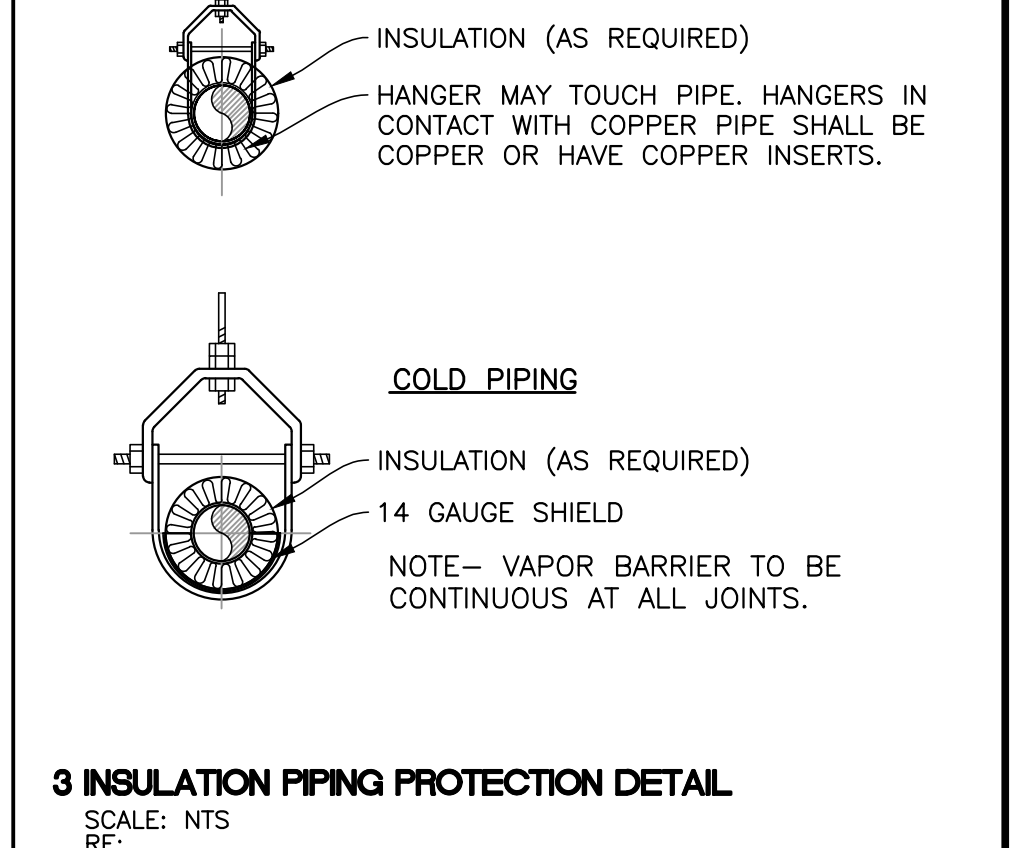
11 WALL CLEANOUT
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RE:



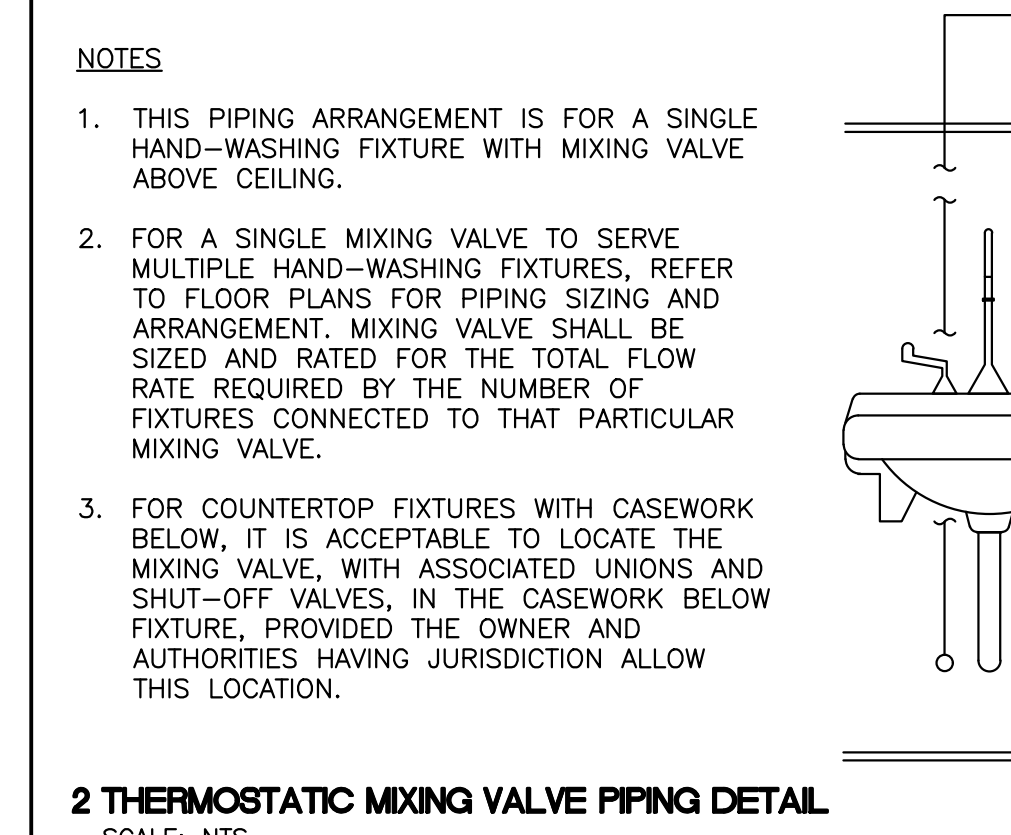
8 THERMOSTATIC MIXING VALVE PIPING DETAIL
SCALE: NTS
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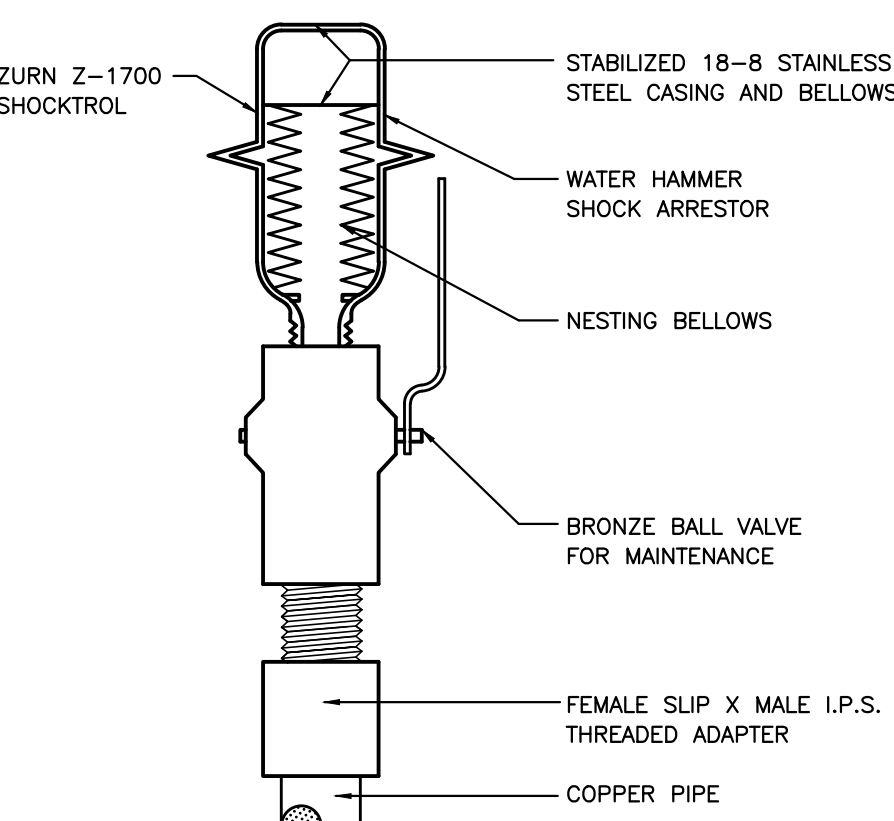
4 WATER HAMMER
SCALE: NTS
RE:



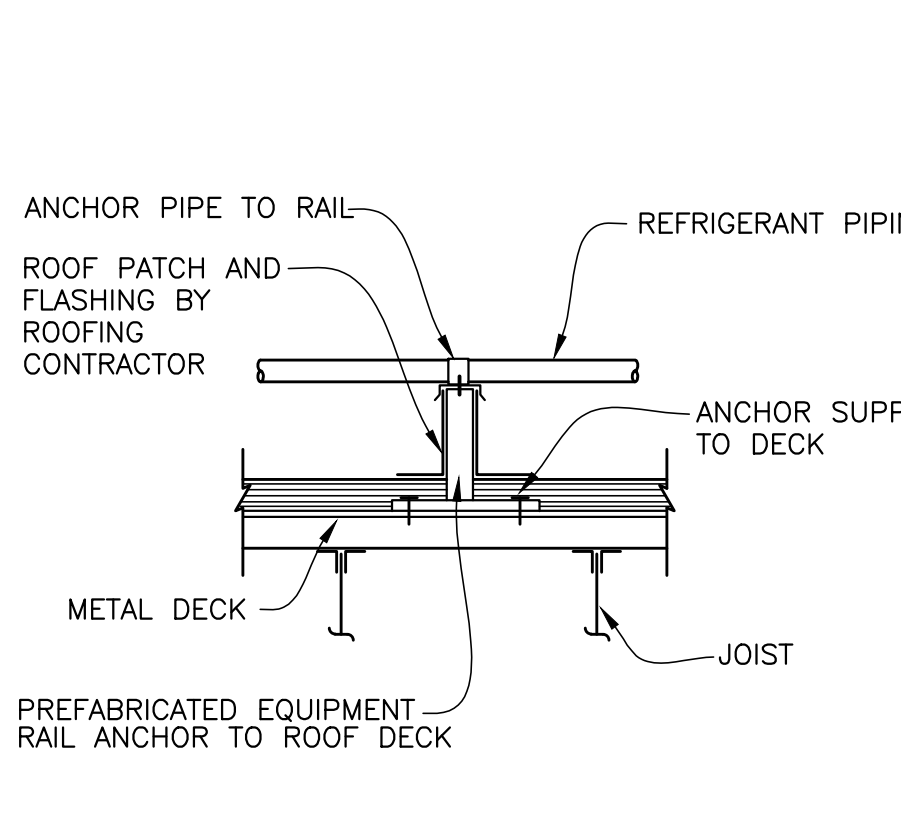
3 INSULATION PIPING PROTECTION DETAIL
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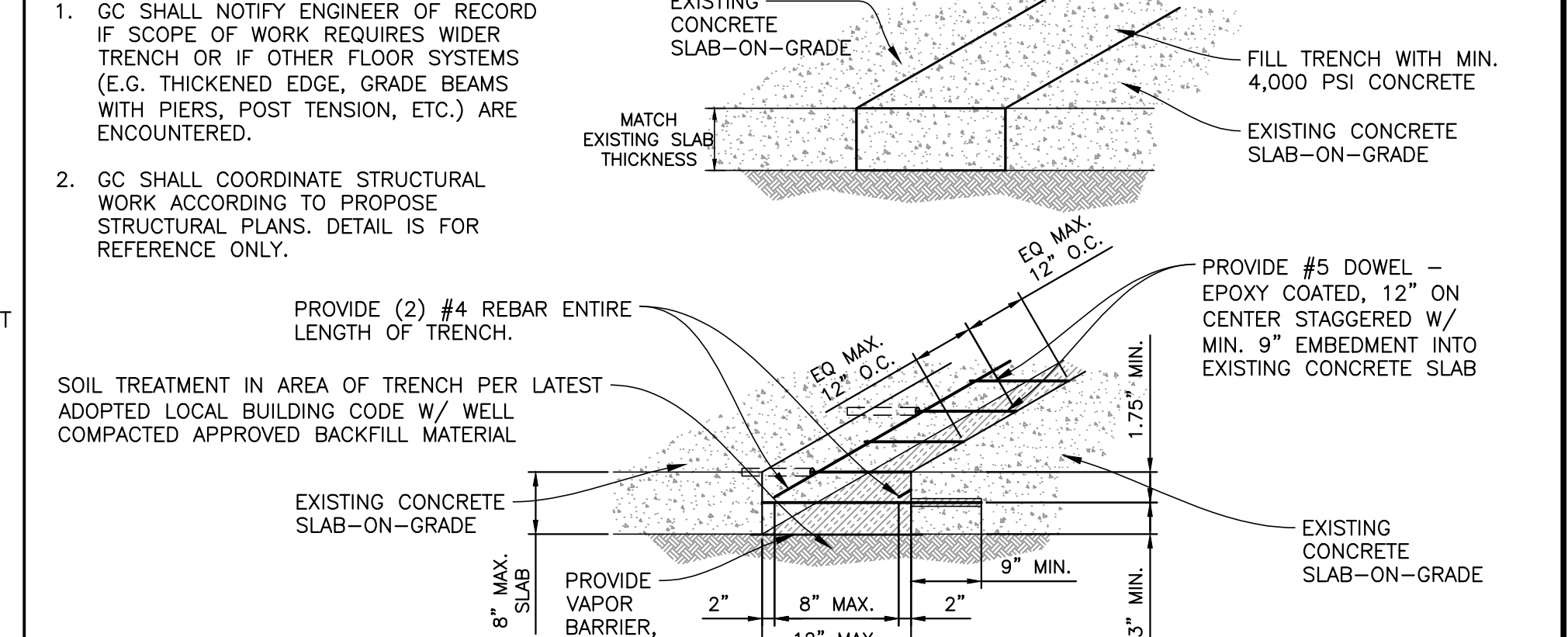
2 THERMOSTATIC MIXING VALVE PIPING DETAIL
SCALE: NTS
RE:



10 SHOCK ARRESTOR
NOT TO SCALE
RE:



7 ROOF MOUNTED PIPE SUPPORT DETAIL
SCALE: NTS
RE:



1 INTERIOR SLAB-ON-GRADE CONCRETE RESTORATION DETAIL
SCALE: NTS
RE:

MANUEL F. BIRRIEL
KINGWOOD, TEXAS
T: 832.398.1111
E: m.birriel@birriel-engineering.com

PROJECT NUMBER
CEF22-P03A.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

DATE	DESCRIPTION
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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REVISIONS

NO.	DATE	DESCRIPTION

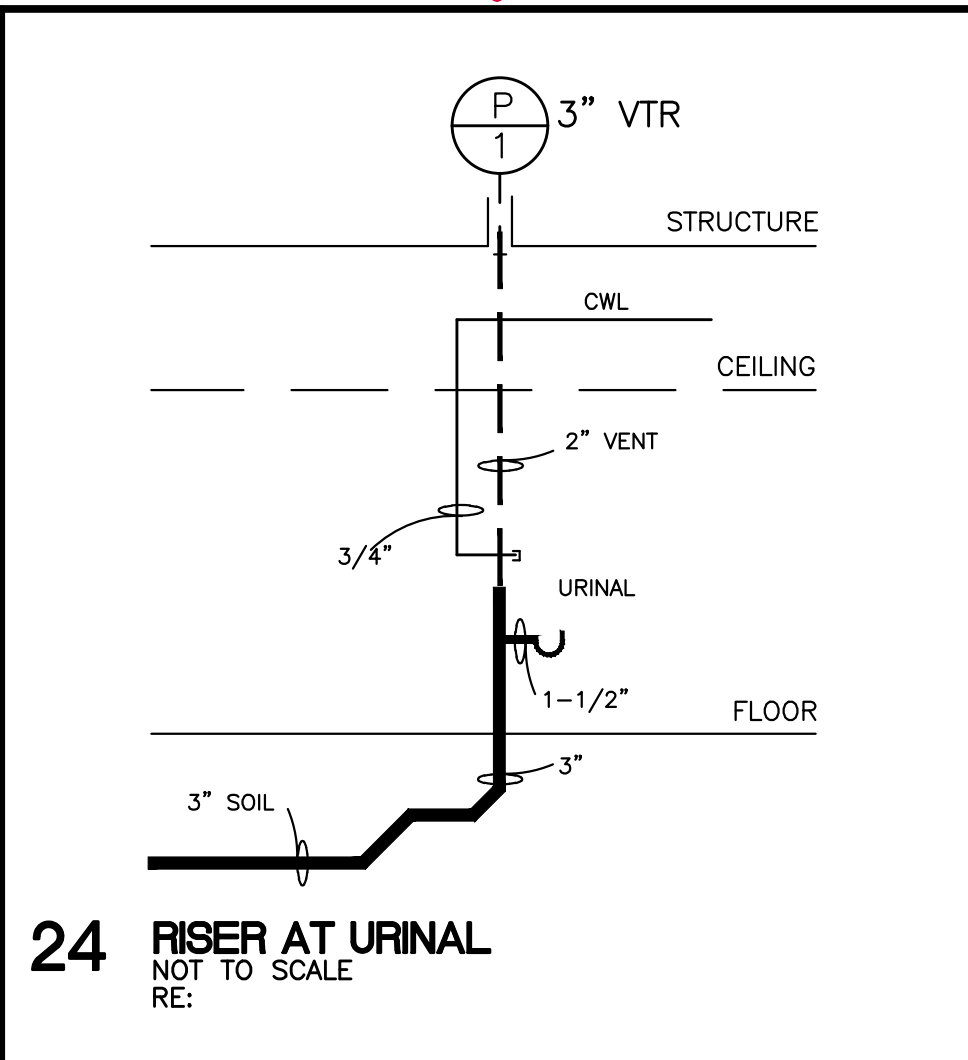
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SHEET TITLE
PLUMBING DETAILS AND SCHEDULES

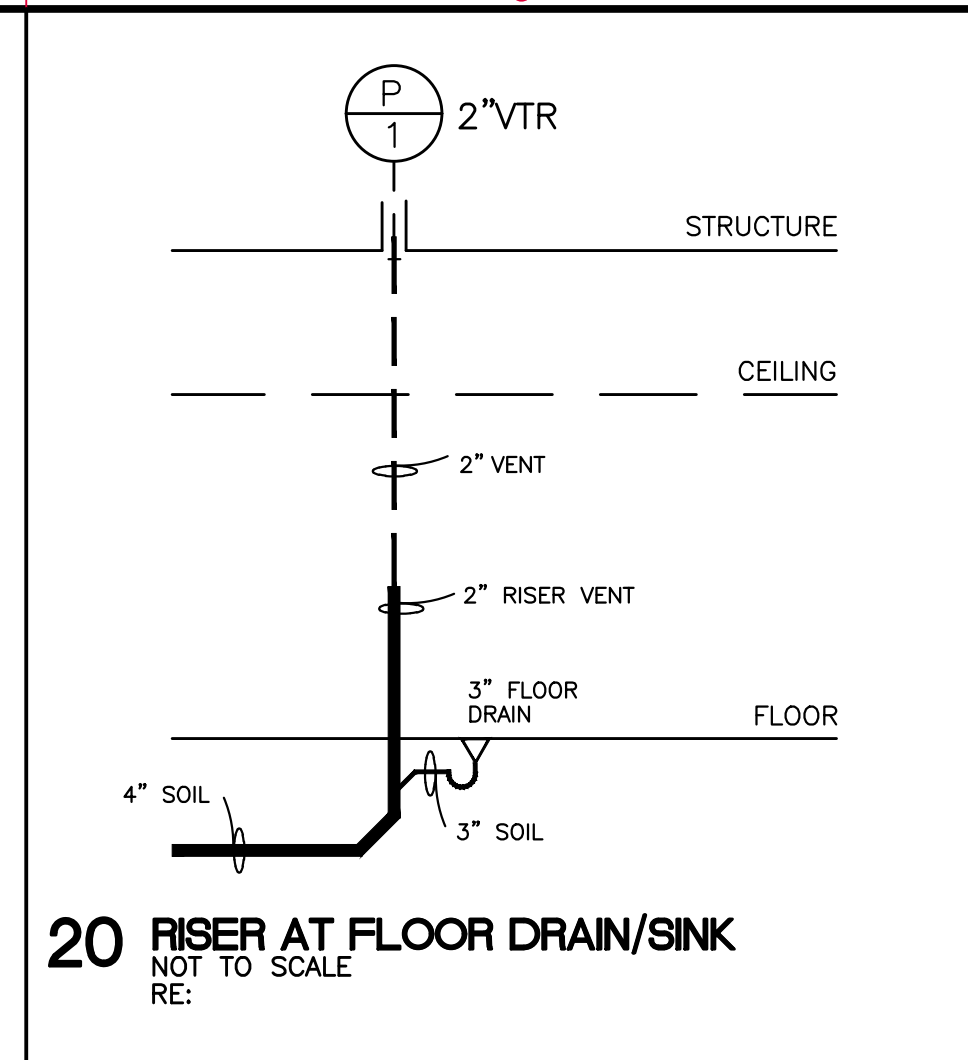
DRAWING NUMBER
P03A

SHEET NO.

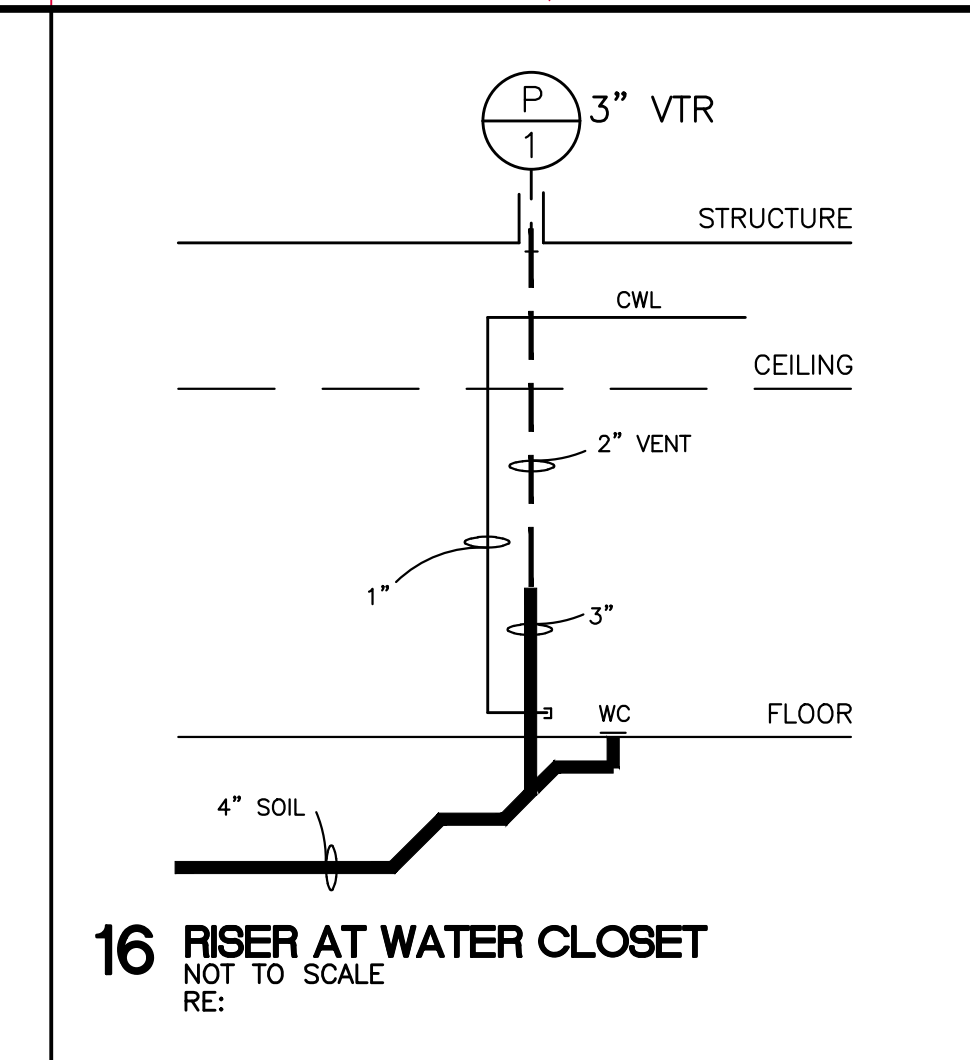
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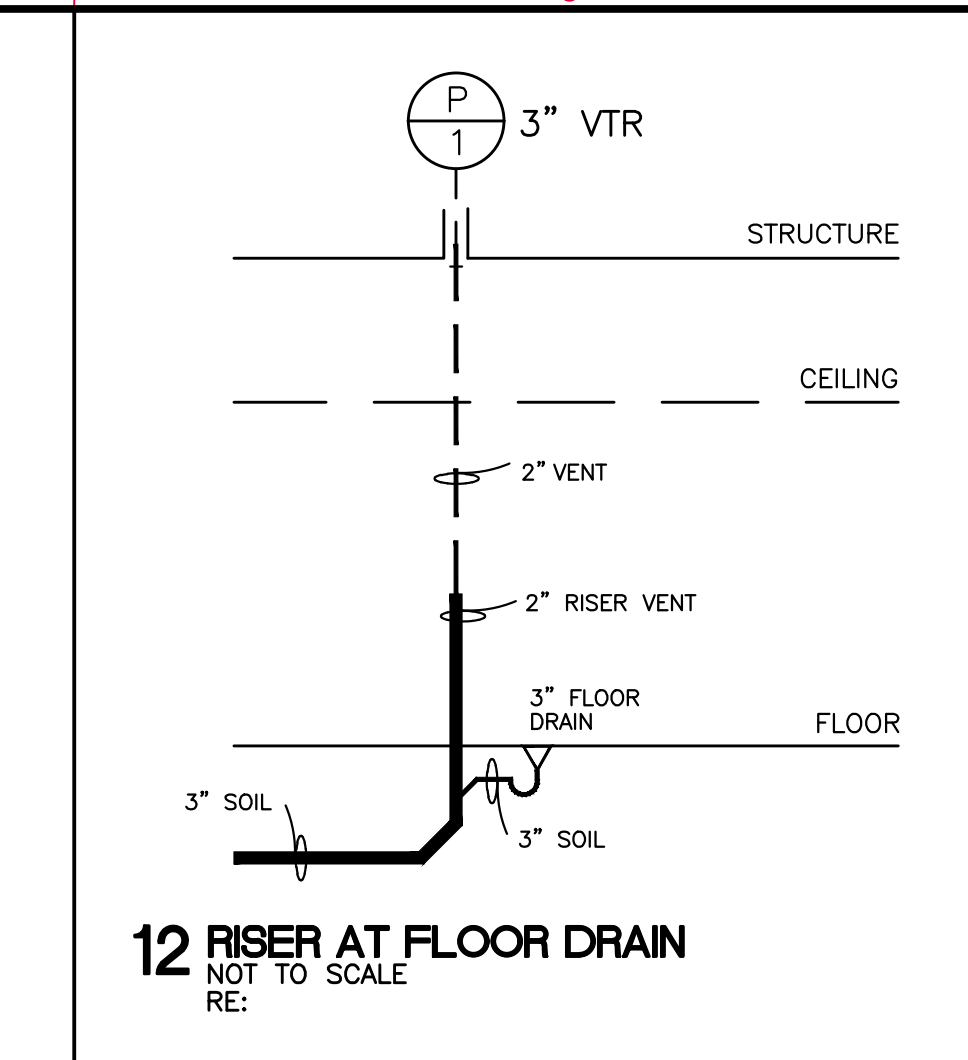
24 RISER AT URINAL
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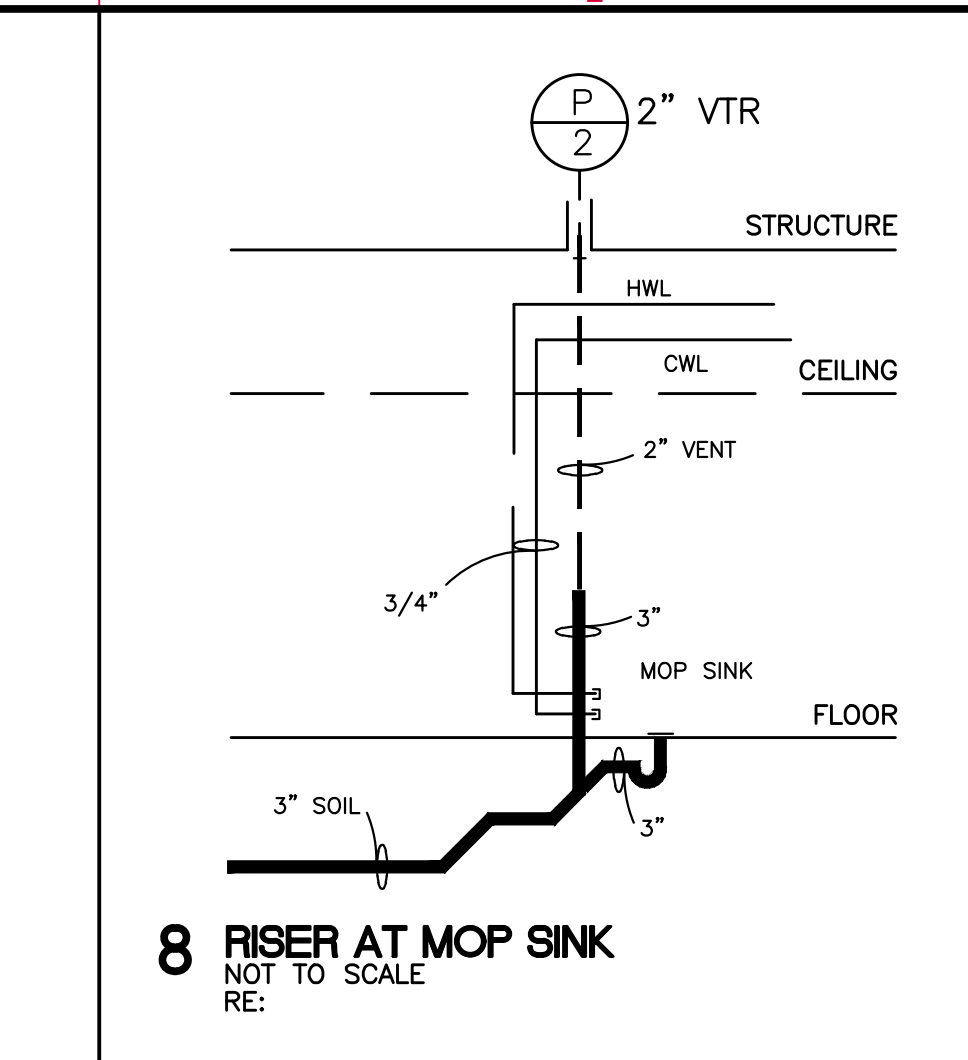
20 RISER AT FLOOR DRAIN/SINK
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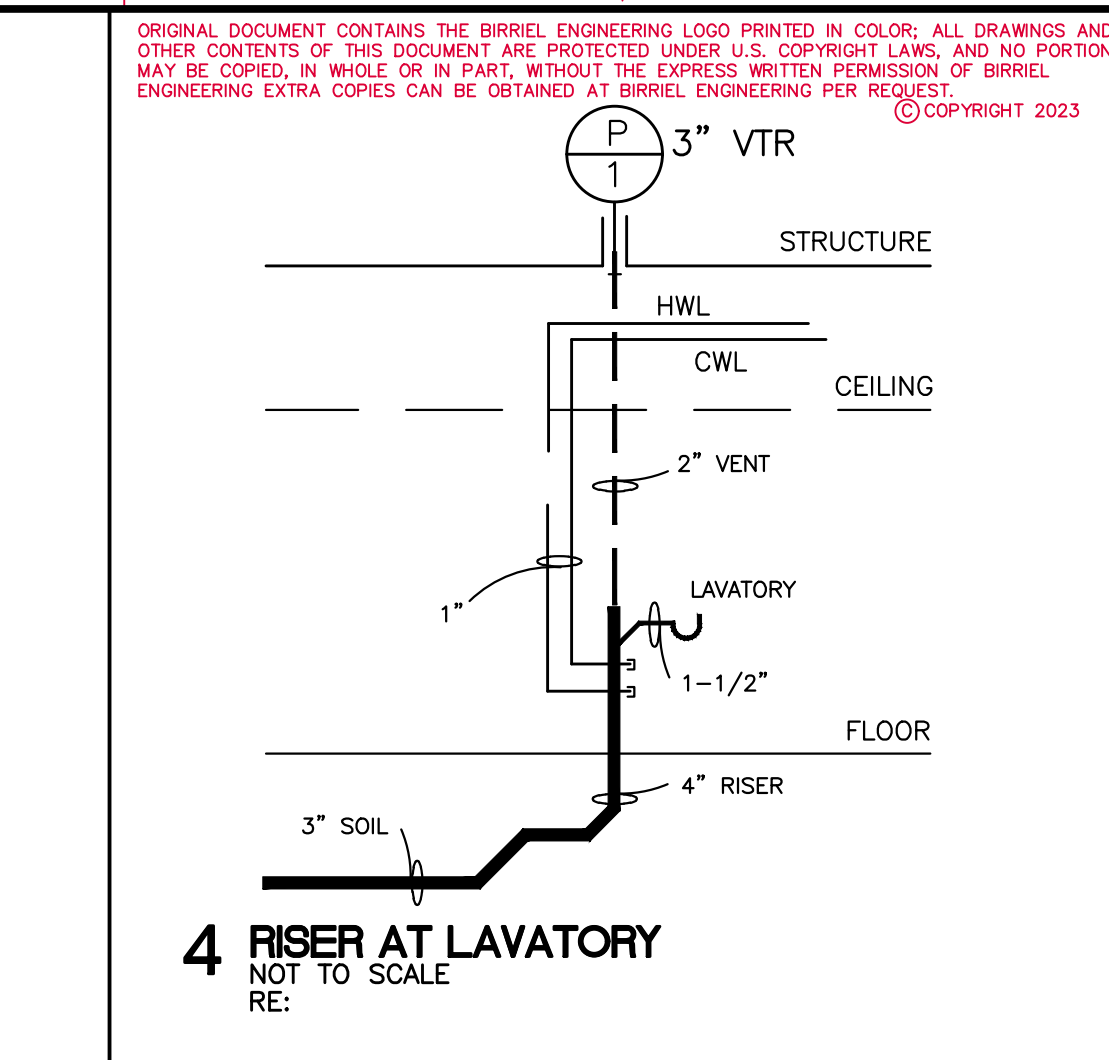
16 RISER AT WATER CLOSET
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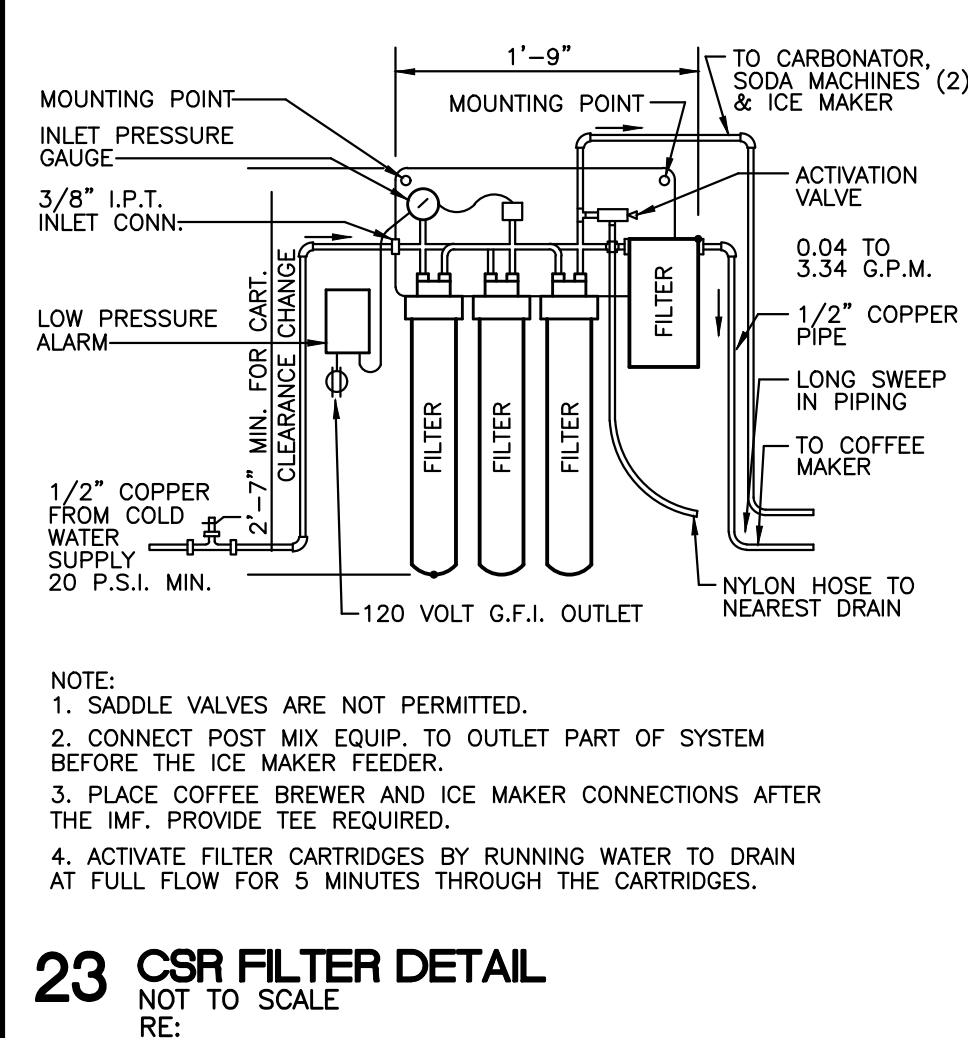
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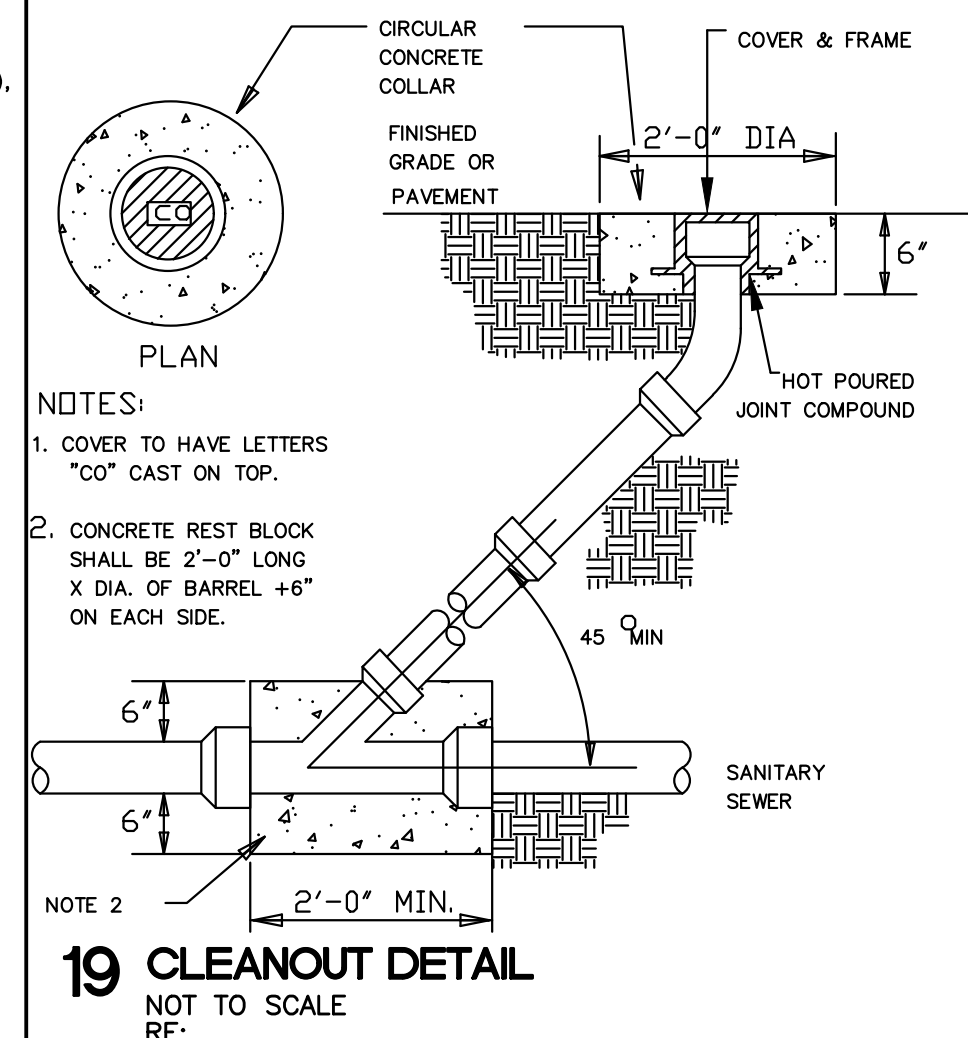
8 RISER AT MOP SINK
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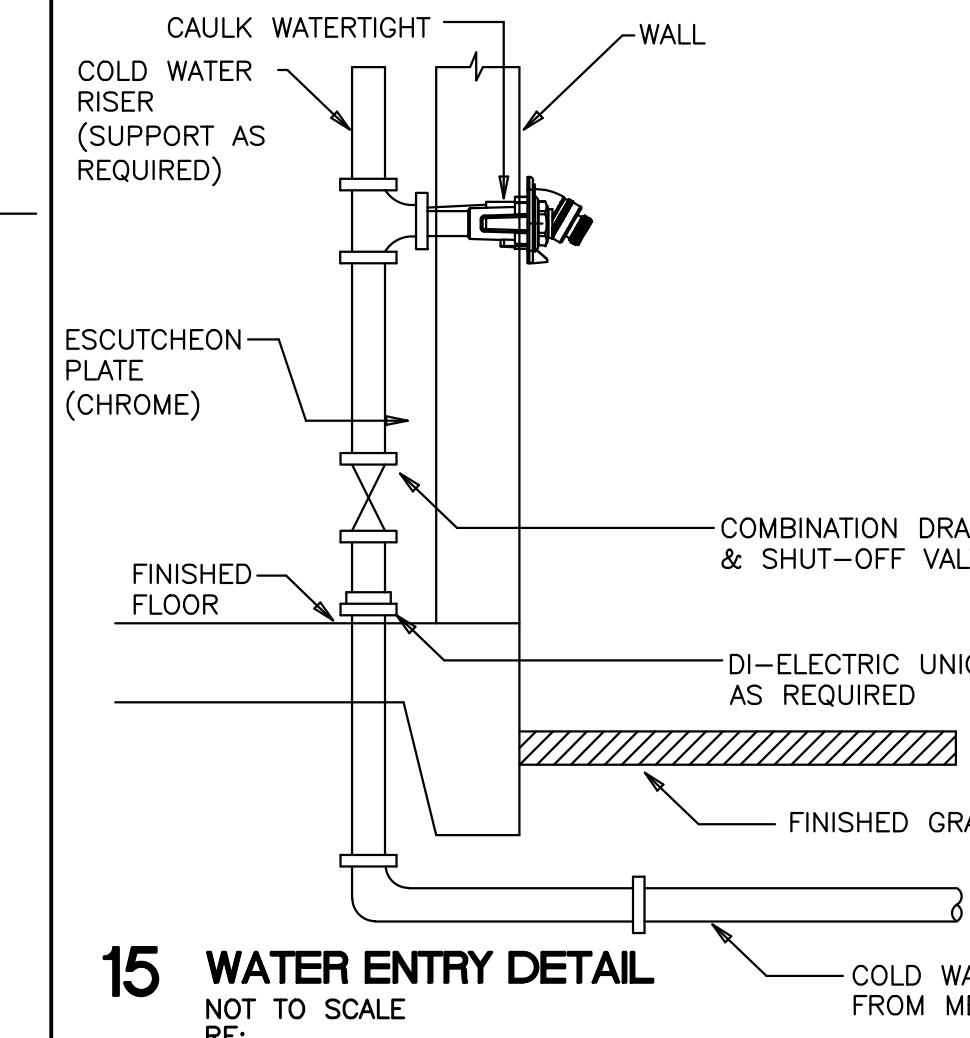
4 RISER AT LAVATORY
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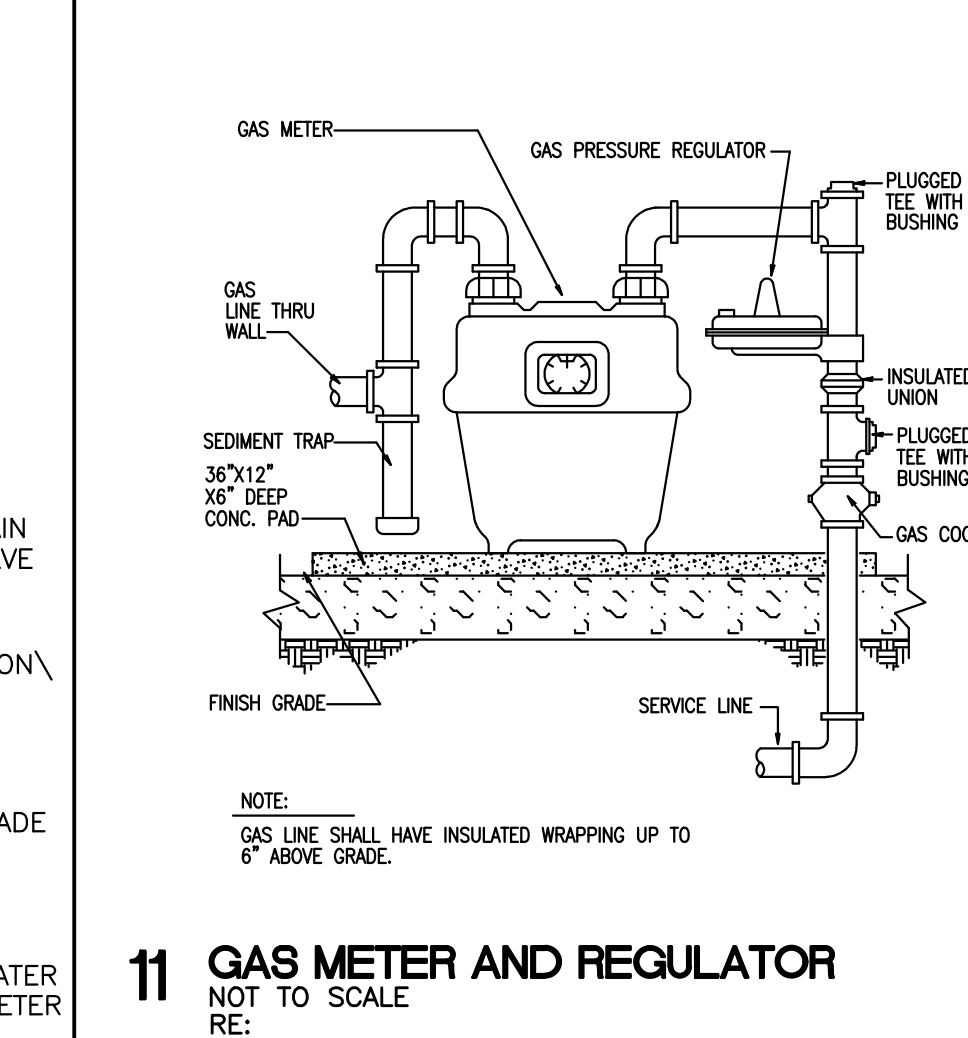
23 CSR FILTER DETAIL
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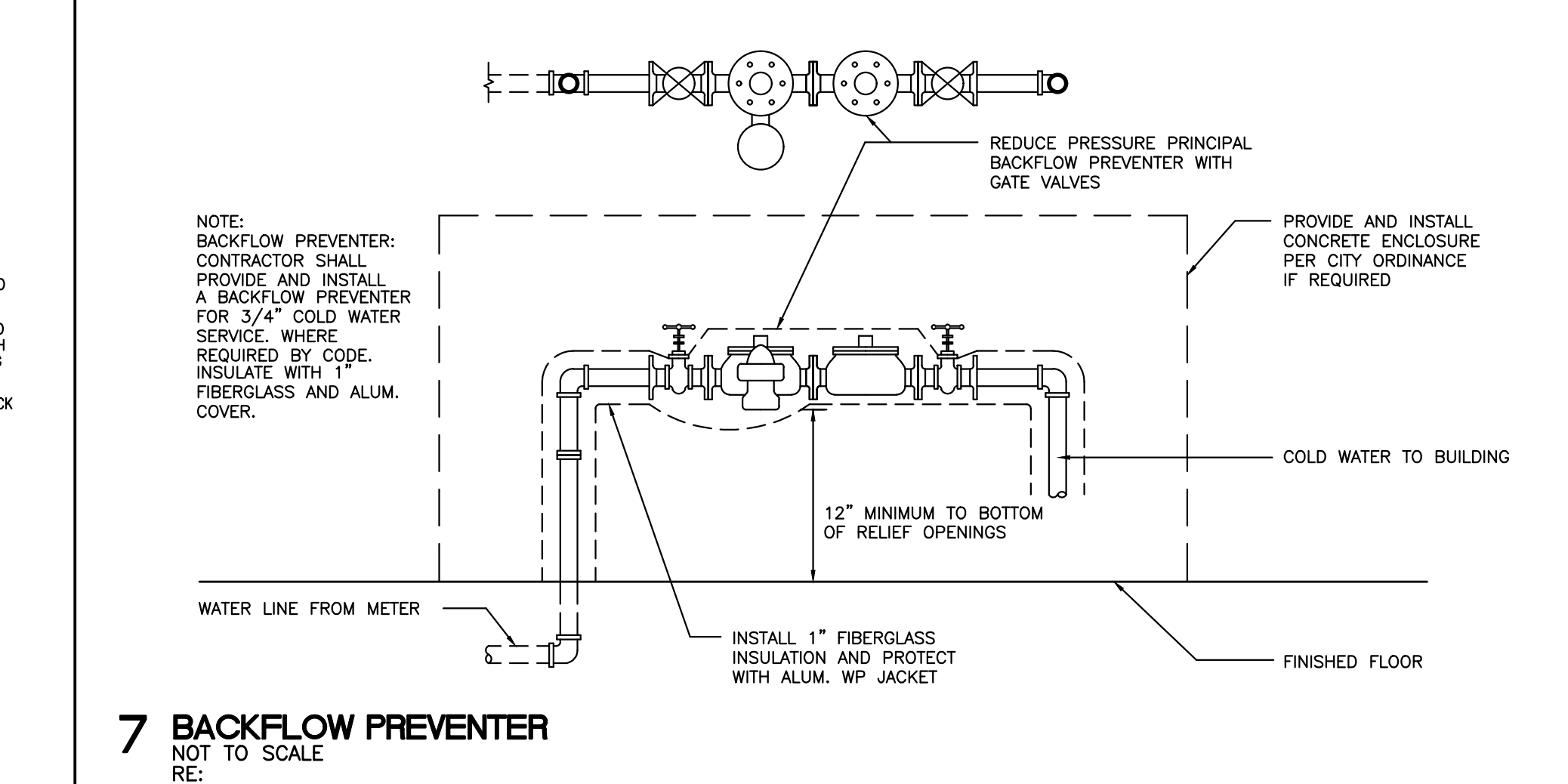
19 CLEANOUT DETAIL
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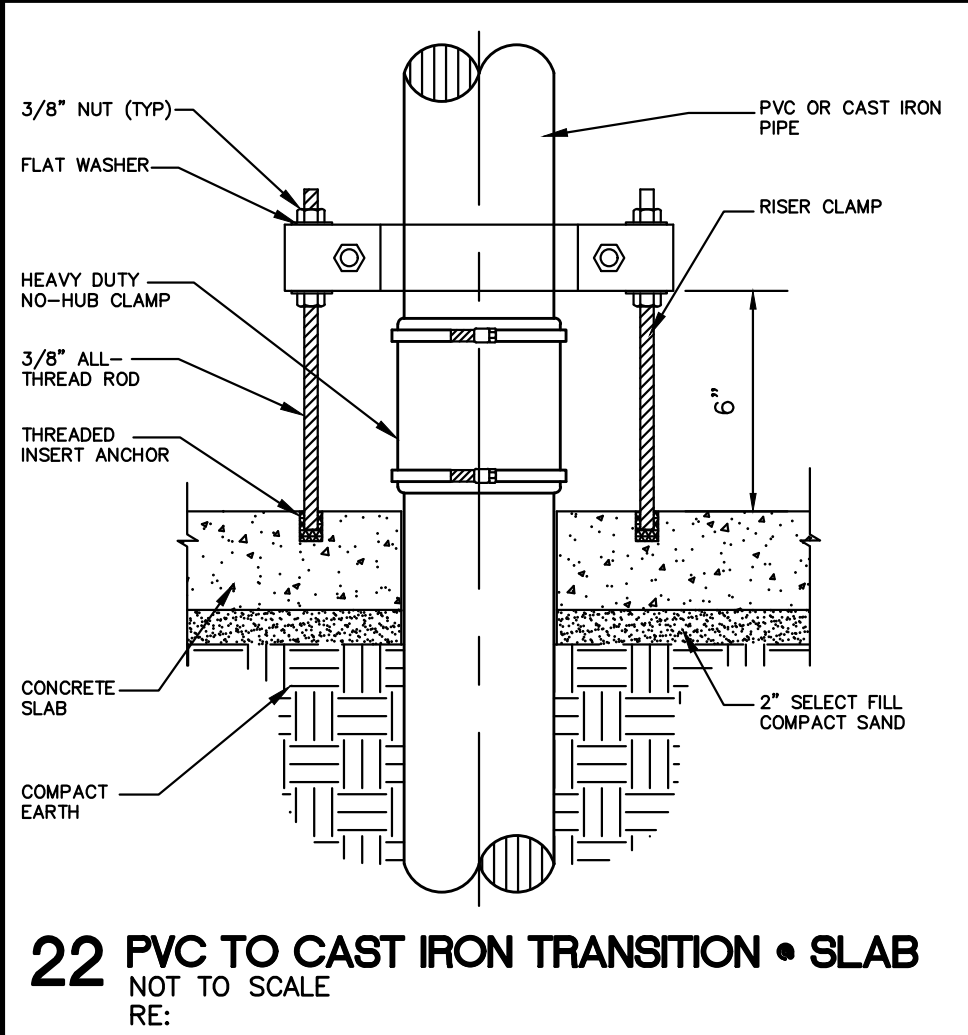
15 WATER ENTRY DETAIL
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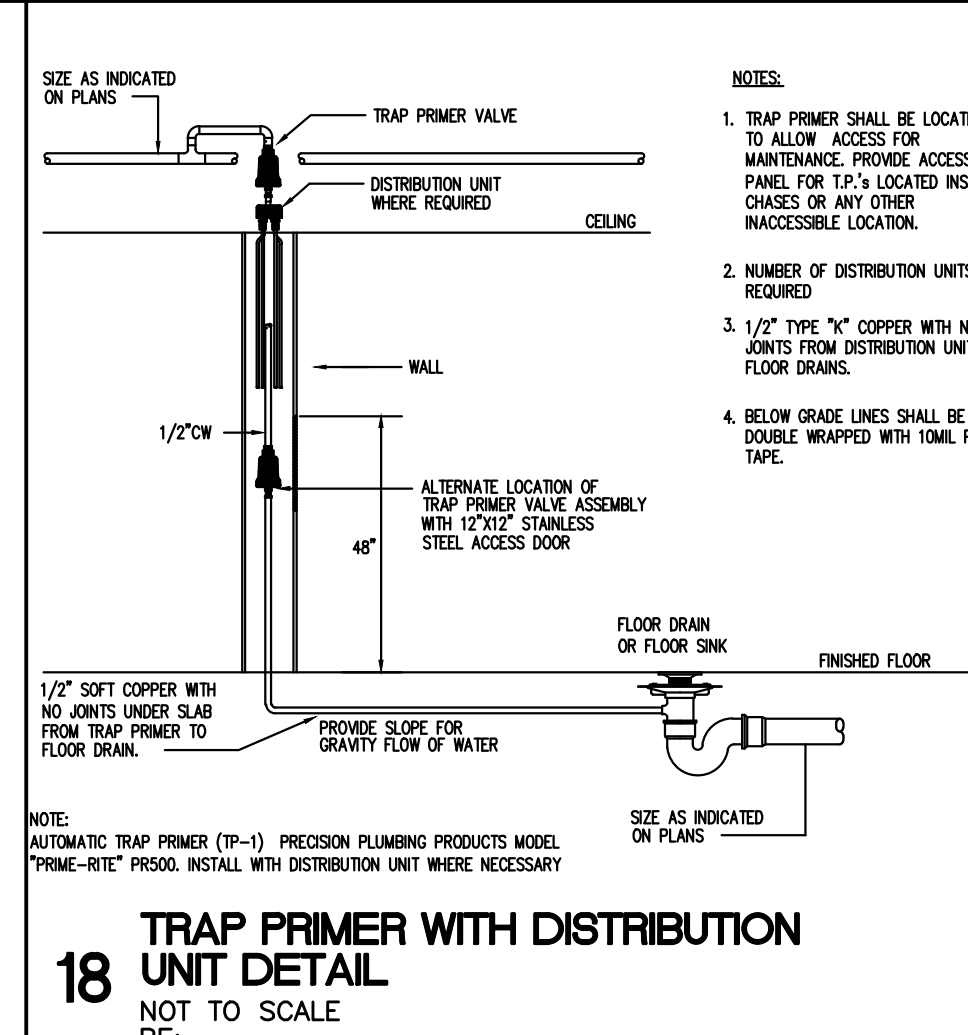
11 GAS METER AND REGULATOR
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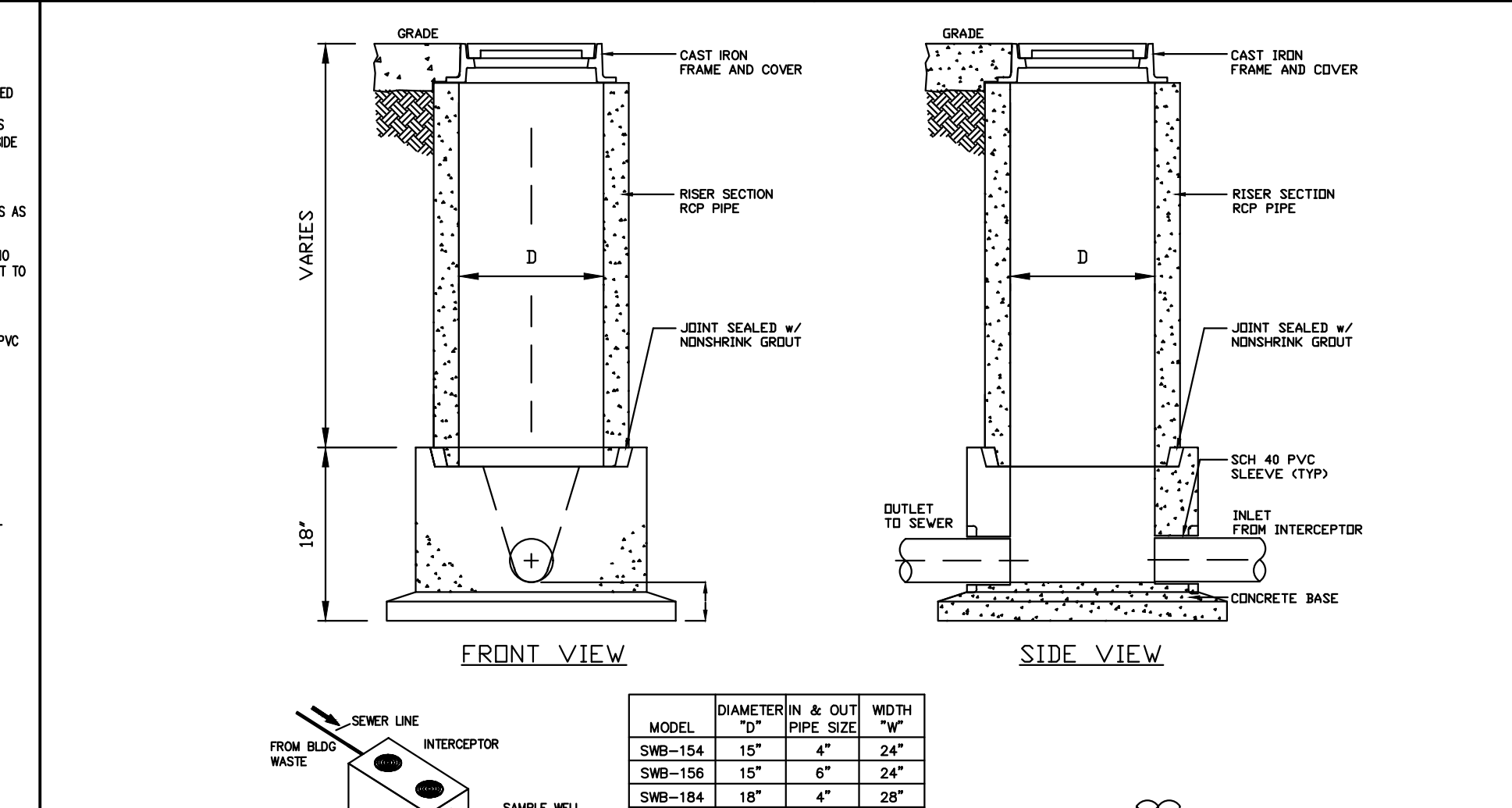
7 BACKFLOW PREVENTER
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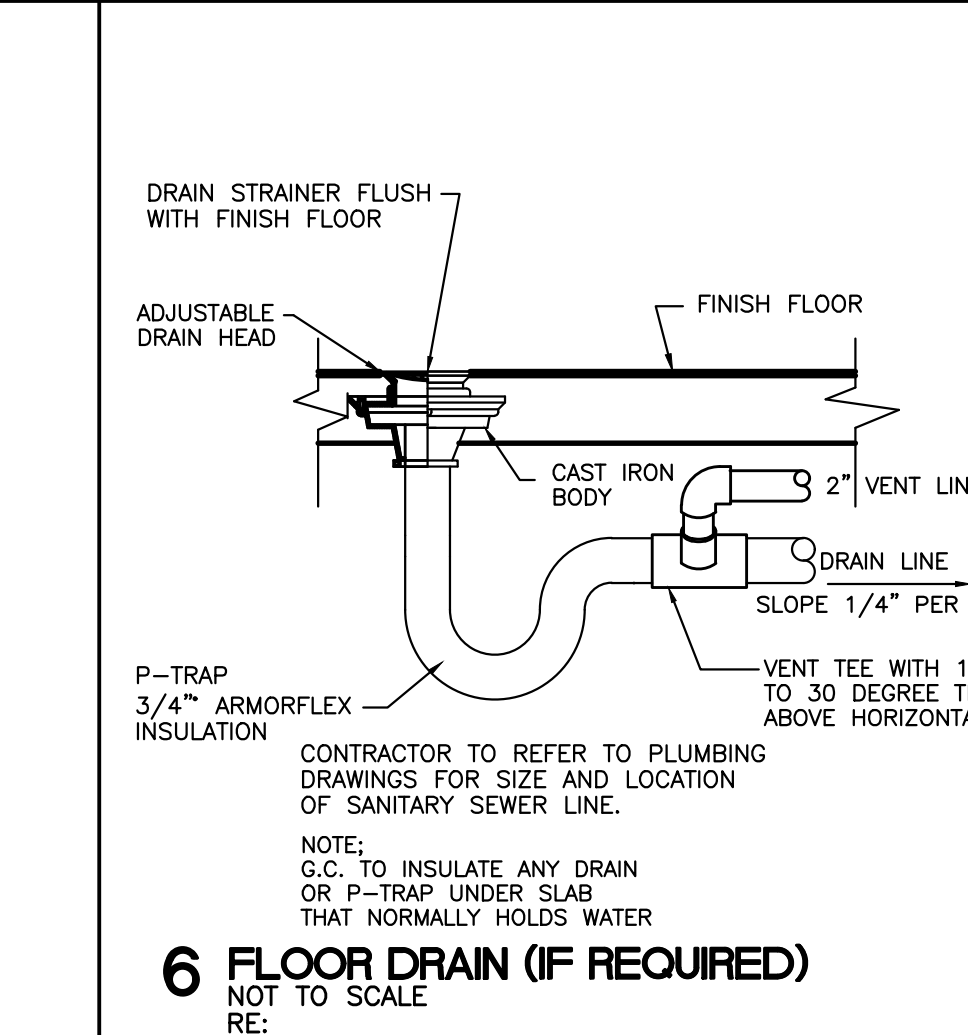
22 PVC TO CAST IRON TRANSITION • SLAB
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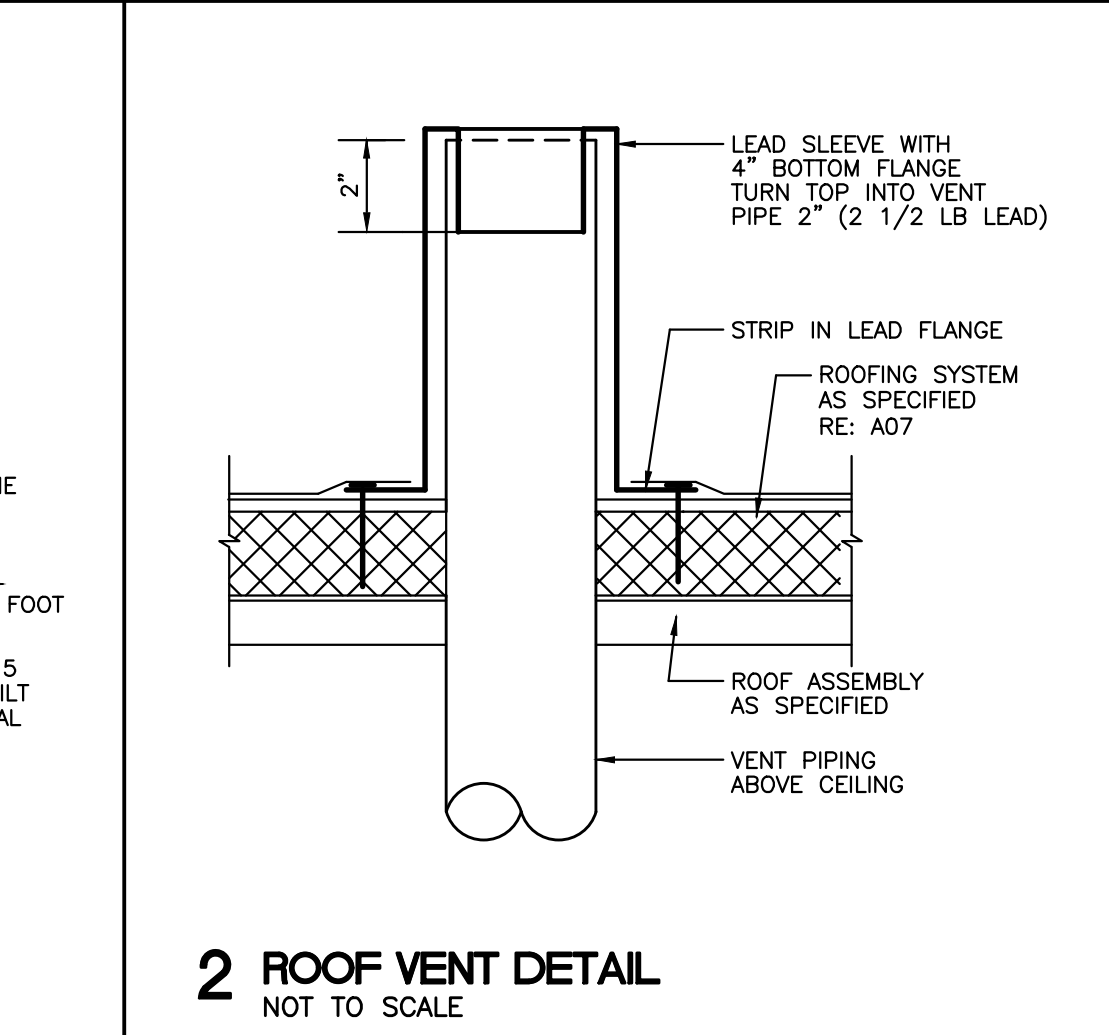
18 TRAP PRIMER WITH DISTRIBUTION UNIT DETAIL
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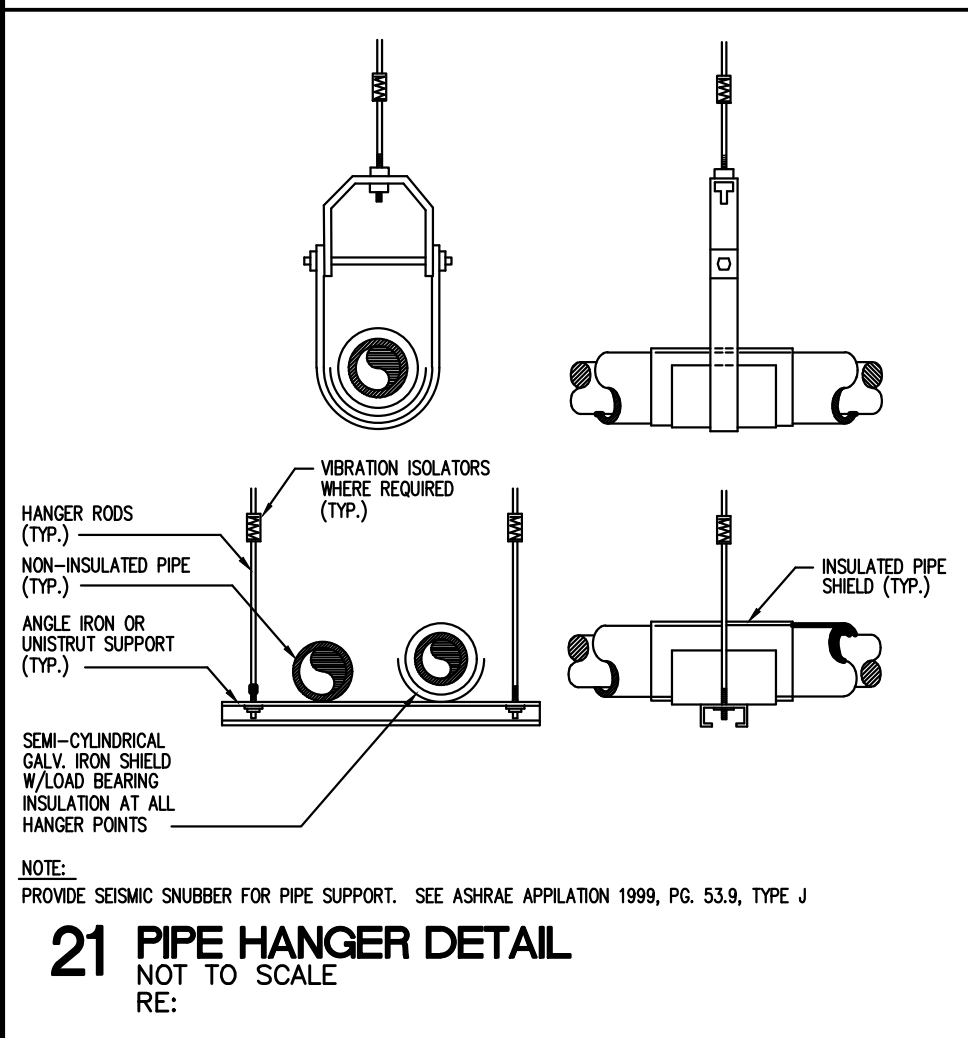
13 SAMPLE WELL
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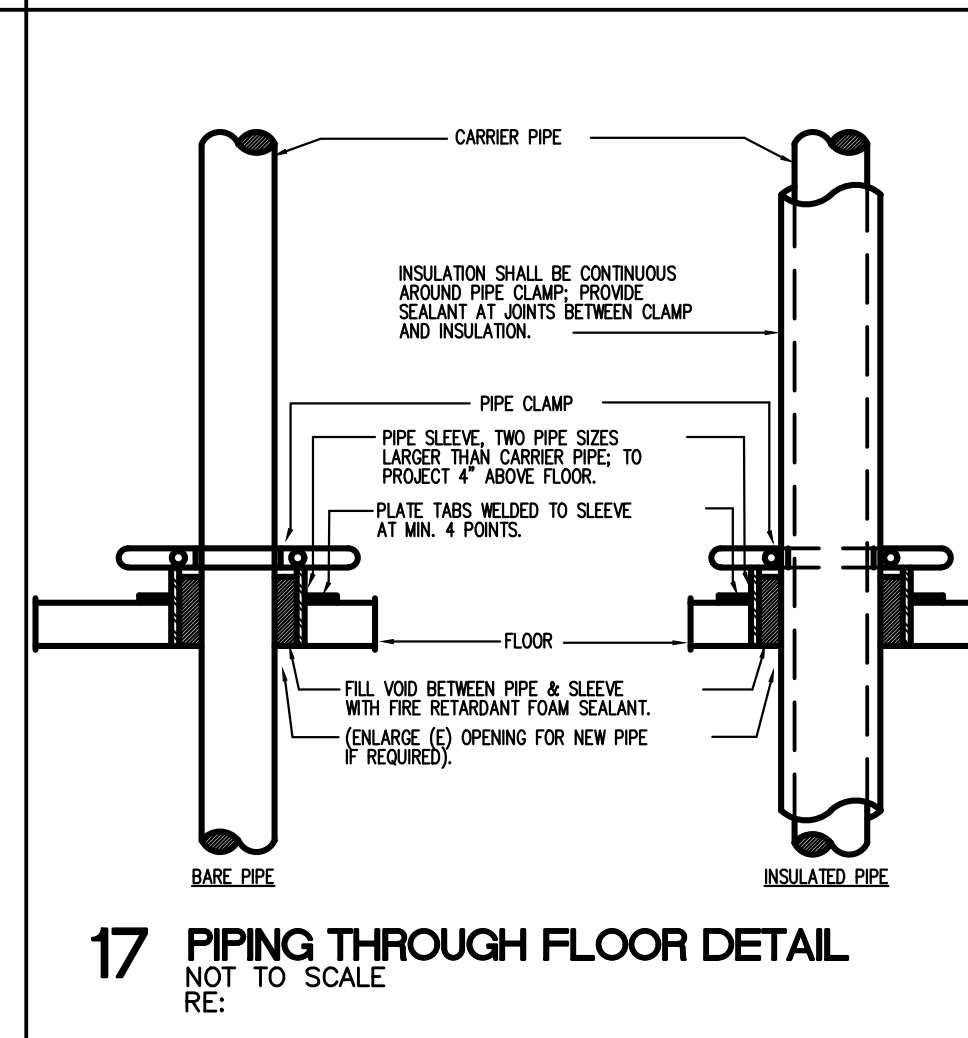
6 FLOOR DRAIN (IF REQUIRED)
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RE:



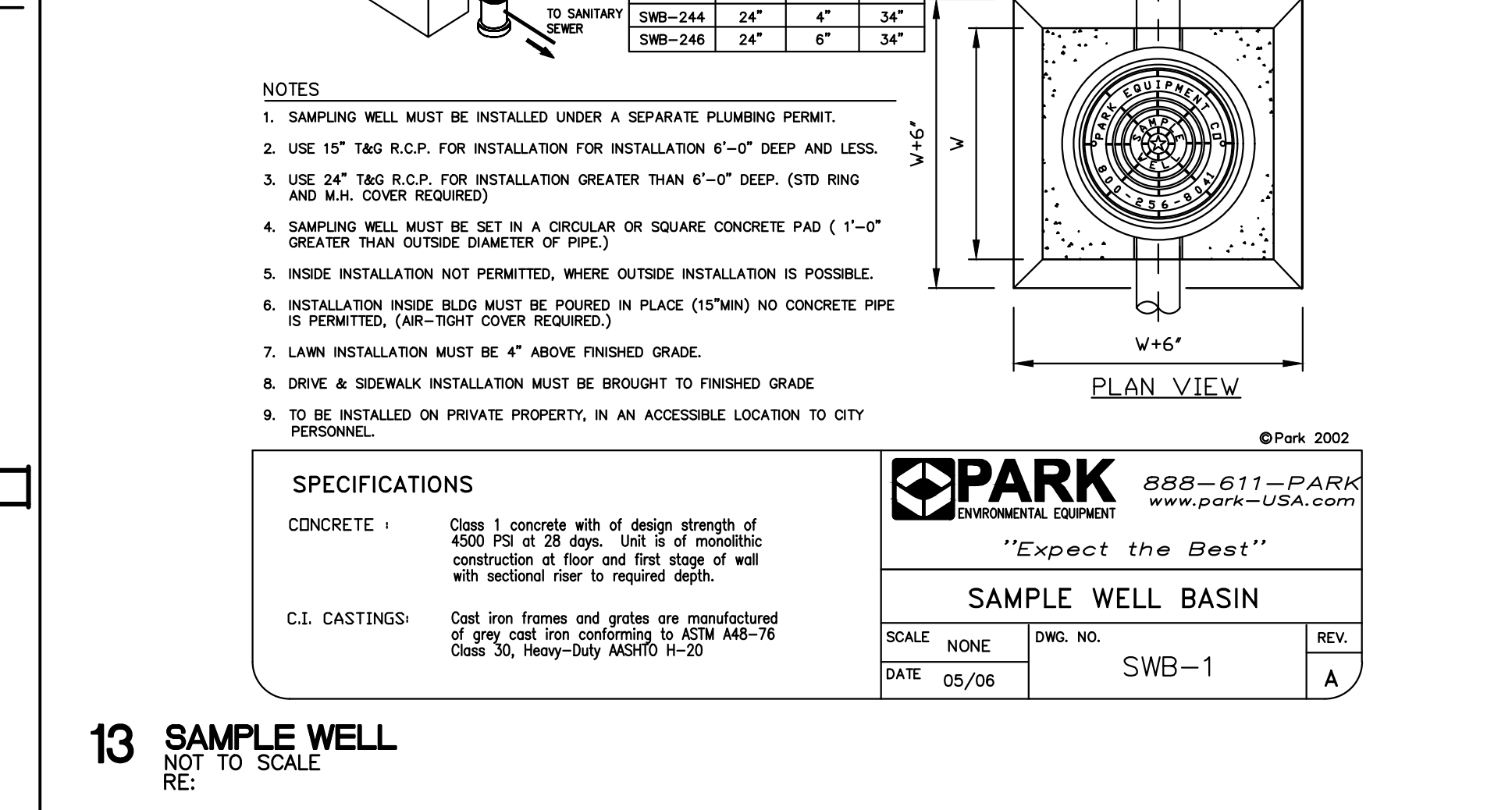
2 ROOF VENT DETAIL
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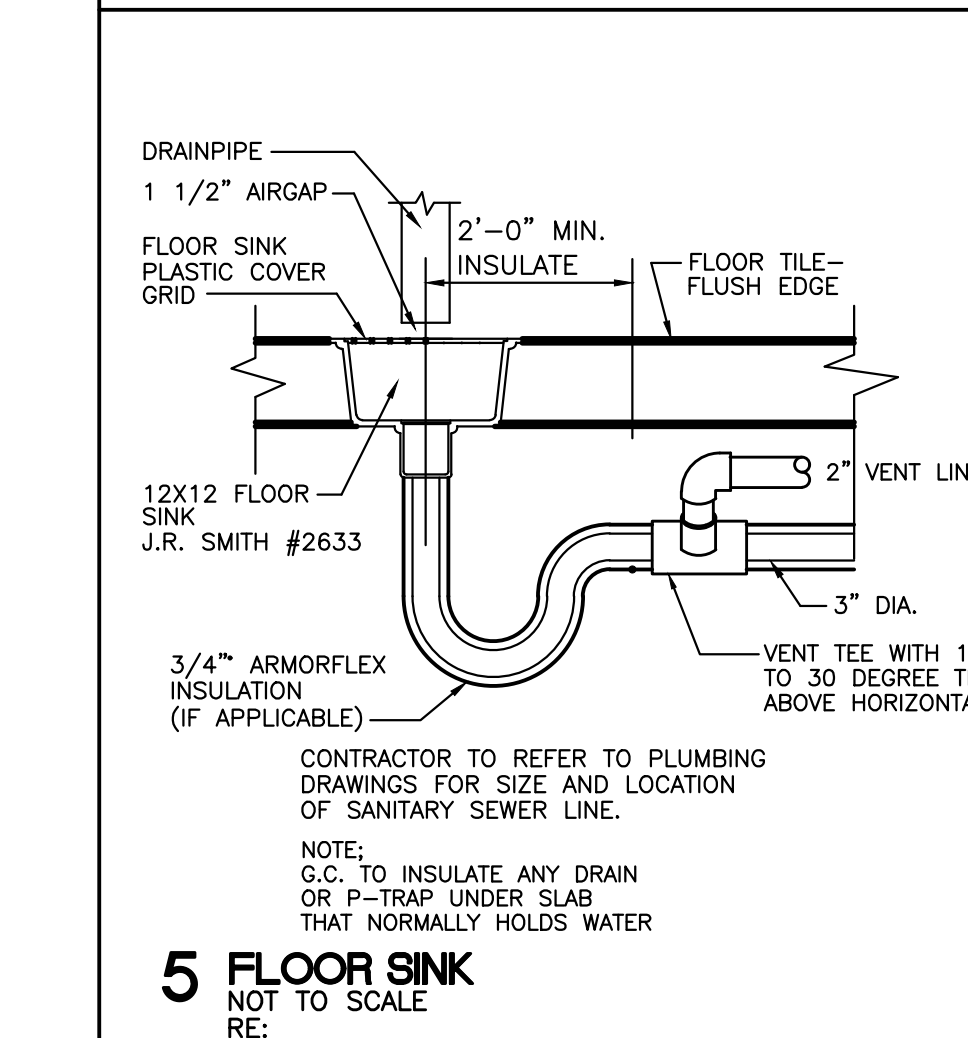
21 PIPE HANGER DETAIL
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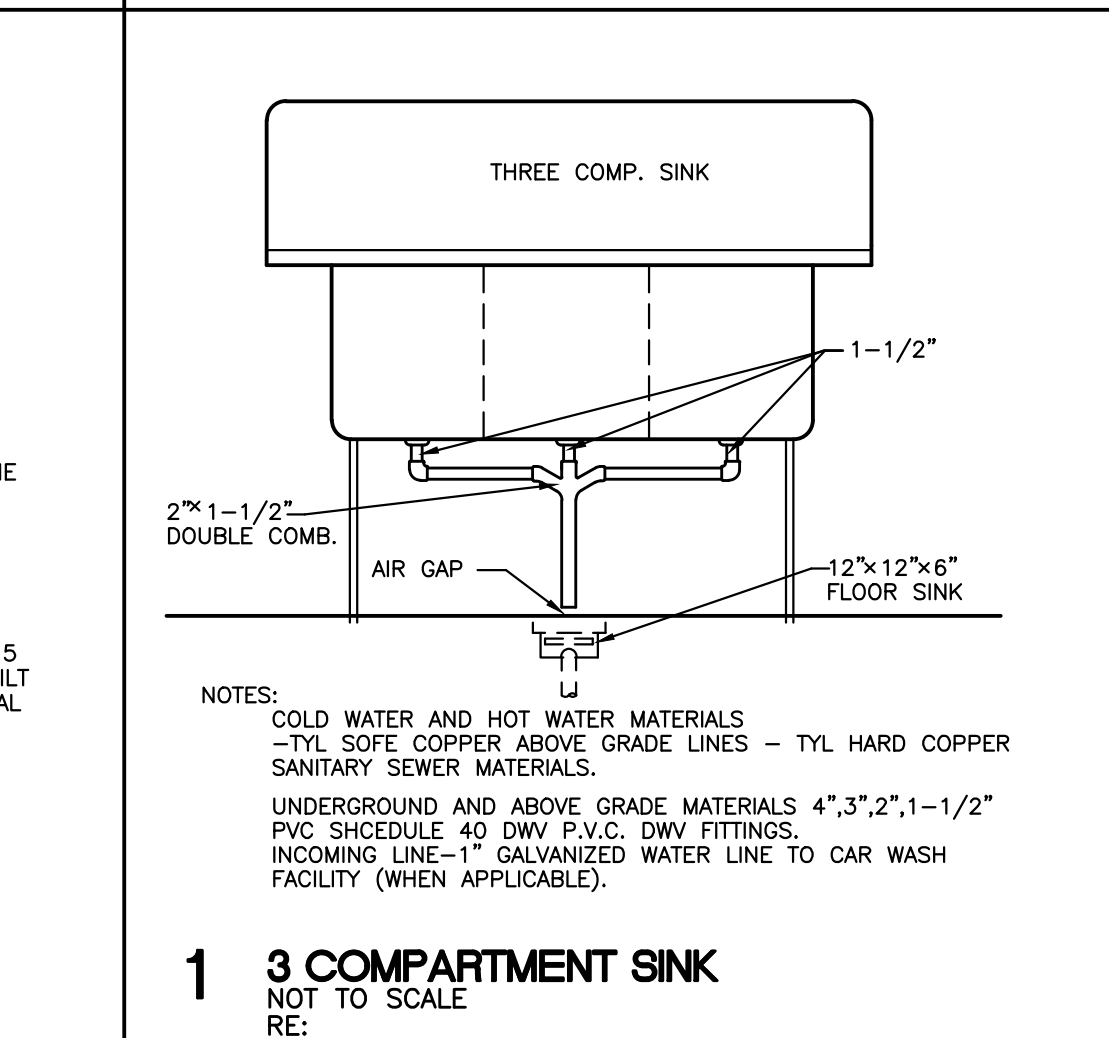
17 PIPING THROUGH FLOOR DETAIL
NOT TO SCALE
RE:



5 FLOOR SINK
NOT TO SCALE
RE:



3 COMPARTMENT SINK
NOT TO SCALE
RE:



1 3 COMPARTMENT SINK
NOT TO SCALE
RE:

MANUEL F. BIRRIEL
KINGWOOD, TEXAS
T: 832.398.1111
E: m.birriel@birriel-engineering.com

PROJECT NUMBER
CEF22-P04.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

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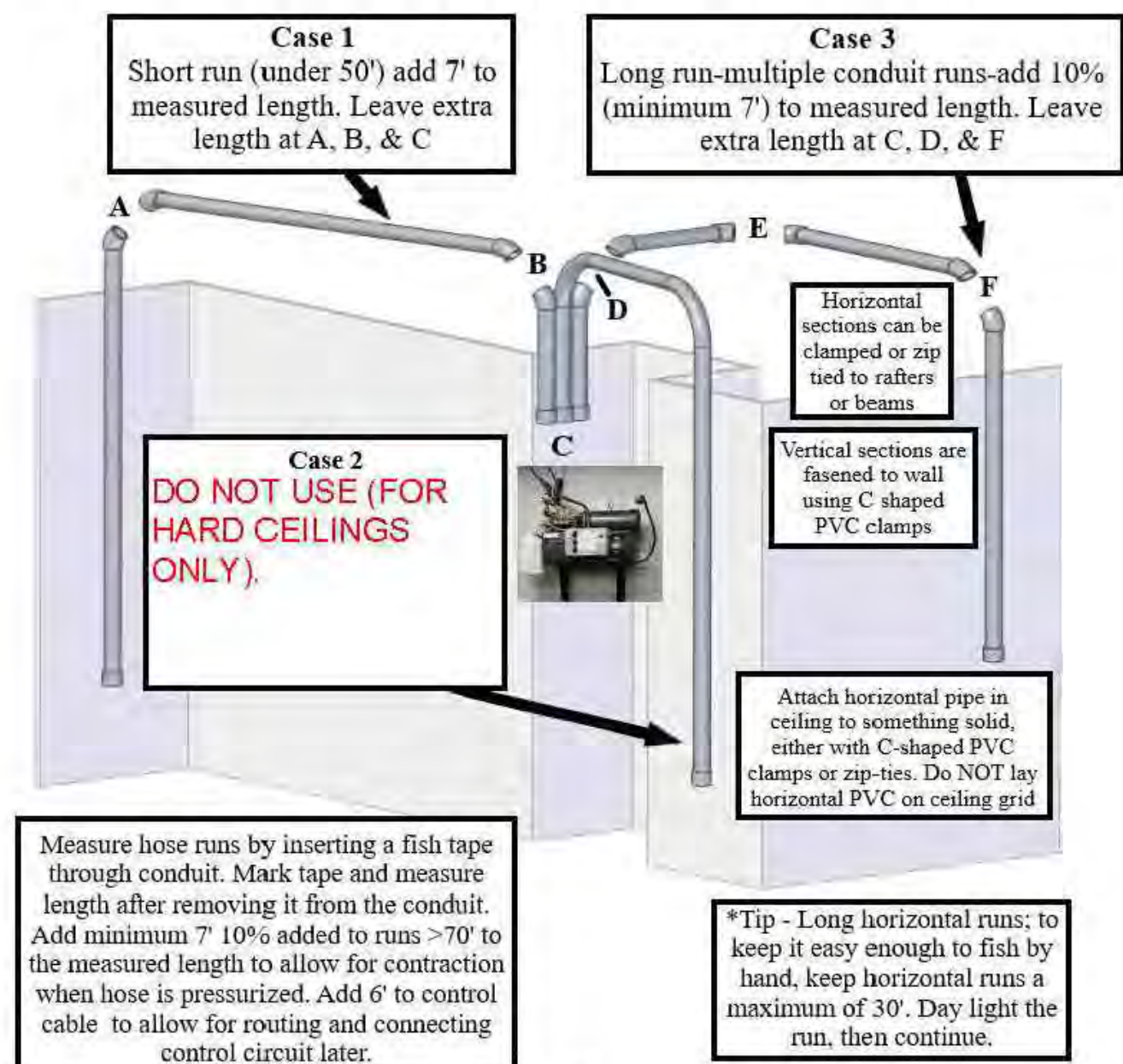
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PLUMBING AND DETAILS

DRAWING NUMBER
P04
SHEET NO.

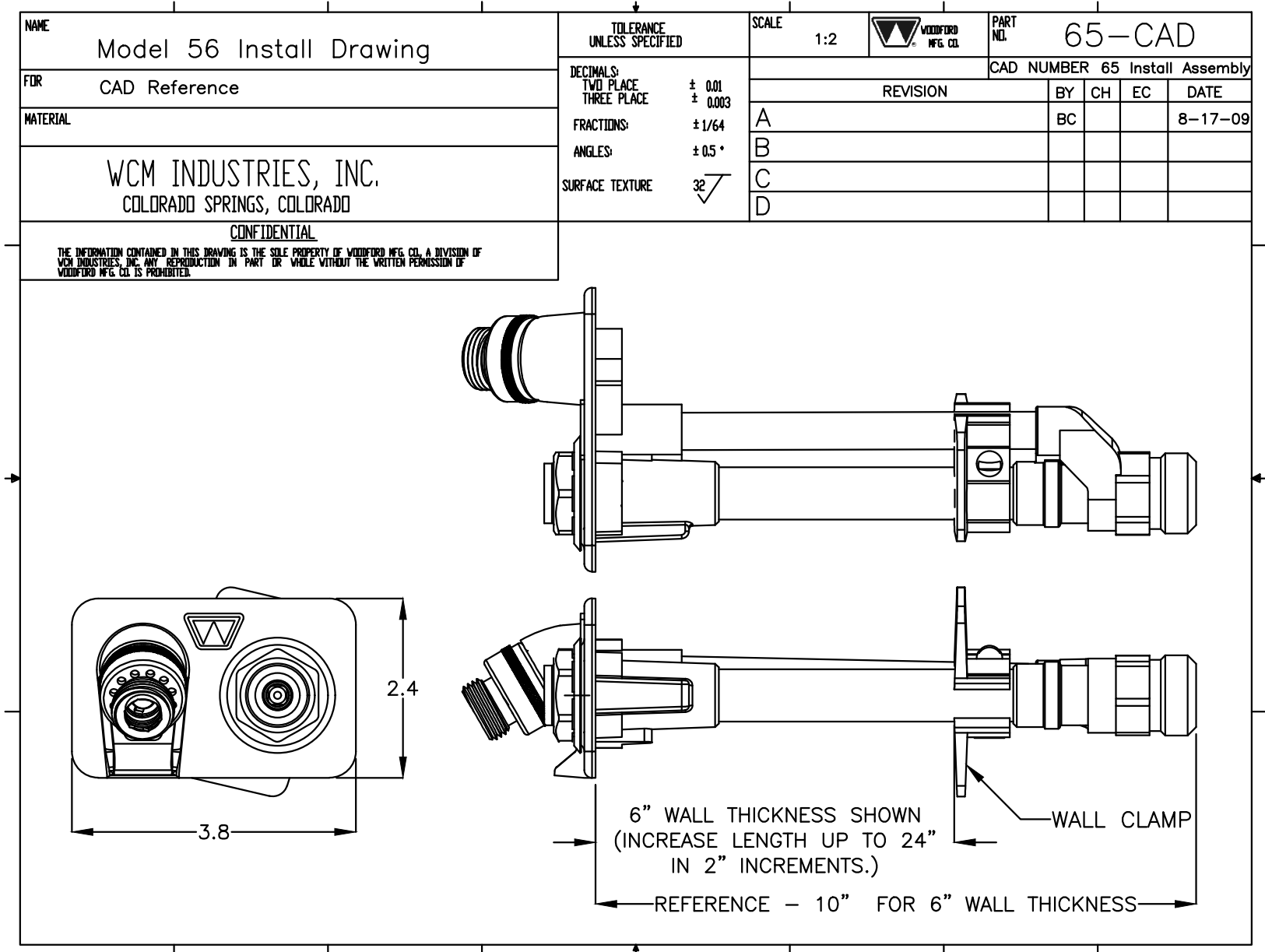
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General Conduit Install Instructions



1109 10th Ave N Clear Lake, IA 50428
641-357-9274 (Office) info@easiwash.com
www.easiwash.com



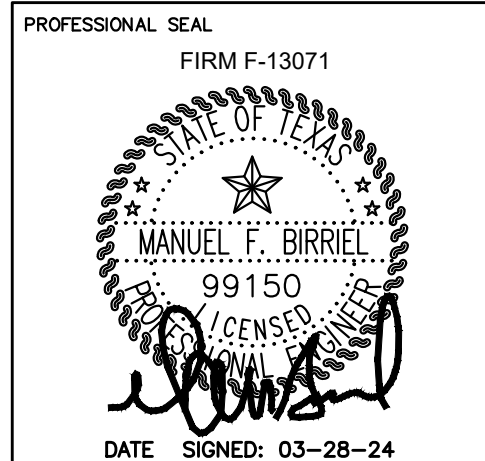
23 WALL HYDRANT
NOT TO SCALE
RE: P03

MANUEL F. BIRRIEL
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T: 832.398.1111
E: m.birriel@birriel-engineering.com

PROJECT NUMBER
CEF22-P04A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



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REVISIONS

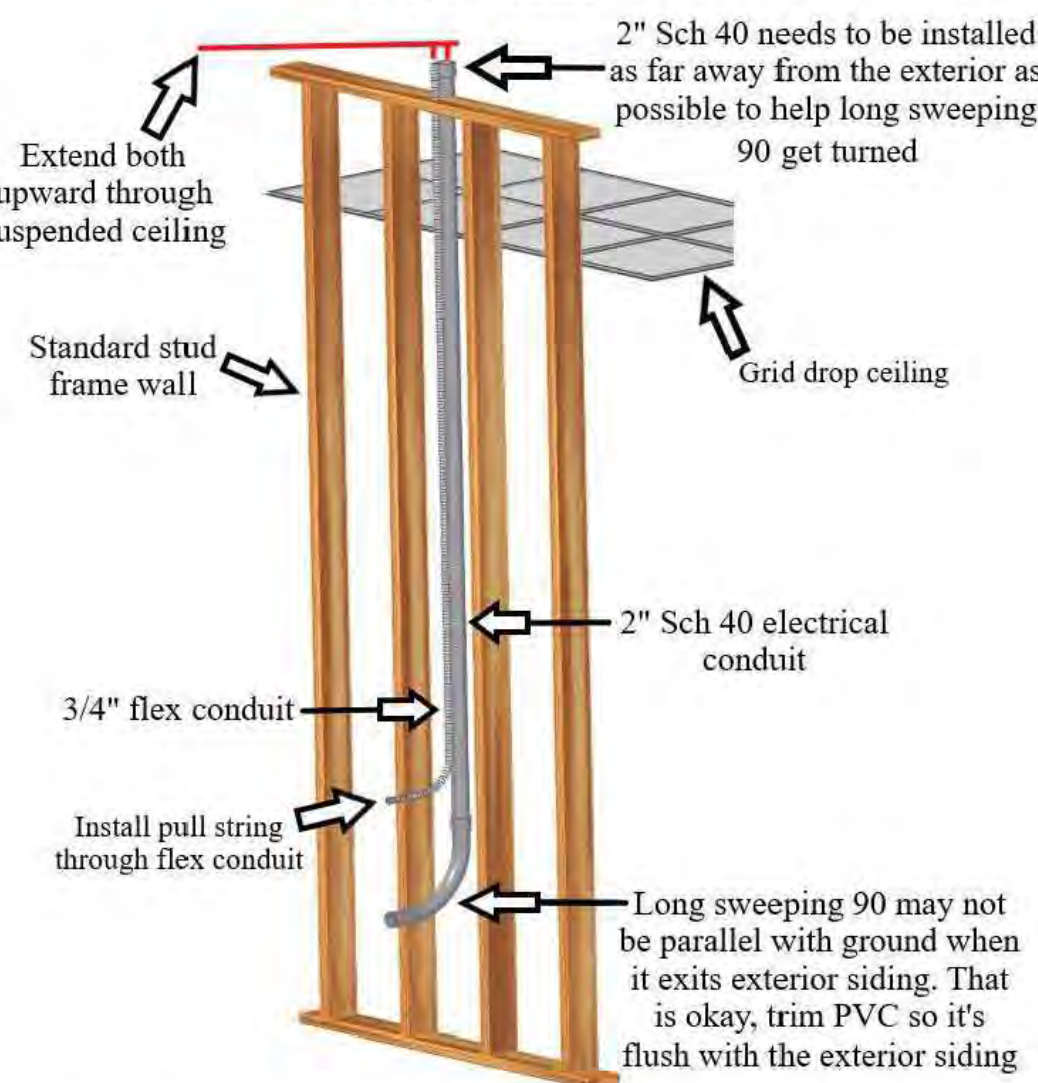
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DRAWING NUMBER: **P04A** SHEET NO.



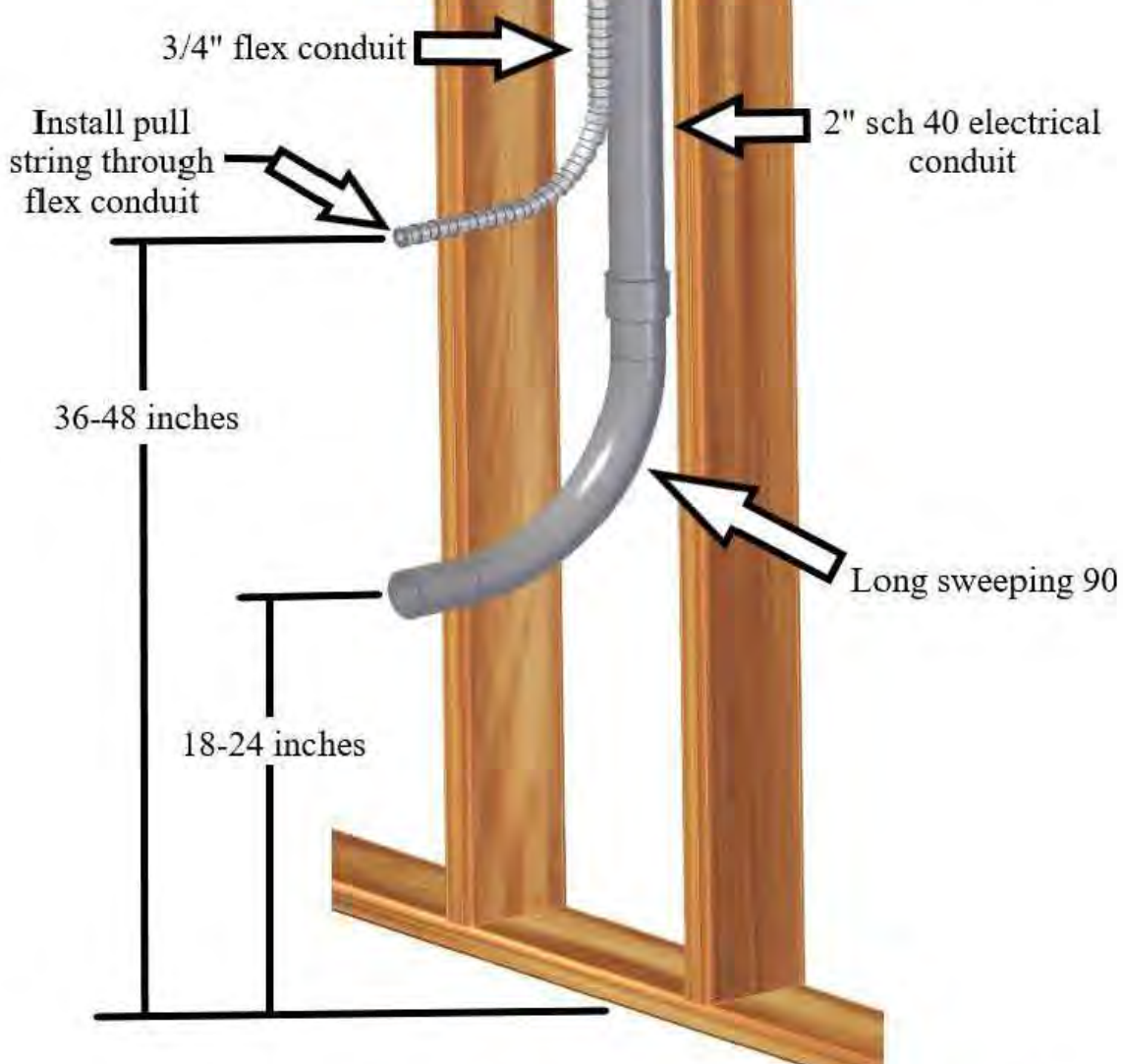
Standard Remote Station Pre-Plumb Instructions NO T-WALL



1109 10th Ave N Clear Lake, IA 50428
641-357-9274 (Office) info@easiwash.com
www.easiwash.com



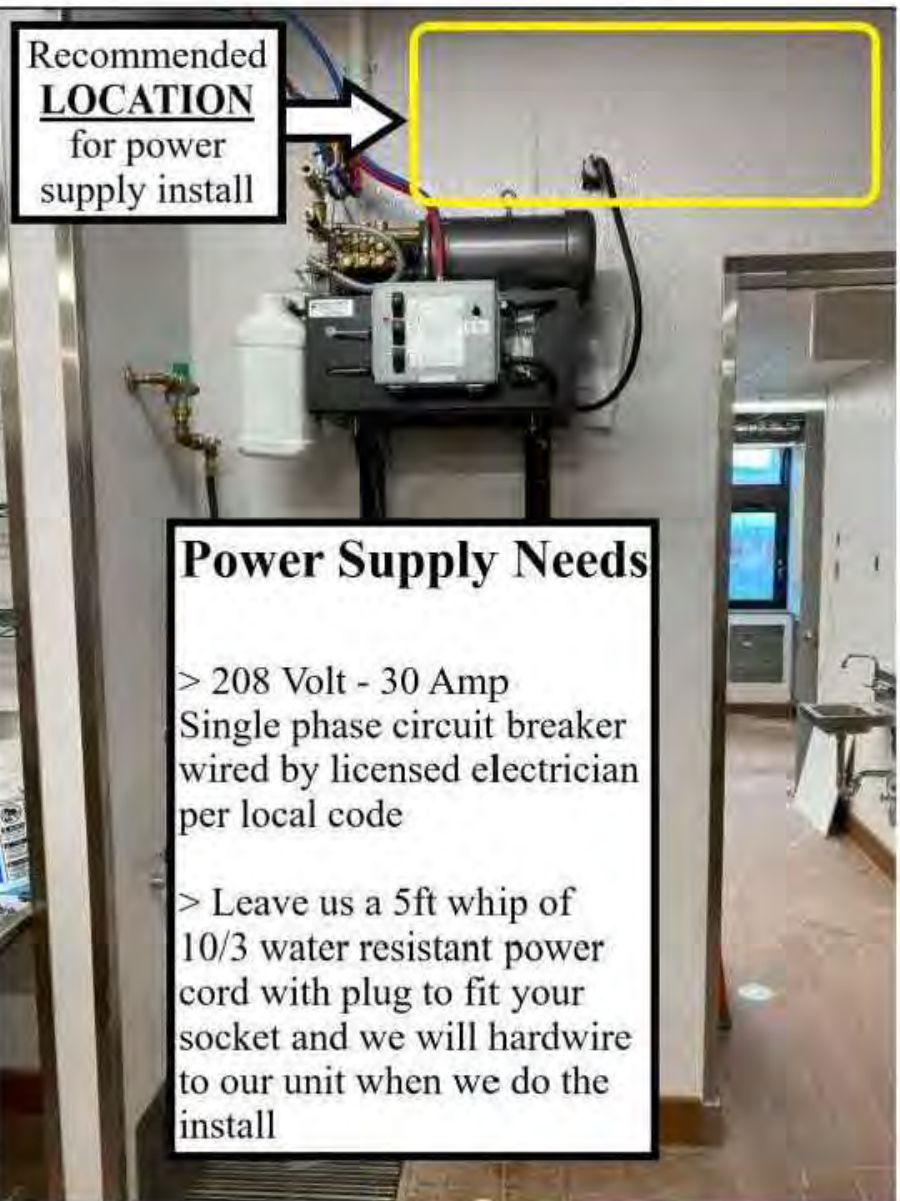
Standard Remote Station Pre-Plumb Instructions NO T-WALL



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641-357-9274 (Office) info@easiwash.com
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Unit Specifications



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www.easiwash.com



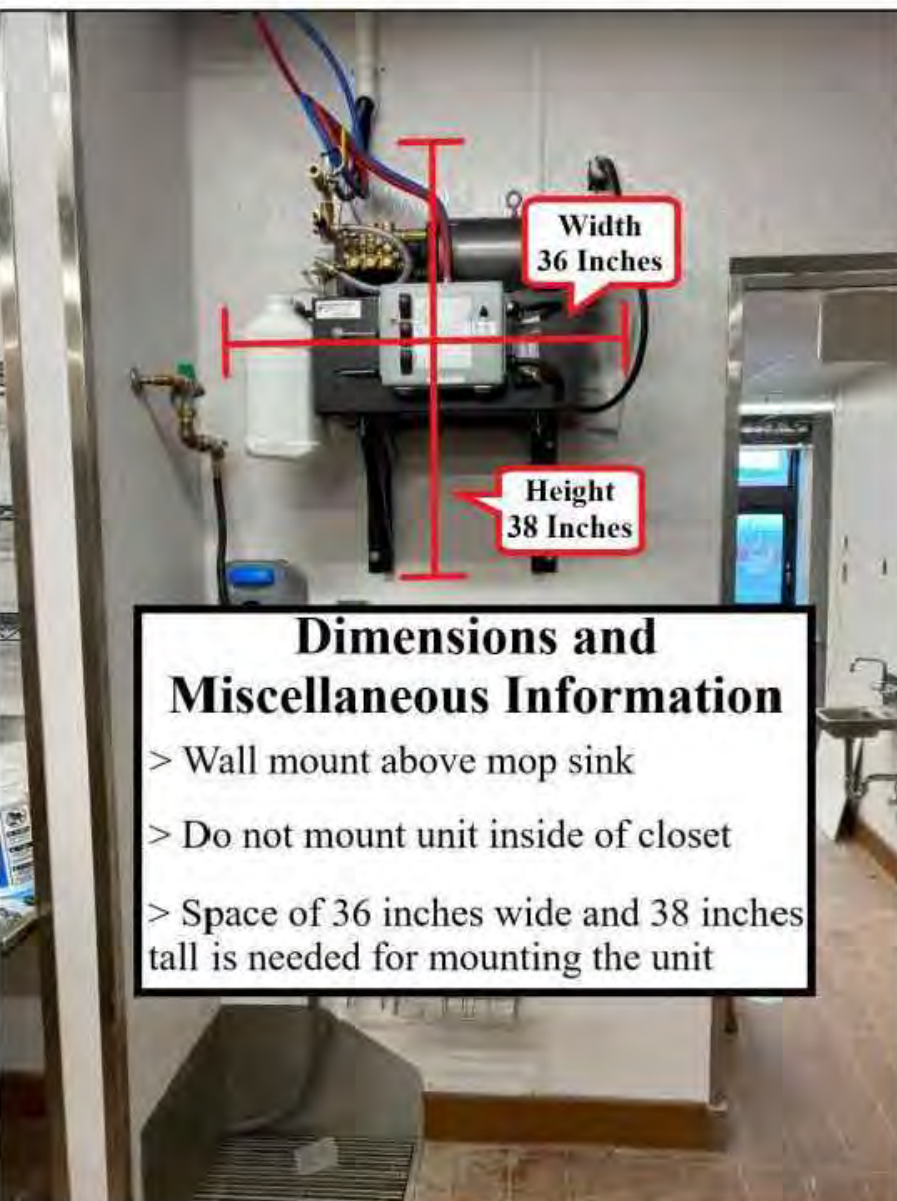
Unit Specifications



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641-357-9274 (Office) info@easiwash.com
www.easiwash.com

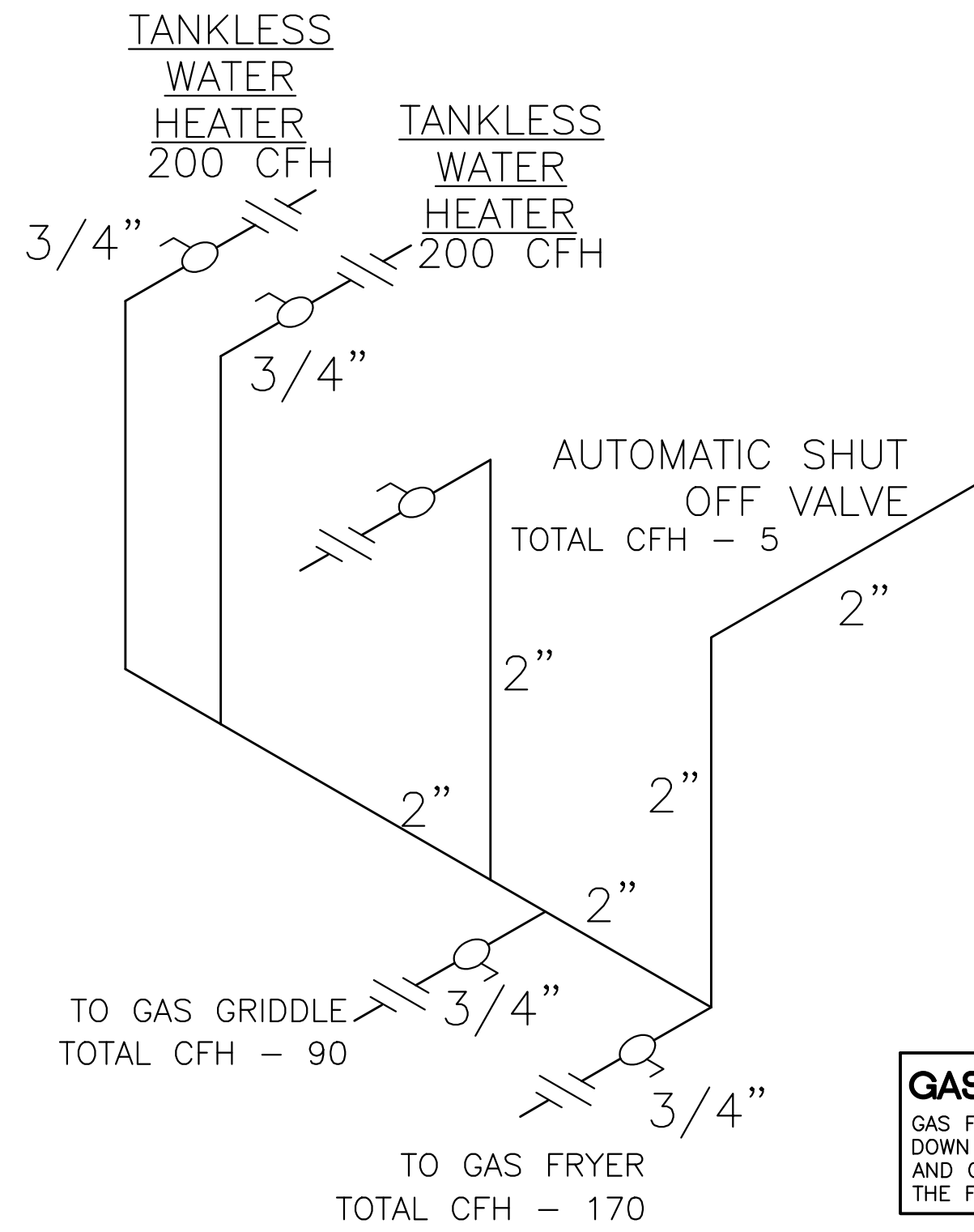


Unit Specifications



1109 10th Ave N Clear Lake, IA 50428
641-357-9274 (Office) info@easiwash.com
www.easiwash.com

EASIWASH CLEANING SYSTEM INSTALLATION



GAS LOAD SUMMARY	
GAS DEMAND (MBTU/hr)	FIXTURE DESCRIPTION
400.00	WATER HEATERS (X2)
170.00	FRYERS
90.00	GRIDDLE
5.00	AUTOMATIC SHUT OFF VALVE
~665.00	APPROXIMATE TOTAL GAS DEMAND LOAD

GAS NOTE:
GAS FOR COOK LINE TO COME DOWN BACK WALL IN STORAGE AREA AND COME THROUGH WALL NEAR THE FRYERS.

NOTE:
MAX. 10" W.C. PRESSURE INTO BUILDING FOR NATURAL GAS

NOTES:
1. ALL VALVES SHALL BE SAME SIZE AS PIPING SERVED (MIN.).
2. ALL GAS PIPE SIZES BASED ON: 0.5 PSI (MAX.), .06 SPECIFIC GRAVITY, AND 0.5" W.C. PRESSURE DROP. MOST REMOTE OUTLET AT 70 FEET FROM METER. IF GAS SERVICE WARES FROM DESIGN, P.C. SHALL RESIZE PIPING BASED ON SERVICE AVAILABLE. P.C. SHALL VERIFY THAT GAS SYSTEM PRESSURE DOES NOT EXCEED ALLOWABLE LIMITS OF GAS UTILIZATION EQUIPMENT.
3. P.C. SHALL INSTALL FLEXIBLE GAS HOSE (PROVIDED BY OWNER) BETWEEN GAS PIPING AND APPLIANCES. FLEXIBLE HOSE SHALL BE SAME SIZE AS BRANCH PIPE.

6 GAS PIPING ISOMETRIC DIAGRAM
SCALE: NTS
RE:

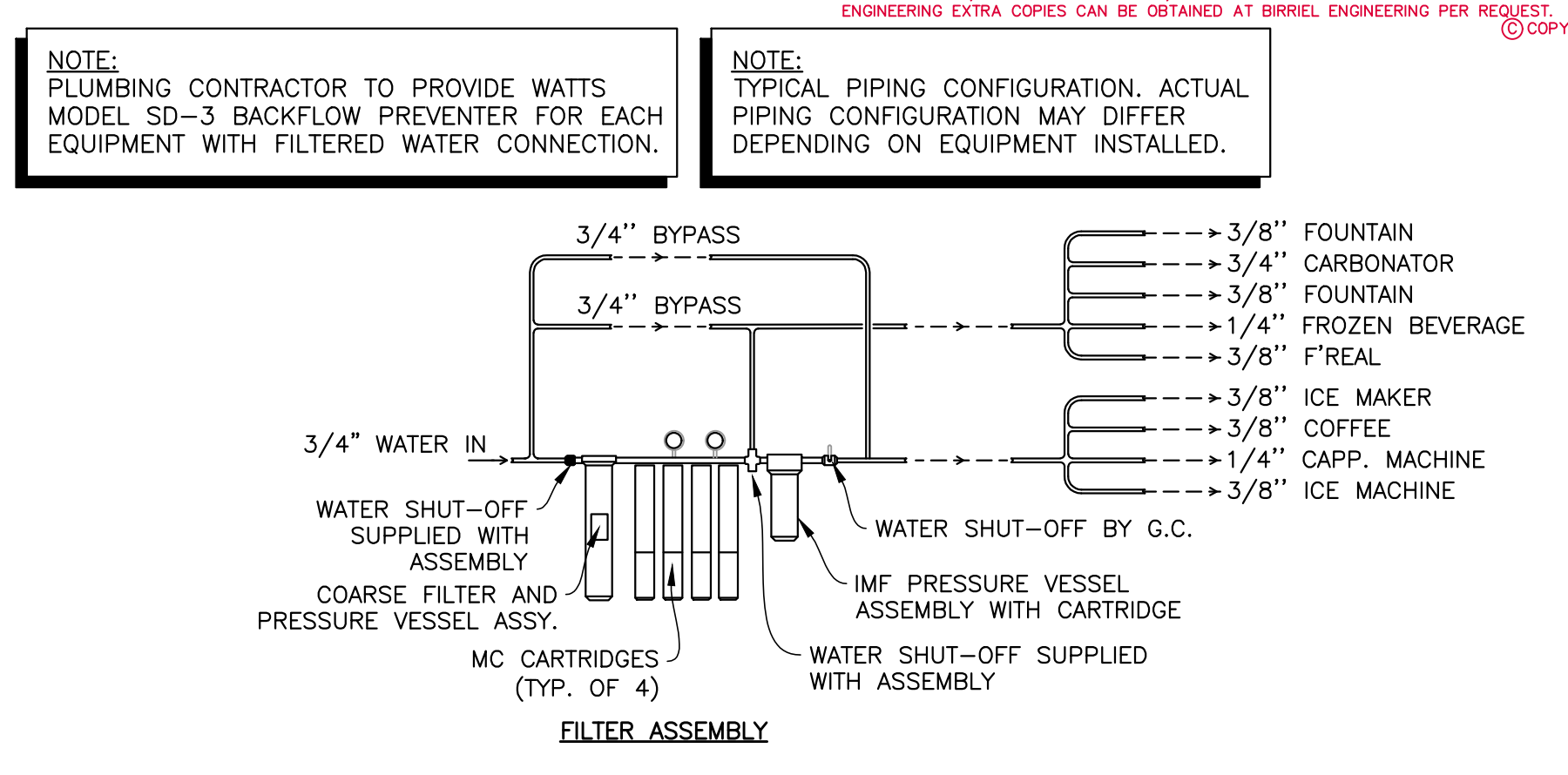


CEFCO F250 Equipment List				
Make	Supplier	Item	Description	Quantity
Kloppenberg	Hoshizaki	Kloppenberg Ice Bagger	DISP-1000	1
Hoshizaki	Hoshizaki	Ice machine for Koppenberg Ice Bagger w/power cord 208PLB	KM-1601SRJ	1
Cornelius	BEVCO	Fountain flavor fusion w/Z Style	621057644	3
Hoshizaki	Hoshizaki	Ice Machine for Fountain Dispenser w/power cord 115PLB	FD-1002MRJ-C	3
BUNN	BUNN	Dual Coffee Brewer	51200.01	2
BUNN	BUNN	3 Head Cappuccino	38600.0001	1
BUNN	BUNN	Dual Tea Brewer	52000.0301	1
BUNN	BUNN	Uncarbonated Frozen Beverage Dispenser	34000.052	2

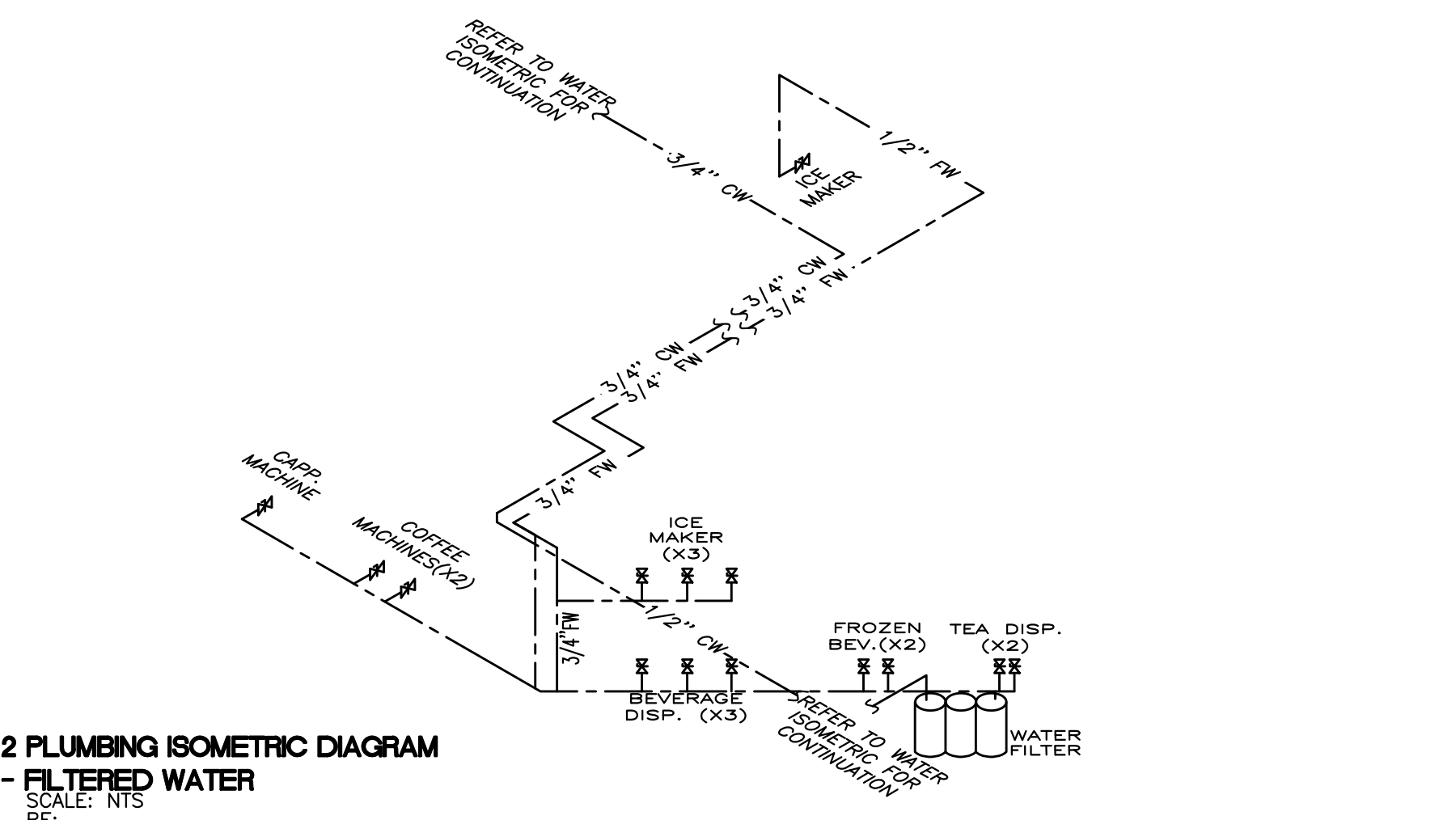
Ecolab Water Filtration - F250 Configuration		
Manifold	Part Number	Quantity
ECO-20422 TWIN	93203886	1
ECO-30422 TRIPLE	93203887	1
ECO-40422 QUAD	93203888	1

Filter Cartridge	Part Number	Quantity
ECO-122T05	93203893	3
ECO-122T05S	93203894	6

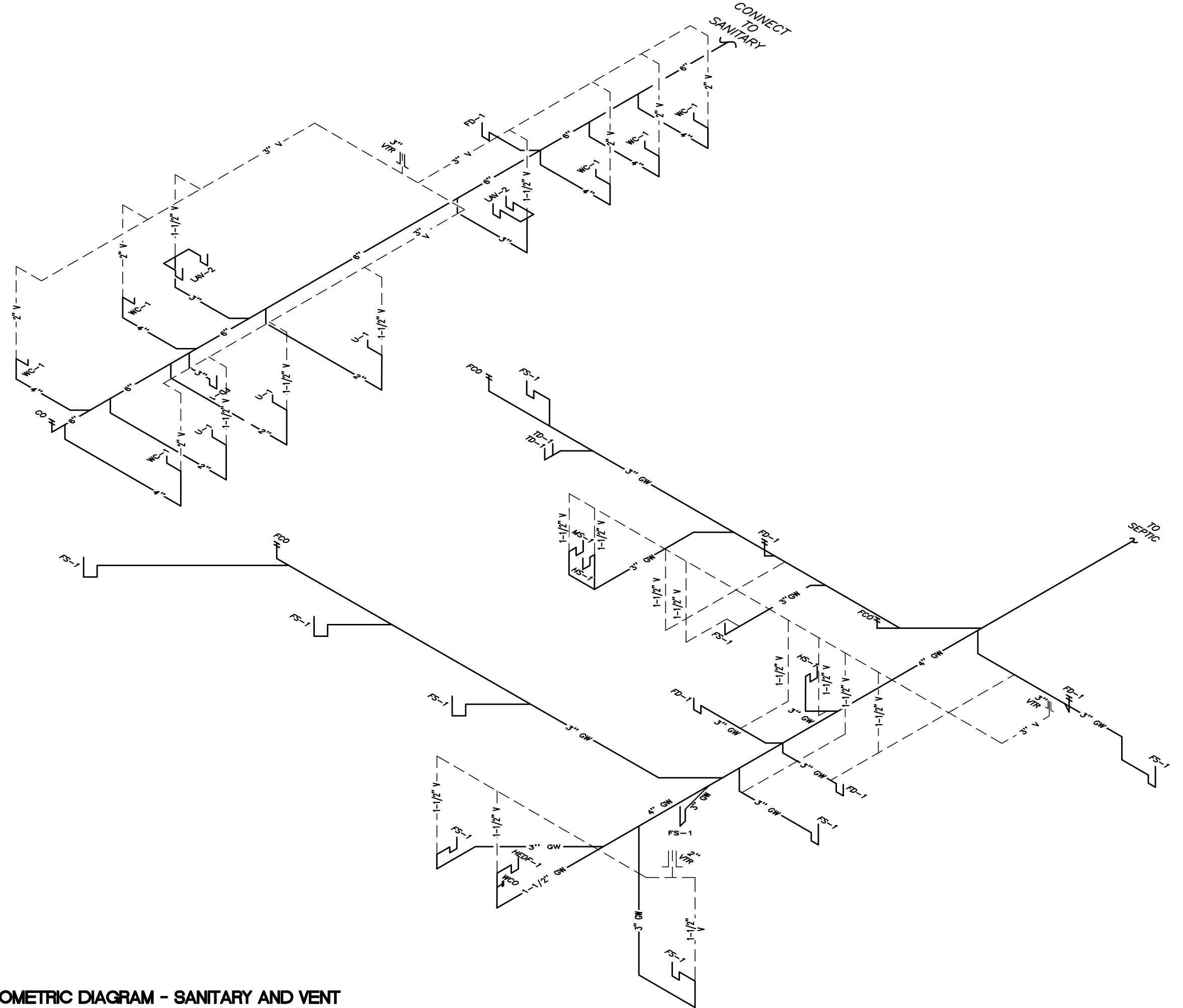
5 TYPICAL ECOLAB FILTER LAYOUT



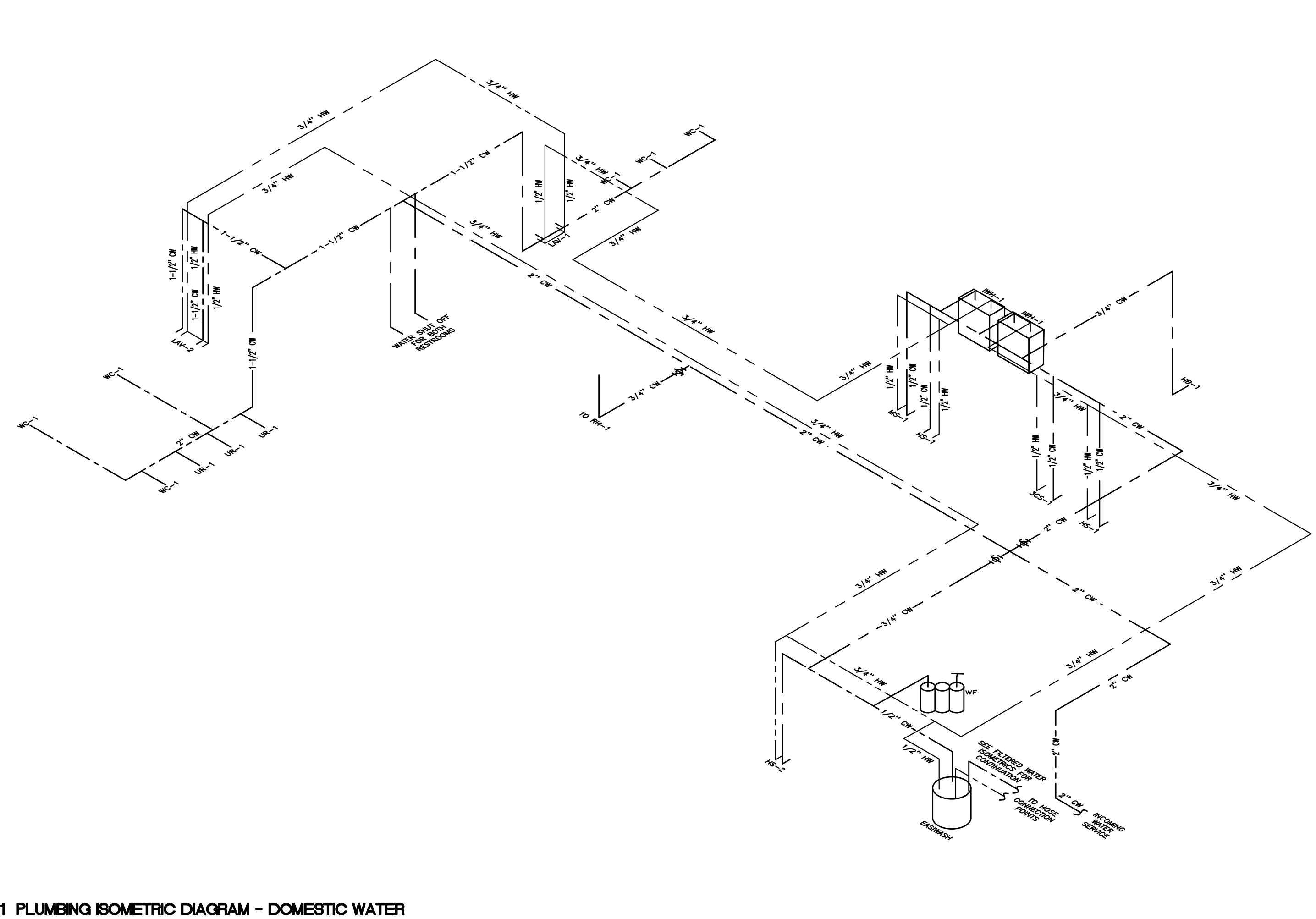
3 WATER FILTER PIPING DIAGRAM
SCALE: NTS
RE:



2 PLUMBING ISOMETRIC DIAGRAM - FILTERED WATER
SCALE: NTS
RE:



4 PLUMBING ISOMETRIC DIAGRAM - SANITARY AND VENT
SCALE: NTS
RE:



1 PLUMBING ISOMETRIC DIAGRAM - DOMESTIC WATER
SCALE: NTS
RE:

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PROJECT NUMBER
CEF22-P05.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FKES WHOLESALE, INC.

PROFESSIONAL SEAL
FIRM F-13071
MANUEL F. BIRRIEL
99150
LICENSED PROFESSIONAL ENGINEER
DATE SIGNED: 03-28-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
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02-16-23	60% REVIEW SET
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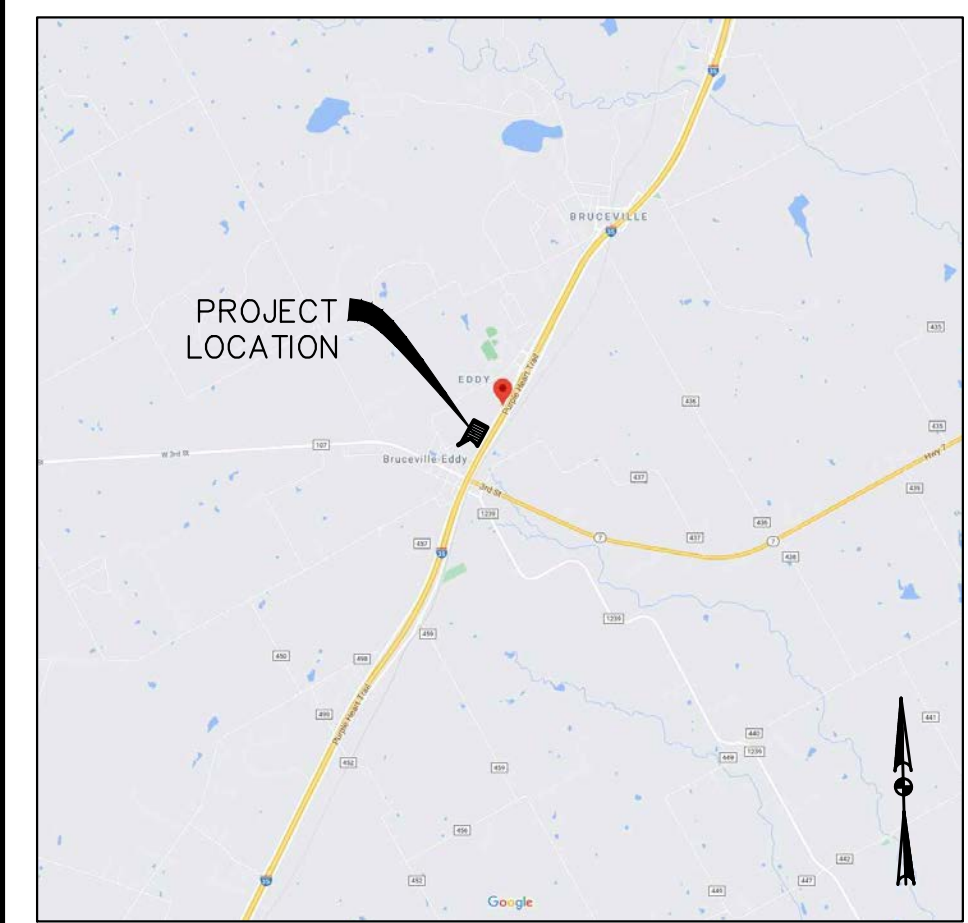
REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE
PLUMBING ISOMETRIC DIAGRAMS - DOMESTIC WATER / SANITARY VENT

DRAWING NUMBER
P05
SHEET NO.



VICINITY MAP
N.T.S.

EPA TECHNICAL STANDARDS:

LEAK DETECTION:
 PIPING: AUTOMATIC SHUTOFF DEVICE OR FLOW RESTRICTOR
 TANKS: AUTOMATIC TANK MONITORING AND INVENTORY CONTROL.

OVERFILL PREVENTION - SPILL CONTAINMENT:
 SPILL CONTAINMENT MANHOLE: RE: FP6
 OVERFILL PREVENTION VALVE: FE: FP6

CORROSION PROTECTION:
 TANKS: FIBERGLASS DOUBLE WALL - HALL TANK COMPANY
 PIPING: DOUBLE WALL PRODUCT PIPING
 ALL METALLIC COMPONENTS OF THE PIPING SYSTEM TO BE ELECTRICALLY ISOLATED FROM THE BACKFILL BY COATING WITH A SUITABLE DIELECTRIC MATERIAL. RE:FP6

FUEL ISLANDS
 1. FUEL ISLANDS MUST BE MAINTAINED AND KEPT CLEAN AND FREE OF TRASH OR OTHER UNSIGHTLY ITEMS AT ALL TIMES.
 2. FUEL ISLANDS MUST HAVE A CONCRETE PAD UNDER THE CANOPY.
 3. DISTRIBUTOR MUST PROVIDE OWNER APPROVED TRASH CANS AND WINDSHIELD WASHER CABINETS ON ALL FUEL ISLANDS.
 4. WHEN REQUIRED - FUEL ISLANDS MUST HAVE WELL MAINTAINED, PAINTED CURBS REFLECTIVE OF THE OWNER BRAND IMAGE.

FUEL WARNING/REGULATORY DECALS
 DISTRIBUTORS ARE SOLELY RESPONSIBLE FOR PROVIDING PROPER NOTICE AND PLACEMENT OF WARNING/REGULATORY DECALS ON ALL FUEL DISPENSERS USED TO NOTIFY THE PUBLIC ABOUT THE DANGERS ASSOCIATED WITH DISPENSING AND USING FUEL AND FUEL PRODUCTS.

FUELING FACILITIES
 THE CANOPY MUST BE A MODERN HORIZONTAL STRUCTURE WITH VERTICAL, SMOOTH AND FLAT FASCIA CONSTRUCTED OF METAL, ACM, OR OTHER SIMILAR MATERIAL APPROVED IN WRITING BY OWNER. THE CANOPY MUST HAVE A CANOPY PAN ON THE UNDERNEATH SIDE OF THE CANOPY AND MUST ALSO HAVE LIGHTING (NON FLUORESCENT) WORKING AND SUITABLE TO THE OVERALL SIZE OF THE CANOPY. MARKS MAY ONLY BE UTILIZED WITHIN OR ON ANY CANOPY AS APPROVED BY OWNER.

CANOPY COLUMNS
 CANOPY COLUMNS WILL BE COVERED FULL HEIGHT OF THE COLUMN.

UNAUTHORIZED SIGNAGE ON COLUMNS
 UNDER NO CIRCUMSTANCES IS IT ACCEPTABLE TO INSTALL OR DISPLAY SIGNAGE ON THE COLUMNS OF EITHER A TEMPORARY OR PERMANENT NATURE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM OWNER. THIS INCLUDES BANNERS, PROMOTIONAL SIGNS, POLE WRAP SIGNS, WARNING DECALS, HANDWRITTEN SIGNS AND NOTICES, ETC.

AUTOMATION
 EACH STATION SHALL UTILIZE, AT DISTRIBUTOR'S EXPENSE, AUTOMATION EQUIPMENT FOR THE PURPOSE OF CREDIT CARD TRANSACTION AND AUTHORIZATION SERVICES, AND OTHER AGREED UPON SERVICES WHICH SHALL AT A MINIMUM MEET CEFCO'S CRITERIA FOR SPEED, CAPACITY AND SERVICES IN THE MANNER AND AS DETERMINED BY CEFCO.

DISPENSERS
 1. A MINIMUM OF 2 MPD'S WITH CRINDS ARE REQUIRED.
 2. MPD'S MUST BE MODERN AND IN GOOD WORKING CONDITION.
 3. DISPENSERS MUST DISPLAY GRAPHICS AND DECALS ACCORDING TO THE IMAGE SPECIFICATIONS SET BY CEFCO. VERIFY WITH OWNER.
 4. MARKS MAY ONLY BE UTILIZED WITHIN OR ON THE PUMP SKIRT AS APPROVED BY CEFCO. IN NO EVENT MAY DISTRIBUTOR OR ITS DEALER(S) UTILIZE ANY TRADEMARKS, COLOR SCHEMES, TRADE DRESS, SERVICE MARKS, SIGNS, SYMBOLS, SLOGANS OR DESIGNS OTHER THAN THE MARKS ON THE DISPENSERS OR WITHIN OR ON THE PUMP SKIRT.

TANK, PIPING & INSTALLATION NOTES:

- GENERAL NOTES:**
- ALL NEW PETROLEUM EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE DEP APPROVED. ALL PETROLEUM EQUIPMENT, MATERIALS AND ACCESSORIES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE MANUFACTURER'S INSTRUCTIONS.
 - ALL TANKS AND PIPING INSTALLATION WORK IS TO BE PERFORMED BY A STATE REGISTERED POLLUTANT STORAGE SPECIALTY CONTRACTOR.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICANT STATE, COUNTY AND MUNICIPAL BUILDING CODE REQUIREMENT AND ORDINANCES; AND THE FOLLOWING REFERENCE STANDARDS:
 NATIONAL FIRE PROTECTION ASSOCIATION:
 30A FLAMMABLE AND COMBUSTIBLE LIQUID CODE
 30A AUTOMOTIVE SERVICE STATION CODE
 329 UNDERGROUND LEAKAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS
 70 NATIONAL ELECTRIC CODE
 AMERICAN PETROLEUM INSTITUTE:
 1615 INSTALLATION OF UNDERGROUND PETROLEUM STORAGE SYSTEMS
 1604 RECOMMENDED PRACTICE FOR ABANDONMENT OR REMOVAL OF USED U.G. STORAGE TANKS
 PETROLEUM EQUIPMENT INSTITUTE:
 RP100 RECOMMENDED PRACTICES FOR INSTALLATION OF U.G. LIQUID STORAGE TANKS
 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:
 CONSTRUCTION SAFETY AND HEALTH REGULATIONS SUBPART P. 1902.50 THRU 1926.653
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING REQUIRED NOTICE(S) AND SCHEDULING APPLICABLE CITY, COUNTY AND/OR STATE INSPECTIONS AS REQUIRED FOR PERMIT CLOSE OUT(S).
 - STANDARD TANK/PIPING TEST SPECIFICATIONS - CERTIFIED CONTRACTOR TO PERFORM CARB TP-201.3, IN ADDITION TO THE FOLLOWING STANDARD TESTING:
 *** HYDROSTATIC TESTING FOR SPILL BUCKETS AND SUMPS
 *** PRECISION PRESSURE TESTING OF TANKS AND LINES

GENERAL PIPING NOTES:

- GENERAL:**
- PIPING:**
- PRIMARY PRODUCT PIPING TO UTILIZE UPP PIPING AND PIPING LENGTHS SHALL USE 3/32" STICKS WITH DISPENSER POINTS. THESE WILL HAVE TO BE SHORTENED, AS NEEDED.
 - STEEL PIPE TO BE SCHEDULE 40 GALVANIZED. ALL PIPING AND SEALANT TO BE ALCOHOL COMPATIBLE. SCHEDULE 40 BLACK PIPE ON DIESEL PRODUCT, STAINLESS STEEL PIPE FOR DEF CONNECTIONS.
 - PIPE JOINT SEAL:
 2.1. GASOLINA SOFT SET SHALL BE USED ON ALL STEEL PIPE FITTINGS AND THREADED METAL CONNECTIONS.
 - TANK VENTS:
 3.1. ALL TANK VENTS SHALL BE S/W UPP PIPING. RISERS WILL BE SCHEDULED 40 GALVANIZED STEEL. CANOPY MANUFACTURER SUPPLIES IN-COLUMN PORTION OF VENT-RISER.
 - BACKFILL:
 4.1. BACKFILL OVER PRODUCT PIPING SHALL BE CLEAN, COMPACTED PEA GRAVEL. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON 6" OF COMPACTED PEA GRAVEL.
 4.2. NO PIPING SHALL BE SUPPORTED BY BLOCKS, PLANKS OR OTHER DEBRIS.
 4.3. PIPING SHALL BE SEPARATED BY AT LEAST THE DIAMETER OF THE LARGER PIPE.
 - SLOPE:
 ALL PIPING MUST SLOPE TO UNDERGROUND TANKS. VENT AND VAPOR RECOVERY PIPING MUST SLOPE AT A MINIMUM RATE OF 1/8" PER FOOT.
 - MINIMUM 18" BEND RADIUS FOR CONDUIT. MINIMUM 5' RADIUS FOR PRODUCT PIPING.

ELECTRICAL NOTES:

- N.E.C. ARTICLE 500 & 514 CONDITIONS FOR HAZARDOUS AREAS AND FUEL DISPENSING FACILITIES APPLY.
- PROVIDE EXPLOSION PROOF SEALS-OFFS IN ACCORDANCE WITH ARTICLES 500, 501, AND 514 (CLASS 1, DIVISION 1 & 2) OF THE 2005 NATIONAL ELECTRICAL CODE TYPICAL FOR ALL CONDUITS IN CLASS 1 LOCATIONS, INCLUDING LOW VOLTAGE CONDUITS.
- ALL CONDUITS IN CLASS 1 LOCATIONS SHALL BE GROUNDED AS PER NEC 250.100 & 501.30. MATERIALS:

MATERIAL:

- UPP SYSTEM SOLUTION PIPING IS TO PROVIDE SUFFICIENT PIPING AND FITTINGS TO COMPLETE ANY TYPICAL INSTALLATION TO THE INSTALLER BY THE OWNER. UNUSED MATERIALS SHALL BE INVENTORIED AND RETURNED CEFCO REPRESENTATIVE.
- THERE ARE TWO TYPES OF PIPING:
 2.1. COAXIAL, SECONDARILY CONTAINED DIRECT BURIAL FLEXIBLE PIPING 1/2" ID (1.315" O.D.) WITH 1/2" ID (1.315" O.D.) PRIMARY AND A 3/4" ID (1.315" O.D.) SECONDARY. THIS PIPING IS TYPICALLY DELIVERED IN ROUND ROLLS.
 2.2. SINGLE WALL FIBERGLASS PIPING TO BE SHIPPED IN STRAIGHT PIPING FOR USE IN VENTING AND IF SPECIFIED BY THE OWNER. VAPOR RECOVERY PIPING.
- INSTALLATION REQUIREMENTS ARE SIMILAR FOR BOTH THE DOUBLE WALL AND THE SINGLE THICKNESS PIPING.
- FITTINGS FOR ELBOWS, TEES, NPT ADAPTORS AND BULKHEAD PENETRATION WITH UPP ARE PROPRIETARY, AND NO SUBSTITUTIONS ARE PERMITTED.
- TOOLS FOR HANDLING AND INSTALLATION ARE PROPRIETARY FOR UPP PIPING AND SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE INSTALLER.
- DISPENSER SUMPS ARE POLYETHYLENE PRODUCTS OF UPP. WHILE THE TANK SUMP ARE OF FIBERGLASS CONSTRUCTION, FOR BONDING TO THE SECONDARY CONTAINMENT RING OF THE UNDERGROUND TANK. THIS SUMP IS PRESENTLY NOT A UPP PRODUCT.

HANDLING:

- HANDLE UPP PIPING AND FITTINGS WITH CARE, AS WITH ANY PETROLEUM PIPING. DO NOT ACCEPT PIPING FOR USE WHERE SURFACE DAMAGE, CUTS, GOUGES, EXCEEDS ONE TENTH (1/16") OF THE MATERIAL THICKNESS.
- USE NO METALLIC SLINGS TO LIP UPP PIPING.
- UPP PIPING, WHILE FLEXIBLE, MAY CONTAIN MORE STORED ENERGY THAN COMPARABLE PRODUCTS SHIPPED IN ROLLS. USE ADDITIONAL PERSONNEL AND SLIP KNOT ROPE AROUND BUNDLE WITHIN RELEASING PACKING BANDS.
- USE ONLY UPP CUTTERS AND SHAVERS FOR PIPE PREPARATIONS.
- THE ELECTOR FUSION WELDER IS NOT EXPLOSION PROOF, DO NOT POSITION THE UNIT IN ANY CLASSIFIED HAZARDOUS AREAS OR WHERE AN EXPLOSIVE ATMOSPHERE MAY EXIST.
- UPP SYSTEM SOLUTION PIPING USES TECHNOLOGY WHICH MAY BE UNFAMILIAR TO THE INSTALLER. DO NOT ATTEMPT INSTALLATION PRIOR TO TRAINING BY AUTHORIZED PETROTECHNIK PERSONNEL.

LEGEND

- UNDERGROUND FIBERGLASS FUEL STORAGE TANKS - BY WATCO TANKS INC. AND XERXES. (10'-6" DIA TYP.) OR APPROVED EQUAL.
 1) 40,000 GAL. TANK FOR DIESEL (WATCO)
 2) 40,000 GAL. TANK DIVIDED AT 26,000 REGULAR, 8,000 PREMIUM AND 6,000 ETHANOL (WATCO)
 3) 8,000 GAL. TANK FOR DEF (XERXES)
 RE: TFP1-10 FOR TRUCK FUELING STATION INFORMATION ALL TANK INSTALLATIONS SHALL BE IN ACCORDANCE WITH 2021 IFC AND ALL TCEQ GUIDELINES AND RULES. (or latest issue)
- PROPOSED DUMPSTER ENCLOSURE. RE: S03A & S03B
- ID SIGN - ALL SIGNAGE SHALL BE ON PRIVATE PROPERTY ONLY AND MUST BE PERMITTED SEPARATELY BY A SIGN CONTRACTOR. RE: A01
- AIR UNIT
- PROPOSED LED AREA LIGHT FIXTURE TO MATCH EXISTING. VERIFY WITH OWNER. RE: E01

CONTRACTOR REQUIREMENTS:

- OBTAIN PERMIT FOR TANK INSTALLATION
- EXCAVATE TANK PIT AND DISPOSE OF DIRT (VERIFY WITH CONTRACTOR PRIOR TO THE DISPOSAL OF DIRT).
- CONTRACTOR MUST BID SLOPE TOLL
- SET TANKS TO MANUFACTURERS REQUIREMENTS. FURNISH NECESSARY GRAVEL AND/OR SAND FOR TANKS AND TRENCHES FOR LINES.
- FURNISH AND INSTALL ALL PIPE AND FITTINGS.
- INSTALL ALL EPA COMPONENTS, VALVES, FITTINGS, MANHOLES AS REQUIRED AND SHOWN.
- FURNISH AND INSTALL ALL RISER PIPES.
- FURNISH AND INSTALL ALL OBSERVATION WELLS AS REQUIRED.
- INSTALL UNDER DISPENSER CONTAINMENT AND ISLANDS WHERE REQUIRED.
- INSTALL REMOTE PUMPS, LEAKS DETECTORS, AND DISPENSERS.
- PURGE LINES AND CALIBRATE DISPENSERS BEFORE SYSTEM IS SET INTO FULL OPERATION.
- PRECISION TEST TANKS AND LINES IN ACCORDANCE WITH EPA/TCEQ REGULATIONS AND THEIR RESPECTIVE LOCAL AGENCIES.

ELECTRICAL REQUIREMENTS:

ELECTRICAL REQUIREMENTS: FOR THE EMERGENCY SHUT-OFF AT FUEL ISLANDS

THE CONTRACTOR SHALL COMPLY WITH THE NEW NFPA 70 SECTION 514.11 CIRCUIT DISCONNECTS

514.11: REVISED TO IDENTIFY ALL OF THE TYPES OF CIRCUITS THAT ARE REQUIRED TO BE DISCONNECTED AND TO CHANGE "ACCEPTABLE" TO "APPROVED" IN REGARD TO OTHER TYPES OF DISCONNECTING MEANS.

(A) GENERAL. EACH CIRCUIT LEADING TO OR THROUGH DISPENSING EQUIPMENT, INCLUDING ALL ASSOCIATED POWER, COMMUNICATION, DATA, AND VIDEO CIRCUITS, AND EQUIPMENT FOR REMOTE PUMPING SYSTEMS, SHALL BE PROVIDED WITH A CLEARLY IDENTIFIED AND READILY ACCESSIBLE SWITCH OR OTHER APPROVED MEANS, LOCATED REMOTE FROM THE DISPENSING DEVICES, TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY, ALL CONDUCTORS OF THE CIRCUITS, INCLUDING GROUNDED CONDUCTOR, IF ANY.

SINGLE-POLE BREAKERS UTILIZING HANDLE TIES SHALL NOT BE PERMITTED.

(B) ATTENDED SELF SERVICE MOTOR FUEL DISPENSING FACILITIES. EMERGENCY CONTROLS AS SPECIFIED IN 514.11(A) SHALL BE INSTALLED AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, BUT CONTROLS SHALL NOT BE MORE THAN 30M (100FT) FROM DISPENSERS. [30A:6.7.1]

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2203.0 EMERGENCY DISCONNECT SWITCHES:
 (2021 IFC) (or latest issue)

AN APPROVED, CLEARLY IDENTIFIED READILY ACCESSIBLE EMERGENCY DISCONNECT SWITCH SHALL BE PROVIDED AT AN APPROVED LOCATION, TO STOP THE TRANSFER OF FUEL DISPENSERS IN THE EVENT OF A FUEL SPILL OR OTHER EMERGENCY. AN EMERGENCY DISCONNECT SWITCH FOR EXTERIOR FUEL DISPENSERS SHALL BE LOCATED WITHIN 100 FEET (30 480 mm) OF, BUT NOT FOR LESS THAN 20 FEET (6096 mm) FROM THE FUEL DISPENSERS.

FOR INTERIOR FUEL-DISPENSING OPERATIONS, THE EMERGENCY DISCONNECT SWITCH SHALL BE INSTALLED AT AN APPROVED LOCATION, SUCH DEVICES SHALL BE DISTINCTLY LABELED AS: EMERGENCY FUEL SHUTOFF. SIGNS SHALL BE PROVIDED IN APPROVED LOCATIONS.

EMERGENCY PROCEDURE SIGN WILL BE PLACED BY EMERGENCY DISCONNECT SWITCH AND SHALL READ:

IN CASE OF FIRE, SPILL, OR RELEASE USE EMERGENCY PUMP SHUTOFF REPORT THE ACCIDENT!
 FIRE DEPARTMENT TELEPHONE NO. 9-1-1
 FACILITY ADDRESS: 1-35 FRONTAGE ROAD
 EDDY TEXAS 76524

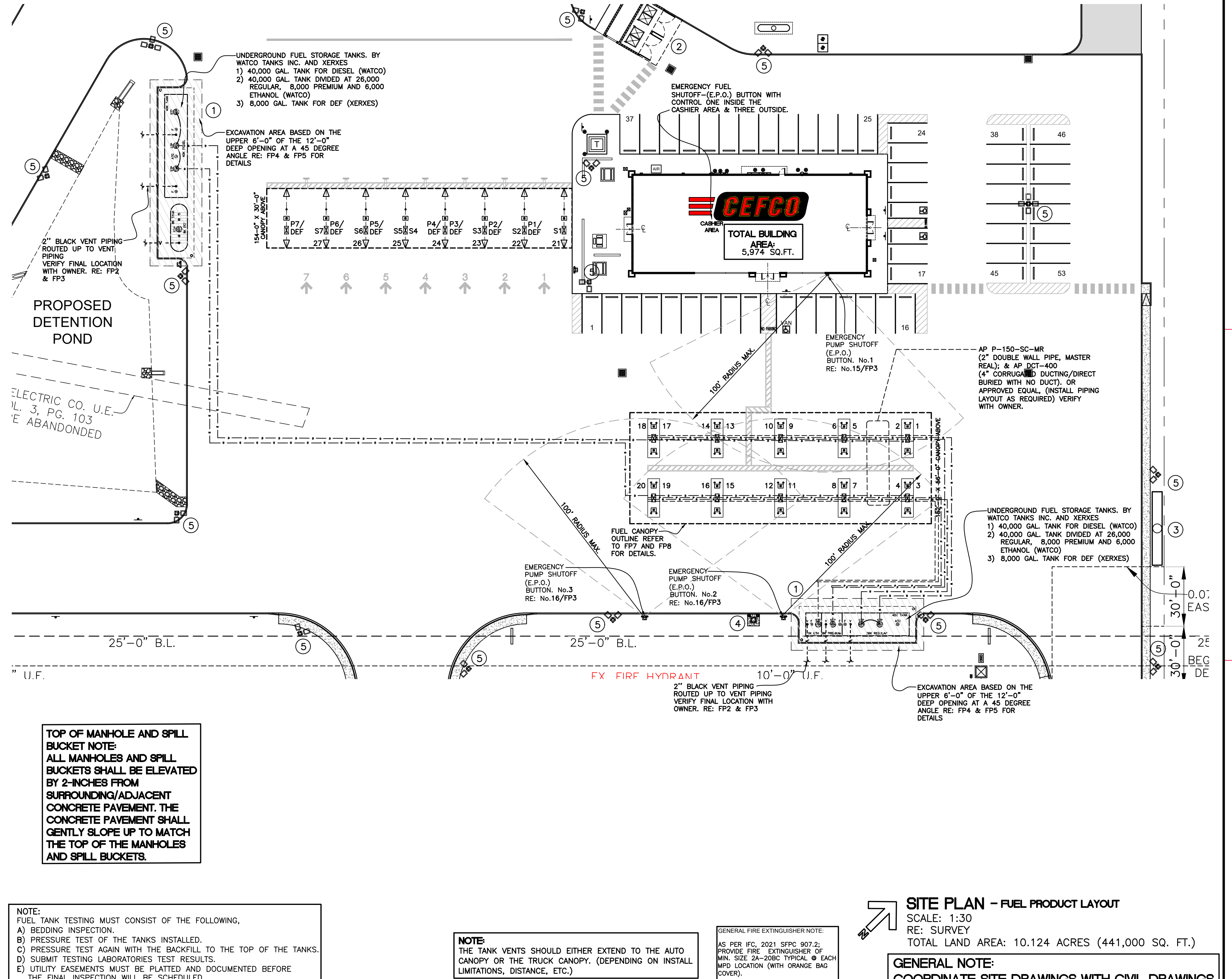
FIRE EXTINGUISHERS WITH A RATING OF 2-A-20-B-C SHALL BE REQUIRED AND INSTALLED IN A MANNER TO PROVIDE ONE WITHIN 75 FT. OF EACH MOTOR FUEL DISPENSING PUMP.



INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281 - 398 - 2020

PROJECT NUMBER
 CEF22-FP1.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
FIKES WHOLESALE, INC.



TOP OF MANHOLE AND SPILL BUCKET NOTE:
 ALL MANHOLES AND SPILL BUCKETS SHALL BE ELEVATED BY 2-INCHES FROM SURROUNDING/ADJACENT CONCRETE PAVEMENT. THE CONCRETE PAVEMENT SHALL GENTLY SLOPE UP TO MATCH THE TOP OF THE MANHOLES AND SPILL BUCKETS.

NOTE:
 FUEL TANK TESTING MUST CONSIST OF THE FOLLOWING.
 A) BEDDING INSPECTION.
 B) PRESSURE TEST OF THE TANKS INSTALLED.
 C) PRESSURE TEST AGAIN WITH THE BACKFILL TO THE TOP OF THE TANKS.
 D) SUBMIT TESTING LABORATORIES TEST RESULTS.
 E) UTILITY EASEMENTS MUST BE PLATTED AND DOCUMENTED BEFORE THE FINAL INSPECTION WILL BE SCHEDULED.

NOTE:
 THE TANK VENTS SHOULD EITHER EXTEND TO THE AUTO CANOPY OR THE TRUCK CANOPY. (DEPENDING ON INSTALL LIMITATIONS, DISTANCE, ETC.)

GENERAL FIRE EXTINGUISHER NOTE:
 AS PER IFC, 2021 SFC 907.2, PROVIDE FIRE EXTINGUISHER OF MIN. SIZE 2A-20BC TYPICAL @ EACH MPD LOCATION (WITH ORANGE BAG COVER).

SITE PLAN - FUEL PRODUCT LAYOUT
 SCALE: 1:30
 RE: SURVEY
 TOTAL LAND AREA: 10.124 ACRES (441,000 SQ. FT.)

GENERAL NOTE:
 COORDINATE SITE DRAWINGS WITH CIVIL DRAWINGS.

PROFESSIONAL SEAL
 REGISTERED ARCHITECT
 MARCEL CAD
 DATE SIGNED: 03-28-24
 LICENSE: EXP: 11-30-24

DRAWINGS ISSUED FOR:

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SHEET TITLE
FUEL PRODUCT LAYOUT SITE PLAN

DRAWING NUMBER
FP1

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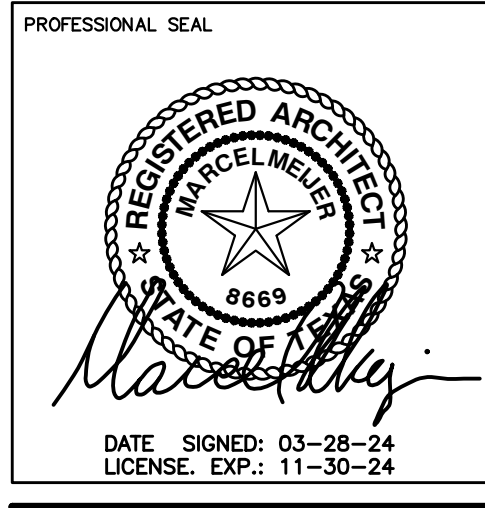
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEP22-FP2.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
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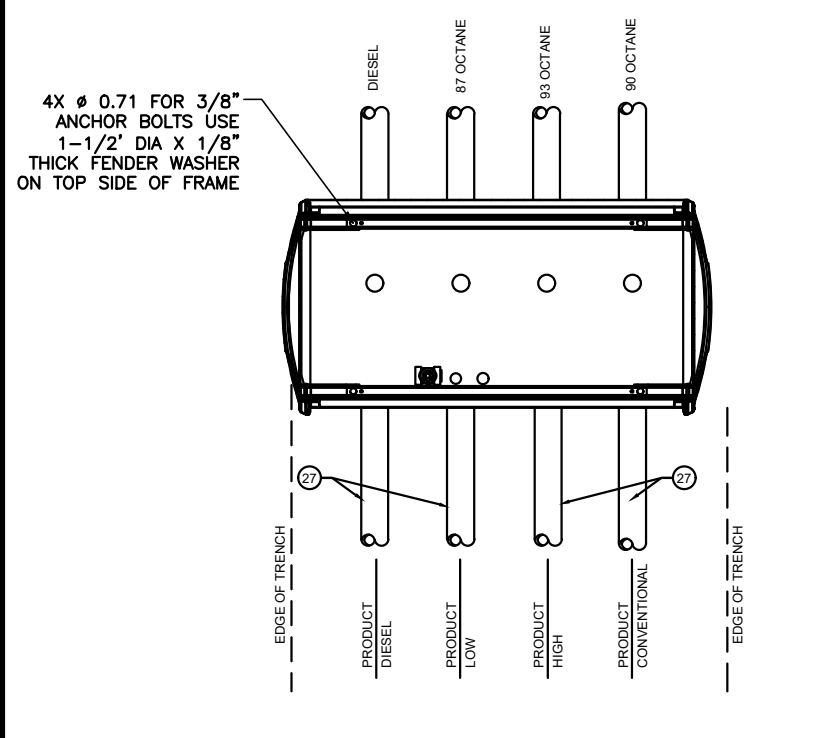
DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
PRODUCT LINE LAYOUT DETAILS

DRAWING NUMBER
FP2

SHEET NO.

- NOTES: UNLESS OTHERWISE SPECIFIED
- ALL PIPING AND ELECTRICAL INSTALLATIONS MUST CONFORM TO ALL APPLICABLE REGULATIONS INCLUDING NFPA30, FLAMMABLE & COMBUSTIBLE LIQUIDS CODE, NFPA30A, AUTOMOTIVE & MARINE SERVICE STATION CODE, NFPA70, NATIONAL ELECTRICAL CODE. DO NOT "Daisy Chain" THE DISPENSER POWER CIRCUIT TO ANY OTHER EQUIPMENT.
 - PIPING FROM TANK TO DISPENSER SHOULD SLOPE UPWARDS TO AVOID AIR OR LIQUID TRAPS.
 - USE UNIVERSAL JOINTS AT DISPENSER TO ALLOW FOR GROUND MOVEMENT.
 - FIRMLY MOUNT THE DISPENSER TO THE ISLAND USING THE ANCHOR BOLT AT LOCATIONS SHOWN.
 - EMERGENCY SHUTOFF VALVES AND BREAKAWAY DEVICES ARE EXAMPLES OF REQUIREMENTS STATED IN THE NFPA30A AUTOMOTIVE & MARINE SERVICE STATION CODE. THESE, AS WELL AS ANY OTHER SAFETY DEVICES REQUIRED BY NFPA30 & 30A, MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS.
 - CONNECT OPTIONAL INTERCOM CIRCUIT TO A LISTED CLASS 2 POWERED INTERCOM ONLY WITH 18 GAUGE MINIMUM, AT LEAST 90 DEGREE, C, 800 V GAS & OIL RESISTANT UL LISTED WIRES BACK TO INTERCOM POWER MUST BE RUN IN SEPARATE DEDICATED LISTED METALLIC CONDUIT.
 - THE COUPLING SHOULD BE TIGHTENED WITH A TORQUE OF 120 Nm AND THE SPANNER SIZE FOR THIS IS 90 mm.

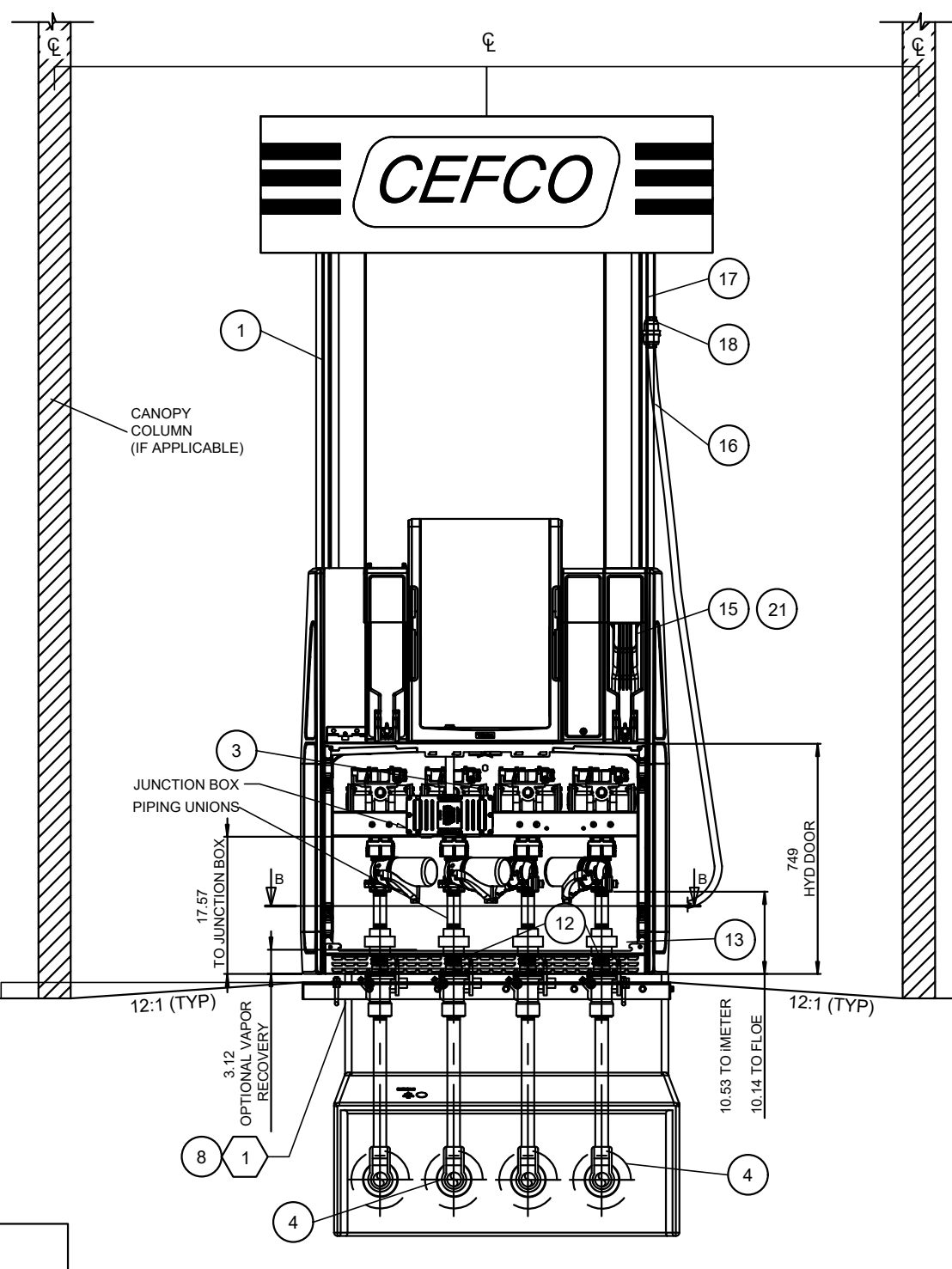


SAFETY NOTE
WHEN DISPENSERS ARE INSTALLED AS SHOWN ON THIS DRAWING, THE REQUIREMENTS OF NFPA 30A 4-3.6 AND 4-3.7 REGARDING SHEAR SECTIONS ARE FULLY MET.

FOLLOW THE MANUFACTURERS GUIDELINES FOR INSTALLING GOODYEAR FLEX STEEL VAPOR ASSIST HOSES. VAPOR ASSIST HOSE ASSEMBLIES TO BE 45 OR 50 FT. LBS. TORQUE TO ALLOW FOR PROPER SWIVELING.

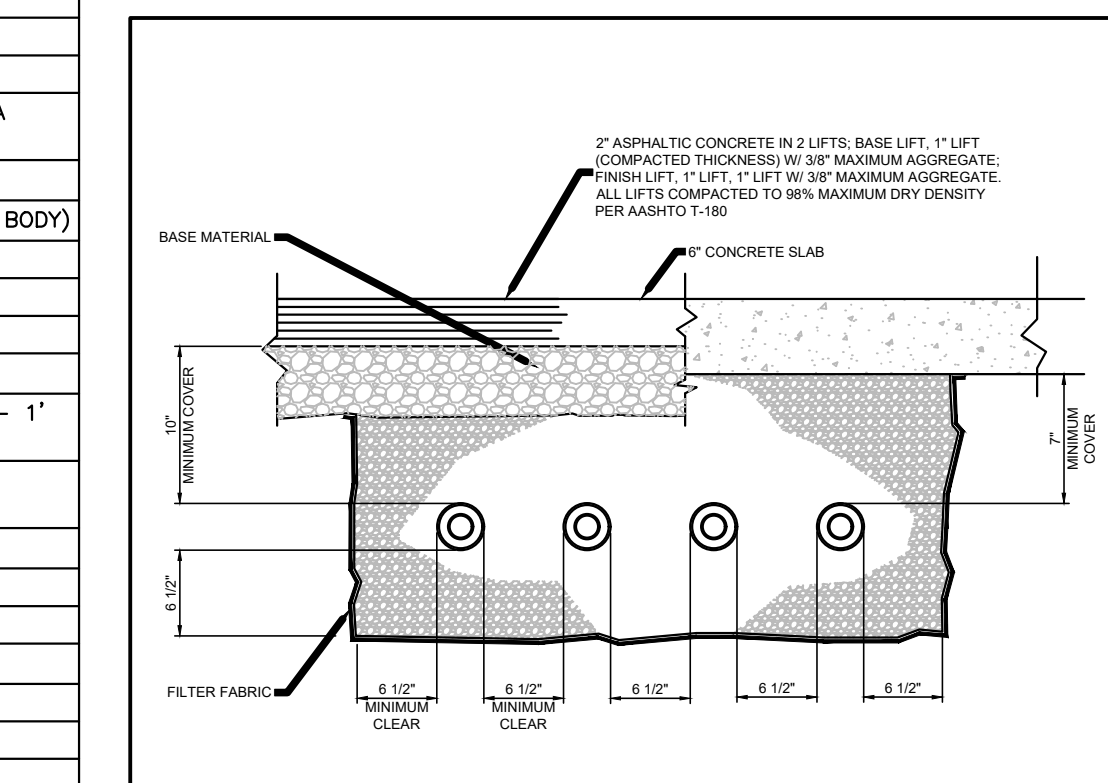
EQUIPMENT DESCRIPTION

NO.	EQUIPMENT
1	3 + 2 PRODUCT MPD
2	THREE PRODUCT MPD
3	VAPOR VAC (IF REQUIRED)
4	UPP BULKHEAD FITTINGS ARE ELECTRO-FUSED (PRODUCT PIPING)
5	"BLANK"
6	"BLANK"
7	1 1/2"x18" FxM SWIVEL FLEX CONNECTOR (PRODUCT)
8	WAYNE HELIX SUMP BOX
9	"BLANK"
10	1" FLEXIBLE ENTRY BOOTS (POWER HOME RUN, DISPENSER DATA LOOPED)
11	1" FLEXIBLE ENTRY BOOTS (INTERCOM - LOOPED)
12	1-1/2" MALE, EMERGENCY VALVE W/ DOUBLE POPPET (COMBO BODY)
13	"BLANK"
14	3" THREADED 3" WC PRESSURE VACUUM VENT CAP
15	NOZZLE - BLACK
16	3/4" HOSES - 8"-6" FLEXSTEEL VAPOR ASSIST HOSE
17	WHIP HOSE - 1" FLEXSTEEL VAPOR ASSIST HOSE, WHIP HOSE - 1" (NON-STAGE II ALT.) (OR EQUIVALENT)
18	INVERTED BREAKAWAY, BREAKAWAY (NON-STAGE II ALT.) (OR EQUIVALENT)
19	WATER INDICATING PASTE (TO BE LEFT STORE)
20	3"x2" TERMINATING REDUCER @ DISPENSERS - NO TEST POST
21	SPLATTER SHIELD, BLACK
22	3 M INTERCOM / WIRED TO MPD SPEAKERS
23	JUNCTION BOX
24	SEAL OFF
25	BOLLARD
26	"BLANK"
27	2" DOUBLEWALL UPP ELECTRO PRODUCT PIPE
28	3"x3"x2" UPP ELECTRO TEE
29	SECONDARY CONTAINMENT FITTING
30	3" FRP 90° FITTING
31	COAXIAL FIBERGLASS PIPE

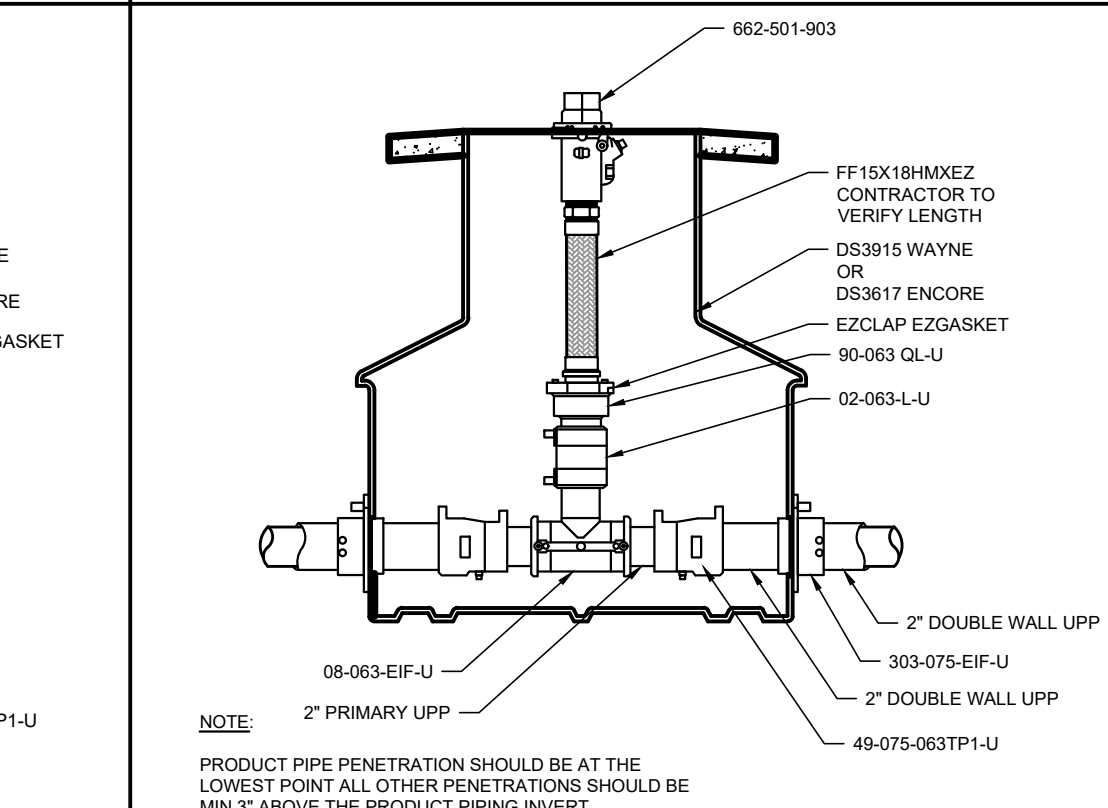


20 TYPICAL DISPENSER W/ FRANKLIN POLY SUMP

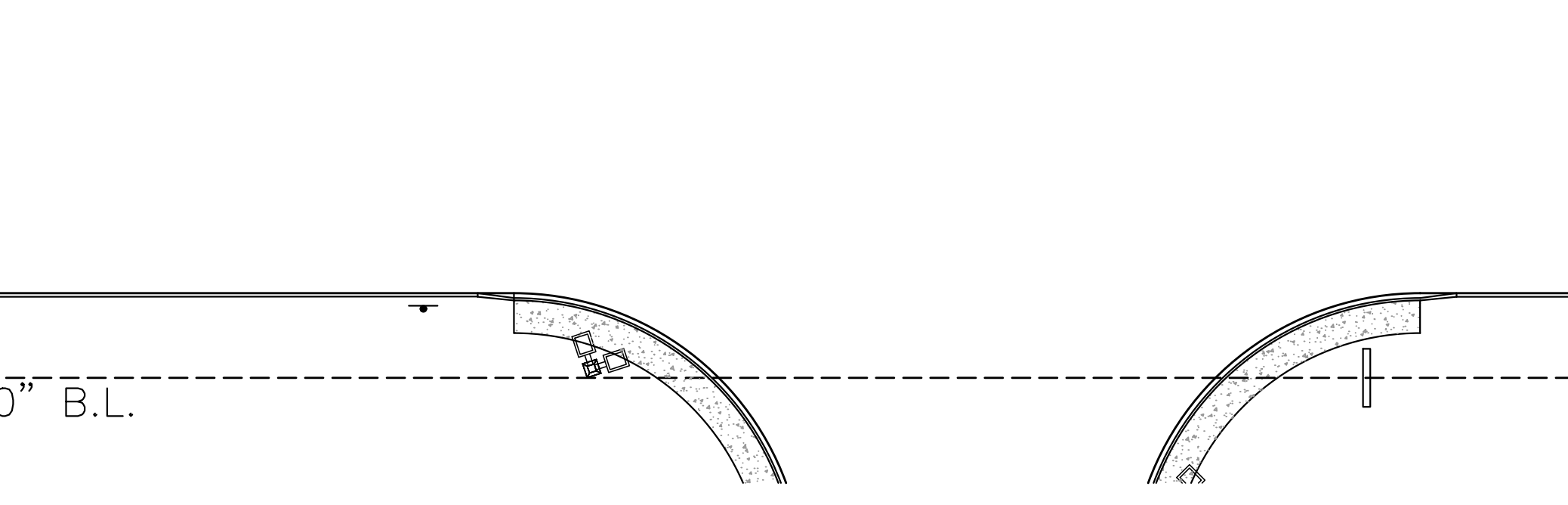
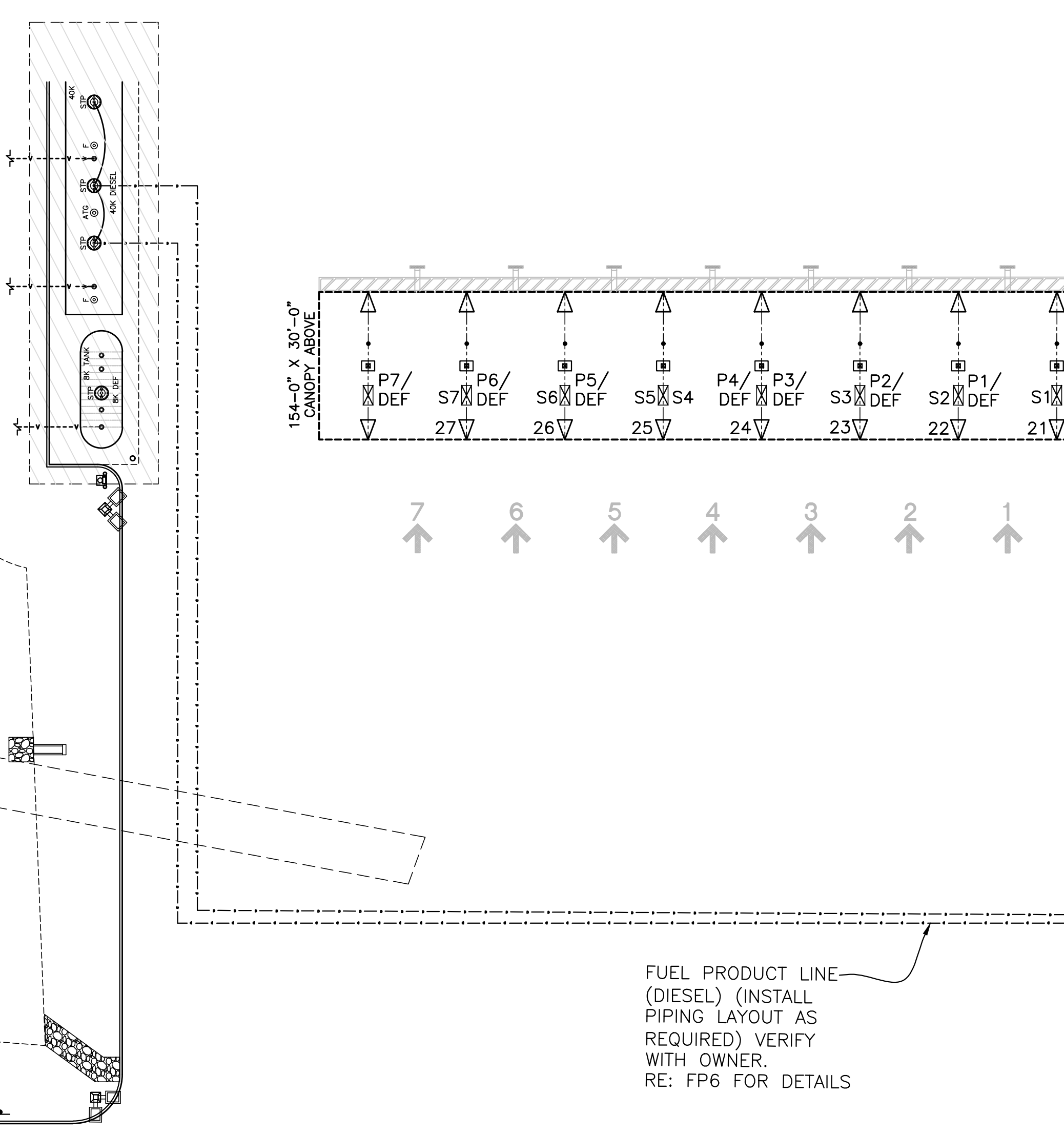
NOTES:
GAS PUMP DISCONNECT NEUTRAL
CIRCUIT DISCONNECTS: EACH CIRCUIT LEADING TO OR THROUGH A DISPENSING PUMP SHALL PROVIDE FOR THE SIMULTANEOUSLY DISCONNECTING FROM THE SOURCE OF SUPPLY ALL CONDUCTORS INCLUDING THE GROUNDED CONDUCTOR, IF ANY. NEC 514.11



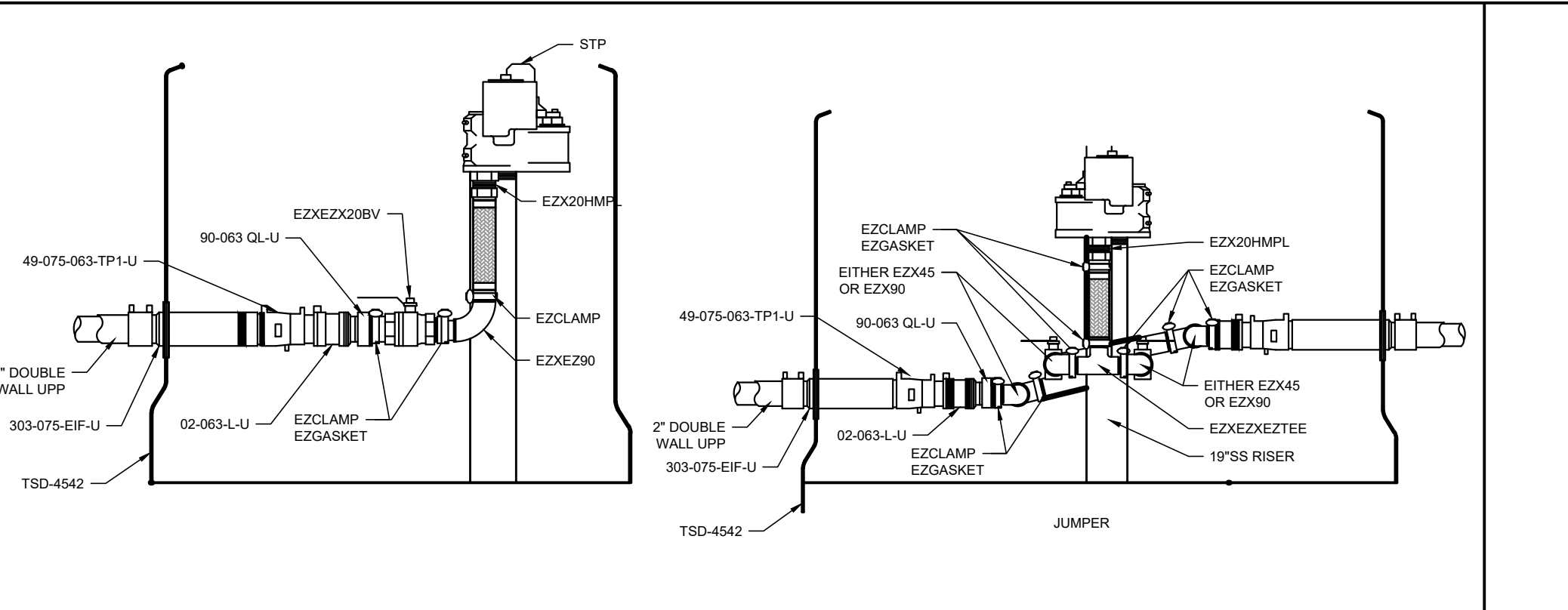
19 TYPICAL PIPING PRODUCT LINE TRENCH DETAIL



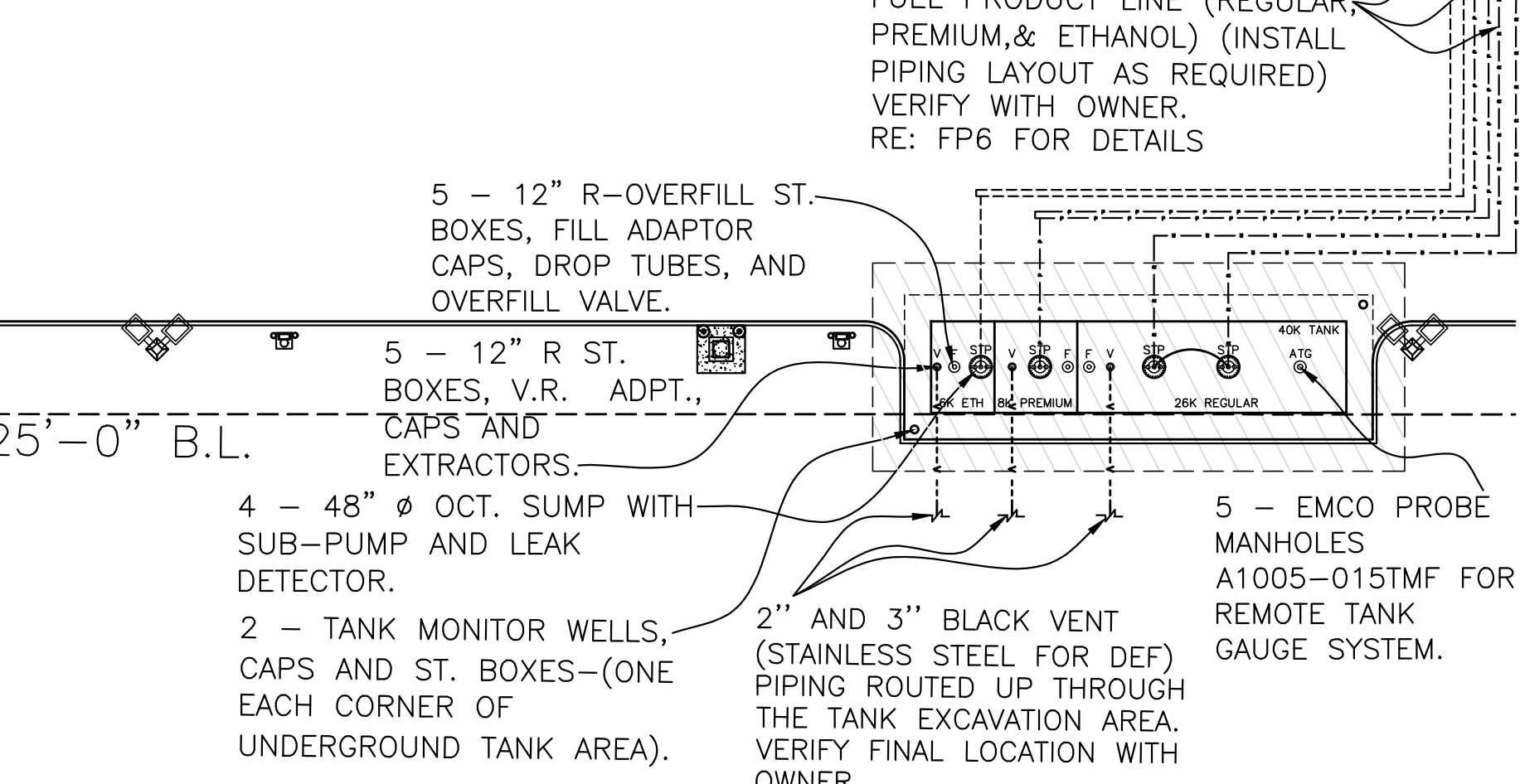
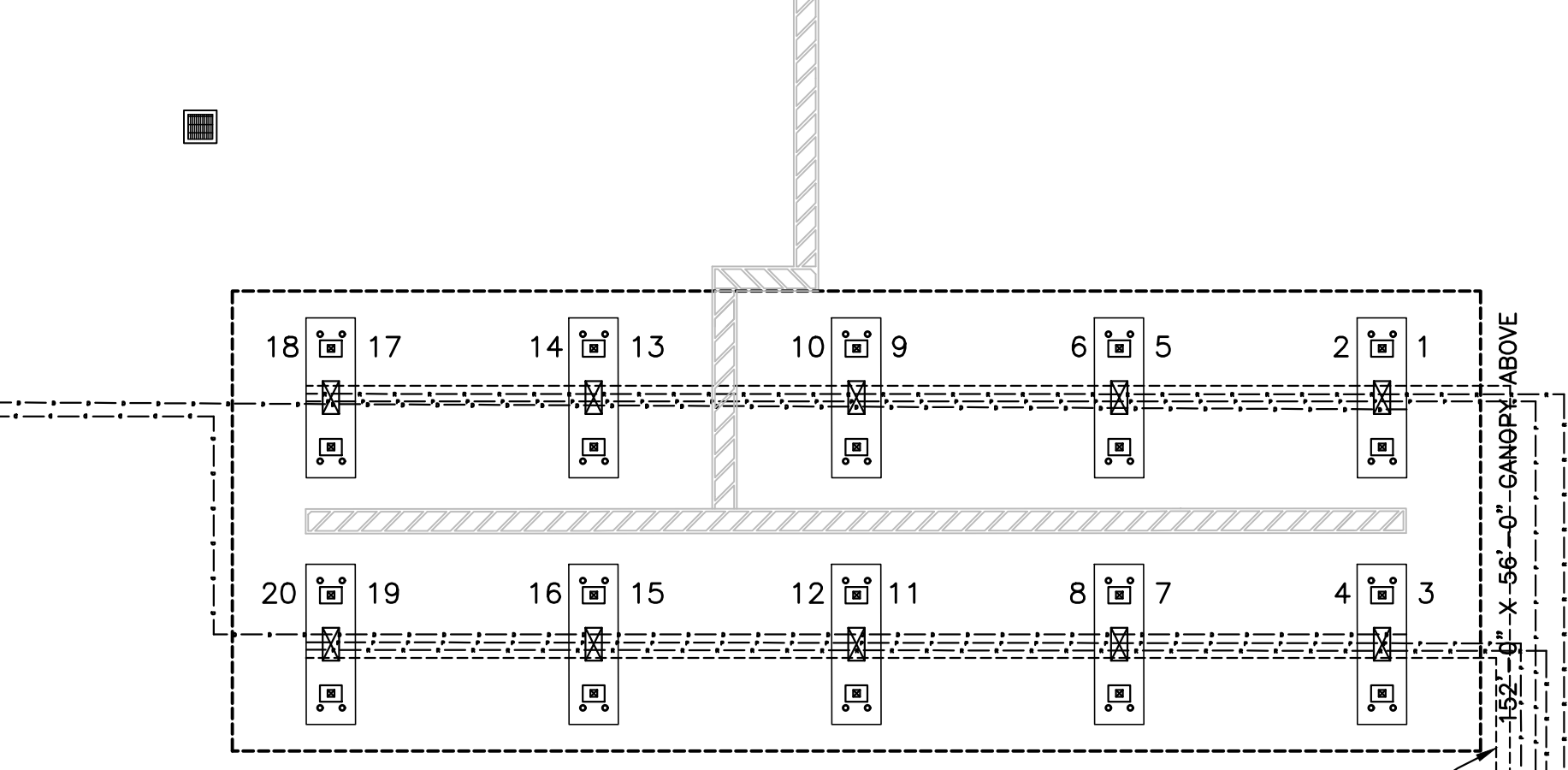
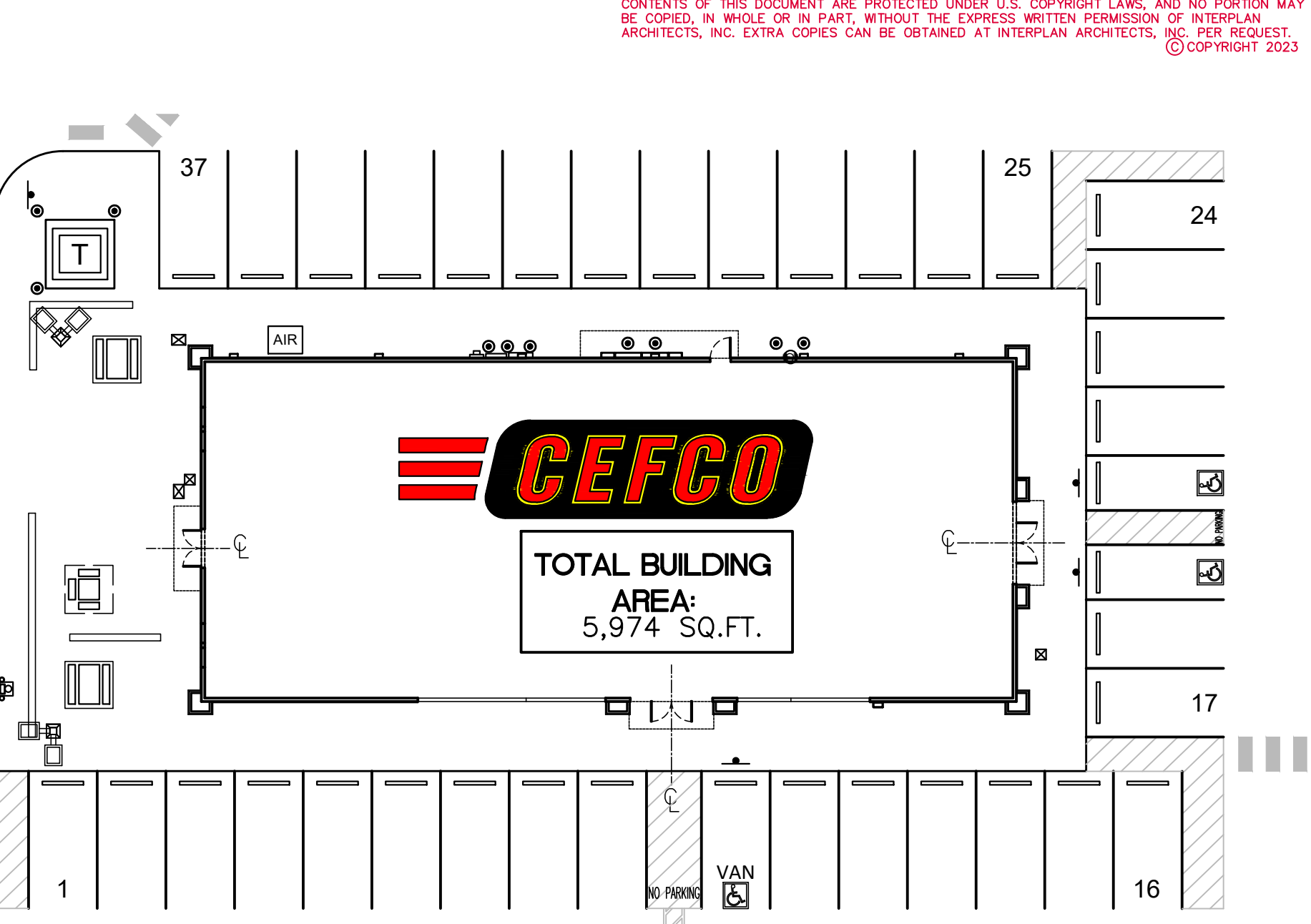
17 DISPENSER SUMP-PRODUCT PIPING SECTION LINE 'TEE' FITTING
NOT TO SCALE
RE:



13 SUBMERSIBLE PUMP PART NO. DETAIL
NOT TO SCALE
RE:



21 DISPENSER SUMP-PRODUCT PIPING SECTION LINE 'TEE' FITTING
NOT TO SCALE
RE:



ALL BACKFILL TO BE COMPACTED TO 95% S.P.D. BACKFILL AND BEDDING MATERIAL TO BE:
GRAVEL: WASHED ROUNDED PEA GRAVEL WITH A MINIMUM DIAMETER 1/4" AND A MAXIMUM DIAMETER OF 1/2".
STONE CRUSHINGS: WASHED AND FREE FLOWING WITH ANGULAR PARTICLE SIZE BETWEEN 1/8" AND 1/2" AND MEET ASTM C-33 PARAGRAF 9.1.

NOTE:
NO MORE THAN 3% OF BACKFILL MATERIAL SHALL PASS THROUGH A #8 SIEVE.

LINE TESTING:
GENERAL CONTRACTOR TO COMPLETE THE "INSTALLATION CHECKLIST" INCLUDED IN THE SPECIFICATIONS AND SUBMIT THE INFORMATION REQUESTED TO THE OWNER.

POST-INSTALLATION TESTING:
ISOLATE LINES FROM UNDERGROUND STORAGE TANKS. PRESSURIZE LINES TO A MINIMUM OF 25 P.S.I. FOR A PERIOD LONG ENOUGH TO DETERMINE THAT THERE ARE NO LEAKS AS INDICATED BY SOAP BUBBLES OR A DROP IN THE PRESSURE OF THE LINE.

DURING SITE WORK TESTING:
MAINTAIN A LINE PRESSURE OF 10 PSI IN THE PIPE DURING CONSTRUCTION OF THE REST OF THE FACILITY TO MONITOR THE INTEGRITY OF THE PIPING. CHECK GAUGES AT REGULAR INTERVALS.

POST-SITE WORK INSTALLATION TESTING:
GENERAL CONTRACTOR TO HAVE A TESTING LABORATORY PERFORM A PRECISION LINE TEST AFTER ALL PAVING AND SITE WORK HAS BEEN DONE.

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEP22-FP3.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL
REGISTERED ARCHITECT
STATE OF TEXAS
1966
Marcel Cad
DATE SIGNED: 03-28-24
LICENSE: EXP: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
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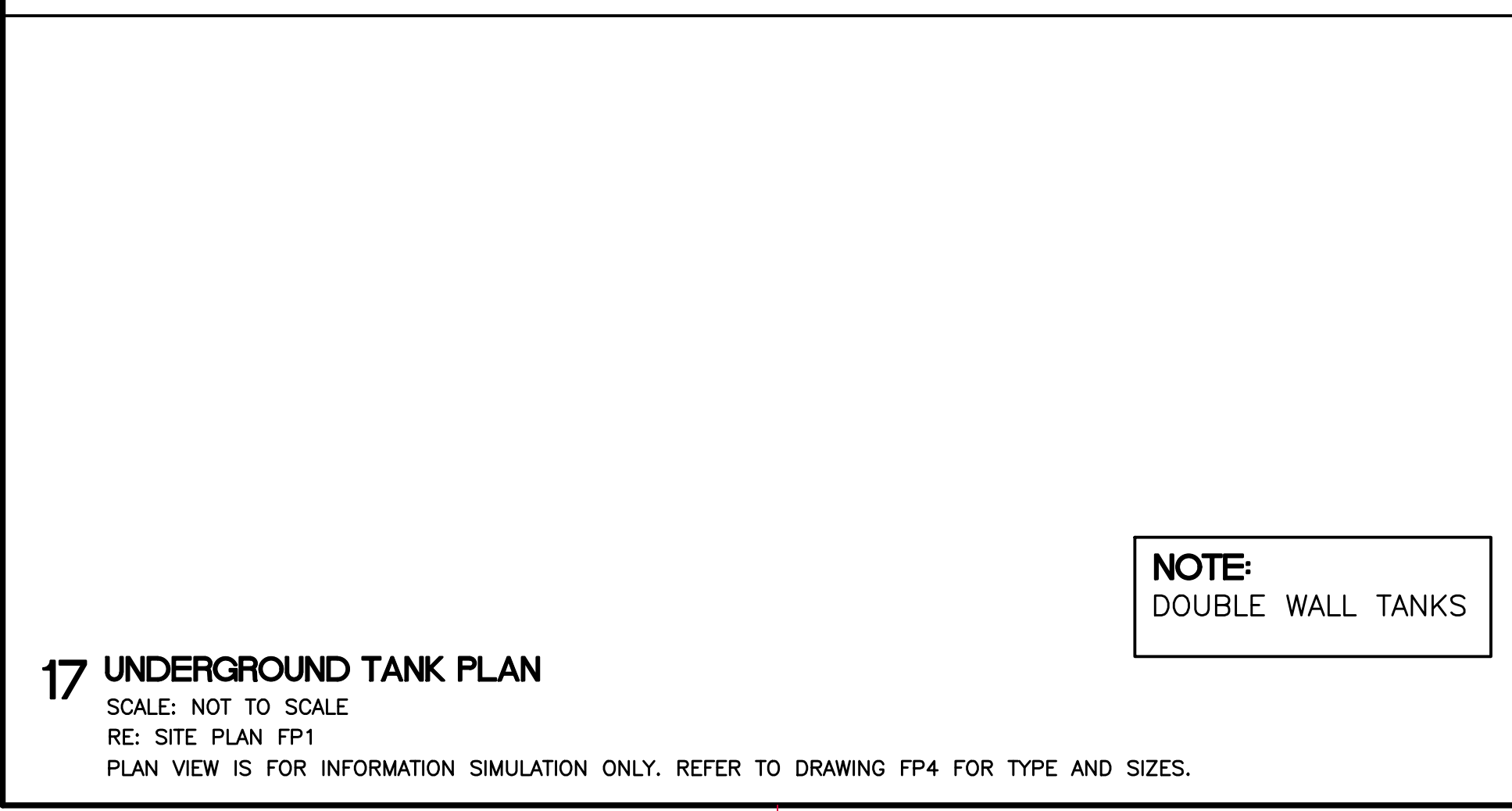
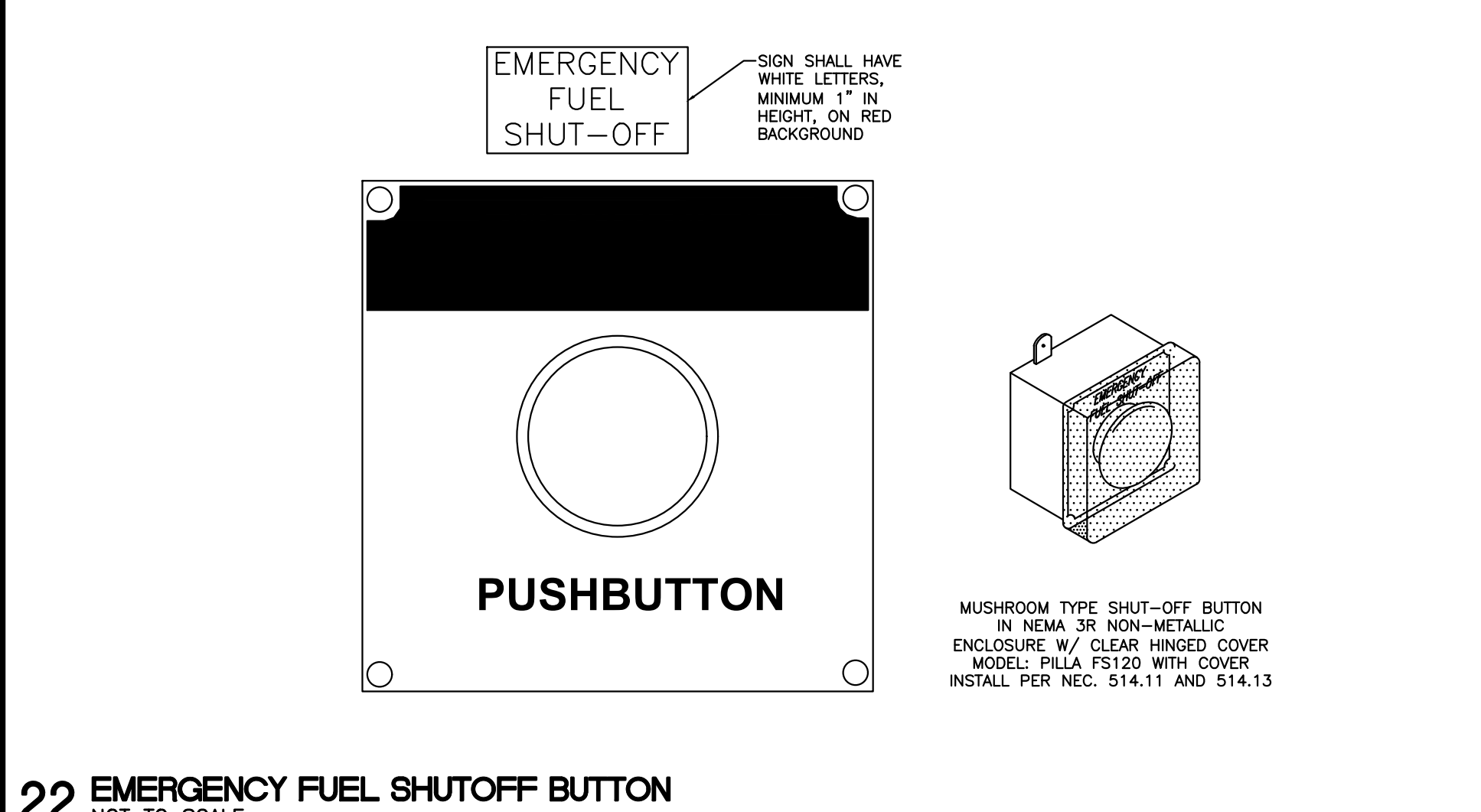
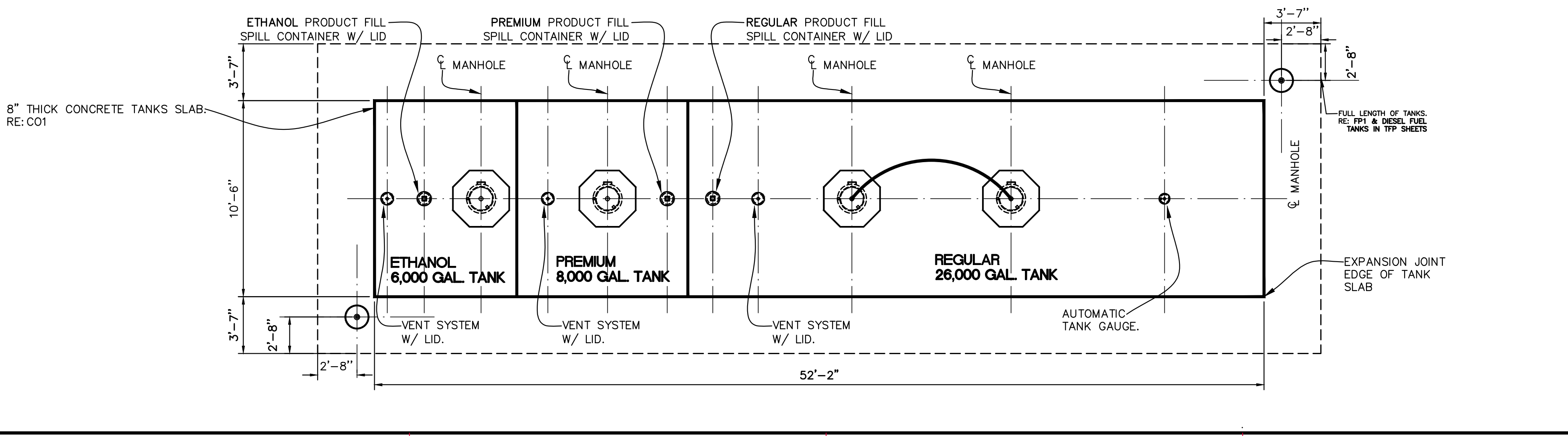
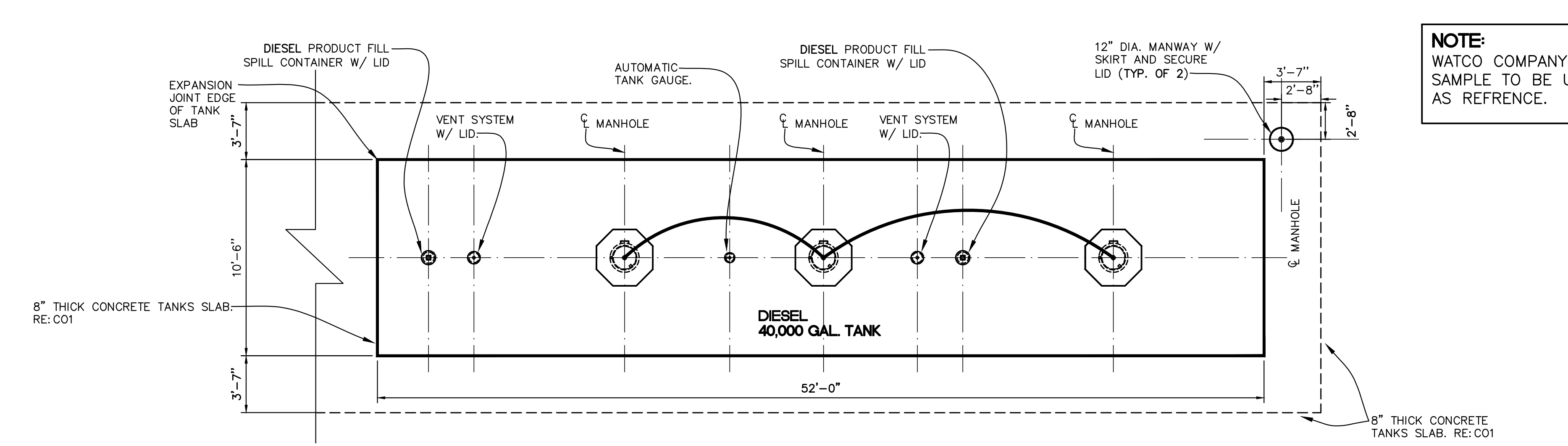
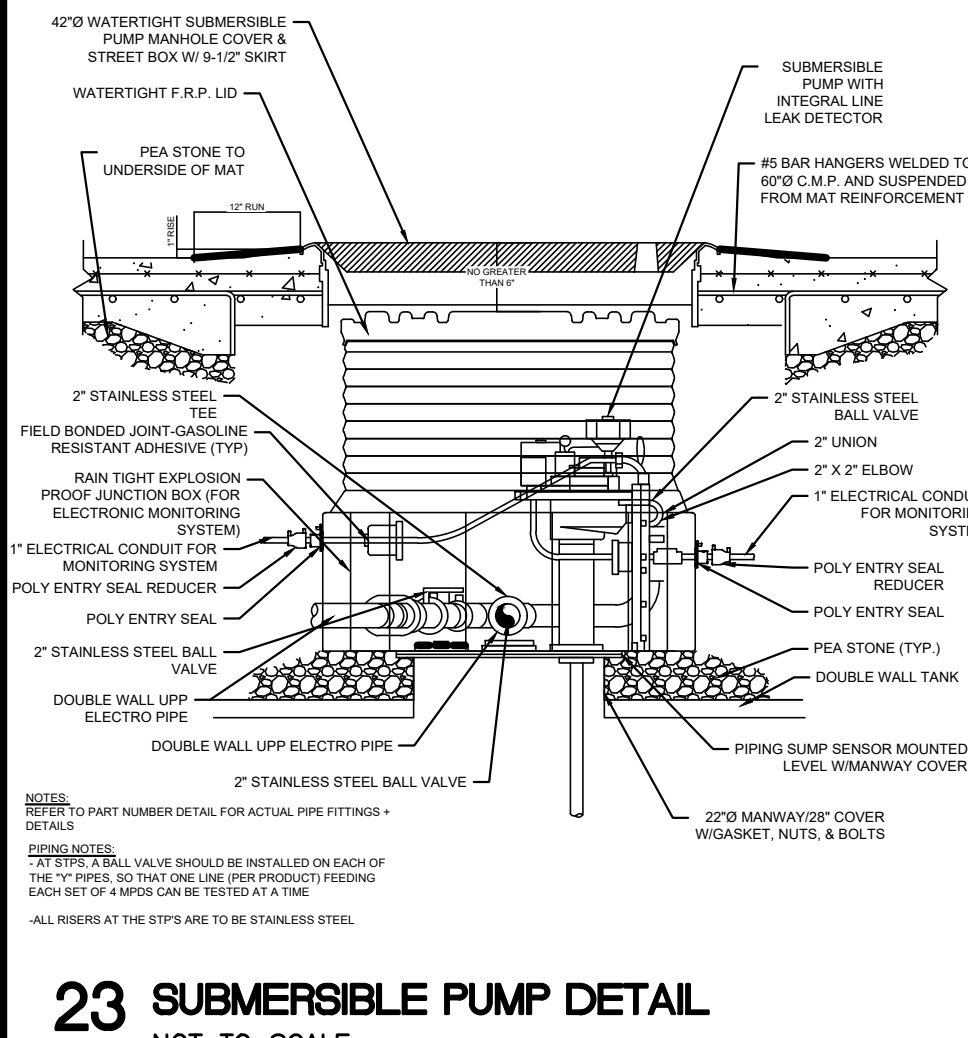
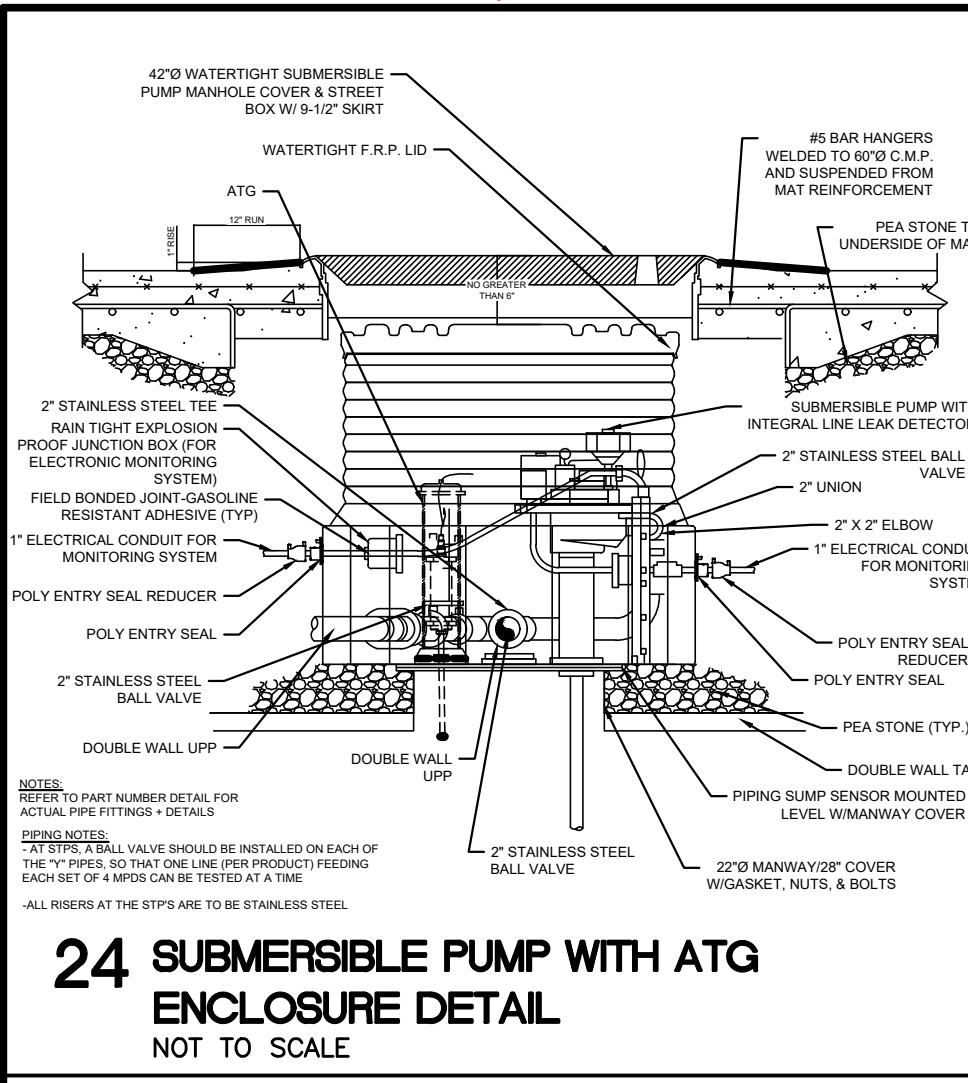
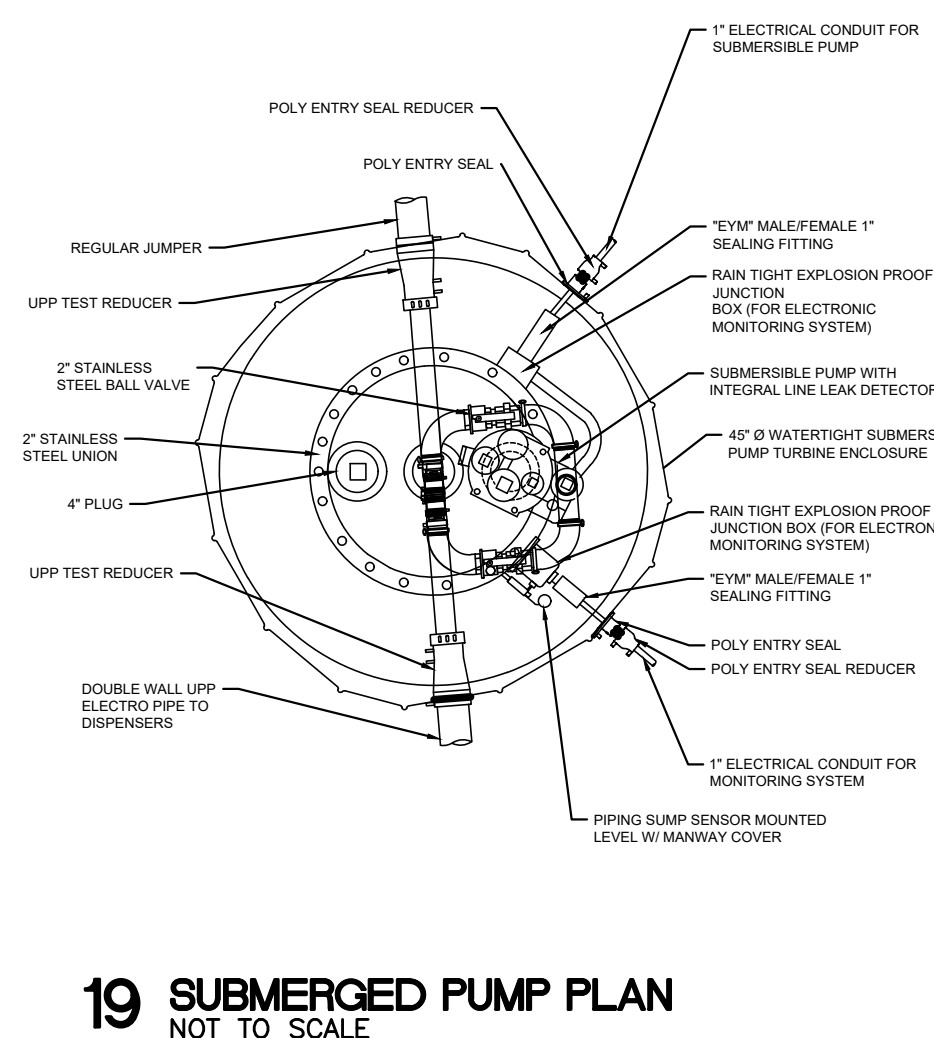
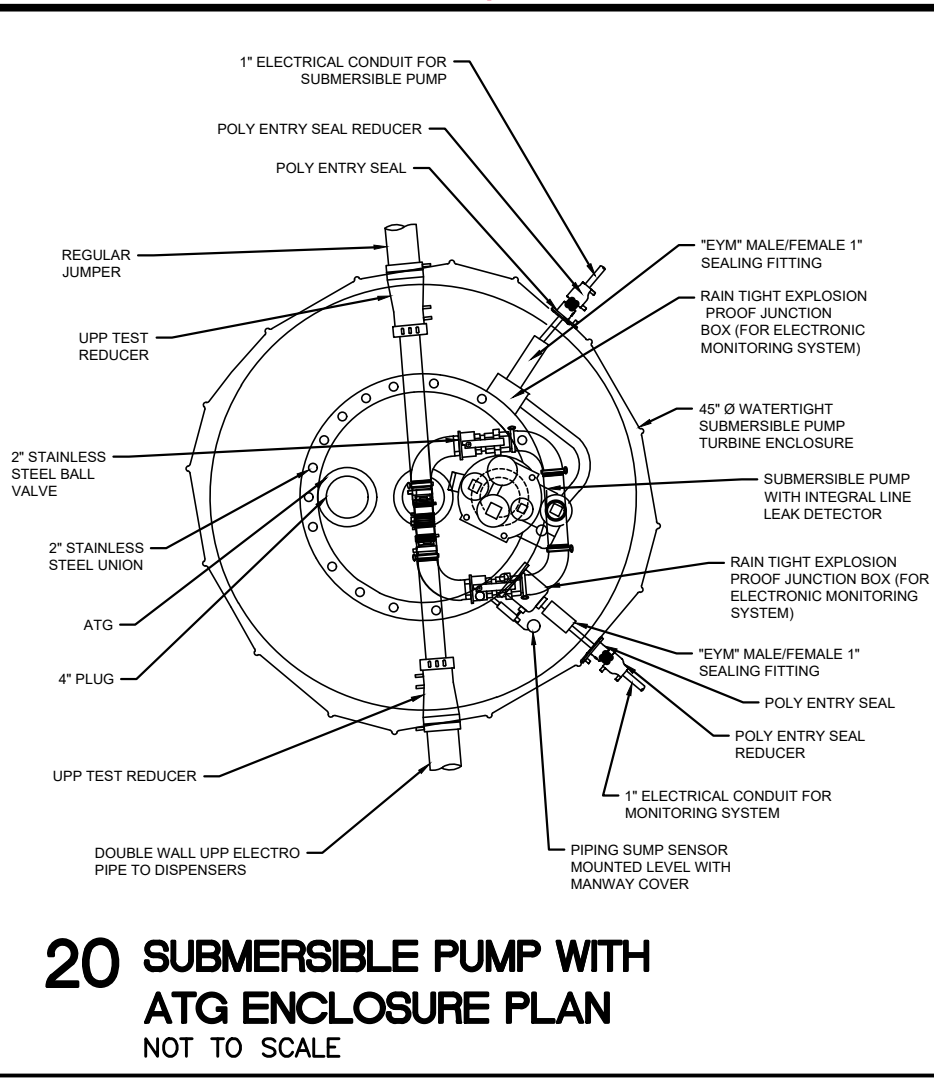
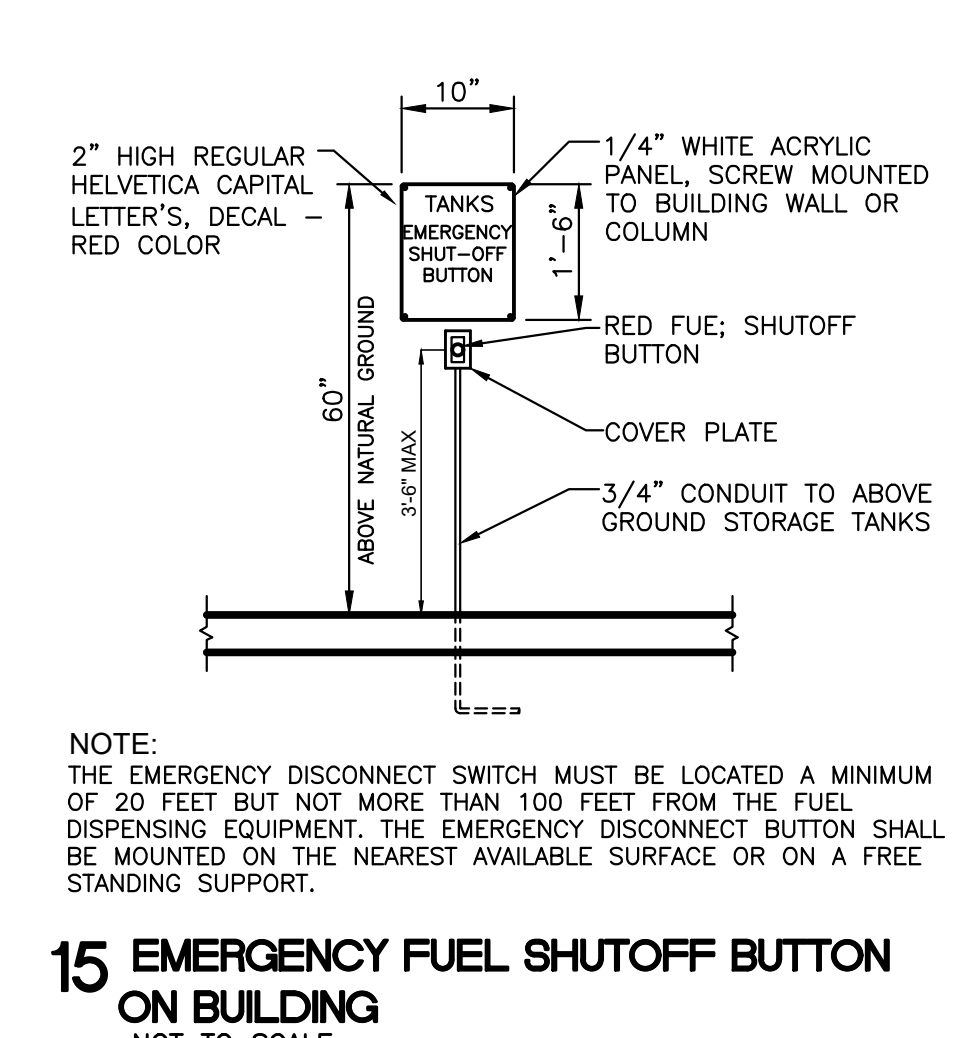
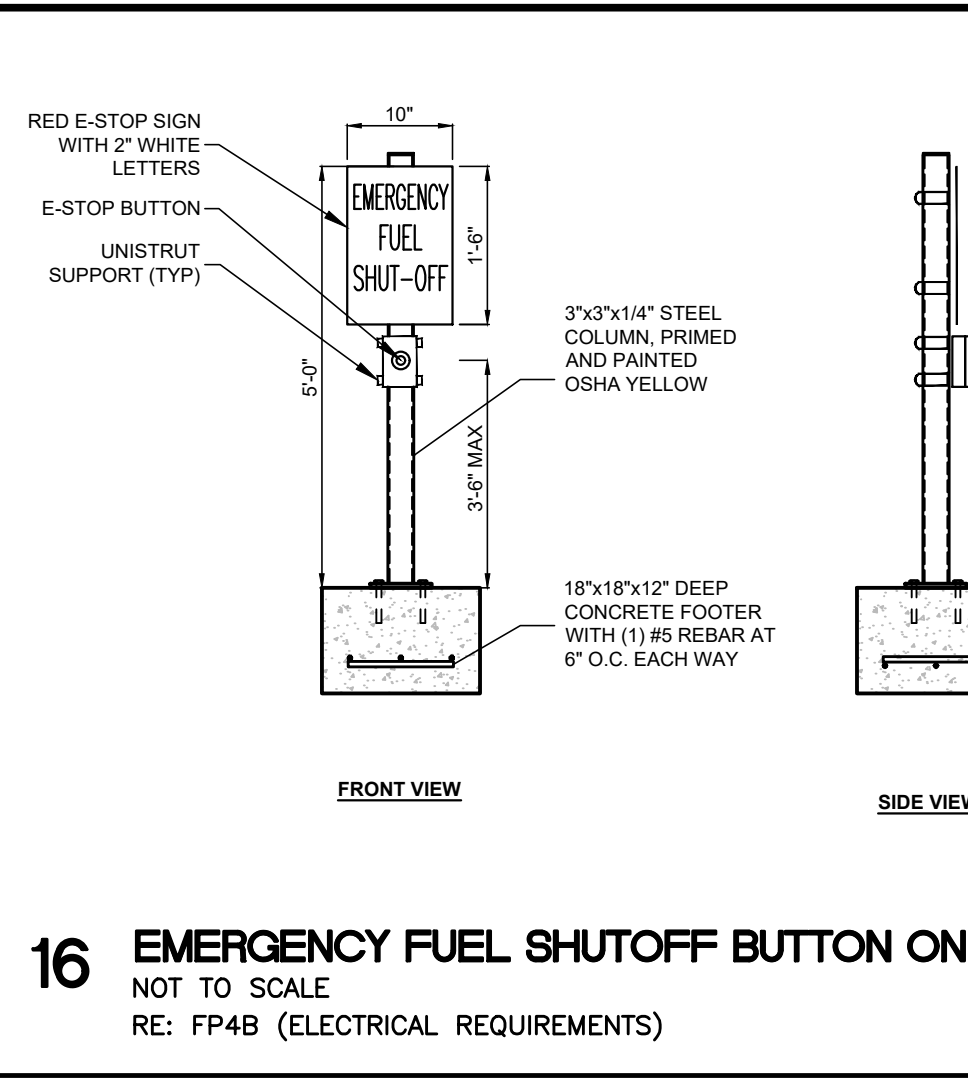
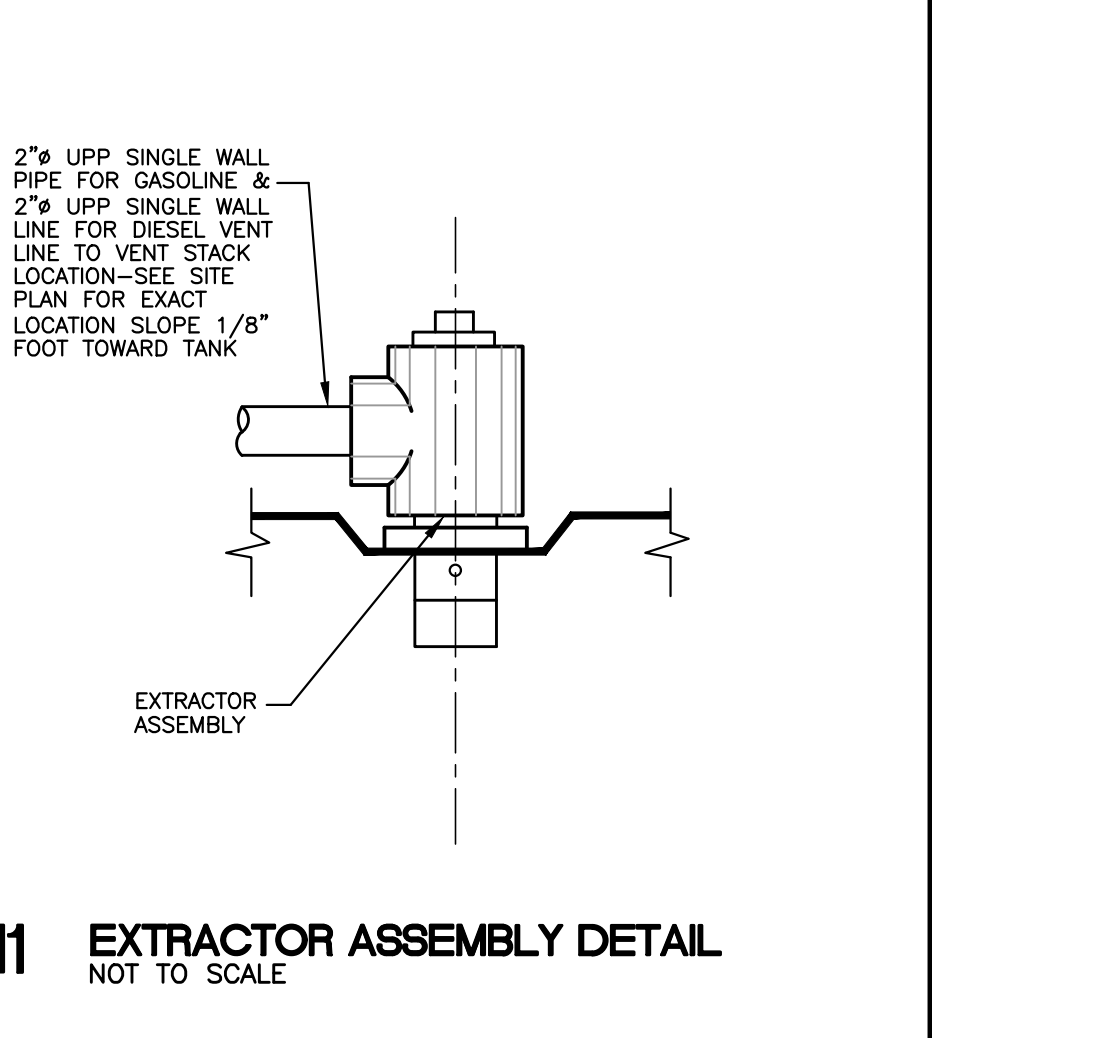
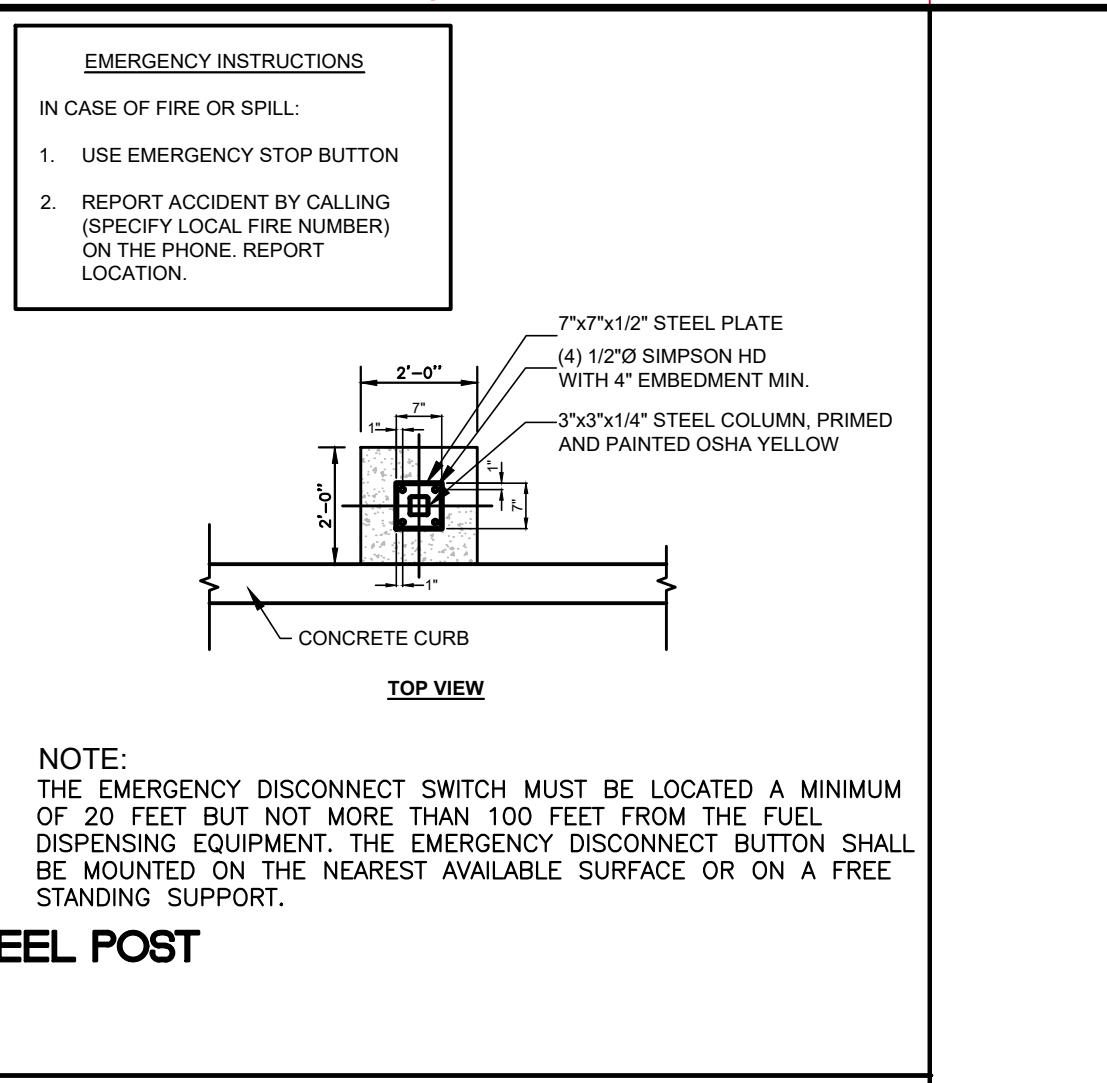
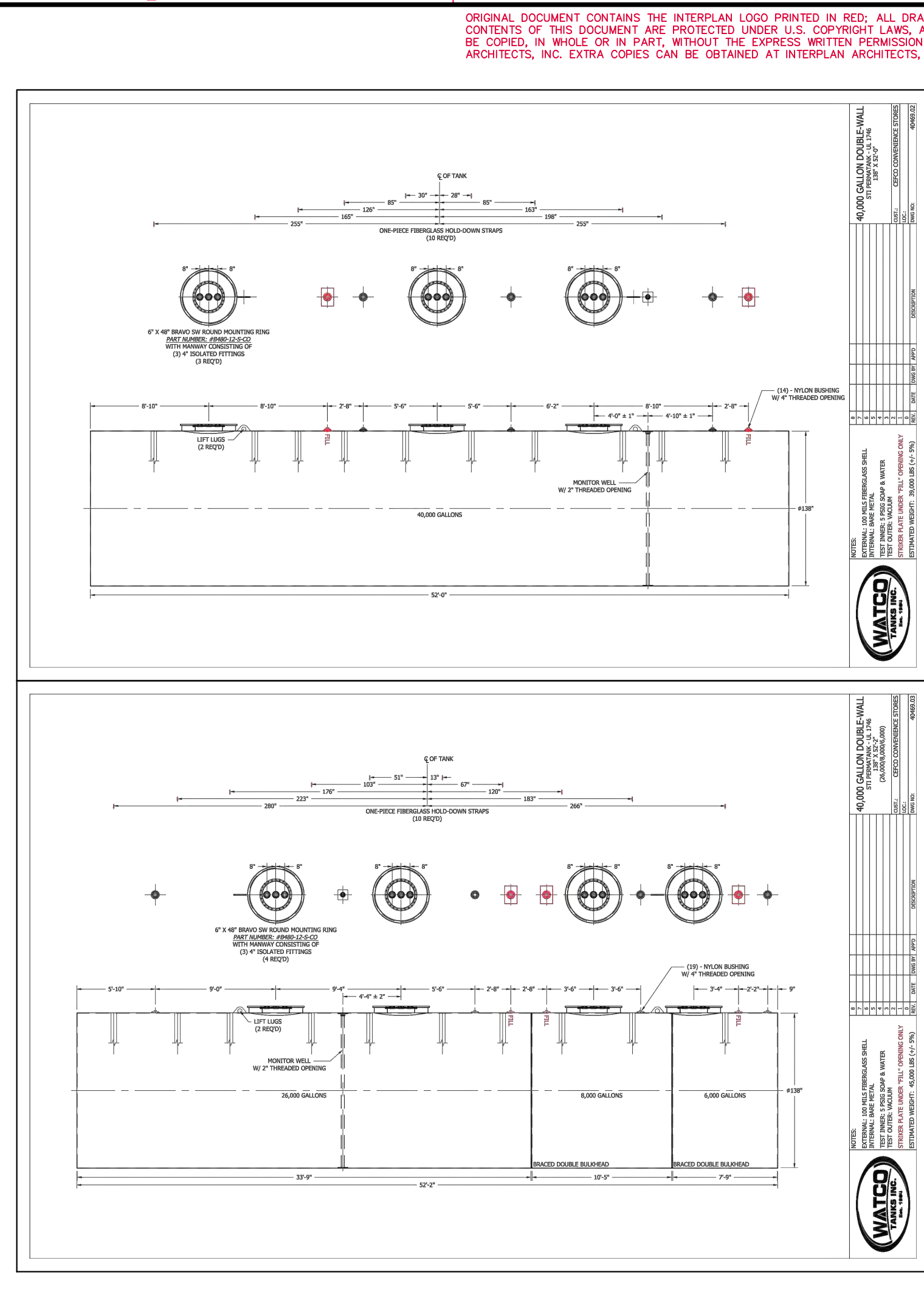
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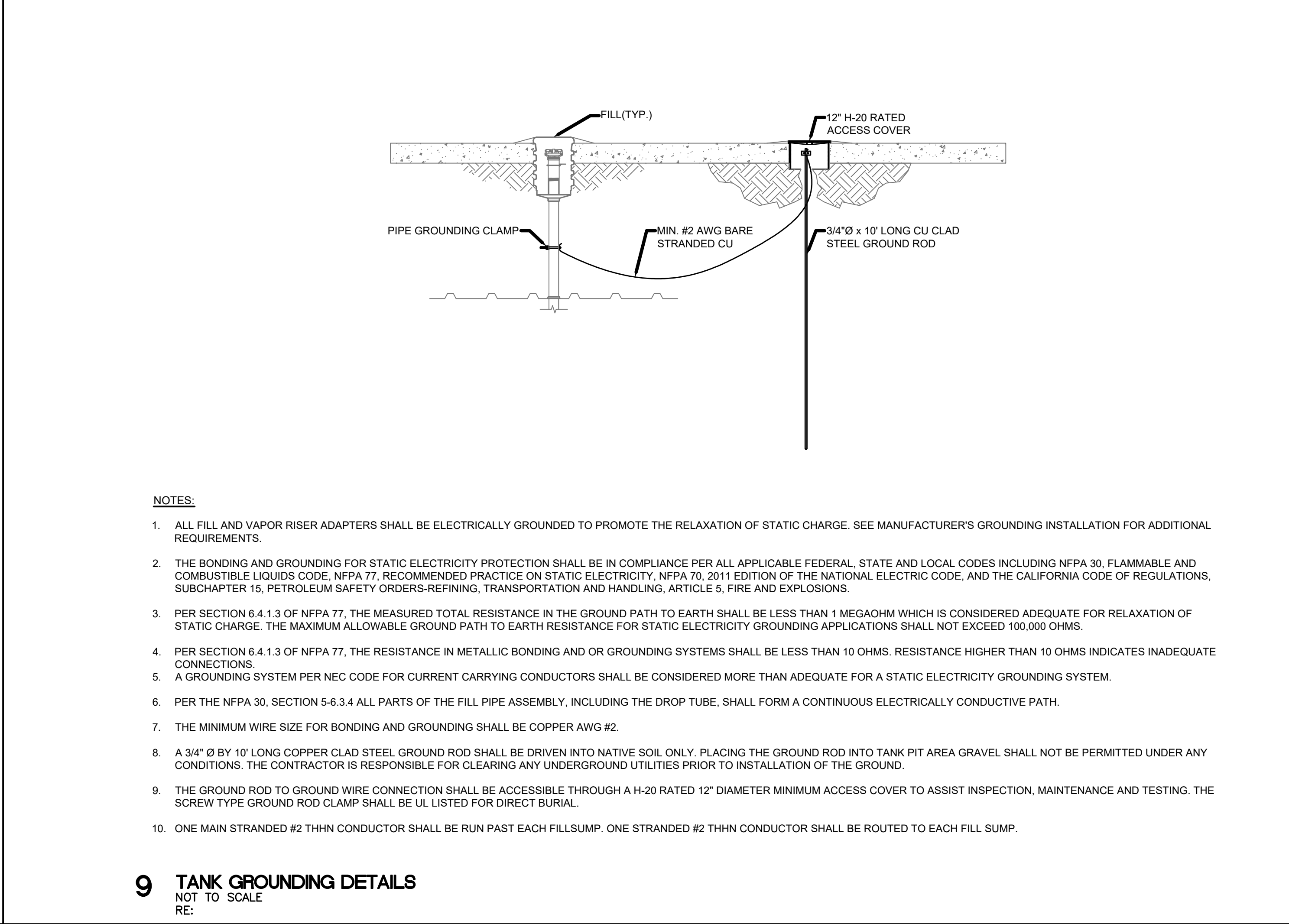
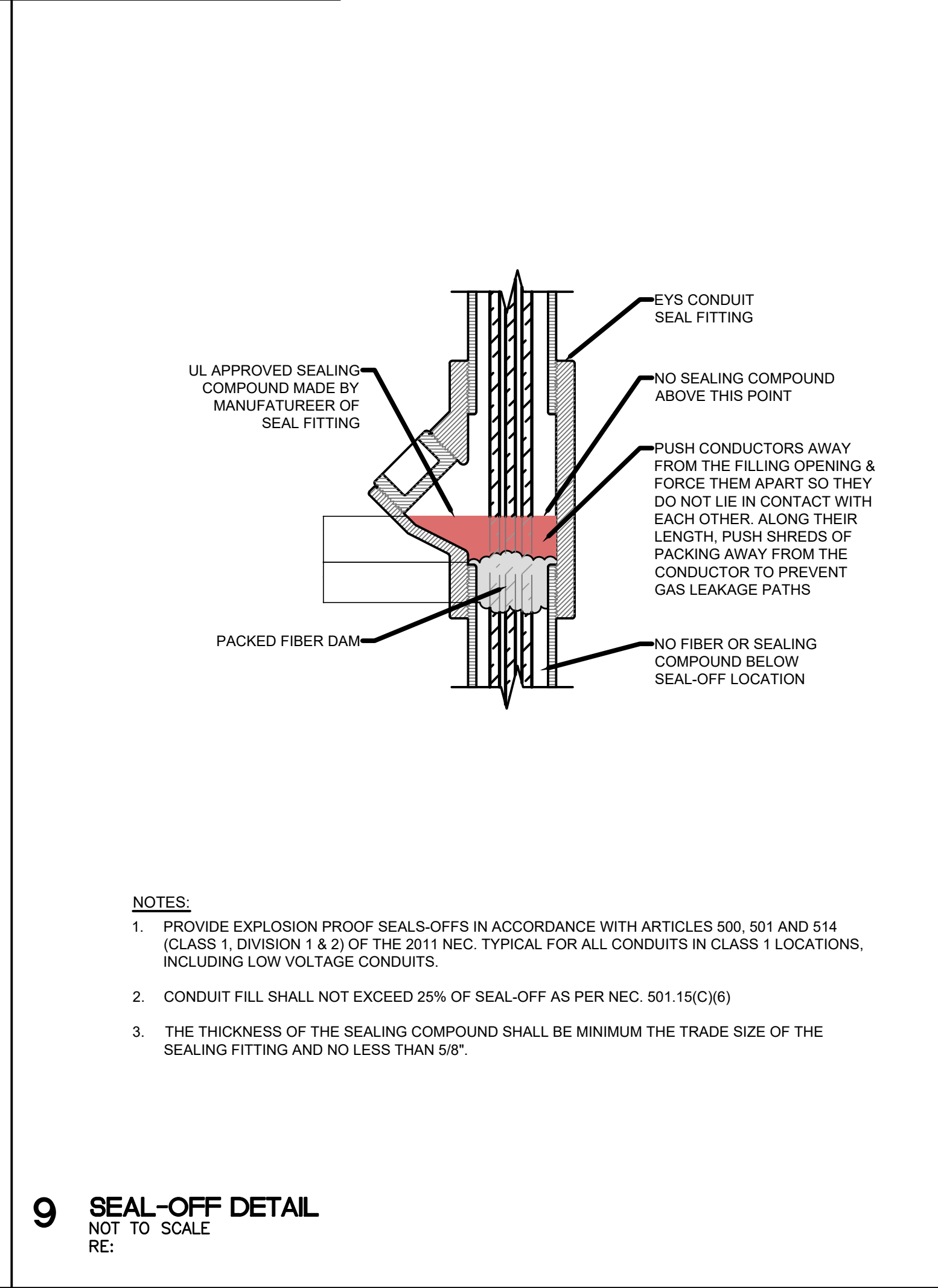
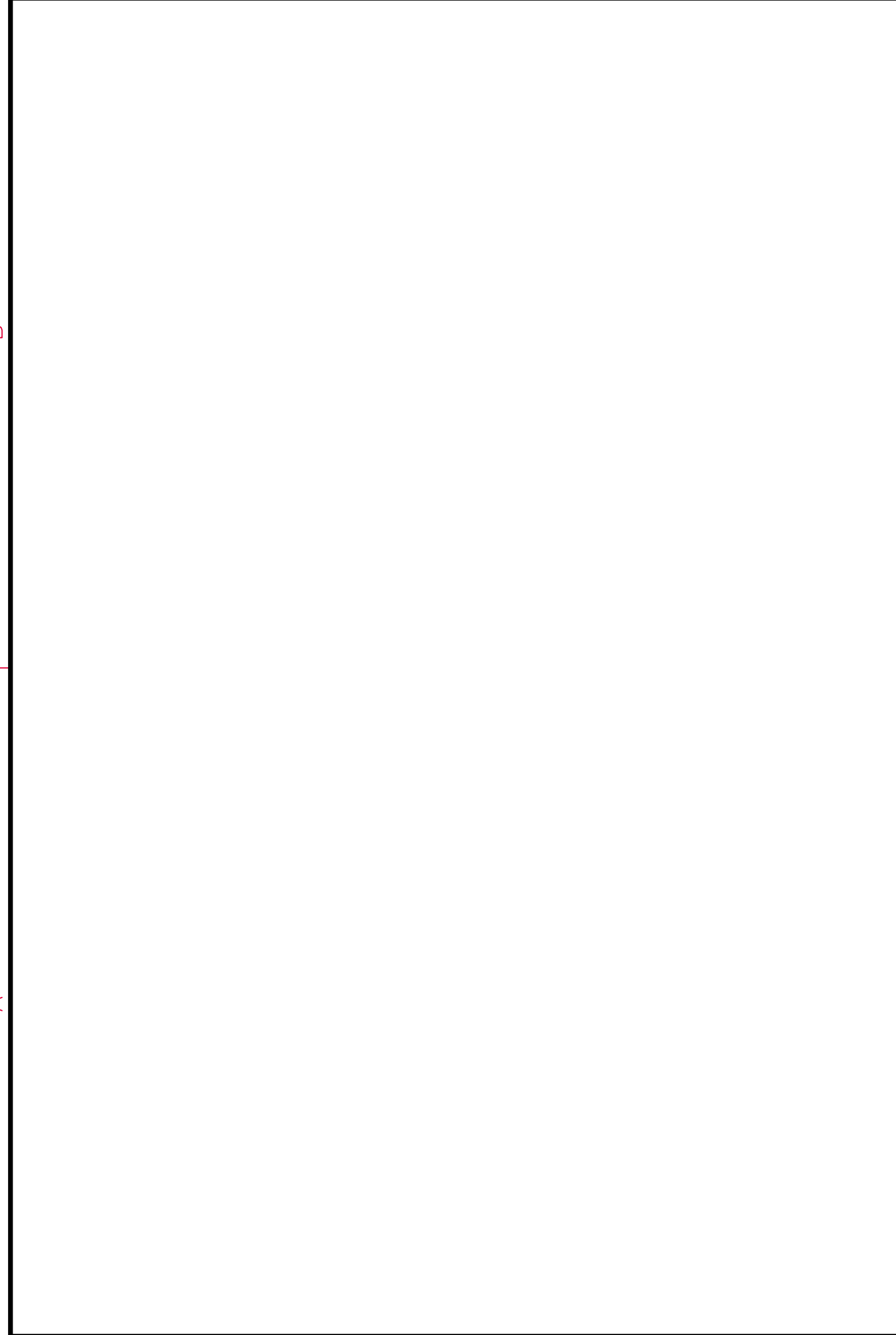
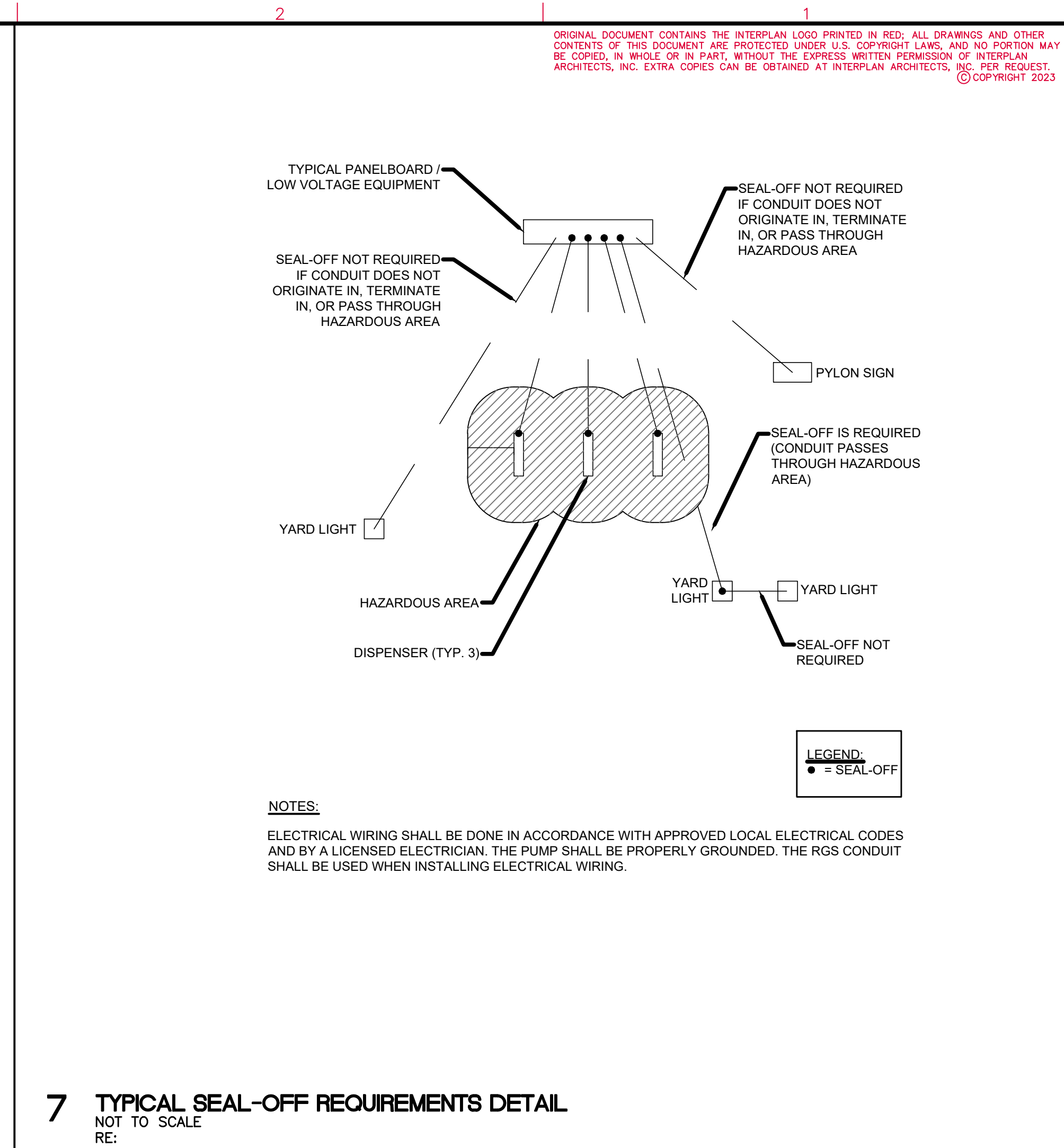
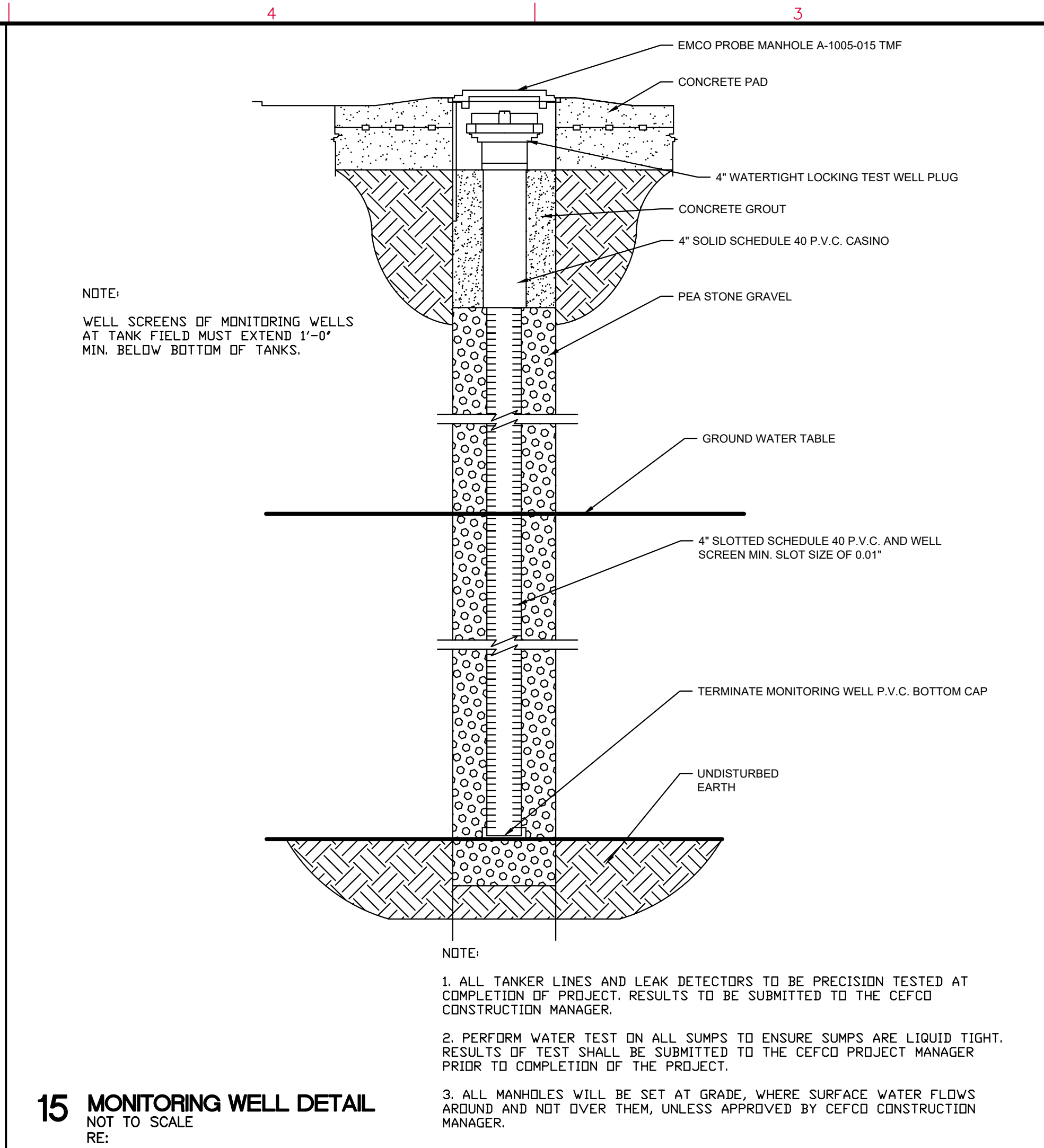
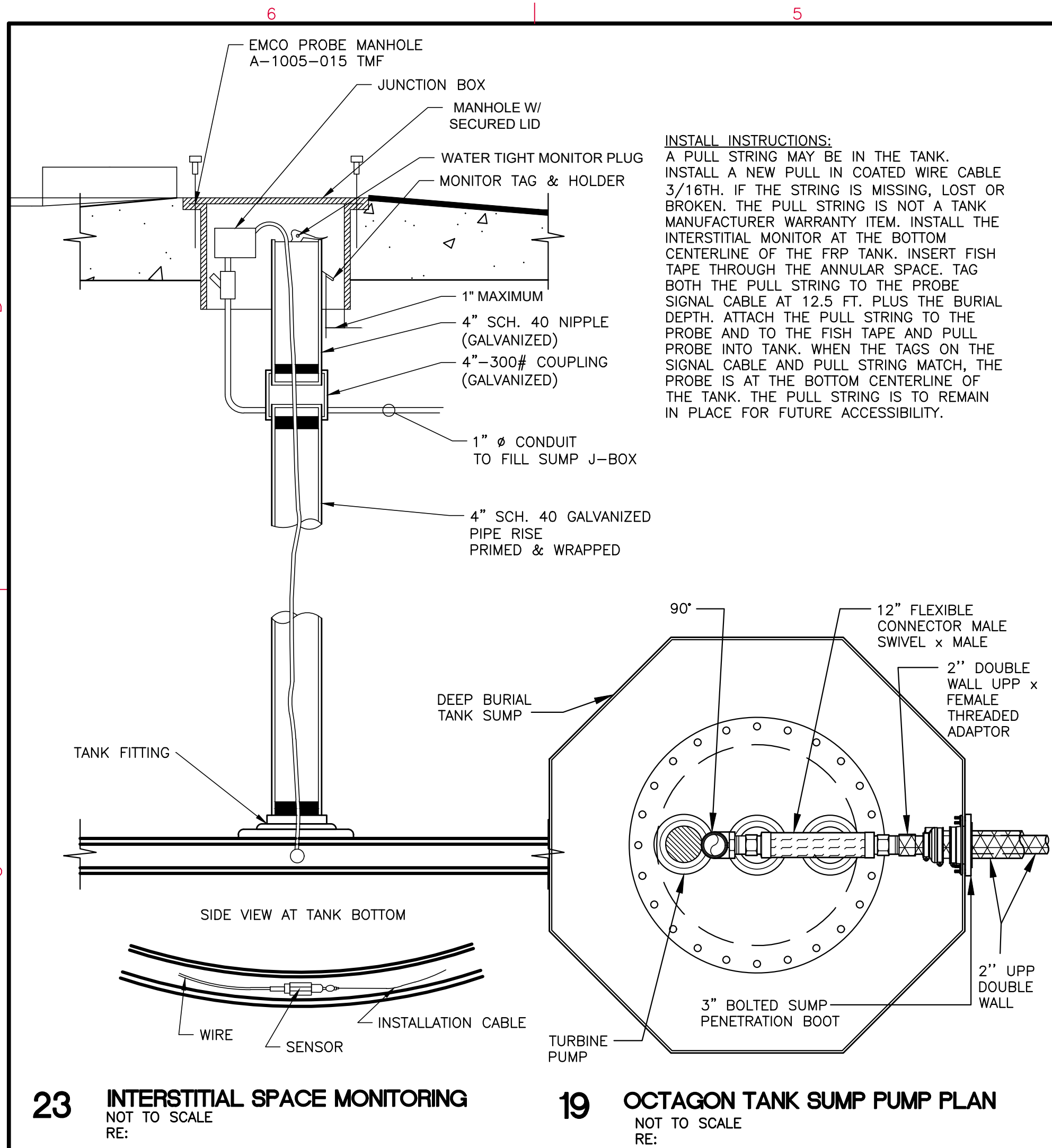
NO.	DATE	DESCRIPTION

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SHEET TITLE
FUEL PRODUCT UNDERGROUND TANK PLAN

DRAWING NUMBER
FP3





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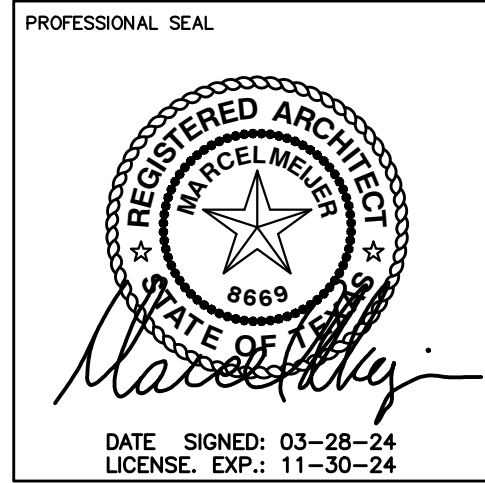
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FP4.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

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10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
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SCOPE OF THE DOCUMENT
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SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

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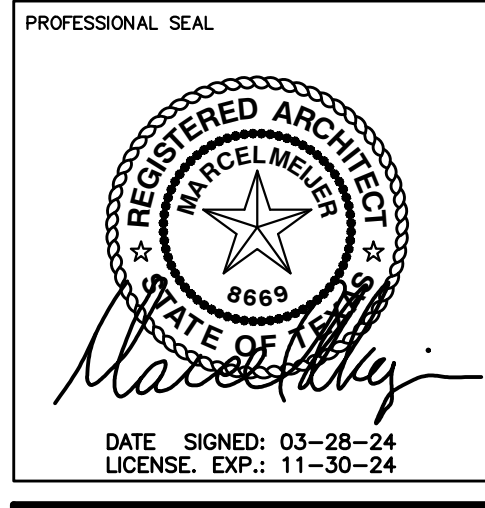


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PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEP22-FP4A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
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FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

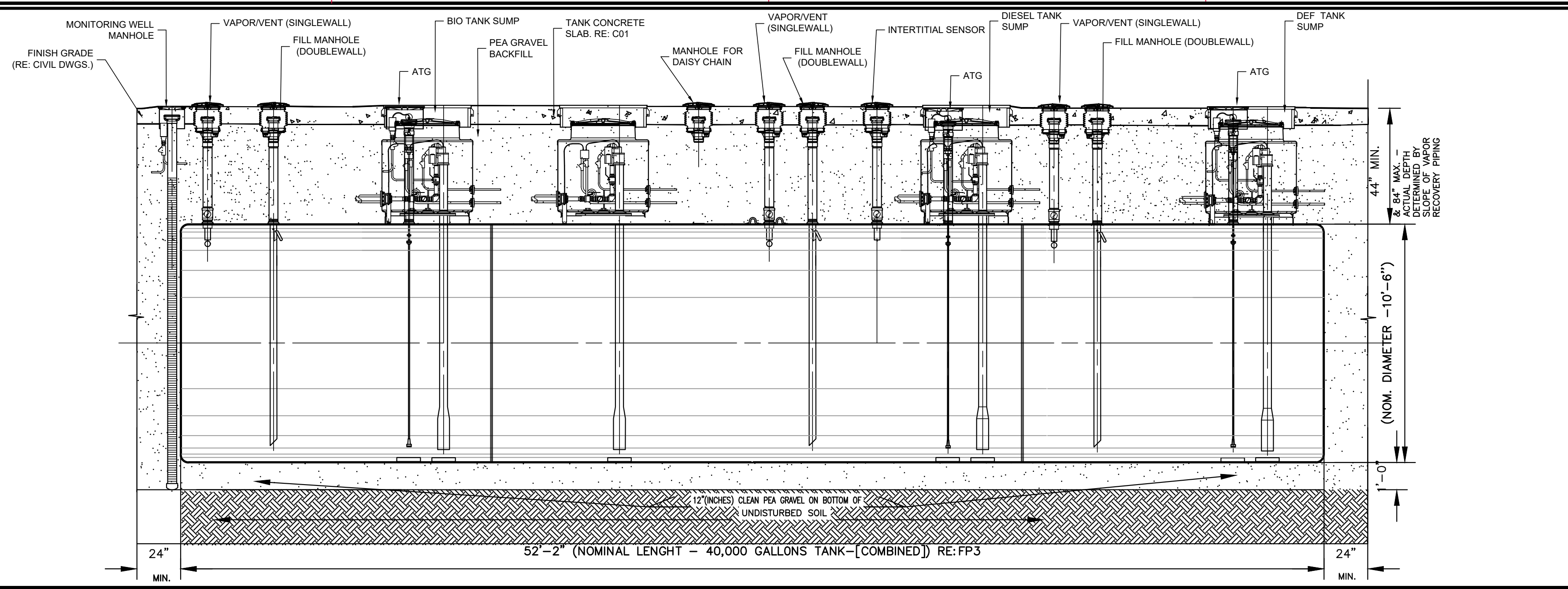
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TANK INSTALLATION

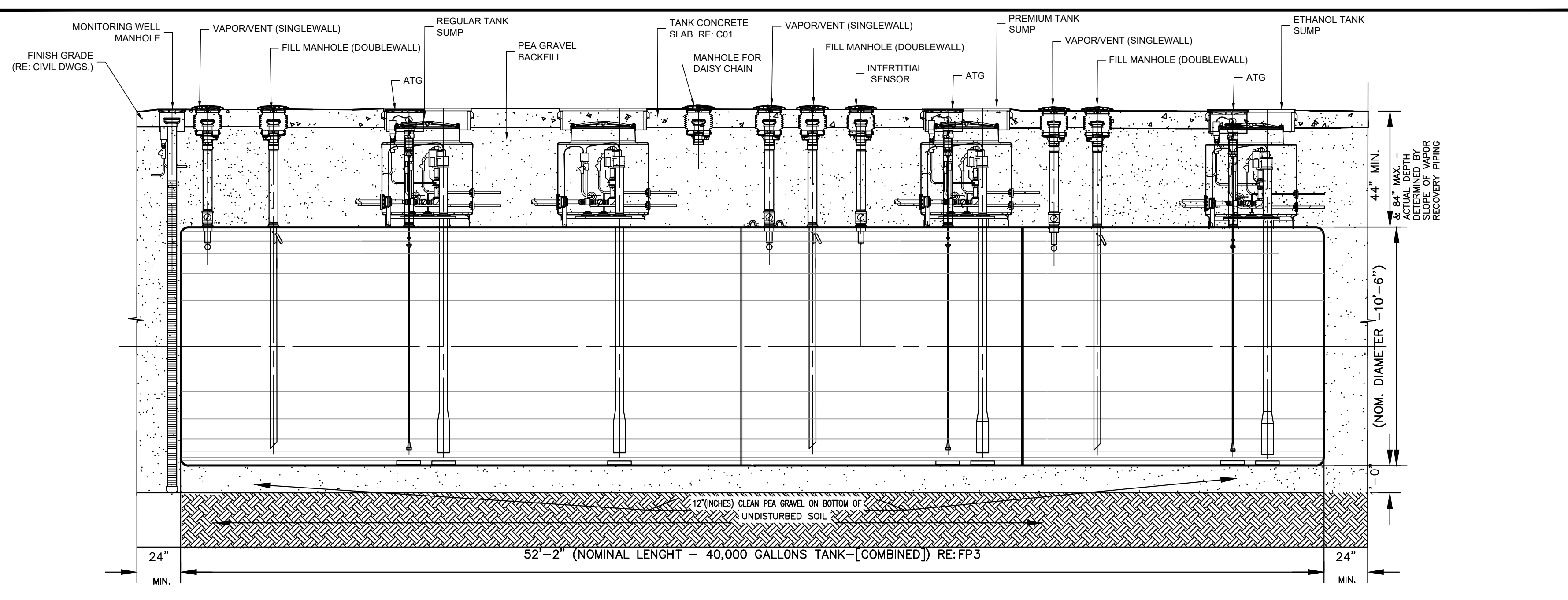
- 1.0 CONTRACTOR SHALL COORDINATE DELIVERY DATE OF TANKS WITH THE MANUFACTURER, CEFCO CONSTRUCTION MANAGER, AND THE PROJECT SCHEDULE.
- 2.0 TANK MANUFACTURER'S INSTALLATION PROCEDURE SHALL BE FOLLOWED, AND THE INSTALLATION CHECKLIST SHALL BE INITIALED/SIGNED BY CONTRACTOR AND CEFCO CONSTRUCTION MANAGER, AS APPROPRIATE, AS EACH STEP IS COMPLETED.
- 3.0 AN UNDERGROUND EQUIPMENT INSTALLATION AFFIDAVIT SHALL BE FILLED OUT BY CONTRACTOR 7.0 AND SUBMITTED TO THE CEFCO CONSTRUCTION MANAGER IN BOUND PROJECT CLOSE OUT FOLDER
- 4.0 LIFTING EQUIPMENT SHALL BE ADEQUATE TO HANDLE TANK WITHOUT DRAGGING. USE ALL LIFTING LUGS AND GUIDELINES WHEN LIFTING TANKS. REST TANKS ON SMOOTH AND DEBRIS FREE GROUND. CHECK TANKS TO PREVENT ROLLING AND TIE THEM DOWN IF HIGH WINDS ARE EXPECTED. USE MINIMUM 1/2" DIAMETER NYLON OR HEMP ROPE OVER TANK AND TIE TO WOODEN STAKES OF ADEQUATE SIZE TO PREVENT TANKS FROM BEING MOVED BY HIGH WINDS. DO NOT DRAG, ROLL, OR IMPACT TANKS.
- 5.0 TANK SHALL BE PLACED ACCORDING TO THE TANK MANUFACTURER'S INSTALLATION MANUAL AND THE CEFCO TANK DRAWINGS. PLEASE NOTE THAT IF THE SOIL IS UNSTABLE, THE STANDARDS MAY BE INCREASED. DISTANCE BETWEEN TANKS SHALL BE GOVERNED BY MANUFACTURER'S OR STATE AND LOCAL REQUIREMENTS WHICHEVER IS GREATER.
- 5.1 TANKS SHALL BE CONTINUOUSLY VENTED, BY CONTRACTOR, AT ALL TIMES THROUGHOUT CONSTRUCTION.
- 6.0 PRE-INSTALLATION TANK TESTING.
- 6.1 CEFCO CONSTRUCTION MANAGER SHALL WITNESS PRE-INSTALLATION TANK TESTING.
- 6.2 CONTRACTOR SHALL NOTIFY CEFCO CONSTRUCTION MANAGER TWO WORKING DAYS PRIOR TO TESTING AND TANK INSTALLATION.
- 6.3 TANKS ARE TO BE SET LEVEL AND BACKFILLED TO TOP OF TANK THE SAME DAY AS TESTING.
- 6.4 CONTRACTOR TO PROVIDE TANK TEST MANIFOLD PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- A. CONTRACTOR TO FURNISH AIR PRESSURE GAUGE WITH A MAXIMUM FULL SCALE READING OF 15 PSIG WITH 1/4 OR 1/10 PSIG INCREMENTS. PRESSURE GAUGE TO BE IN GOOD REPAIR AND HAVE A CALIBRATION DATE WITHIN 30 DAYS OF USE. PRESSURE GAUGES DAMAGED OR OUT OF CALIBRATION WILL NOT BE PERMITTED.
- B. THE PRESSURE RELIEF VALVE ON THE TEST MANIFOLD MUST BERATED AT 6 PSIG TO REDUCE THE RISK OF OVER PRESSURIZING THE TANK.
- 6.5 TESTING THE PRIMARY (INTERNAL) TANK
 - A. CONNECT THE TEST MANIFOLD TO AN AVAILABLE SERVICE FITTING. CHECK EACH REMAINING SERVICE FITTING TO ENSURE TANK SERVICE FITTINGS ARE PROPERLY SEATED, ADEQUATELY DOPED, PLUGGED, AND TIGHTENED.
 - B. PRESSURIZE THE PRIMARY TANK TO 5 PSIG. ADD OR REMOVE AIR AS NECESSARY AND ALLOW THE PRESSURE TO STABILIZE. CLOSE THE VALVE ON THE TEST MANIFOLD AIR SUPPLY LINE.
 - C. MONITOR THE PRESSURE FOR 1 HOUR. SOAP TEST (USING HIGH FOAMING TEST SOLUTION - SEAM TEST SOLUTION MANUFACTURED BY WITHIN PRODUCTS, CHARLOTTE, NC, AMWAY LOC SOAP, OR APPROVED EQUAL) ALL SERVICE FITTING, MANWAYS AND PLUGS. WATCH FOR ACTIVE AIR BUBBLES WHICH INDICATE A LEAK.
 - D. CONNECT THE TEST MANIFOLD TO AN AVAILABLE SERVICE FITTING CHECK EACH REMAINING SERVICE FITTING TO ENSURE TANK SERVICE FITTINGS ARE PROPERLY SEATED, ADEQUATELY DOPED, PLUGGED, AND TIGHTENED.
 - 6.6 THE SECONDARY (EXTERNAL) TANK
 - A. MAINTAIN PRESSURE ON THE PRIMARY TANK. PLUG ALL OPEN FITTINGS ON THE SECONDARY TANK.
 - B. FREE THE HOSE FROM THE SERVICE TINTING BY CUTTING THE NYLON SAFETY TIE.
 - C. INSERT THE HOSE INTO THE QUICK DISCONNECT CHECK VALVE. THIS WILL ALLOW AIR TO TRANSFER FROM THE PRIMARY TO THE SECONDARY TANK.
 - D. PRESSURIZE THE 5 PSIG. ADD OR REMOVE AIR VIA THE SUPPLY VALVE AS NEEDED AND ALLOW PRESSURE TO STABILIZE. CLOSE THE VALVE ON THE TEST MANIFOLD TO THE AIR SUPPLY LINE. **DO NOT USE AN AIR COMPRESSOR TO PRESSURIZE THE SECONDARY TANK.**
 - E. MONITOR THE PRESSURE FOR 1 HOUR, SOAP THE ENTIRE EXTERIOR OF THE TANK AND WATCH FOR ACTIVE AIR BUBBLES WHICH INDICATE A LEAK.
 - F. WHEN THE TEST IS COMPLETE, SLOWLY RELEASE AIR PRESSURE FROM THE TANK BY DISCONNECTING THE SUPPLY LINE AND OPENING THE SUPPLY VALVE ON THE TEST MANIFOLD. WHEN AIR FLOW FROM THE SUPPLY VALVE STOPS, REMOVE THE TEST MANIFOLD.

INSTALLATION

- 7.1 INSTALLING CONTRACTOR SHALL BE CERTIFIED BY TANK MANUFACTURER ON PROPER TANK INSTALLATION PROCEDURES.
- 7.2 BEDDING AND BACKFILL MATERIAL SHALL BE WELL WASHED AND FREE OF ICE AND SNOW AND MEET ASTM D-448 ASTM C-33 AND AASHTO M-43 FOR QUALITY AND SOUNDNESS. CONTRACTOR SHALL PROVIDE SIEVE ANALYSIS ACCEPTABLE TO CEFCO CONSTRUCTION MANAGER. THE TANK WARRANTY IS AUTOMATICALLY VOIDED IF MATERIAL OTHER THAN THE FOLLOWING APPROVED BED AND BACKFILL MATERIALS ARE EMPLOYED WITHOUT PRIOR WRITTEN APPROVAL FROM THE TANK MANUFACTURER.
 - 7.2.1 PEA GRAVEL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER WITH NO MORE THAN 5% PASSING A NO. 8 SIEVE.
 - 7.2.2 CRUSHED STONE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER WITH NO MORE THAN 5% PASSING A NO. 8 SIEVE.
 - 7.3 STANDARD INSTALLATION - PROCEDURE - DRY HOLE:
 - 7.3.1 PLACE MINIMUM 12" BEDDING MATERIAL SMOOTH AND LEVEL OVER EXCAVATION FLOOR. TANK TO BE SET LEVEL.
 - 7.3.2 SET TANKS LEVEL ON BEDDING MATERIAL. USE ALL LIFTING LUGS PROVIDED AND GUIDE ROPES AT EACH TANK END. DO NOT SET TANKS DIRECTLY ON DEADMAN OR CONCRETE SLAB IF USED. MEASURE TANK DIAMETER.
 - 7.3.3 PLACE 12" BACKFILL MATERIAL EVENLY UNDER TANKS. USE WOODEN DOWEL PROBE TO WORK BACKFILL COMPLETELY UNDER TANK BETWEEN RIBS AND UNDER ENDCAPS. USE EXTREME CARE IN BACKFILLING BENEATH TANK BOTTOM, BETWEEN RIBS AND UNDER END CAPS TO PROVIDE A SOLID SUPPORT FREE OF VOIDS. IT IS EXTREMELY IMPORTANT THAT CARE BE EXERCISED IN THE BACKFILLING OF THE TANKS UP TO TWO FEET IN DEPTH FROM THE TANK BOTTOM AS TANK FAILURES HAVE RESULTED WHERE VOIDS WERE EVIDENT UNDER THE TANKS. GOOD COMPACTION AND SUPPORT FOR THE TANK CAN BE OBTAINED BY SHAPING THE GRAVEL WITH A SHOVEL ALL AROUND THE PERIMETER OF EACH TANK.
 - 7.3.4 REPEAT 7.3.3 FOR NEXT 12", PROBING TO FILL ALL VOIDS AT THE CRITICAL 5 TO 7 O'CLOCK SUPPORT AREAS OF THE TANK
 - 7.3.5 FREELY ADD ADDITIONAL BACKFILL TO TANK TOPS. (ADDITIONAL PROBING NOT REQUIRED.) MEASURE TANK DIAMETER.
 - 7.4 INSTALLATION PROCEDURE - WET HOLE
 - 7.4.1 THE FOLLOWING PROCEDURE SHALL APPLY WHERE HIGH WATER TABLE IS EVIDENT OR WHERE A FUTURE WATER CONDITION IS ANTICIPATED.
 - 7.4.2 WATER LEVEL SHOULD BE MAINTAINED AT THE LOWEST PRACTICAL LEVEL DURING INSTALLATION. A SUMP AND PUMP OR A SYSTEM OF WELL POINTS AND PUMPS IS THE RECOMMENDED METHOD TO MINIMIZE WATER LEVEL IN THE HOLE. IT IS RECOMMENDED THAT AN EXPERIENCED DEWATERING CONTRACTOR BE EMPLOYED TO DEWATER THE EXCAVATION. THE TYPE OF SYSTEM REQUIRED WILL DEPEND ON THE WATER FLOW RATE INTO THE HOLE. THE HOLE BOTTOM SHOULD BE LEVEL AND FREE OF ROCKS AND DEBRIS.
 - 7.4.3 PROVIDE A MINIMUM 12" THICK PEA GRAVEL BED AT BOTTOM OF HOLE. PEA GRAVEL MUST BE GRADED SMOOTH, COMPACTED AND LEVEL TO RECEIVE TANKS. CAREFULLY PLACE TANKS ON PEA GRAVEL BED. TANK IS TO BE SET LEVEL.
 - 7.4.4 BALLASTING:
 - 7.4.4.1 IF WATER IS REQUIRED TO SINK TANKS IN HIGH WATER TABLE CONDITION, THE MANUFACTURER'S TANK INSTALLATION INSTRUCTIONS MUST BE ADHERED TO EXACTLY.
 - 7.4.4.2 WATER WITHIN THE TANK CANNOT BE AT A HIGHER LEVEL THAN THE OUTSIDE GROUND WATER. IF WATER IS REQUIRED TO MAKE TANK INSTALLATION, THE CONTRACTOR WILL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR AND PAY FOR ALL WATER USED.
 - 7.4.4.3 BALLAST TANKS USING POTABLE WATER. REMOVE WATER ONLY AFTER TANK SLAB IS CURED. CONSULT CEFCO CONSTRUCTION MANAGER FOR PROPER DISPOSAL OF WATER REMOVED FROM TANK.
 - 7.4.5 WHILE LEVELING TANKS, INSURE THAT A MINIMUM DISTANCE OF 2'-0" FOR 8' DIAMETER TANKS AND 3'-0" FOR 10' DIA. TANKS IS MAINTAINED BETWEEN TANKS. WHEN ANCHORING, PLACE STRAPS OVER TANKS AND FOLLOW PROCEDURE AS OUTLINED HEREINAFTER.
 - 7.4.6 TANKS MUST BE ANCHORED WITH DEADMAN ON ALL WET HOLE INSTALLATIONS. ANCHORING SHALL BE DONE IN ACCORDANCE WITH THE TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 7.4.7 USE PERFORMED FIBERGLASS HOLD DOWN STRAPS FURNISHED BY TANK FABRICATOR ON TOP OF DESIGNATED RIBS. DO NOT USE STRAPS OR CABLES AGAINST THE TANK SHELL BETWEEN RIBS. ATTACH HOLD DOWN STRAP TO ANCHOR POINTS WITH 1/2" DIA. 6X19 FLOW STEEL WIRE ROPE LOOPS USING AT LEAST THREE CABLE CLAMPS. ALL STRAPS SHOULD BE TIGHTENED WITH TURNBUCKLES TO GIVE SNIUG FIT OF STRAPS TO TANK RIB. TURNBUCKLE DIA. TO BE 1 1/2" HOOK TYPE OR 3/4" TYPE. ONE TANK AT A TIME SHALL BE SET ON PEA GRAVEL AND SECURELY ANCHORED AND TIGHTENED WITH THE ANCHORING STRAPS.



NOTE: FOR EQUIPMENT REFERENCE ONLY **COMPARTMENTED 40K TANK SECTION - 10K BIO, 24K DIESEL, 6K DEF** SCALE NTS **1**

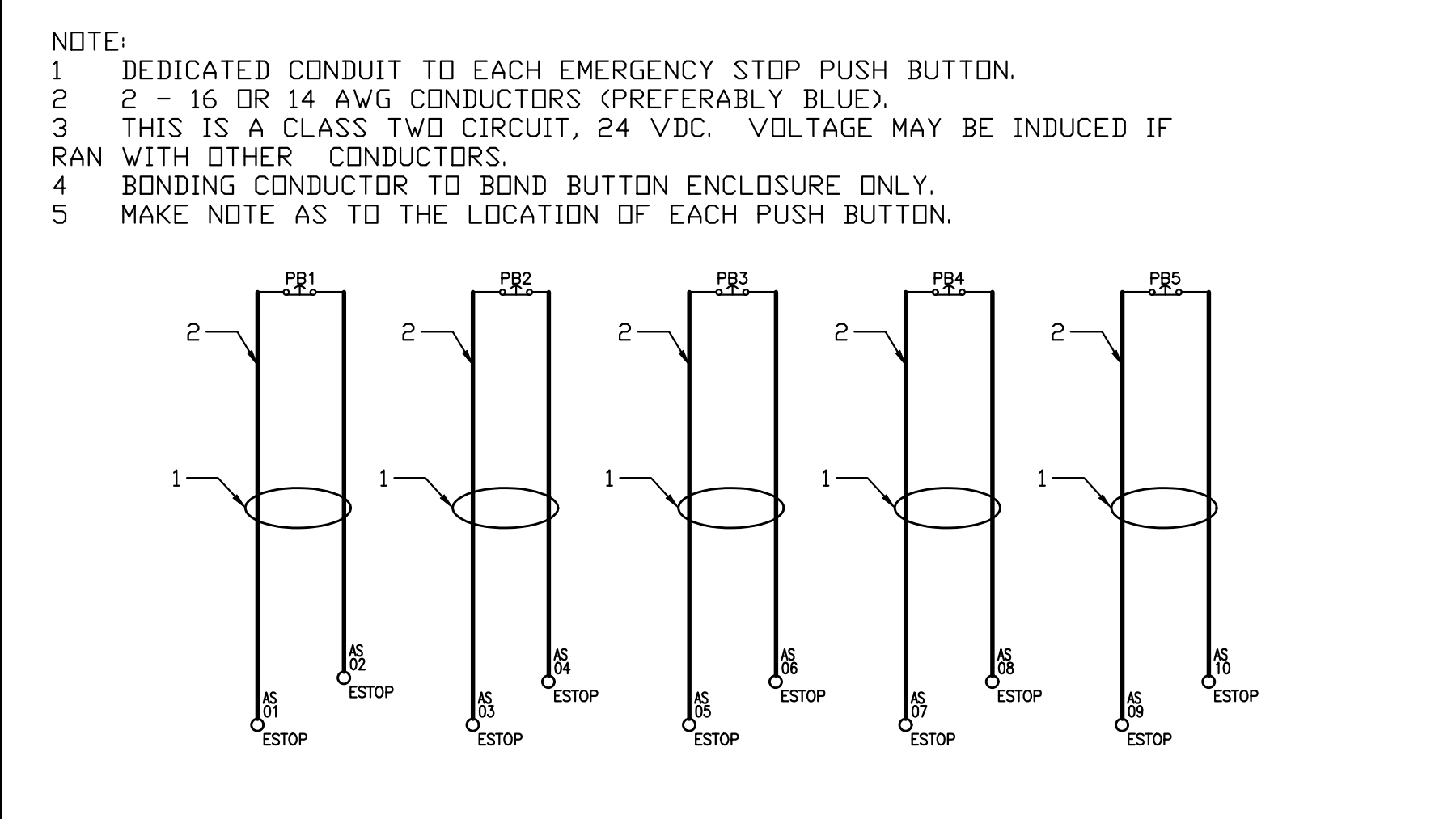


NOTE: FOR EQUIPMENT REFERENCE ONLY **COMPARTMENTED 40K TANK SECTION - 28K REGULAR, 6K PREMIUM, 6K ETHANOL** SCALE NTS **2**

NOTE:
FOR ILLUSTRATION ONLY. REFER TO SHEET A01 FOR ORIENTATION AND TANK SIZE.

TOP OF MANHOLE AND SPILL BUCKET NOTE:
ALL MANHOLES AND SPILL BUCKETS SHALL BE ELEVATED BY 2-INCHES FROM SURROUNDING/ADJACENT CONCRETE PAVEMENT. THE CONCRETE PAVEMENT SHALL GENTLY SLOPE UP TO MATCH THE TOP OF THE MANHOLES AND SPILL BUCKETS.

EMERGENCY STOP REQUIREMENTS



STANDARD CEFCO FUEL WIRE SIZES

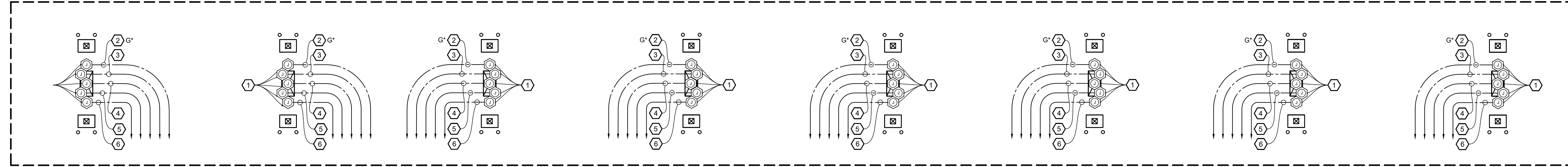
Dispenser Type/Description	Size Of Conduit	Function Of The Wire	QTY OF Wire In Conduit	Size Of Wire	QTY OF Wire In Conduit	Size Of Wire	QTY OF Wire In Conduit	Size Of Wire
3+2 Wayne Helux	1 Inch	Power	3	# 12	4	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare	Raceway Only					
	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
Master Dispenser	1 Inch	Power	3	# 12	2	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare	Raceway Only					
	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
Satellite	3/4 Inch	Sensor	2	SPARE # 18/2 Cable	1	# 12 Ground		
Master/Satellite Loop		Power	1	# 12 Ground	5	# 14		
Auto Gas Canopy	1 Inch	Power	1	? Raceway Only				
	1 Inch	Spare	3	? Raceway Only				
Truck Canopy	1 Inch	Power	1	Raceway Only				
	1 Inch	Spare	3	Raceway Only				
STP	1 Inch	Power	4	# 10				
Tank Sensor Home Run	1 Inch	Sensor	EACH SUMP	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" to each stp Sump for sen's wt. 1 spare	
ATG & Interstitial Loops Home Run	1" / 3/4 Inch	Sensor	Per Sensor	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" Home Run for ATG & Int. Loops	
Remote E Stop	3/4 Inch		3	# 12				

NOTE:
FOR ILLUSTRATION ONLY. REFER TO TANK INSTALLATION GUIDE.

- KEYED NOTES:**
- EXPLOSION PROOF JUNCTION BOX: CROUSE-HINDS GUA SERIES OR EQUAL.
 - FUEL DISPENSER CONDUITS AND CONDUCTORS: 2-#8 (DISPENSER PWR), 10-#14 (FIVE PRODUCT DISPENSER CONTROL), 1-SHL'D CABLE (DISPENSER DATA), 1-SHL'D CABLE (CARD READER) & 1-#8 GND, 1" C. ROUTE TO GAS 'G' PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.
 - DISPENSER INTERCOM: PROVIDE (2) 2/C #18 SHL'D CABLES IN 1" CONDUIT. ROUTE TO INTERCOM MASTER STATION IN CPI UNITIZED SWITCHGEAR.
 - DISPENSER VGA SCREEN: PROVIDE (1) CAT5 UL AWM STYLE 21146 CABLE IN 1" CONDUIT. ROUTE TO VEEDER-ROOT ADVERTISEMENT EQUIPMENT IN C-STORE. COORDINATE WITH OWNER FIELD REPRESENTATIVE FOR EXACT LOCATION PRIOR TO SLAB POUR.
 - DISPENSER SUMP SENSOR: PROVIDE 2/C #18 SHL'D & 2/C #18 SHL'D (SPARE) IN 3/4" CONDUIT. ROUTE TO FUEL TANK MONITOR PANEL.
 - DISPENSER SPARE CONDUIT: PROVIDE (1) SPARE 1" CONDUIT W/ PULL STRING TO CPI UNITIZED SWITCHGEAR.
 - TRUCK DISPENSER INTERCOM: (2) 2/C #18 SHIELDED CABLES (DISPENSER INTERCOM) ROUTE FROM DISPENSER TO INTERCOM MASTER STATION IN CPI UNITIZED GEAR.
 - TRUCK DISPENSER VGA SCREEN: PROVIDE (1) CAT 5 UL AWM STYLE 21146 IN 1" CONDUIT FROM DISPENSER TO VEEDER-ROOT ADVERTISEMENT EQUIPMENT IN C-STORE. OBTAIN EXACT LOCATION OF VEEDER ROOT EQUIPMENT FROM OWNER FIELD REPRESENTATIVE.
 - TRUCK DISPENSER POWER AND CONTROL: PROVIDE 2-#10 (DISPENSER POWER), 6-#14 (3 PRODUCT DISPENSER CONTROL), 1 SHIELDED CABLE (DISPENSER DATA), 1 SHIELDED CABLE (CARD READER) & 1-#10 EQUIPMENT GROUND IN 1" CONDUIT. ROUTE FROM DISPENSER TO GAS 'G' PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.
 - MASTER/SLAVE DISPENSER CONDUCTORS: PROVIDE (1) SHIELDED CABLE (SLAVE DISPENSER HANDLE) AND (1) SHIELDED CABLE (SLAVE DISPENSER VALVE). ROUTE 1" CONDUIT FROM MASTER DISPENSER TO SLAVE DISPENSER.
 - SLAVE DISPENSER POWER: PROVIDE 2-#12 AND 1-#10 EQUIPMENT GROUND IN 1" CONDUIT FROM SLAVE DISPENSER TO MASTER DISPENSER. SLAVE AND MASTER DISPENSER SHALL BE FED BY THE SAME CIRCUIT.
 - TRUCK DISPENSER POWER AND CONTROL: PROVIDE 4-#10 (DISPENSER POWER), 6-#14 (3 PRODUCT DISPENSER CONTROL), 1 SHIELDED CABLE (DISPENSER DATA), 1 SHIELDED CABLE (CARD READER) & 1-#10 EQUIPMENT GROUND IN 1" CONDUIT. ROUTE FROM DISPENSER TO GAS 'G' PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.

- GENERAL NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, CURRENT EDITION OF BUILDING CODE AND APPLICABLE LOCAL ORDINANCES.
 - VERIFY ALL MECHANICAL EQUIPMENT SIZES PRIOR TO ROUGH-IN.
 - COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
 - ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA 30A.
 - ALL INTRINSICALLY SAFE(S) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSII/ISA RP 12.6. IN ADDITION, SPECIAL (IS) WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS). TROUGHS SHALL HAVE A PERMANENTLY ATTACHED METAL DIVIDER THAT IS EQUIPOTENTIALLY BONDED TO EARTH.
 - FURNISH AND INSTALL POURED SEALING FITTINGS AT BOTH ENDS OF ALL CONDUITS FROM FUEL DISPENSERS AND UNDERGROUND FUEL STORAGE TANKS.
 - REFERENCE MANUFACTURER INSTALLATION MANUALS FOR UNDERGROUND FUEL STORAGE TANK EQUIPMENT WIRING INTERCONNECTIONS.
 - ALL POWER CONDUCTORS SHALL BE STRANDED WITH DUAL RATED THHN/THWN INSULATION.
 - INTERMEDIATE METAL CONDUIT (IMT) SHALL NOT BE USED.
 - HOMERUN CONDUITS TO DISPENSERS AND TANKS TO BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT AND SCHEDULE 40 PVC PER NEC ARTICLE 514.8, EXCEPTION #2.
 - ALL CONDUIT ROUTED BETWEEN TANK SUMPS SHALL BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT.
 - PENETRATE SUBMERSIBLE TURBINE PUMP (STP) WITH ONLY (1) VEEDER-ROOT CONDUIT.
 - PROVIDE 'EYS' SEALING FITTINGS WHERE CONDUITS ENTER OR LEAVE ANY HAZARDOUS CLASSIFIED AREA.
 - INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER AND INTRINSICALLY SAFE CONDUITS.
 - REFER TO BUILDING ELECTRICAL DRAWINGS FOR PANEL SCHEDULES.
 - THE TERM PROVIDE MEANS THAT THE CONTRACTOR WILL 'FURNISH' AND 'INSTALL' ITEM.

NOTE:
REFER TO STANDARD CEFCO FUEL WIRE SIZES (FP4B) FOR WIRE INFORMATION.

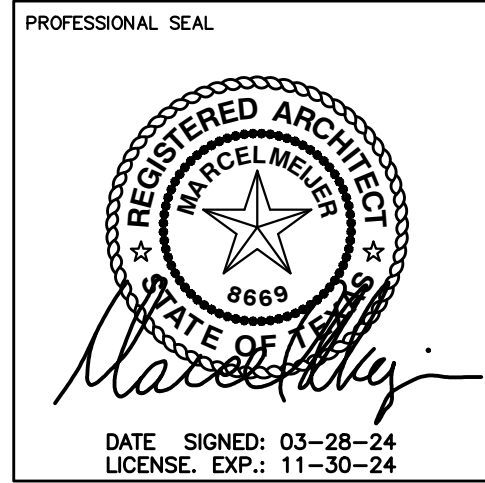


21 ENLARGED ELECTRICAL FUEL STATION DETAIL VEHICLE #1 OF 2.
NOT TO SCALE
RE: SITE PLAN



PROJECT NUMBER
CEF22-FP4B.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

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SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

DRAWING NUMBER
FP4B

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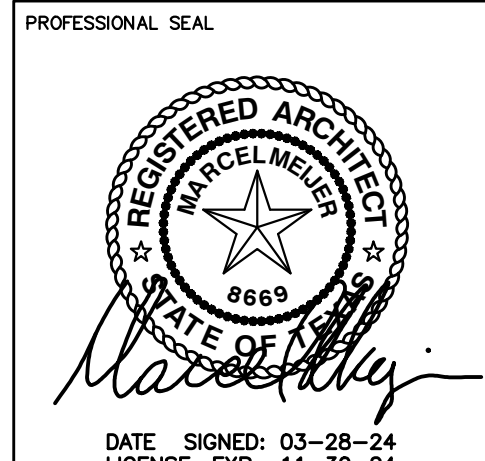


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEP22-FP5.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



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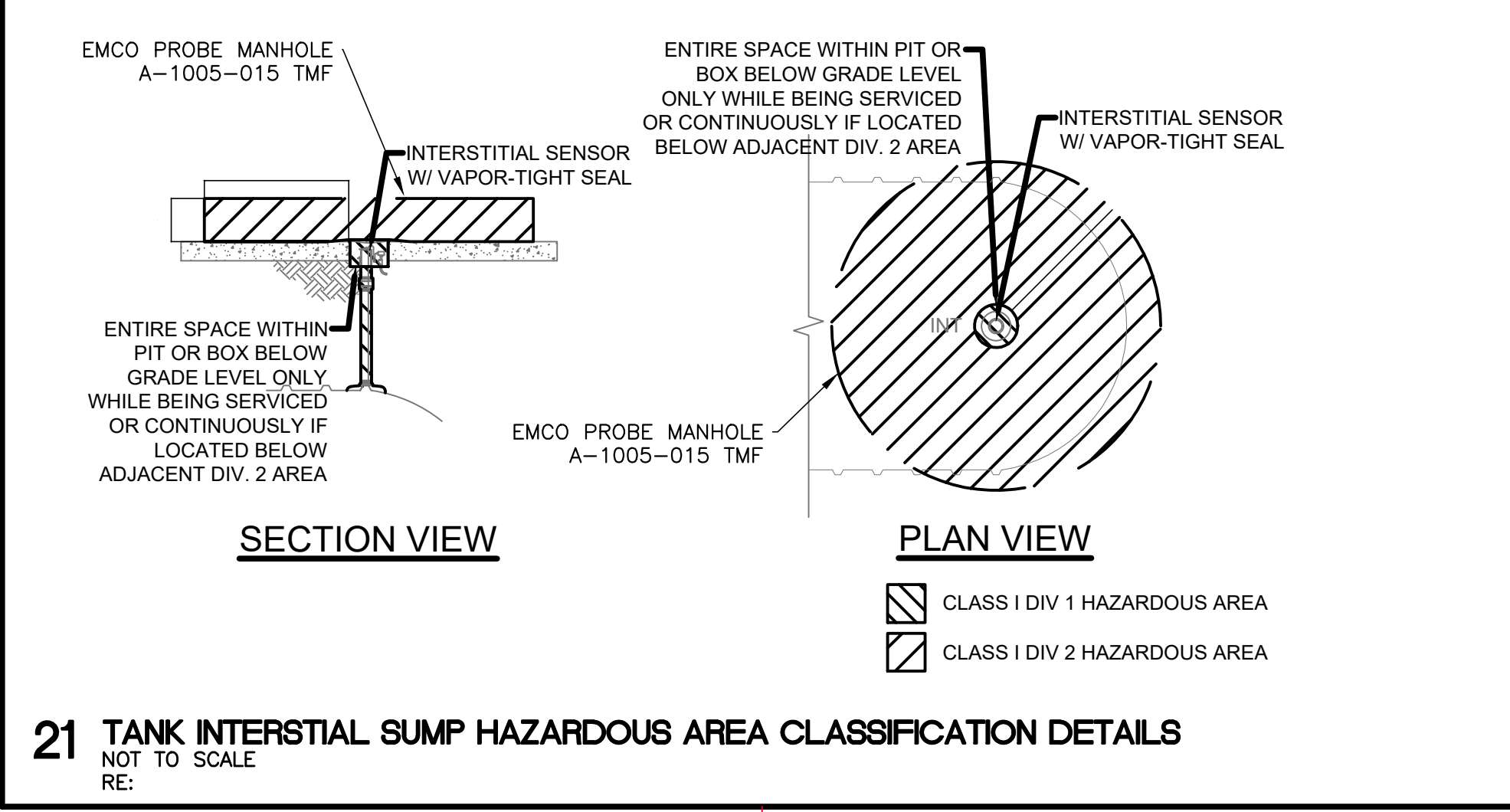
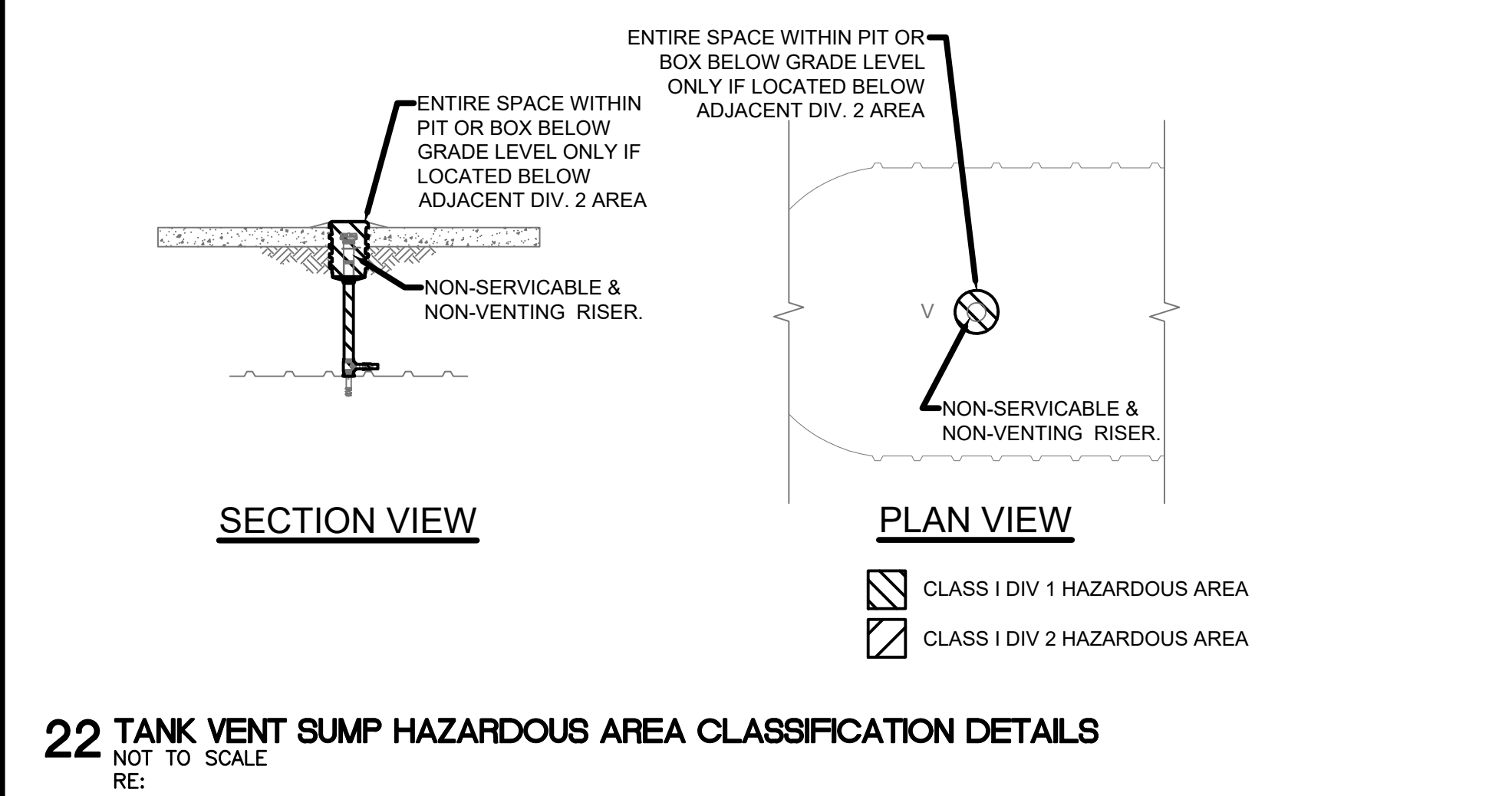
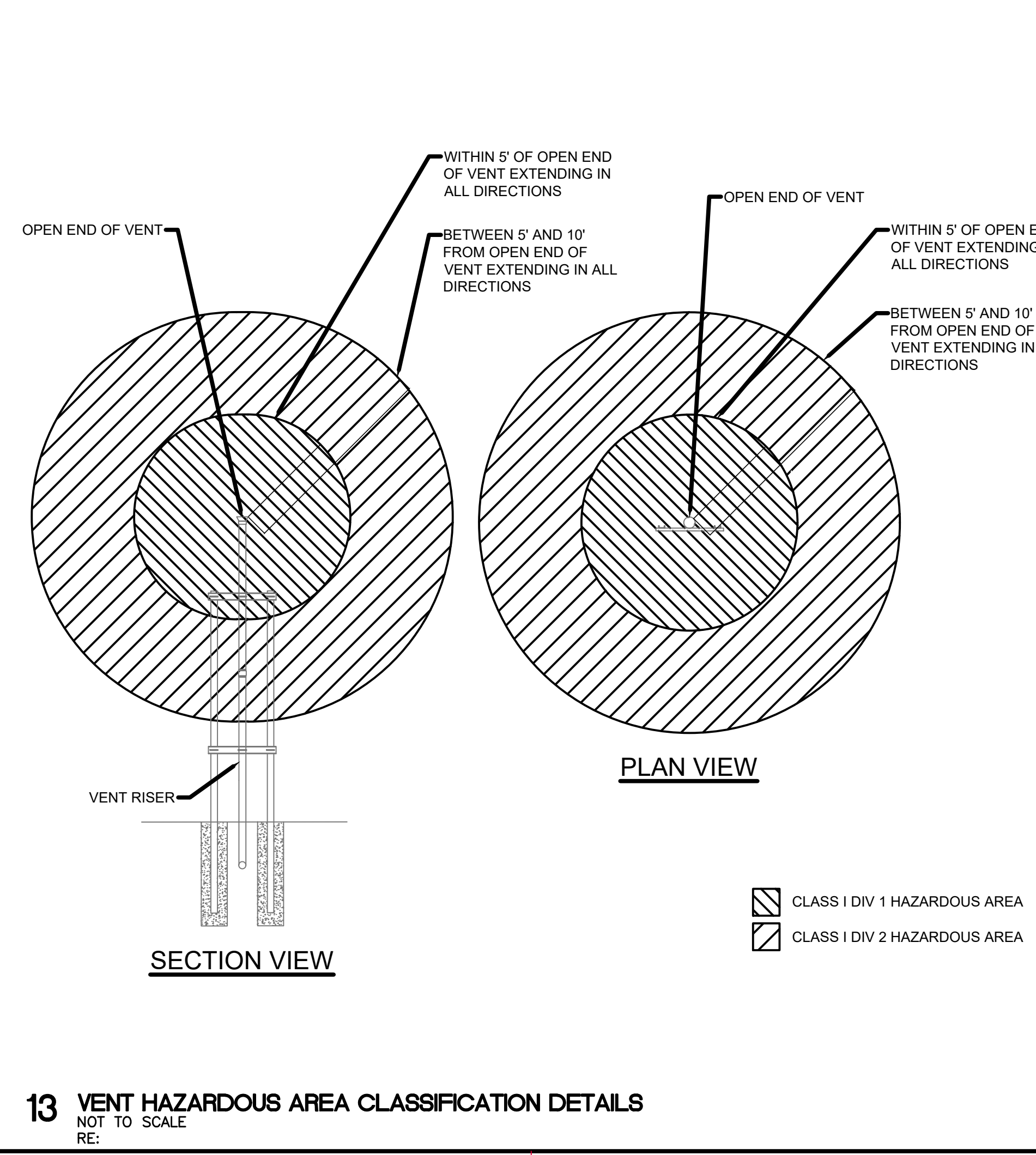
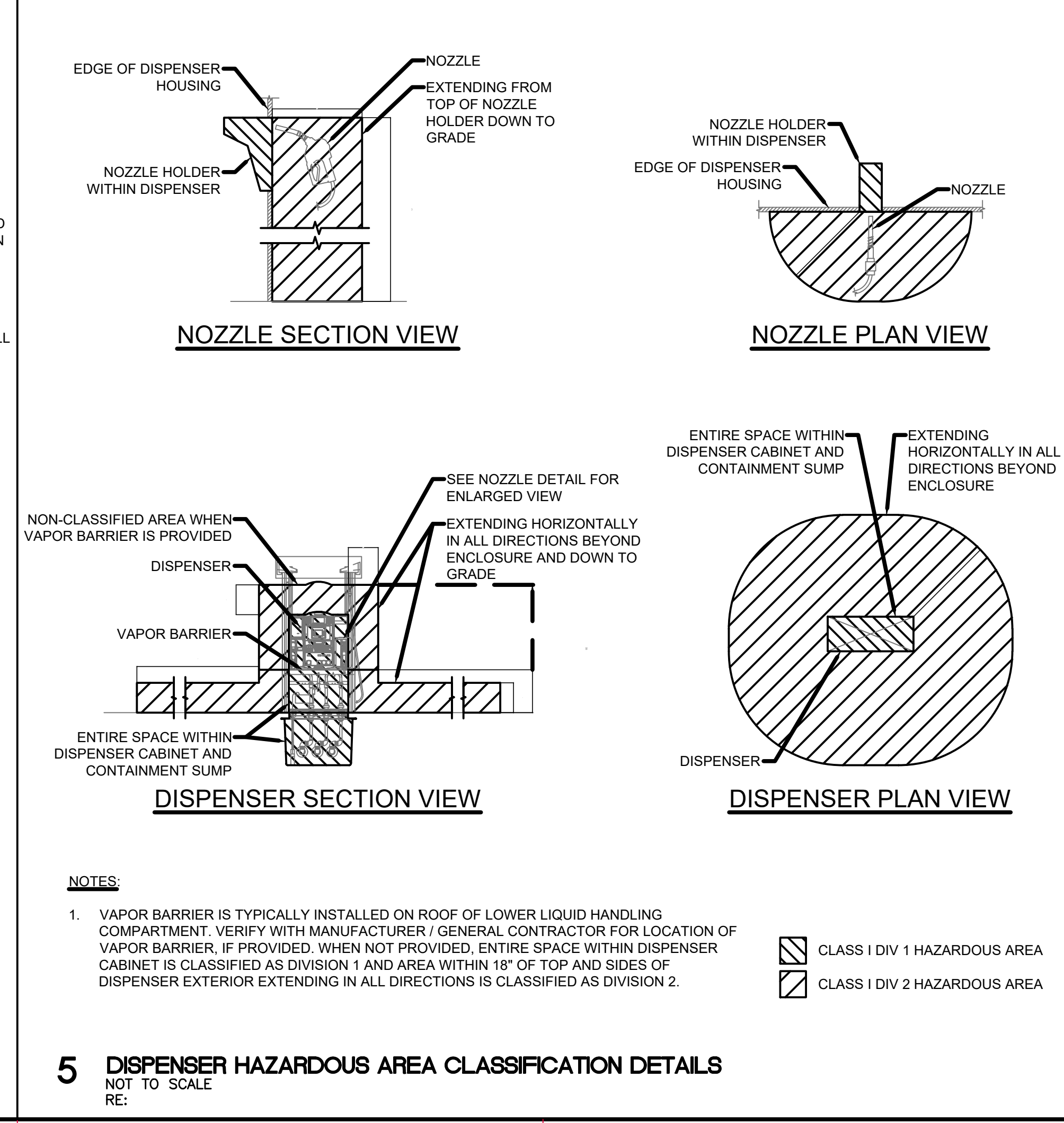
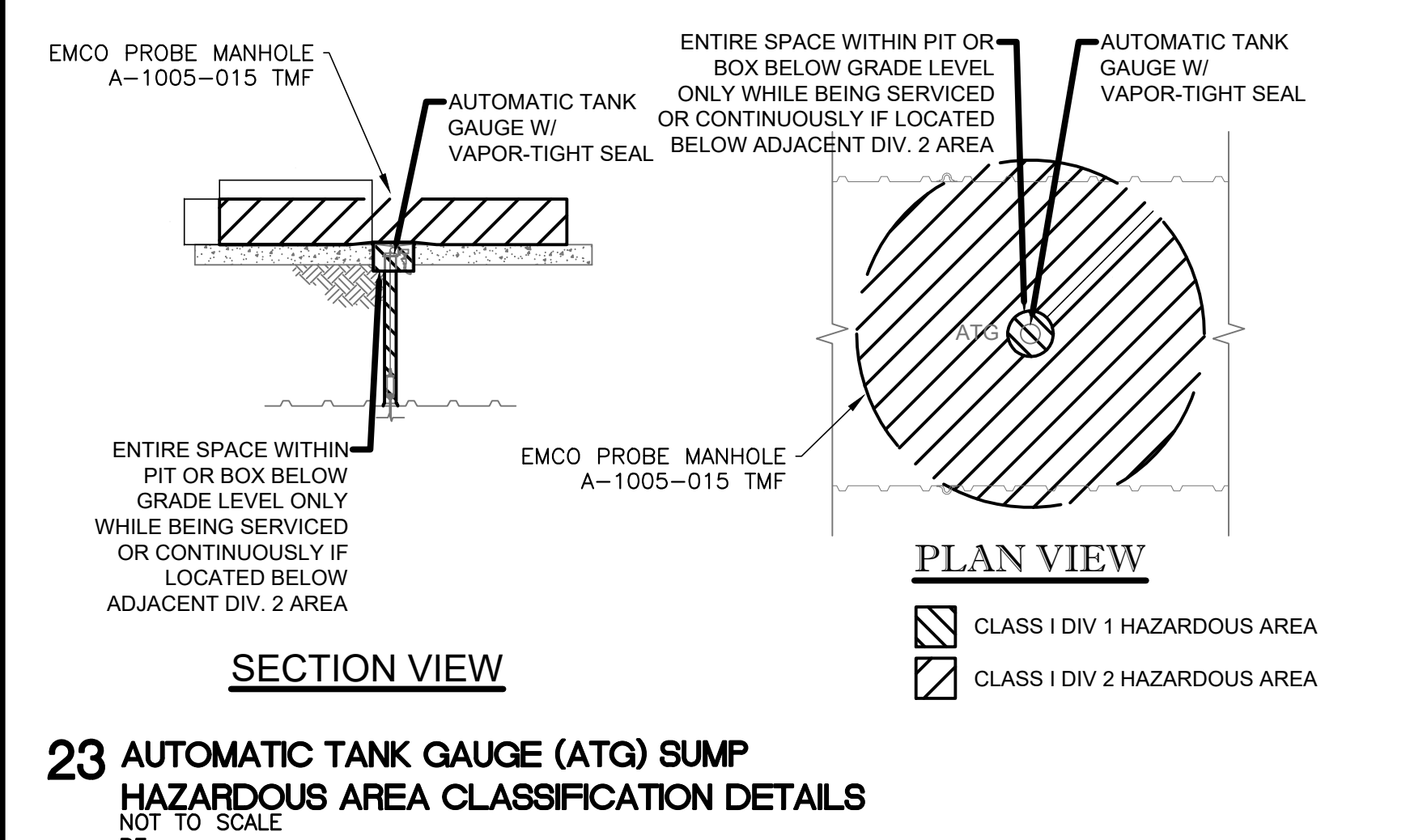
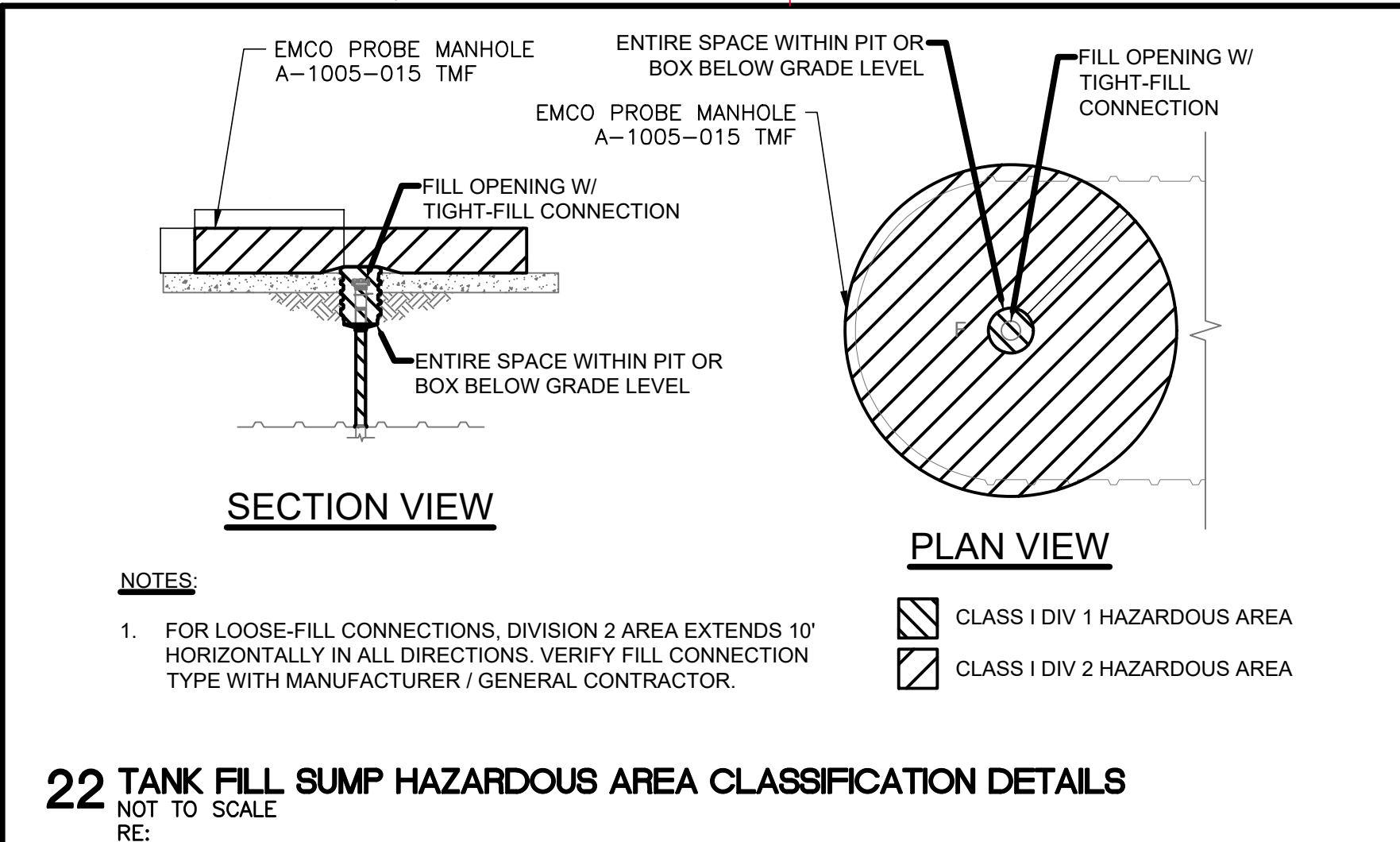
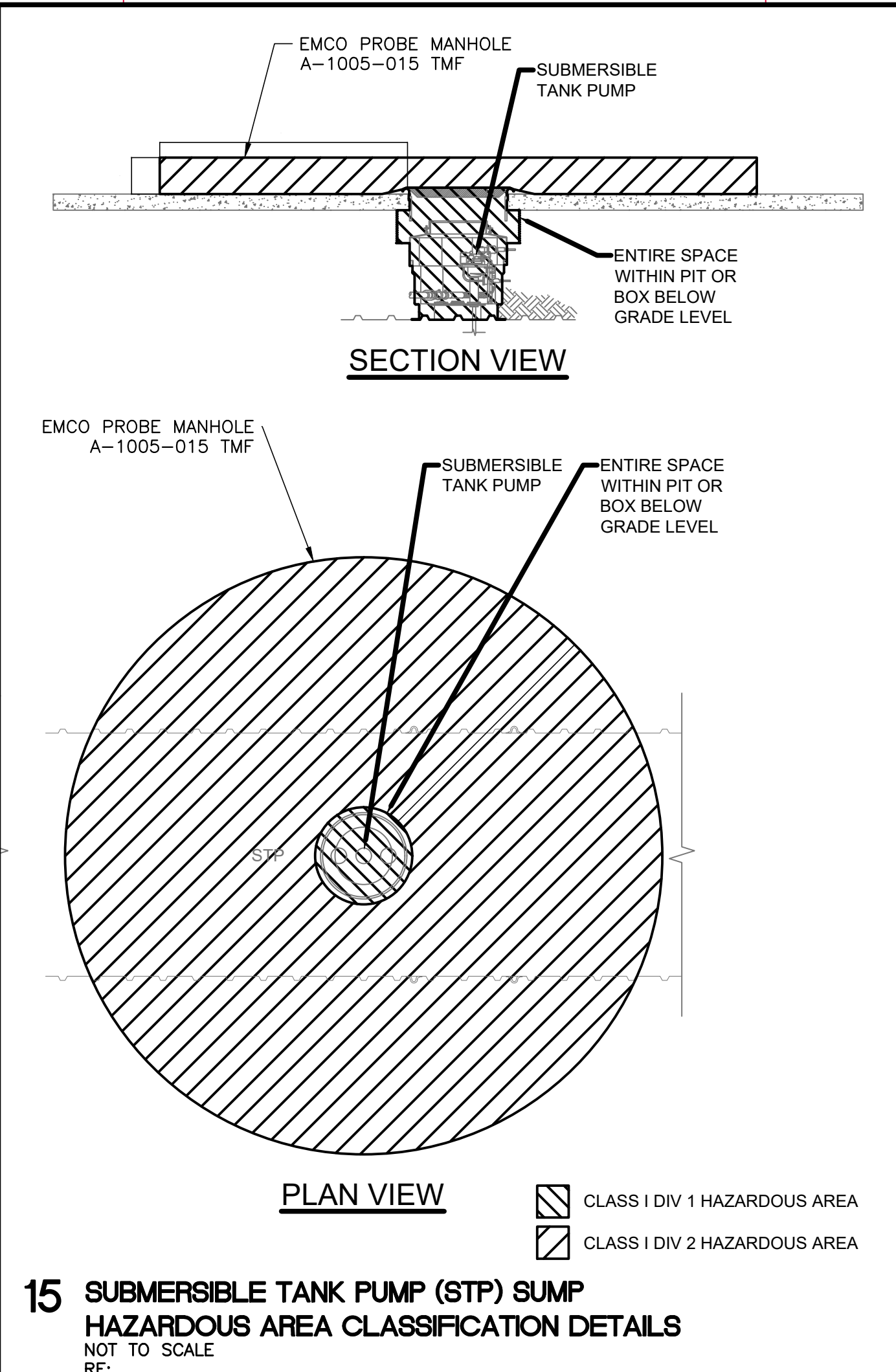
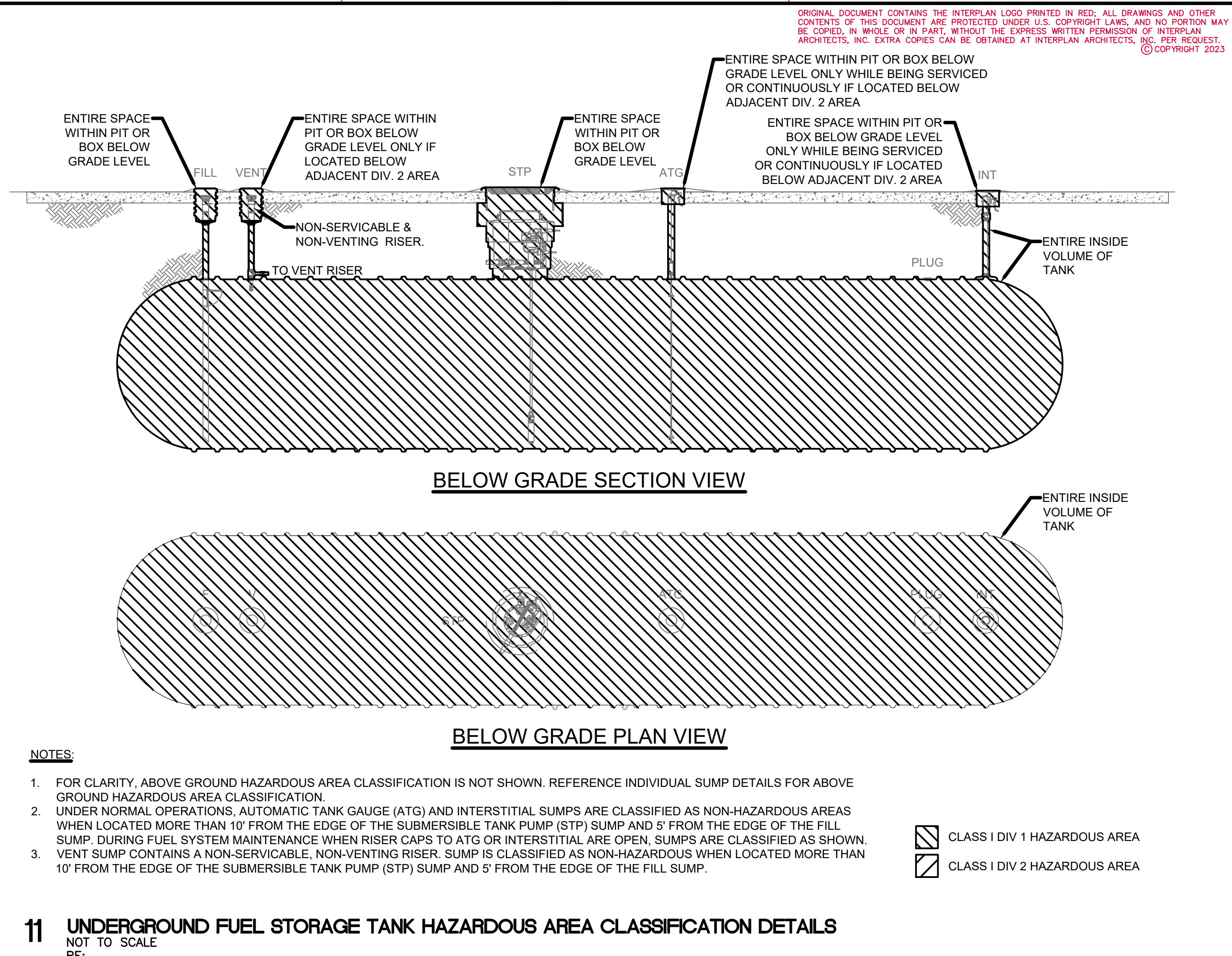
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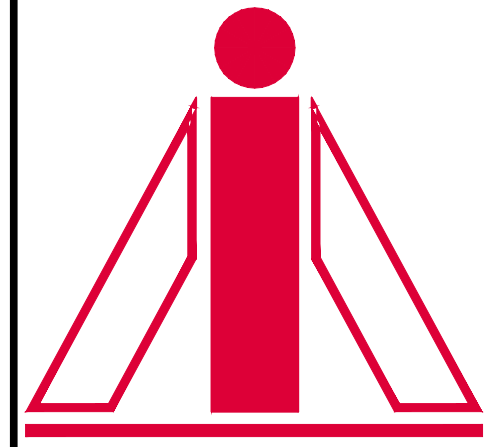
REVISIONS

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SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

DRAWING NUMBER
FP5
SHEET NO.



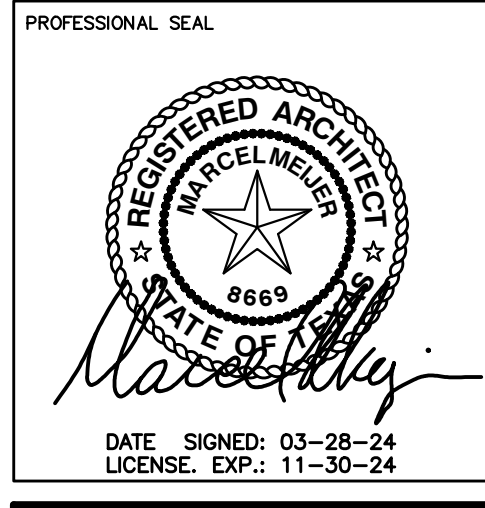


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FP6.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



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SHEET TITLE
FUEL EQUIPMENT SCHEDULE

DRAWING NUMBER
FP6

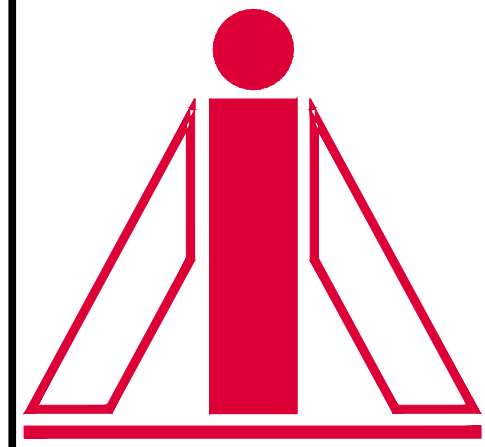
DISPENSER, PUMP, AND TANK FITTINGS AND EQUIPMENT LIST - AUTO & TRUCK FUELING			
EQUIPMENT	FURNISHED BY: (TO BE INSTALLED BY CONTRACTOR)		DESCRIPTION
	CEFCO	CONTR.	
DISPENSER PRODUCT CONTROL SYSTEM	X		VERIFONE COMMANDER RUBY2/COMM TRIPLE NO UPS/DISPENSER BOARD
	X		GIBARCO D-BOX TRUCK SIDE DISPENSERS
	X		Comdata SmartDESQ Include Nexgen detail
V169-RUBY2/COM-TTERM	X		COMMAND SITE CONTROLLER, STANDARD, 1PCB, 1HDD, 1PWR M149-111-00-NAA
	X		FORECOURT FUEL CONTROLLER, FCI M149-901-01-R
OC-DISPENSER BOARD	X		KIT, (CLGB) SPP CURRENT LOOP 29721-01
	X		KIT, RS485 8-CHANNEL INTERFACE BOARD SFC 29376-01
	X		RUBY 2 M169-000-01-NAA
	X		CUSTOMER DISPLAY, TOPAZ 2X20 P050-01-101-R
	X		MEDIA DRAWER, PETRO SYSTEMS P050-01-200
	X		PRINTER, RECEIPT, THERMAL, RP-310 P040-02-020
	X		ROUTER, CYBERA ZONE ROUTER P039-09-001-NAA (6462)
	X		CABLE, SHLD RS232, RJ45-RJ45, GEM II 13836-01
	X		ADAPTER, NULL MODEM, DB25M-RJ45 13581-01
	X		CABLE, ETHERNET SAPPHIRE 7.62M 22278-25
	X		CABLE, ETHERNET SAPPHIRE 15.2M 22278-50
	X		CABLE, ETHERNET SAPPHIRE 100' 22278-100
	X		CABLE, SHLD RS232, RJ45-RJ45, 100FT 13836-100
	X		Onceac UPS - Conditioned 250VA P040-07-050
	X		MX915 PCI 3, X, 4, 3" M132-409-01-R
	X		MX9XX - PWR, AUD, BERG W/TAILOUT, ETH, USB OTG, COM2 132-602-00-R
	X		P5+FERRITE, 120VAC/12VDC/1A, 5.5X2.1MM/C, USA PWR132-003-01-A
	X		STAND, MX915, LOW CONTOUR, LOCKING, ANTI-SWIMMING, DATA PORT BLOCKING MET132-019-01-A
	X		STAND, MX915/925 LOW CONTOUR MET132-009-01-A
	X		DATALOGIC GRYPHON GD440030 2D IMAGER GD440030-BC-B
	X		DATALOGIC CAB-327 SH3630 RUBY VERIFONE SERIAL CABLE, 8 90A051939
	X		20 STATION INTERCOM W/ COUNT BEING X 2 20 STATION (78-6911-4799-1) FOR AUTO AND 8 STATION (79-6911-4796-7) FOR TRUCK
			BRAVO EPOXY KIT PART NUMBER EP100
DISPENSERS	X		DRESSER WAYNE HELIX SERIES - 3+2 PRODUCT 000-920895
			WAYNE OVATION 2 ULTRA HIGH FOR DIESEL PLUS DEF (SEE SITE PLAN FOR LAYOUT WITH ALPHA NUMERIC KEYPAD)
			NOTE: CONTRACTOR SUPPLIED FUEL DISPENSER FILTERS AS FOLLOWS AND FOR
			VERSION 4 FLINT LOCS SHOULD BE PRESENT BOTH MANUFACTURERS PETROCLEAR ETHANOL 40510AAD & FOR DIESEL IT WILL BE THE PETROCLEAR 40530WAD
	X		OR DRESSER WAYNE OVATION 2 SERIES - HI SPEED W/ALPHA
			NUMERIC (NO FLINT LOC'S W/THESE) FUSION GATEWAY (IX) PRODUCT NO. 000-920895 (PETROCLEAR 4093WAD)
DISPENSER CONTAINMENT BOX, VALVES & FITTINGS	X		UPP SUMP FOR ENCORE OR HELIX POLY DISPENSOR SUMP
	X		2" UPP ENTRY FOR FIBERGLASS SUMPS PART NUMBER FEB-075
DISPENSER HOSE, NOZZLE & FITTINGS	X		006310 SWIVEL/STB COMBO 3/4" AND 159504 N, 10S UNL W CP UL HUSKY 3/4" FOR UNLEADED AND 159503 N, 10S LDD W/CP UL HUSKY 3/4" DSL NOZZLE FOR DIESEL
	X		HUSKY 005969 SWIVEL/STB 1" COMBO ASSEMBLY AND HUSKY 173310N, 8 W/CP PHG NL HUSKY 1" DSL NOZZLE AND UPDATE THE CURB HOSE TO THE FLEXING HOSE, FLHR301000BLK, ASSY HW 1" X 10' BLK, FIXED ENDS
TANKS	X		HALL TANK COMPANY CORPORATION -10'DIA. AS PER LOCATION. RE:A01
	X		ADD OR BLACK PIPE ON DIESEL BESIDE STAINLESS UNLESS ON A STP THEN ITS STAINLESS (VERIFY WITH OWNER)
	X		HALL TANK COMPANY CORPORATION -10'DIA. AS PER LOCATION. RE:A01.
SUBMERSIBLE MANHOLE COVER	X		14U-RT4210 STP 42" COMPOSITE STANDARD
SUBMERSIBLE PUMP TURBINE ENCLOSURE & FITTINGS	X		602402922 42" FRP SUMP
			ADHESIVE KIT: 602366924 SEAL KIT: 602366901
	X		CABLE TIGHT FLEXIBLE 1" CONDUIT, 000-100-1000-EC.
	X		2" DOUBLE WALL ELECTROFUSION, 303-075-EIF-U
SUBMERSIBLE PUMPS & FITTINGS (ADVANCE PROTECTION PUMPS)	X		REGULAR x2, PREMIUM x1, AUTO DIESEL x1, (4 HP VARIABLE) TRUCK DIESEL x2 (5 HP MAG FLO, 6" OPENINGS)(4 HP VARIABLE STP) WITH MECHANICAL LEAK DIRECTOR
	X		DEF MOTOR 403479901 AND ADD ROW BELOW FOR DEF STP, PUMP CONTROL BOX, 401220903 1.5 HP
	X		BRAVO ENTRY FITTING PART NUMBER F-10-F VFC CONTROLLER 4H.P
	X		FFS, STP-MLD+G (GASOLINE), 403168901 MECHANICAL LINE LEAK DIRECTOR
	X		FFS, STP-MLD+D (DIESEL), 403170901 MECHANICAL LINE LEAK DIRECTOR
	X		UNIVERSAL 213 FP
	X		JEFFERSON 1731 - 300 2" STAINLESS STEEL UNION
VAPOR RECOVERY/VENT	X		FFS 4" PLUG CAP GALV. STEEL

REMOTE DIRECT VAPOR RECOVERY	X		FFS DEFENDER SERIES SPILL BUCKETS #705545012CI-GKT	SINGLE WALL SPILL BUCKET
DIRECT FILL/GAUGE	X		EMCO SPILL BUCKET A1004EVR-31755101	5 GAL DOUBLE WALL NPT, ND
	X		EMCO A 1100 EOR 056T	4" FILL TUBE W/OVERFILL PREVENTION VALVE
	X		FFS; SWIVEL ADAPTOR (SWF-100-SS),	
	X		FFS; VAPOR CAP (777-201-02)	VENT CAP
	X		FFS; FILL CAP (4" EVR 304-301-01)	FILL CAP
	X		FFS; 2" PRESS VAC. VENT EVR 80020702	PRESSURE VENT
	X		FFS; SWIVEL ADAPTOR (SWV-100-SS)	
	X		FFS; 78710009	RU-REGULAR UNLEADED KIT
	X		FFS; 78710006	SU-SUPER UNLEADED KIT
	X		FFS; 78710003	D-DIESEL KIT
	X		4" RISER	
INVENTORY SENSOR MANHOLE/COVER	X		EMCO	EMCO PROBE MANHOLE PART NUMBER A1005-015TMF
	X		FFS EQUIVALENT	DIAMETER MANHOLES TWO WITH 24" MANHOLES
MONITORING WELL & MANHOLE/COVER	X		FFS EQUIVALENT	12" DIA MANHOLE
	X		FFS EQUIVALENT	MONITORING WELL WITH BOTTOM 4"X15'
	X		FFS EQUIVALENT	4" WATERTIGHT LOCKING TEST WELL CAP
PRODUCT PIPING, SECONDARY CONTAINMENT PIPING				
SYSTEM AND FITTINGS	X		UPP ELECTRO PIPING UL971	UPP PIPING, FITTINGS, ADHESIVE, ETC. (USE ALL PRODUCTS OF A SINGLE MANUFACTURER)
	X		UPP PIPING UL971	ALCOHOL RESISTANT ADHESIVE
FFS TANK MONITORING SYSTEM	X		T5000EDP	TS-5000 EVO FUEL MANAGEMENT SYSTEM W/PRINTER
NOTE: ALL STP TANK RISERS MUST BE STAINLESS STEEL, PER FFS ADVANCED PROTECTION STPS	X		TS-TT	(24HR) SCALD TANK TESTING SOFTWARE
	X		TS-TRAC	DISPENSER RECONCILIATION SOFTWARE
ATG WIRING REQUIREMENT: FFSATS WIRING BY CONTR. THHN, TFFN OR THWN, 18 AWG, WHITE & BLACK, OR ALPHA CABLE #58411, 0.114 O.D. -1,500 FEET (457 METERS) MAX. LENGTH ALPHA CABLE #58411 MUST BE USE WITH NONMETALLIC CONDUIT.	X		TS-PRB	12 INPUT PROBE MODULE
	X		TS-2WSNS	12 INPUT 2-WIRE SENSOR MODULE
	X		TS-3WSNS	8 INPUT 2-WIRE SENSOR MODULE
	X		4" RISER	
INTERSTITIAL WIRING REQUIREMENT: THHN, TFFN OR THWN, 18 AWG: RED, WHITE & BLACK OR ALPHA CABLE #58113, 0.131 O.D. - 1,500 FEET (457 METERS) MAX. LENGTH. ALPHA CABLE #58113 (INCON P/N 600-0063) MUST BE USED WHEN USING NONMETALLIC (PVC) CONDUIT.	X		TSP-IGF4P	4" FLOAT SET FOR GASOLINE AND ETHANOL BLENDED TANKS
	X		TSP-IDF4	4" FLOAT SET FOR DIESEL/FUEL OIL TANKS
	X		4" RISER	
	X		TSP-C4A	MAG PROBE INSTALL KIT FOR 4" RISER PIPES - BOTTOM MOUNT
	X		FMP-LL3-125	MAGNETOSTRICTIVE PROBE FOR 10 FOOT (3.05 M) DIAMETER TANKS
	X		TSP-UL5	UNIVERSAL LIQUID SUMP SENSOR
	X		TSP-EIS	ELECTRO-OPTIC INTERSTITIAL SENSOR
	X		TSP-KI2	INTERSTITIAL 2" RISER INSTALL KIT
TANK HOLD-DOWN HARDWARE*	X		HALL TANK COMPANY	HOLD-DOWN STRAP
TANK AND HOLD-DOWN HARDWARE PROVIDE BY THE FIKES COMPANY	X		BREWER-TICHENER #444-G OR "CROSBY" #G277	1" DIA 12" TAKE-UP JAW AND JAW TURNBUCKLE (SAFE WORKING LOAD LIMIT 10,000 LBS)
	X		BRODERICK & BASCOM - "YELLOW STRAND"	5/8" DIA DRAWN GALV WIRE ROPE 6 X 19 CLASS IWRC IMP. PLOW STEEL - (MIN BREAKING
	X			STRENGTH 17.9 TONS, SAFE WORKING LOAD = 7160 LBS
	X		BREWER-TICHENER #755G OR "CROSBY" #G408	STANDARD WIRE ROPE THIMBLE (OPEN PATTERN) HOT DIP GALV
	X		COVERT #3300 OR "CROSBY" #450 FIBERGLASS	5/8" WIRE ROPE CLIPS, HOT DIP GALV
TESTING	X		CERTIFIED CONTRACTOR TO PERFORM CARB TP-201.3	HYDROSTATIC TESTING FOR SPILL BUCKETS AND SUMPS PRECISION PRESSURE TESTING OF TANKS AND LINES
"U" POLE BUMPERS -STAINLESS STEEL, 3.5 O.D.			OPW 6PGR355-4350	SEE SITE PLAN FOR TYPE & SIZES
STRAIGHT POLE BUMPERS-PAINTED STEEL BIO			OPW SPG4-63	SEE SITE PLAN FOR TYPE & SIZES
			TSBB1M1A-RT	CONTROLLER - TRUCK STOP BIO BLENDER, 1 MAIN FLOW, 1 ADDITIVE FLOW, REAL-TIME RATIO BLENDING
			BP-CFCO-1N30	PRE-ASSEMBLED BLENDING PLATFORM, CEFCO EDITION, 1 IN TO 3 OUT
			BRAVO SUMP 5x5	BRAVO SUMP, 5FT X 5FT
			140-020-000	2" CLASS 150 RAISED FACE THREADED STEEL FLANGE FOR OUTBOUND LINES, THREE INCLUDED

			140-030-000	3" CLASS 150 RAISED FACE THREADED STEEL FLANGE FOR INBOUND LINE, ONE INCLUDED
			VF-S15	TOSHIBA VF-S15 7.5 HP VARIABLE FREQUENCY DRIVE FOR BIO PUMP MOTOR
FILTER FABRIC	X		MANUFACTURE	ANY SITE WHERE POOR SOIL CONDITIONS OR FLUCTUATING WATER TABLES ARE PRESENT (I.E. LOOSE SAND, TIDAL OR RAPIDLY CHANGING WATER, SLTY SOIL WITH WATER CONDITIONS, LOW STABILITY SOIL WITH LESS THAN 250 LBS/SQ.FT COHESION OR AN ULTIMATE BEARING CAPACITY OF LESS THAN 500 LBS/SQ.FT FOLLOW TANK AND FILTER FABRIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.
ELECTRIC WIRING	X		Bravo F-10-F	
	X			
	X		Flexible conduit	000-100-1000-EC
	X		Flexible conduit	000-100-1500-EC
	X		Coupler	02-033
	X		Spigotted rigid metal conduit	000-100-06-ERMC
*DEADMEN FURNISHED BY HALL TANK COMPANY (DELIVERED WITH TANKS TO JOBSITE)				
MANUFACTURERS OF CONTRACTOR-FURNISHED PRODUCTS				
AMERON				"VERIFONE", PHONE 800/837-4366; 402-232-7800
"BREWER-TICHENER" (COOPER TOOLS), PHONE 919/362-7510				"HALL TANK COMPANY", PHONE
"BRODERICK & BASCOM", PHONE 908/964-4477				"BELDEN", PHONE 800/235-3361
"COVERT" (COOPER TOOLS), PHONE 919/362-7510				"RED JACKET", PHONE 800/777-2480; 913/831-5700
"CROSBY", PHONE 918/834-4611				"VEEDER-ROOT", PHONE 860/651-2753; 860/651-2700
"FFS"; FRANKLIN FUELING SYSTEMS, PHONE 608/838-8786				"WATTS", PHONE 603/934-1107
"MORRISON BROS. CO.", PHONE 800/553-4840				"BIO" PHONE 217/224-9725 EXT 102
"OPW", PHONE 800/422-2525				

NOTE:
CEFCO WILL PROVIDE LIST OF FUEL SYSTEMS MATERIALS BEING PROVIDED.

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281-398-2020

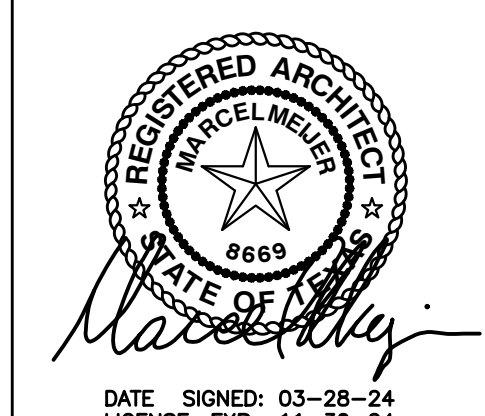
PROJECT NUMBER
CEP22-FP7.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



DATE SIGNED: 03-28-24
LICENSE EXP: 11-30-24

DRAWINGS ISSUED FOR:

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10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
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03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT

This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

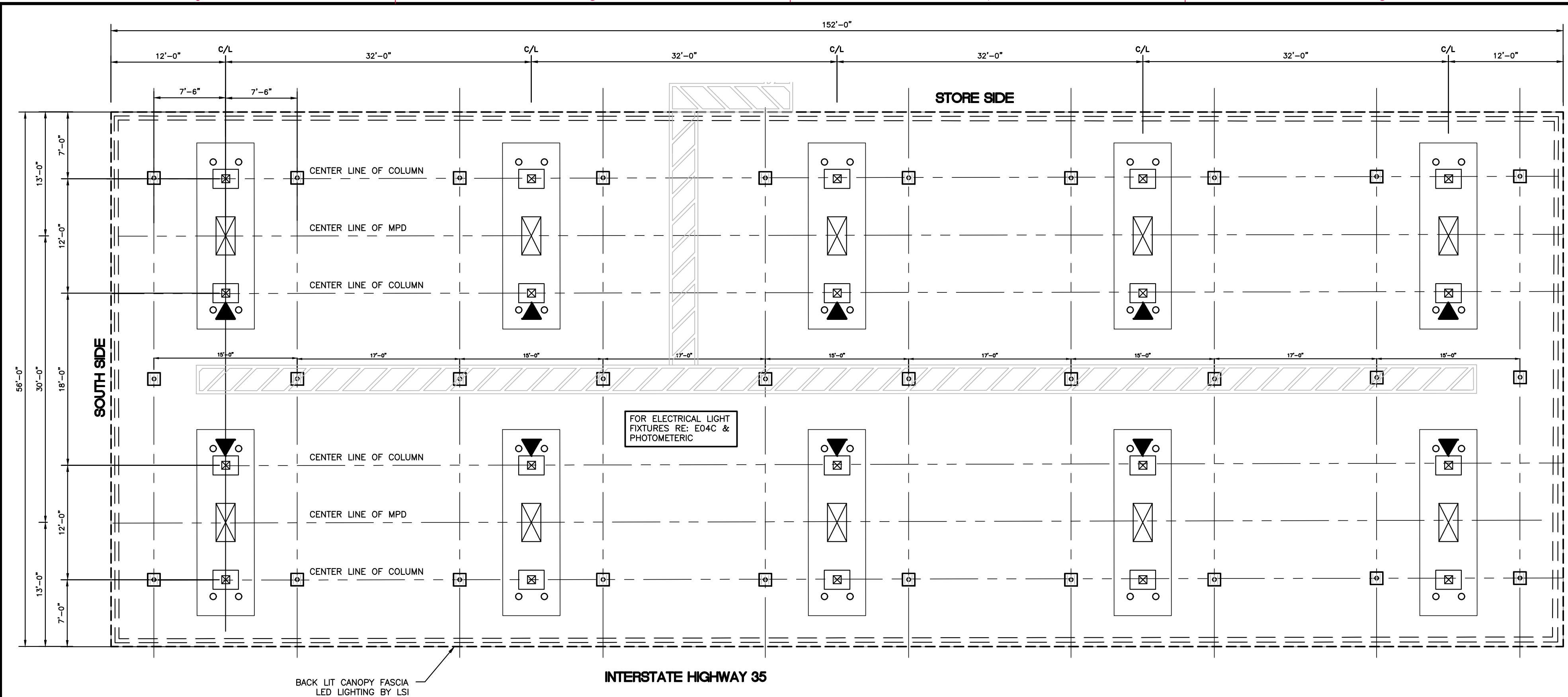
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SHEET TITLE

FUEL PRODUCT FLOOR PLAN AND ISLAND DETAILS

DRAWING NUMBER SHEET NO.

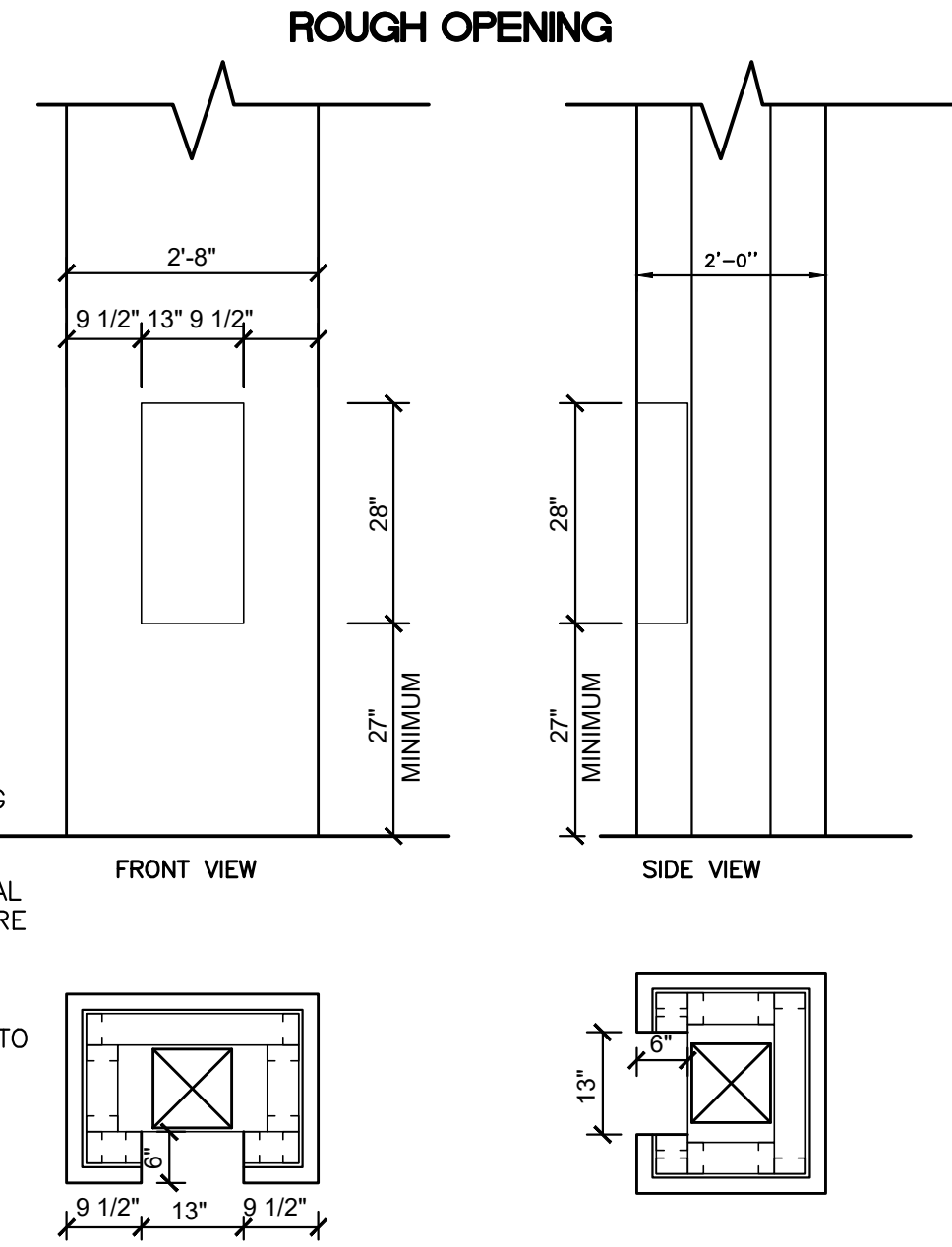
FP7



23 PLAN - CANOPY
SCALE: 1/8"=1'-0"
RE: SITE PLAN

GAS PUMP SIGNAGE:
•MADE OF .063 HEAVY-DUTY ALUMINUM.
•PRINTED ON TWO SIDES.
•ROUNDED CORNERS.
•1" BEND WITH INDUSTRIAL STRENGTH DOUBLE SIDED TAPE.
•PREDRILLED MOUNTING HOLES FOR ADDITIONAL SECURITY.

NOTES:
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL BEFORE COMMENCEMENT OF WORK. VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE.



7 TYPICAL FIRE EXTINGUISHER DETAIL
SCALE: N.T.S.
RE: FIRE EXTINGUISHER AND CABINET CHART TFP7 FOR MORE INFORMATION.

FIRE EXTINGUISHER CABINET:
BY LARSEN'S MANUFACTURING
#2712-RK-FULL PANEL-AL-SQUARE TRIM SEMI-RECESSED RED VERTICAL LETTERING. CABINET AND FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. VERIFY SIZE WITH MANUFACTURER PRIOR TO CONSTRUCTION.

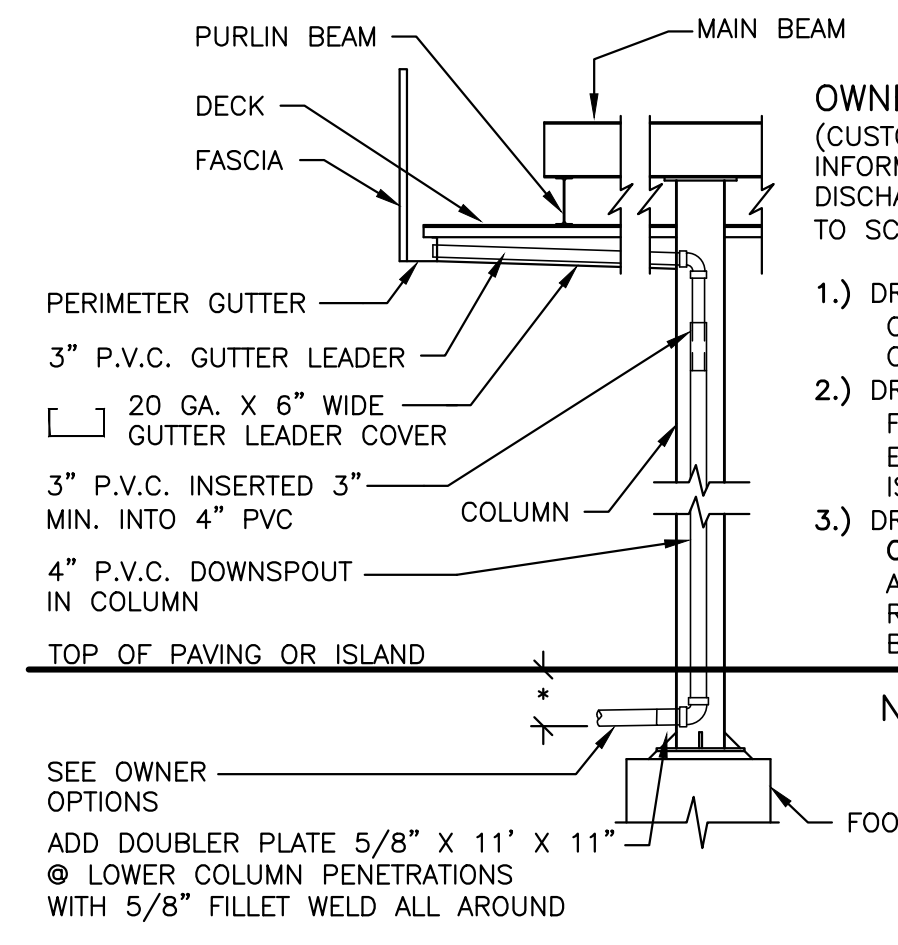
SYMBOL	QTY	LIGHT TYPE	LABEL	ARRANGEMENT	LLF	DESCRIPTION
☐	30	Canopy Light	LEGACY LED	SINGLE	0.910	CRUS-SC-LED-VHO-CW-UE
—	—	LED Canopy Fascia	3-ROWS LED LIGHTING			
▲	10	CABINET BY LARSEN'S MANUFACTURING #2712-RK-FULL PANEL-AL SQUARE TRIM SEMI-RECESSED RED VERTICAL LETTERING. CABINET AND FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (ABC DRY CHEMICAL - 5 LB.)				

RE: E04 FOR ELECTRICAL LIGHTING

RE: CIVIL FOR DRAINAGE SPECIFICATIONS.

NOTE:
CANOPY ON THIS DOCUMENT ARE FOR ILLUSTRATION ONLY. VERIFY WITH SITE PLAN FOR THE LOCATION OF PRODUCT DISPENSER UNITS.

RE: FP1/SITE PLAN FOR THE EXACT LOCATION.

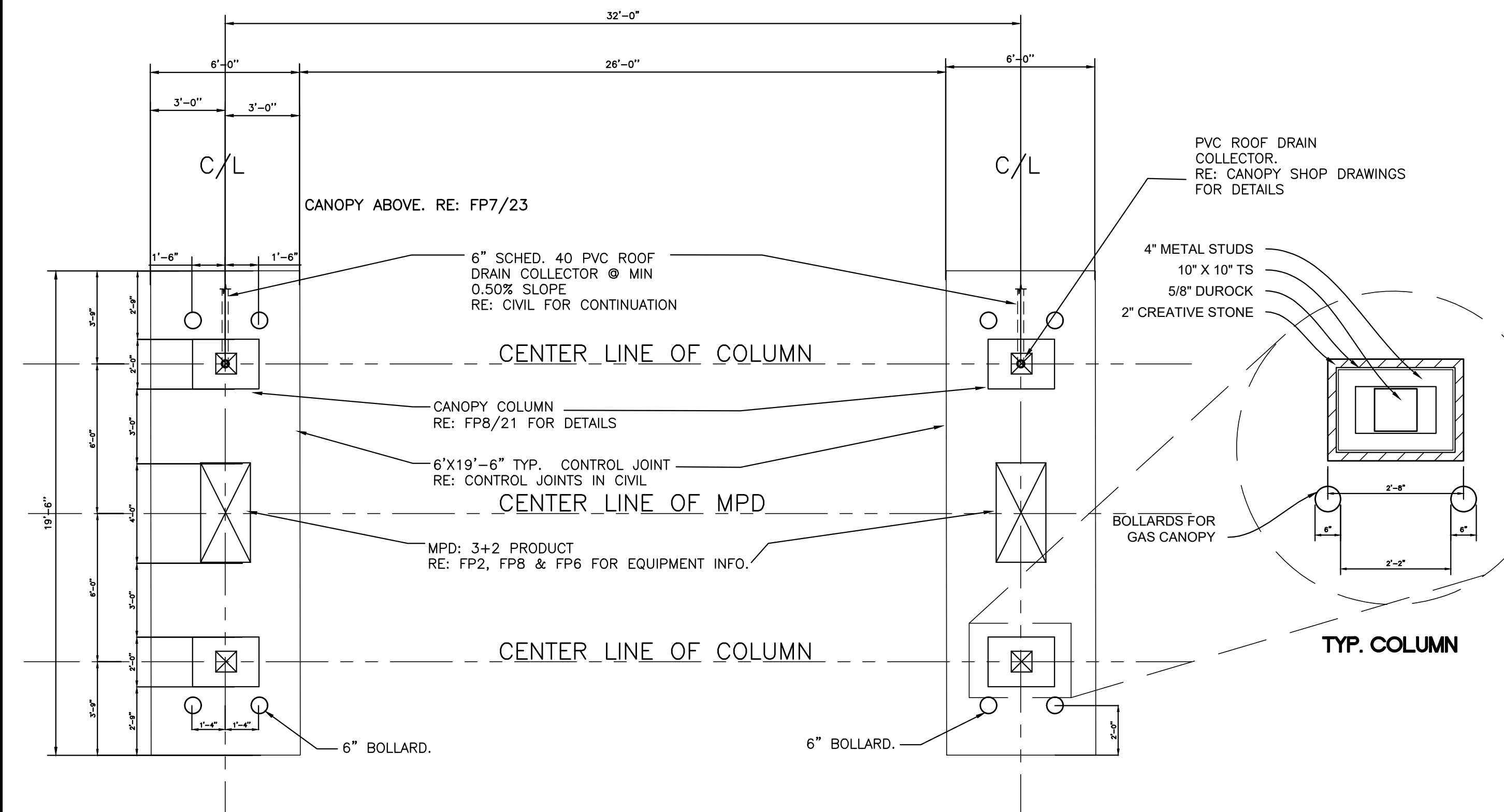


11 INTERNAL DRAIN DETAIL
SCALE: N.T.S.
RE: SITE PLAN

OWNER OPTIONS:
(CUSTOMER TO SELECT OPTION BELOW AND INFORM CANOPY INSTALLER OF DIRECTION OF DRAIN DISCHARGE AT LEAST TWO WEEKS PRIOR TO SCHEDULED DELIVERY):

- 1.) DRAIN ONTO ISLAND/PAVING * = 0", CUT OFF PVC PIPE STUB APPROX. 1/2" OUTSIDE OF COLUMN.
- 2.) DRAIN TO PAVING THRU SIDE OF ISLAND FORM. * = 4", PROVIDE PVC PIPE EXTENSION TO PROJECT 1/4" OUT OF ISLAND FORM.
- 3.) DRAIN BELOW GROUND * = 12" MAX. CANOPY INSTALLER WILL FURNISH AND INSTALL A 3" LONG PIPE STUB OUT OF THE COLUMN. REMAINING PIPING TO STORM DRAIN SYSTEM BY GENERAL CONTRACTOR.

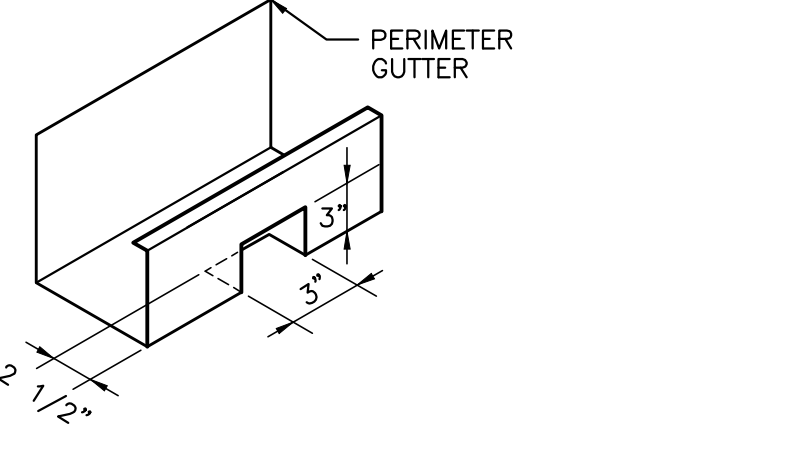
NOTE: CANOPY INSTALLER SHALL FURNISH AND INSTALL CANOPY DRAINS, EXCEPT AS INDICATED IN NOTE 3 ABOVE



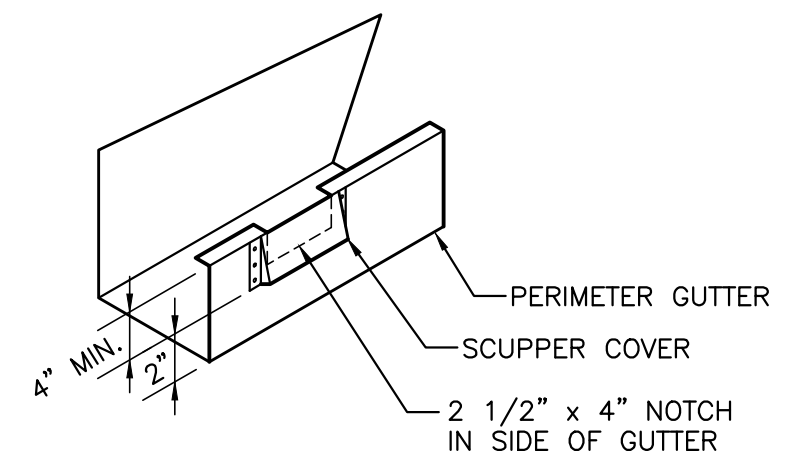
21 PLAN - FUEL PUMP DISPENSER
SCALE: N.T.S.
RE: SITE PLAN

SCOPE OF WORK / CONTRACTORS RESPONSIBILITIES:

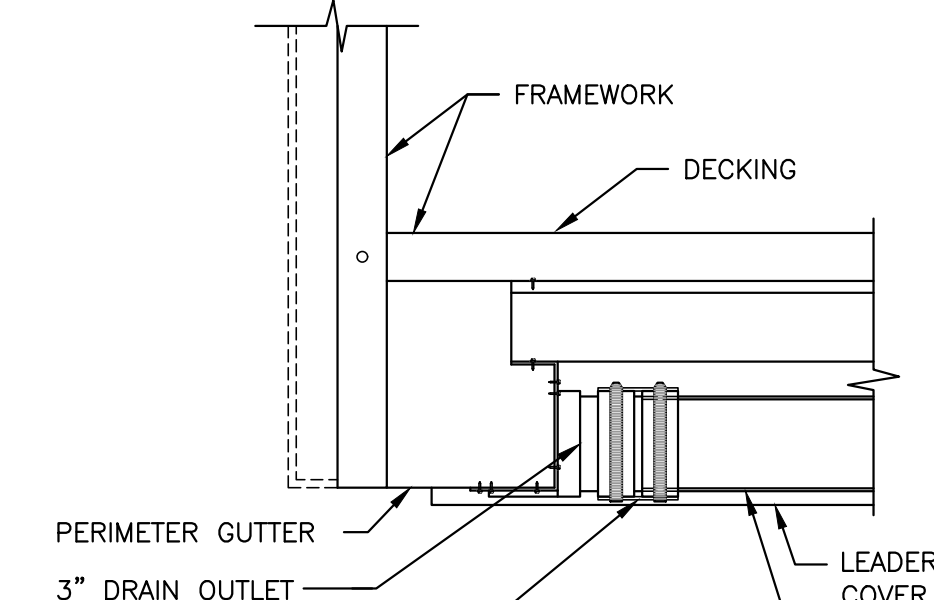
1. CANOPY STRUCTURAL SYSTEM AND FASCIA SUPPLIED BY OWNER. INSTALLED BY GENERAL CONTRACTOR.
2. FASCIA SYSTEM PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY GENERAL CONTRACTOR.
3. LIGHTS PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY GENERAL CONTRACTOR.
4. CANOPY COLUMN FRAMING SYSTEM AND STONE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.



10 LEADER CONNECTION DETAIL
SCALE: N.T.S.
RE: CANOPY SHOP DRAWINGS



9 OVERFLOW SCUPPER DETAIL
SCALE: N.T.S.
RE: CANOPY SHOP DRAWINGS



DECKING AND FRAMEWORK
PERIMETER GUTTER
3" DRAIN OUTLET
3" FLEX COUPLING
W/2" CLAMPS
LEADER COVER
3" PVC TO COLUMN

CONSISTENT BRANDING
THE PUMP ISLAND IS THE PRIMARY INTERFACE BETWEEN CEFCO AND THE MOTORING PUBLIC. IT IS THE EXCHANGE VENUE FOR CEFCO PRODUCTS AND SERVICES. CONSISTENCY IN BRANDING AND OPERATIONAL EXCELLENCE IS CRITICAL IN FORMING AND SUSTAINING AN EXCEPTIONAL MAKE AMONG CUSTOMERS. EVERY LOCATION SHOULD STRIVE TO ALWAYS KEEP THEIR FOREFRONT IN PRISTINE CONDITION WITH ALL FUELING DISPENSERS IN PERFECT OPERATING ORDER. ALL PERMANENT GRAPHICS ON THE PUMP ISLAND ARE TO BE CEFCO STANDARD. VARIABLE MESSAGES AT POP LOCATIONS (PUMP TOPPERS, WHETHER STATIC OR ELECTRONIC VIDEO) ARE TO COMPLY WITH BRAND STANDARDS.

CUSTOMER EXPERIENCE
PUMP ISLANDS ARE DESIGNED TO ACCOMMODATE ALL DISPENSER TYPES AND A VARIETY OF FACILITIES TO MAKE REFUELING EASY AND CONVENIENT. THEY ALSO ENABLE SAFE, EFFICIENT AND SIMPLE REFUELING. THE POSITIONING OF RVI EVOLUTION ELEMENTS IS ESSENTIAL TO CREATE A CONSISTENT CUSTOMER EXPERIENCE AT EVERY SITE.

DISPENSER VALANCE
ALL DISPENSERS THAT DELIVER CEFCO-BRANDED FUELS IN THE US SHOULD HAVE VALANCES INSTALLED. DISPENSER VALANCES ARE AVAILABLE TO FIT NEARLY ALL DISPENSERS IN THE CEFCO NETWORK.

DECAL APPLICATION & ORIENTATION
THE VALANCE DECAL IS TO CEFCO STANDARDS.

POSITIONING
PUMP NUMBERS SHOULD BE ARRANGED TO PROVIDE MAXIMUM VISIBILITY WHEN VIEWED FROM THE STORE. THIS EXAMPLE ILLUSTRATES PUMP NUMBER POSITIONING AT SITES WHERE THE PUMP ISLANDS ARE PERPENDICULAR TO THE STOREFRONT. DIFFERENT SITE LAYOUTS WILL HAVE AN IMPACT ON THEIR EFFECTIVENESS, AND MAY REQUIRE SOME VARIATIONS IN PUMP NUMBER PLACEMENT.

NUMBERING
WHEN ALLOCATING NUMBERS TO PUMPS, START NEAREST THE MAIN SITE ENTRANCE.

PUMP LIVERY
THE OBJECTIVE OF THE PUMP LIVERY IS TO ENSURE THAT ALL FUEL DISPENSERS AT ALL RVI SITES IN ALL NETWORKS, REGARDLESS OF SHAPE OR FORM, ARE CLEARLY IDENTIFIED AS CEFCO FUEL DISPENSERS.

EXCLUSIONS
THE DISPENSER MAY NOT BE USED FOR DISPLAYING ANY FORM OF PROMOTIONAL SIGNS OR GRAPHICS OTHER THAN APPROVED ON-SITE CEFCO SERVICES, PRODUCTS AND PROMOTIONS.

ALLOWANCES
AT LEGACY LOCATIONS, DISPENSERS WITH STAINLESS STEEL END PANELS ARE PERMITTED IF ALL THE DISPENSERS AT THE SITE ARE CLAD WITH STAINLESS STEEL END PANELS. BLACK BEZEL AREAS (FACES) ON EXISTING DISPENSERS ARE ALLOWED TO REMAIN UNTIL REPLACED. HOWEVER, DISPENSERS WITH ANY OTHER FACE COLOR, OTHER THAN WHITE OR BLACK) MUST BE RETROFITTED WITH CEFCO FACES.

LABEL APPLICATION
PRODUCT LABELS VARY IN SIZE AND SHAPE ACCORDING TO THE DISPENSER TO WHICH THEY ARE BEING APPLIED. GENERALLY, PRODUCT NAMES SHOULD CENTER OVER THE PUMP ACTIVATOR, AND ALL PRODUCT NAMES SHOULD ALIGN TO THE SAME BASELINE. ON ANY DISPENSER, ALL PRODUCT NAMES MUST BE DISPLAYED IN THE SAME SIZE FONTS.

COLOR CODING
FUEL DISPENSER NOZZLES SHOULD BE COLORCODED ACCORDING TO FUEL TYPE:
- GASOLINE: BLACK NOZZLE BOOT AND SPLASH GUARD
- DIESEL: GREEN NOZZLE BOOT AND SPLASH GUARD
- ETHANOL: BLACK NOZZLE BOOT AND SPLASH GUARD
ALL PRODUCT HOSES ARE NORMALLY BLACK, BUT FOR EMPHASIS DIESEL HOSES MAY BE GREEN.

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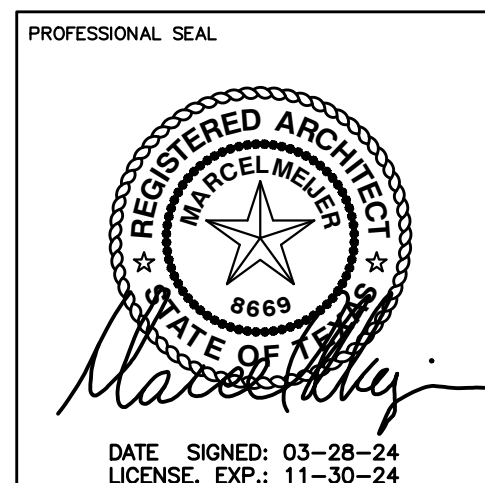
INTERPLAN ARCHITECTS, INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FP8.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
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SCOPE OF THE DOCUMENT
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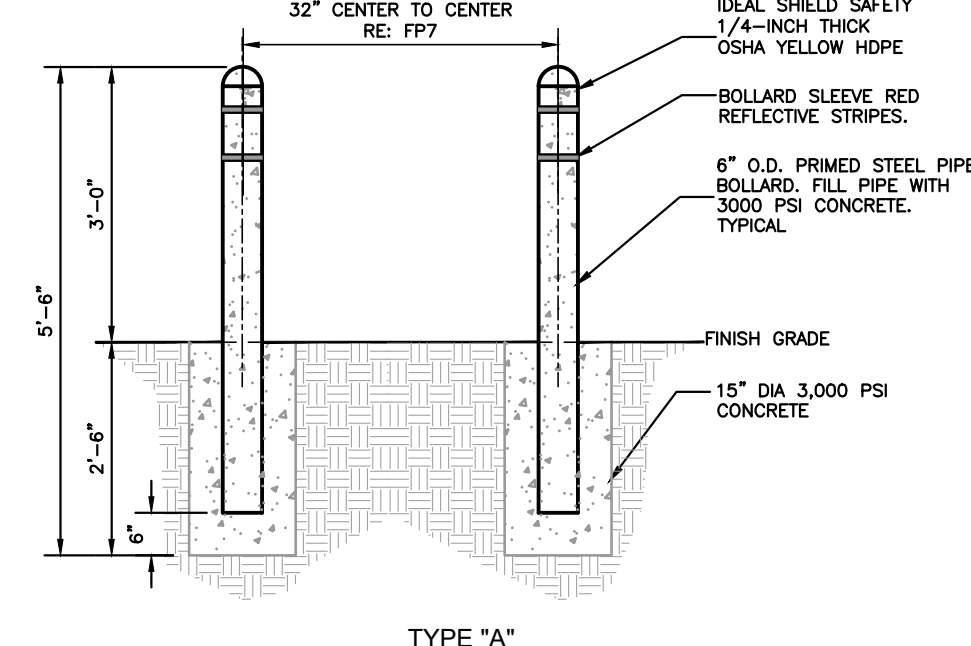
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SHEET TITLE
FUEL PRODUCT CANOPY ELEVATIONS

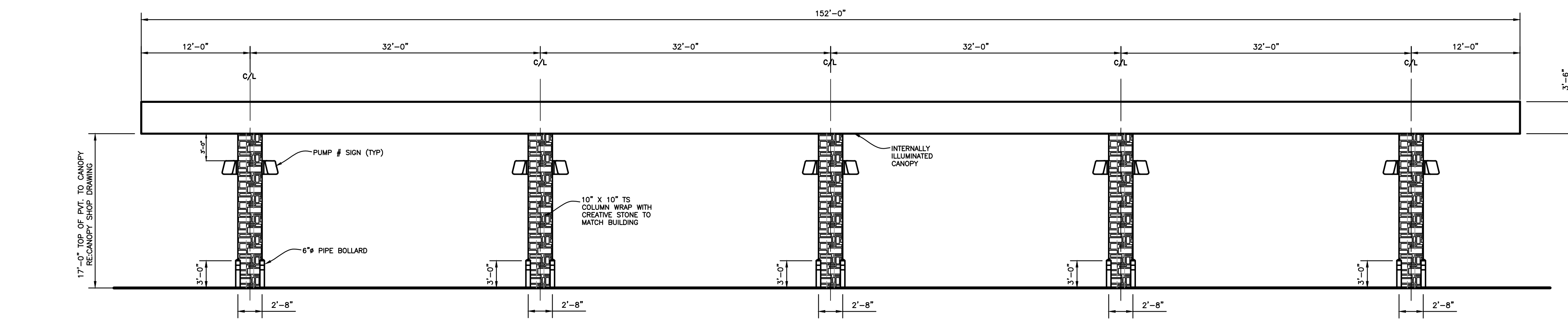
DRAWING NUMBER
FP8

- NOTE - MINIMUM FUEL CANOPY DESIGN CRITERIA:**
- WIND LOAD 139 MPH
W/ 3 SEC. GUST OF 139.0 MPH
- 308.1 GENERAL:** REACH RANGES SHALL COMPLY WITH 308.
- NOTE:** VEHICLE PROTECTION: IN COMPLIANCE WITH SECTIONS 312.2 AND 2306.7.3
- DISPENSER HOSE:** HOSES SHALL BE A MAXIMUM OF 18 FEET LENGTH PER SECTION 2206.7.5
- BREAKAWAY DEVICES:** TO COMPLY WITH UL LISTED BREAKAWAY DEVICE FOR EACH HOSE PER SECTION 2206.7.5.1
- FIRE EXTINGUISHERS:** TO COMPLY WITH SECTION 205. REFER TO SHEET FP7 FOR A CABINET DETAILS AND SPECIFICATIONS.
- WARNING SIGNS:** TO COMPLY WITH PER SECTION 2205.6

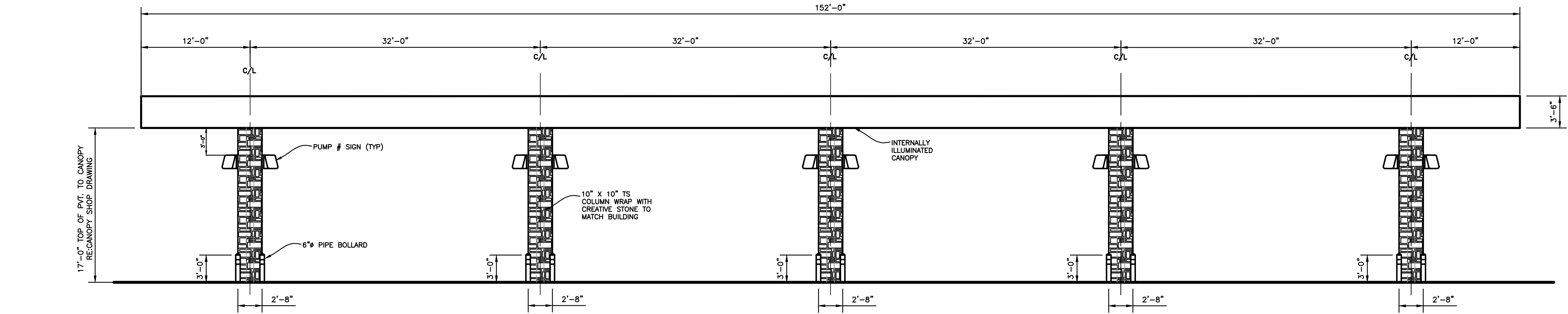
- NOTE:** WARNING SIGNS IN ACCORDANCE WITH 2021 IFC SHALL BE POSTED. (or latest issue)
- NO SMOKING
 - SHUT OFF MOTOR
 - DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM NOZZLE. TO PREVENT STATIC CHARGE, DO NOT REENTER YOUR VEHICLE WHILE GASOLINE IS PUMPING.
 - IF A FIRE STARTS, DO NOT REMOVE NOZZLE - BACK AWAY IMMEDIATELY
 - IT IS UNLAWFUL AND GENEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS.
 - NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE. PLACE CONTAINER ON GROUND BEFORE FILLING.



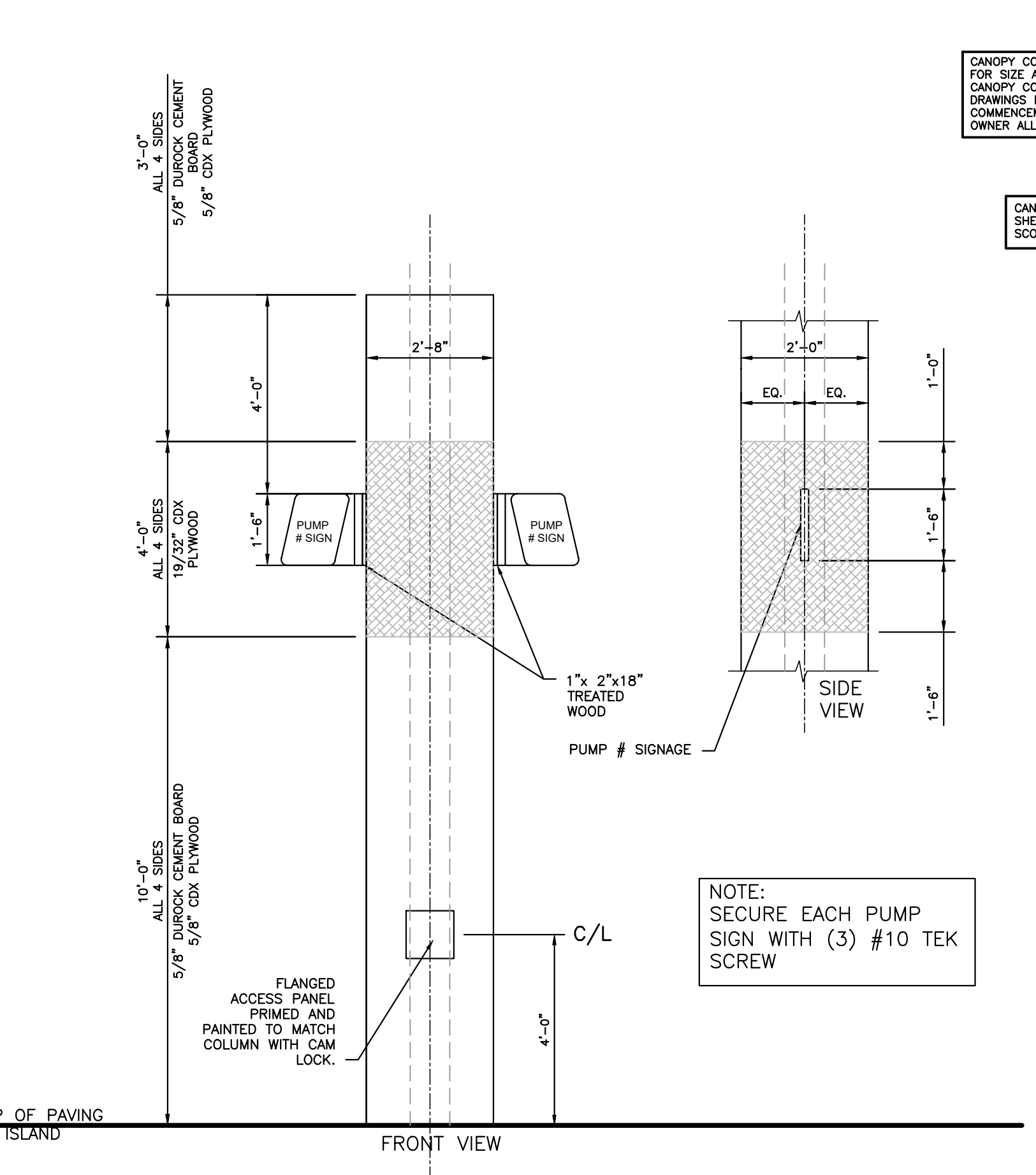
- NOTES:**
1. MANUFACTURER: IDEAL SHIELD
 2. PRODUCT NAME: 1/4" BOLLARD COVER
 3. COLOR NAME: OSHA YELLOW WITH RED REFLECTIVE STRIPES MATERIAL 1/4" THICK POLYETHYLENE THERMOPLASTIC (HDPE)
 4. TRIM: DOME TOP PLASTIC CAP
 5. INSTALLATION: INSTALL WITH MANUFACTURERS NEOPRENE ADHESIVE TAPE PER MANUFACTURERS INSTALLATION GUIDELINES.
- CONTRACTOR TO FIELD CUT BOLLARD COVER AS REQUIRED TO FIT 36" IN HEIGHT BOLLARD.



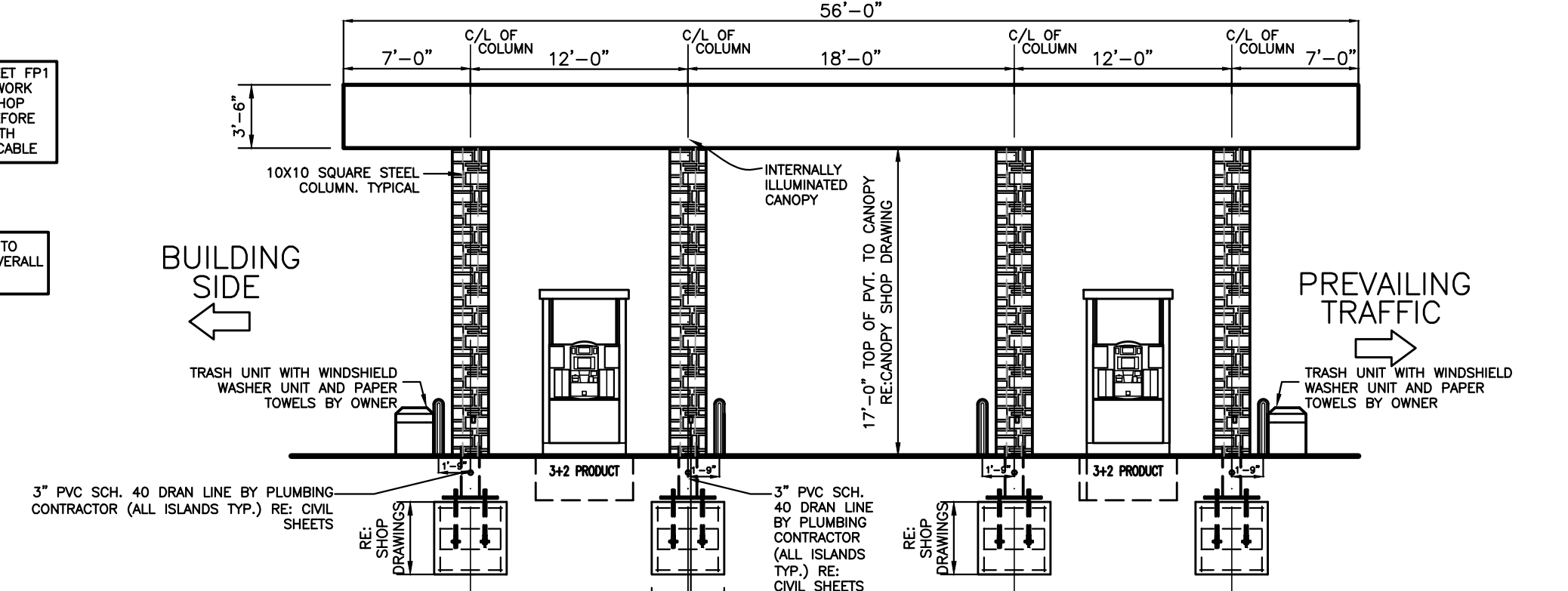
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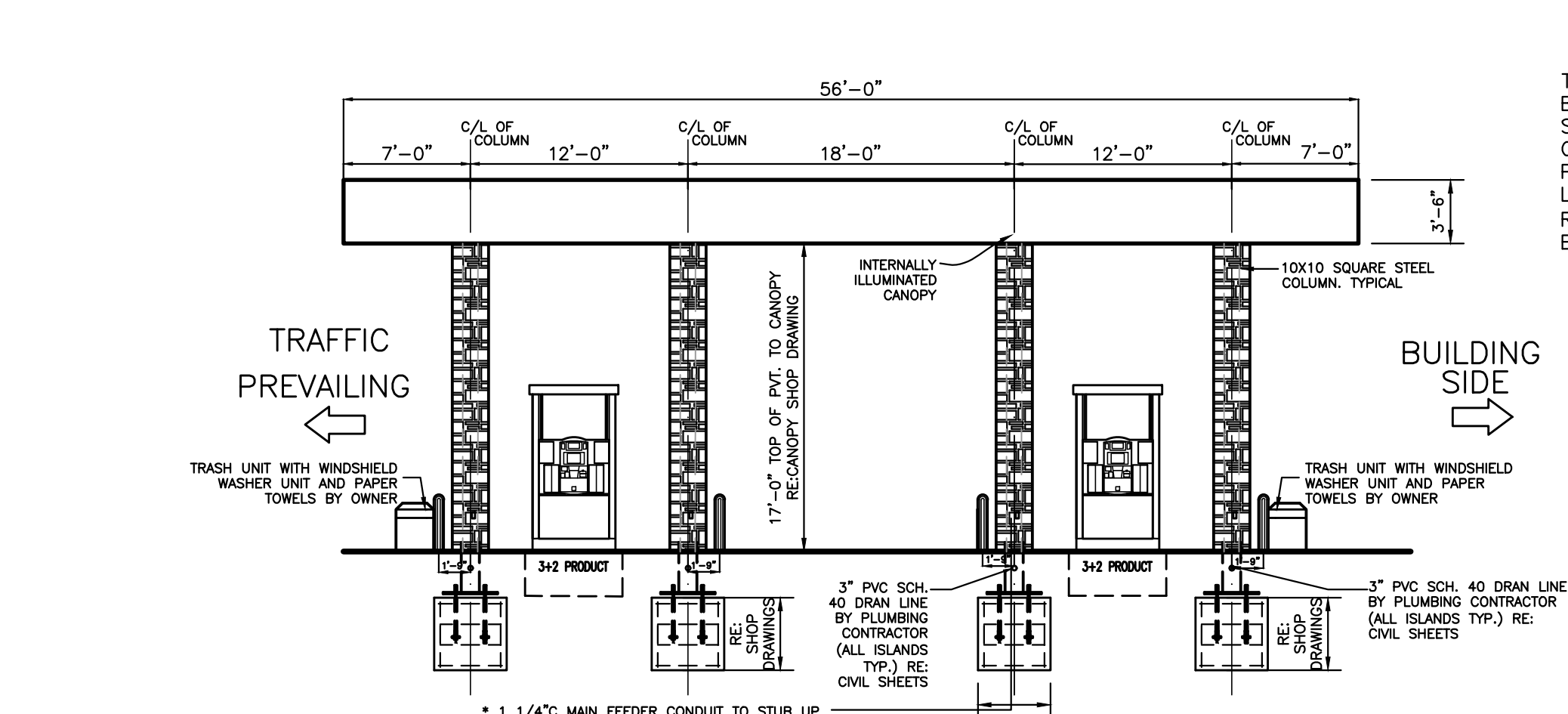
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NOTE: SECURE EACH PUMP SIGN WITH (3) #10 TEK SCREW



NOTE: CANOPY CONTRACTOR REFER TO SHEET FP1 FOR SIZE AND OVERALL SCOPE OF WORK. CANOPY CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL BEFORE COMMENCEMENT OF WORK. VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE



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WAYNE HELIX DISPENSER
SCALE: N.T.S.
3

UNDERGROUND FUEL INSTALLATION AND THE PERFORMANCE SPECIFICATIONS

1 GENERAL CONDITIONS

PART 1 - GENERAL

- SCOPE OF WORK: THE WORK INCLUDED IN THE CONTRACT FOR THIS PROJECT CONSISTS OF THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETE CONSTRUCTION OF AN UNDERGROUND FUEL INSTALLATION FOR THE PROJECT HEREBY REPRESENTED.

PART 2 - AGREEMENT

- CONTRACTOR FORM SHALL BE THE OWNER'S "CONSTRUCTION AGREEMENT" DATED, AND RELATED INSURANCE SPECIFICATIONS. A COPY OF THIS CONTRACT IS AVAILABLE THROUGH THE OWNER'S OFFICE OR SITE MANAGER FOR REVIEW.
 - OWNER: WHENEVER THE WORD "OWNER" APPEARS IN THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, IT SHALL BE DEEMED TO READ: CEFCO
 - CONTRACTOR: WHENEVER THE WORD "CONTRACTOR" APPEARS IN THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, IT SHALL BE DEEMED TO READ "GENERAL UNDERGROUND FUEL/DEF INSTALLATION CONTRACTOR."
- PART 3 - INTENT OF DRAWINGS AND SPECIFICATIONS**
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PRESCRIBE A COMPLETE WORK OR IMPROVEMENT WHICH THE CONTRACTOR UNDERTAKES TO DO IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DO ALL WORK AS MAY BE NECESSARY TO COMPLETE THE WORK IN A SATISFACTORY AND ACCEPTABLE MANNER.
 - THE CONTRACTOR SHALL, UPON DISCOVERY, REPORT ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS TO THE OWNER'S CONSTRUCTION MANAGER.
 - THE DRAWINGS AND SPECIFICATIONS ARE INTENDING TO BE COMPLEMENTARY. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH. GENERALLY, THE SPECIFICATIONS DESCRIBE WORK WHICH CANNOT BE READILY IDENTIFIED ON THE DRAWINGS AND INDICATE TYPES, QUALITIES, AND METHODS OF INSTALLATION OF THE VARIOUS MATERIALS AND EQUIPMENT REQUIRED FOR THE WORK. IT IS NOT INTENDED TO MENTION EVERY ITEM OF WORK IN THE SPECIFICATIONS WHICH CAN BE ADEQUATELY SHOWN ON THE DRAWINGS NOR TO SHOW ON THE DRAWINGS ALL ITEMS OF WORK DESCRIBED OR REQUIRED BY THE SPECIFICATIONS EVEN IF THEY ARE OF SUCH NATURE THAT THEY COULD HAVE BEEN SHOWN THEREON.
 - ALL MATERIALS OR WORK WHICH IS SHOWN ON THE DRAWINGS OR IS REASONABLY INFERRABLE AS BEING NECESSARY TO PRODUCE A FINISHED JOB SHALL BE PROVIDED BY THE CONTRACTOR WHETHER OR NOT THE WORK IS EXPRESSLY COVERED IN THE SPECIFICATIONS.
 - THE CONTRACTOR, SUBCONTRACTORS AND ALL TRADES SHALL EXAMINE THE SITE AND ASCERTAIN EXISTING CONDITIONS PRIOR TO THE START OF THEIR PORTIONS OF THE WORK. BEFORE ORDERING MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL MEASUREMENTS AT THE SITE. ANY DIFFERENCES WHICH MAY BE FOUND BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. IF SUCH AN ERROR IS IDENTIFIED AND MEASUREMENTS INDICATED ON DRAWINGS UNLESS A SUBSTANTIAL ERROR HAS BEEN MADE. IF SUCH AN ERROR SHOULD OCCUR, IT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND OWNER'S AGENT AND RESOLVED BEFORE PROCEEDING WITH WORK.
 - THE ORGANIZATION OF SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS, AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.
 - DRAWINGS AND SPECIFICATIONS: DRAWINGS INDICATE GENERAL DESIGN AND ARRANGEMENTS. DRAWINGS ARE DIAGRAMATIC AND ARE NOT SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND EQUIPMENT TO BE FURNISHED. VERIFY DIMENSIONS IN THE FIELD.

PART 4 - RESPONSIBILITY OF THE CONTRACTOR

- CONTRACTOR HEREBY DECLARES HE HAS READ ALL SPECIFICATIONS AND EXAMINED THE DRAWINGS AND THAT HE UNDERSTANDS ALL CONDITIONS.
- CONTRACTOR HEREBY DECLARES HE HAS VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS THERE. HE SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL MEASUREMENTS ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. IF, IN THE PERFORMANCE OF THE CONTRACT, LATENT CONDITIONS AT THE SITE ARE FOUND TO BE MATERIALLY DIFFERENT FROM THOSE INDICATED BY THE DRAWINGS AND SPECIFICATIONS, OR UNKNOWN CONDITIONS UNUSUAL IN THIS CLASS OF WORK, THIS CHANGES SHOWN AND SPECIFIED, THE ATTENTION OF THE OWNER AND THE OWNER'S AGENT SHALL BE CALLED IMMEDIATELY TO SUCH CONDITIONS BEFORE THEY ARE DISTURBED.
- CONTRACTOR HEREBY DECLARES THAT HE HAS READ AND IS FAMILIAR WITH THE APPLICABLE SOILS REPORT. CONTRACTOR SHALL BE RESPONSIBLE FOR STRICTLY ADHERING TO THE RECOMMENDATIONS OF SAID SOILS REPORT FOLLOWING ALL APPLICABLE PROCEDURES NOTED THEREIN. EXISTING CONDITIONS SHALL DETERMINE THE UTILIZATION OF TANK STRAPS AND TYPE OF BACKFILL MATERIAL SHOULD GROUND WATER CONTAMINATION BE DISCOVERED DURING TANK EXCAVATION, WORK SHALL BE SUSPENDED PENDING REVIEW BY OWNER/OWNER'S AGENT OR REPRESENTATIVE.
- CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY OBJECTION TO MATERIALS, APPLIANCES, OR METHODS OF CONSTRUCTION SHOWN OR SPECIFIED TO THE OWNER/OWNER'S AGENT AND OBTAIN A DECISION BEFORE PROCEEDING.
- PROPOSALS: CONTRACTOR SHALL SUBMIT BID ON OWNER'S FORM "ESTIMATE FORM." PROPOSALS SUBMITTED ON ANY OTHER FORM SHALL BE REJECTED AND RETURNED. PROPOSALS NOT COMPLETELY AND PROPERLY FILLED OUT SHALL BE REJECTED. PROPOSALS SHALL INCLUDE MONIES FOR REMOVAL OF ALL EXISTING IMPROVEMENTS AS REQUIRED FOR UNDERGROUND FUEL INSTALLATION.
- PERMITS: CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING AND PAYING FOR ALL APPLICABLE STATE AND LOCAL PERMITS AND APPLICATIONS AS RELATED TO THIS WORK. COPIES OF PERMITS AND CERTIFICATES SHALL BE FORWARDED THE OWNER/OWNER'S AGENT OR SITE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. FINAL CERTIFICATION OF ACCEPTANCE BY GOVERNING AUTHORITIES SHALL ALSO BE ON FILE WITH THE OWNER OR SITE CONTRACTOR PRIOR TO THE PROCESSING OF FINAL PAY REQUEST.
- INSPECTIONS: CONTRACTOR SHALL BE REQUIRED TO ADHERE TO ALL REQUIREMENTS OF OWNER'S INSPECTION PROGRAM. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR NOTIFICATION, SITE PREPARATION, COMPLIANCE, ON-SITE INSPECTION, COMPLIANCE DURING INSPECTION AND CORRECTION OF ANY DEFECTS OR RELATED PROBLEMS AS DIRECTED BY ALL LOCAL GOVERNMENTAL INSPECTING REPRESENTATIVES. CONTRACTOR SHALL PROVIDE NO LESS THAN 48 HOURS NOTICE PRIOR TO INSPECTION.
- COORDINATION: UNDERGROUND FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL PHASES OF THE FUEL INSTALLATION WITH THE GENERAL CONTRACTOR IN CHARGE OF THE BUILDING OR MAJOR PORTION OF THE PROJECT. THE BUILDING GENERAL CONTRACTOR AND THE UNDERGROUND FUEL CONTRACTOR SHALL JOINTLY DEVELOP A MUTUALLY AGREABLE SCHEDULE AND TIMETABLE FOR COMPLETION OF THE UNDERGROUND FUEL INSTALLATION. TIMETABLE FOR BUILDING AND UNDERGROUND FUEL SHALL COINCIDE AND COMPLEMENT EACH OTHER SO THAT ONE DOES NOT DELAY THE OTHER SHOULD UNDERGROUND FUEL CONTRACTOR FAIL TO MEET DEADLINES AS ESTABLISHED BY THE SCHEDULE AND/OR HOLD UP THE COMPLETION OF THE OVERALL BUILDING PROJECT. THE OWNER/OWNER'S AGENT RESERVES THE RIGHT TO RE-EVALUATE THE SITUATION ACCORDINGLY.
- CONTRACTOR SHALL PROVIDE OWNER WRITTEN CERTIFICATION AS TO THE FOLLOWING:
 - 4.9.1 CERTIFICATION FROM LOCAL/STATE GOVERNING AUTHORITIES AS APPLICABLE FOR CONTRACTOR CERTIFICATION/LICENSING FOR INSTALLATION OF UNDERGROUND FUEL STORAGE SYSTEM.
 - 4.9.2 CERTIFICATION FROM EQUIPMENT MANUFACTURERS AND SUPPLIERS (TANKS, PRODUCT LINES, GTM'S, ETC.) AS TO ATTENDING AND ACHIEVING CERTIFICATION FROM APPROPRIATE COMPANY FOR INSTALLATION OF EQUIPMENT.
 - 4.9.3 CERTIFICATION ON APPROPRIATE FORMAT AS TO INSTALLATION OF COMPLETE SYSTEM BEING PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
 - 4.9.4 CERTIFICATION THAT ALL EQUIPMENT EITHER SUPPLIED BY OWNER OR CONTRACTOR HAS BEEN INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS BY PERSONNEL TRAINED AND QUALIFIED FOR THAT SPECIFIC ITEM.
- PAYMENTS SHALL BE MADE AS PER THE CONTRACT.
- LIENS: CONTRACTOR SHALL PERMIT NO LIENS OF ANY KIND TO BE FIRED UPON OR AGAINST THE PROPERTY BY ITS LABORERS, MECHANICS OR MATERIALMEN, AND SHALL INDEMNIFY, PROTECT AND SAVE OWNER HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND LIENS.
- EQUIPMENT RESPONSIBILITY: CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, RECEIVING, UNLOADING, HANDLING AND PROVIDING PROTECTED INSIDE STORAGE FOR ALL OWNER SUPPLIED EQUIPMENT. CONTRACTOR SHALL INSPECT EQUIPMENT UPON RECEIPT AND IMMEDIATELY REPORT ANY DAMAGE DUE TO SHIPPING TO THE OWNER/OWNER'S AGENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS. DISPENSERS SHALL BE PROTECTED WITH SHIPPING BOXES UNTIL STORE IS TURNED OVER FOR OPENING. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUATE AND LOCKED STORAGE OF OWNER'S MISCELLANEOUS EQUIPMENT, TO INCLUDE FUEL CONSOLE, PRIOR TO OPENING OF THE STORE.
- GENERAL: CONTRACTOR SHALL BE RESPONSIBLE FOR FILING OF RECEIVING FORMS AND MISCELLANEOUS CONFIRMATION OF EQUIPMENT RECEIVING INFORMATION AS REQUIRED BY THE OWNER. GENERAL CONTRACTOR SHALL PROVIDE ALL PLUMBING, WIRING, MATERIALS, AND LABOR AS REQUIRED TO INSTALL OWNER SUPPLIED EQUIPMENT. INCLUDE MONIES IN BID PROPOSAL FOR INSTALLATION OF OWNER'S SUPPLIED EQUIPMENT UNLESS NOTED OTHERWISE.

1 GENERAL CONDITIONS - continued

PART 5 - PROTECTION

- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY HIM OR HIS WORKMEN TO THE PROPERTY OR EQUIPMENT OF THE OWNER, OR TO THE WORK OR MATERIALS OF OTHER CONTRACTORS. CONTRACTOR SHALL MAKE GOOD ANY LOSS, DAMAGE OR INJURY WITHOUT COST TO OWNER FOR SUCH LOSS OR DAMAGE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY SIDEWALKS, FENCES, LIGHTS, SIGNS OR OTHER STRUCTURES AND DEVICES AS REQUIRED BY LAW. DO NOT OBSTRUCT OR INTERFERE WITH TRAFFIC IN PUBLIC STREETS, ALLEYS OR PRIVATE RIGHT-OF-WAYS. IF WORK IS SUSPENDED, KEEP ALL ROADWAYS AND SIDEWALKS IN PROPER CONDITION AND PUT AND LEAVE THEM IN PROPER CONDITION AT TERMINATION OF WORK.
- CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS AND PERFORM ALL WORK REQUIRED FOR THE CARE, PROTECTION AND MAINTENANCE OF PUBLIC UTILITIES ON AND AROUND THE BUILDING SITE, ASSUMING ALL RESPONSIBILITY AND PAYING ALL COST FOR WHICH THE OWNER MAY BE LIABLE. CONTRACTOR HEREBY DECLARES HE HAS VERIFIED THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ON SITE PRIOR TO THE START OF WORK. CONTRACTOR HEREBY AGREES TO MAKE ARRANGEMENTS FOR AND TO PAY ALL CHARGES IN CONJUNCTION WITH THE RELOCATIONS OF EXISTING UTILITIES AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL UTILITY EASEMENTS, HOOP-UP CHARGES, TAP FEES, SYSTEM DEVELOPMENT FEES AS NECESSARY FOR COMPLETION OF THIS PROJECT.
- IF ALL OR PART OF THE WORK IS SUSPENDED FOR ANY REASON, CONTRACTOR SHALL PROPERLY COVER OVER, SECURE AND PROTECT ANY PORTION LIABLE TO SUSTAIN INJURY FROM ANY CAUSE.
- PRODUCT PROTECTION: CONTRACTOR SHALL PROVIDE ADEQUATE AND SECURE PROTECTION OF PRODUCT IN TANKS UPON DELIVERY UNTIL TURNED OVER FOR OPERATION. ALL FILL, VENT AND GAUGING CAPS AND/OR OPENINGS SHALL BE SECURED AND PADLOCKED TO PREVENT VANDALISM OR THEFT.

PART 6 - SUBSTITUTION OF MATERIALS

- MATERIALS AS SPECIFIED REPRESENT REQUIRED STANDARDS. SUBSTITUTIONS MAY BE PROPOSED IN WRITING WITH ADEQUATE SUPPORTING DATA FURNISHED. USE OF SUBSTITUTE MATERIALS IS DEPENDENT ON RECEIPT OF WRITTEN APPROVAL FROM OWNER/OWNER'S AGENT.

PART 7 - COMPLETION OF CONTRACT

- THE CONTRACT SHALL BE CONSIDERED FULFILLED, SAVE AS PROVIDED IN ANY MAINTENANCE STIPULATIONS, BOND OR BY LAW, WHEN ALL THE WORK HAS BEEN COMPLETED WITH FINAL INSPECTION AND ACCEPTANCE MADE BY ALL APPLICABLE GOVERNING BUILDING DEPARTMENTS, FIRE MARSHALLS OR OTHER JURISDICTIONS.
- WORKMANSHIP:
 - 7.2.1 FRAME CORNERS AND JOINTS IN RUNNING MATERIALS OF THE SAME CROSS SECTION PROFILE SHALL BE ACCURATELY FITTED TO NEAT CLOSED JOINTS, FREE FROM OFFSETS AND ACROSS THE FINISH SURFACES AT THE JOINT.
 - 7.2.2 FIXED PARTS OR MEMBERS SHALL BE SECURED TIGHT IN PLACE, FREE FROM DISTORTIONS.
 - 7.2.3 FINISHES SHALL BE FREE FROM BUBBLES, STREAKS, PEELING, PITS OR OTHER IRREGULARITIES, EXCEPT WHERE ROUGH MATERIALS MAY BE REQUIRED.
 - 7.2.4 SURFACES SHALL BE FREE FROM DIRT, GREASE, MASTICS, FINGERPRINTS, SCRATCHES, DENTS, CRACKS, STAINS, CHIPS OR OTHER DAMAGING EFFECTS.
- CLEANING:
 - 7.3.1 ALL WORK SHALL BE CLEAN AND READY FOR USE UPON COMPLETION. REMOVE TEMPORARY TAPES, WRAPPING, COATING, PAPER LABELS AND OTHER ITEMS.
 - 7.3.2 CLEANING METHODS FOR PROPRIETARY MATERIALS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CLEANING SOLUTIONS: AGENTS, SOLVENTS, WAXES OR OTHER MATERIALS SHALL BE ONLY AS APPROVED BY THE MANUFACTURER OF THE MATERIAL INSTALLED IN THE WORK.
 - 7.3.3 CLEAN-UP: CONTRACTOR SHALL CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES NEAT AT ALL TIMES.

PART 8 - CODES

- THE FOLLOWING CODES ARE MADE A PART OF THIS SPECIFICATION. SAID CODES SHALL DICTATE MINIMAL ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.
 - 8.1.1 NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
 - 8.1.2 PEI MANUAL "RECOMMENDED PRACTICES FOR INSTALLATION OF UNDERGROUND LIQUID STORAGE SYSTEMS," #RP-100-90 (OR LATEST EDITION).
 - 8.1.3 TEXAS WATER COMMISSION.

PART 9 - WARRANTY / GUARANTEE

- EXCEPT WHERE SPECIAL GUARANTEES ARE REQUIRED IN EXCESS OF ONE (1) YEAR, THE CONTRACTOR AGREES TO REPAIR OR REPLACE ANY DEFECT IN MATERIAL OR WORKMANSHIP (BEYOND ORDINARY WEAR AND TEAR) TO THE SATISFACTION OF THE OWNER/OWNER'S AGENT FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE, WHETHER IN HIS WORK OR IN THAT OF SUBCONTRACTOR'S, WITHOUT COST TO THE OWNER.

PART 10 - AS BUILT PLAN AND DOCUMENTATION

- UPON COMPLETION OF PROJECT, CONTRACTOR SHALL PROVIDE "AS BUILT SITE PLAN" VERIFYING FINAL LOCATION OF IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, PLUMBING AND ELECTRICAL PANELS, CONDUIT RUNS, AND CONDUIT TRAYS. CONTRACTOR SHALL KEEP PHOTOGRAPHIC JOURNAL OF ALL PHASES OF THE COMPLETE INSTALLATION. PHOTOGRAPHS ARE TO BE PROPERLY DATED, IDENTIFIED AND FORWARDED TO THE OWNER.

2 INSPECTIONS/TESTING

PART 1 - GENERAL

- SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, SERVICES AND EQUIPMENT AS REQUIRED TO PROVIDE INSPECTION SERVICES OF THE UNDERGROUND FUEL/DEF INSTALLATION.

PART 2 - INSPECTIONS

- INSPECTOR: INSPECTIONS / TESTS SHALL BE PERFORMED BY THE OWNER AND/OR APPOINTED REPRESENTATIVE.
- NOTIFICATION: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER/OWNER'S AGENT 48 HOURS PRIOR TO REQUESTED INSPECTION.
- SPILLAGE: SHOULD SPILLAGE OF PRODUCT OCCUR AT ANY PHASE OF INSTALLATION OR TESTING, THE OWNER/OWNER'S AGENT IS TO BE NOTIFIED IMMEDIATELY. ESTIMATED LOSS OF PRODUCT AS WELL AS ACTION TAKEN IS TO BE NOTED AND RECORDED.
- REPRESENTATIVE: INSPECTOR SHALL BE AVAILABLE ON SITE DURING TESTING PROGRAMS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN ANY CONNECTIONS AND/OR REPAIRS AS REQUIRED BEING PERFORMED BY OWNER AS REQUIRED. COST FOR SAID REPAIRS AND/OR CONNECTIONS SHALL BE DEDUCTED FROM CONTRACT AMOUNT AS REQUIRED TO SATISFY THE SITUATION.
- PROHIBITED WORK: CONTRACTOR SHALL SCHEDULE WORK SUCH THAT NO HEAVY EQUIPMENT IS OPERATING ON SITE DURING INSPECTION PROGRAMS. NO WELDING OR OPEN FLAME HEATING SHALL BE ALLOWED ON SITE AT ANY TIME DURING TESTING PROGRAMS.
- INSTALLATION REPORTS: SHOULD OWNER OR APPOINTED REPRESENTATIVE BE UNABLE TO BE PRESENT AT SITE FOR PURPOSES OF FILING ANY INSPECTION REPORTS, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSPECTION AND FILING OF REPORT WITH THE OWNER'S OFFICE. WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.
- TEST FAILURE: SHOULD SYSTEM FAIL ANY PORTION OF TEST PROGRAM, CONTRACTOR SHALL IMMEDIATELY INSTATE PROCEDURES AS REQUIRED TO BRING SYSTEM INTO COMPLIANCE. SHOULD FAILURE OF TEST DUE TO FACILITY WORK REQUIRE EXPENDITURE OF ADDITIONAL MONIES FOR RESCHEDULING AND/OR RESETTING OF SYSTEM, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CORRECTION ACCORDINGLY.
- CLEAN-UP: IN THE EVENT PRODUCT SPILLAGE SHOULD OCCUR DURING CONSTRUCTION OR DURING WARRANTY PERIOD DUE TO WORK PERFORMED BY CONTRACTOR, CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AS MAY BE REQUIRED.
- TEST REPORT: UPON COMPLETION OF TESTING PROGRAM, CONTRACTOR SHALL BE RESPONSIBLE FOR FILING COPIES WITH INSPECTION COMPANY SHALL BE RESPONSIBLE FOR FILING COPIES OF TANK AND PIPING TEST/INSPECTION REPORTS WITH OWNER OR OWNER'S AGENT WITH COPY TO JOB SITE.

2 INSPECTIONS/TESTING - continued

PART 3 - TANK INSTALLATION INSPECTION

- SCHEDULE: CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING SCHEDULE SO THAT TANKS ARE TESTED AND SET IN TANK HOLE SAME DAY OF DELIVERY.
- EXCAVATION: ALL EXCAVATIONS SHALL BE COMPLETED WITH BEDDING MATERIAL IN PLACE AND READY FOR INSTALLATION PRIOR TO TANK DELIVERY.
- ANCHORS: SHOULD ON-SITE CONDITIONS REQUIRE A WET HOLE TYPE INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE PREPARATION OF CONCRETE ANCHORS (DEADMAN) PRIOR TO SCHEDULING TANK DELIVERY (VERIFY WITH OWNER).
- STRAPS: SHOULD ON-SITE CONDITIONS REVEAL THE NEED FOR WET HOLE TYPE INSTALLATION, CONTRACTOR SHALL IMMEDIATELY NOTIFY TANK MANUFACTURER AND OWNER/OWNER'S AGENT OF SITUATION. SAID NOTIFICATION WILL BE REQUIRED SO AS TO INCLUDE ANCHOR STRAPS WITH DELIVERY OF TANK PACKAGE.
- AIR TEST: TANKS SHALL BE AIR TESTED AS PER MANUFACTURER'S SPECIFICATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS TO PROVIDE COMPLETE AIR TEST INCLUDING, BUT NOT LIMITED TO, AIR COMPRESSOR OF SUFFICIENT SIZE AND CAPACITY, SPECIFIED SOAP MATERIAL AND ACCEPTABLE SOAP APPLICATION EQUIPMENT.
- MINIMUM TESTING: FIBERGLASS DOUBLE WALL TANKS AS MANUFACTURED BY HALL TANK COMPANY SHOULD ARRIVE AT THE JOB SITE WITH A MINIMUM OF 4" HG ON THE INTERSTICE. OBSERVE THE VACUUM HOLD TEST FOR AT LEAST ONE (1) HOUR PRIOR TO SETTING THE TANKS. SHOULD THE INTERSTICE NOT HOLD A MINIMUM 4" HG VACUUM, THEN CONTACT THE TANK MANUFACTURER IMMEDIATELY.
- OBSERVATION: OWNER AND/OR OWNER'S SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF AIR OR VACUUM TEST, OBSERVATION OF LIFTING, SETTING AND BURIAL OF TANKS.
- TANK INSPECTION REPORT: WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

PART 4 - TANK AND LINE TESTING

- TEST: PRIOR TO PLACEMENT OF CONCRETE OVER TANKS, A COMPLETE SYSTEM TIGHTNESS TEST INCLUDING TANKS, PRODUCT LINES, STAGE II VAPOR RECOVERY LINES, SECONDARY CONTAINMENT PIPING AND VENT LINES SHALL BE PERFORMED. TESTING SYSTEM SHALL BE AS APPROVED BY THE INSPECTOR AND DEPARTMENT ABR/O'S AGENT.
- PRODUCT DELIVERY: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO OWNER/OWNER'S AGENT OF TEST DATE AND VERIFICATION OF NEED FOR TANKS TO BE FILLED WITH PRODUCT FOR TESTING. MINIMUM OF 72 HOURS ADVANCE NOTIFICATION WILL BE REQUIRED FOR PRODUCT DELIVERY.
- CONTRACTOR SHALL HAVE REPRESENTATIVES ON SITE TO ACCEPT AND RECORD ALL PRODUCT DELIVERIES. CONTRACTOR'S REPRESENTATIVE SHALL REMIND DELIVERY COMPANY THAT NO OVERFILL PROTECTION IS INSTALLED AND TO FOLLOW PROCEDURES FOR DELIVERY AS SITUATION DICTATES.
- CONTRACTOR SHALL COMPLETE AND BE RESPONSIBLE FOR THE FOLLOWING PRIOR TO SYSTEM TEST:
 - 4.4.1 PIPING: ALL PIPING SHALL BE COMPLETED EXCEPT INSTALLATION OF OVERFILL PROTECTION. OVERFILL PROTECTION SHALL BE INSTALLED UPON COMPLETION OF TEST.
 - 4.4.2 VENTS: VENT LINES SHALL BE COMPLETED UNDERGROUND AND STUBBED UP TO A MINIMUM OF 5' ABOVE GRADE.
 - 4.4.3 PRODUCT LINES: ALL PRODUCT LINES SHALL BE COMPLETE WITH FIRE VALVES INSTALLED AT ISLAND.
 - 4.4.4 PUMPS: SUBMERSIBLE PUMPS AND LINES SHALL BE COMPLETELY INSTALLED.
 - 4.4.5 VAPOR RECOVERY: ALL PHASE II VAPOR RECOVERY LINES SHALL BE COMPLETE AND CONNECTED AT ISLANDS.
 - 4.4.6 FILL AND FILL PIPING: ALL FILL, PHASE I VAPOR RECOVERY AND GAUGING RISERS SHALL BE INSTALLED.
 - 4.4.7 SITE PREPARATION: CONTRACTOR SHALL PREPARE TANK AREA FOR PRODUCT DELIVERY AND TANK TESTING PROCEDURES.
 - 4.4.8 FILL: CONTRACTOR SHALL PROVIDE 12" FEET BACKFILL OVER TANKS OR PROVIDE ACCEPTABLE INSULATED BLANKETS FOR COVERAGE OF TANKS.
 - 4.4.9 WATER: SHOULD WATER BE PRESENT IN TANK HOLE, CONTRACTOR SHALL VERIFY AND NOTIFY OWNER OF STATUS.
- PRODUCT REMOVAL: ANY REMAINING PRODUCT IN VENT LINES UPON COMPLETION OF TEST SHALL BE REMOVED BY TESTING COMPANY.
- COMPLETION: UPON COMPLETION AND COMPLIANCE WITH SYSTEM TEST PROGRAM, CONTRACTOR SHALL PROCEED WITH COMPLETION OF PROJECT INCLUDING BACKFILL AND CONCRETE PLACEMENT.

PART 5 - START-UP INSPECTION

- SCHEDULING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SCHEDULING START-UP AND CHECK-OUT. CONTRACTOR SHALL NOTIFY OWNER AND APPLICABLE MAINTENANCE DEPARTMENT OFFICE A MINIMUM OF 48 HOURS PRIOR TO INTENDED FINAL START-UP AND CHECK-OUT DATE AND TIME.
- PERSONNEL: CONTRACTOR, PLUMBING SUBCONTRACTOR, AND ELECTRICAL SUBCONTRACTOR SHALL BE AVAILABLE ON-SITE DURING START-UP.
- START-UP: PHYSICAL START-UP AND CHECK-OUT OF SYSTEMS AND EQUIPMENT SHALL BE DONE BY AND AT THE DIRECTION OF OWNER'S REPRESENTATIVE ONLY. CONTRACTOR SHALL NOT START OR ACTIVATE ANY EQUIPMENT WITHOUT THE SPECIFIC DIRECTION OF OWNER'S REPRESENTATIVE. DAMAGE TO ANY OWNER'S EQUIPMENT DUE TO IMPROPER INSTALLATION AND/OR UNAUTHORIZED START-UP WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SITE COMPLETION: INCLUDING CONCRETE, FINISH PAVEMENTS, SHALL BE COMPLETE. ALL UTILITIES SHALL BE CONNECTED AND OPERATIONAL. ALL LANDSCAPING, INCLUDING SPRINKLER SYSTEMS, SHALL BE COMPLETE.
- VERIFICATION: PRIOR TO SCHEDULING OF START-UP, CONTRACTOR SHALL OBSERVE AND VERIFY COMPLIANCE AND COMPLIANCE TO OWNER'S SPECIFICATIONS AND SPECIFICATIONS FOR THE FOLLOWING:
 - 5.5.1 MANWELLS SHALL BE PROPERLY CENTERED/INSTALLED AT OVERFILLS, SUBMERSIBLES, VAPOR RECOVERY AND ISLAND PUMP/RISERS.
 - 5.5.2 PROPER HEIGHT OF GRAVEL BACKFILL AROUND SUMP/RISERS.
 - 5.5.3 TANK I.D. MARKERS INSTALLED IN CONCRETE AT PROPER LOCATIONS.
 - 5.5.4 ALL BRASS GAS VALVE FITTINGS PROPERLY INSTALLED, TIGHT AND SECURE.
 - 5.5.5 LEAK DETECTORS INSTALLED.
 - 5.5.6 PROTECTED FLEX LINES PROPERLY INSTALLED W/O TWIST IN INSTALLATION AIR STRIPE.
 - 5.5.7 MANWELL EXTENDERS PROPERLY INSTALLED AND SCREWED IN FRAME OF MANWELL SUMP/RISER. CONDUITS PROPERLY SET AND SEALED TO TANK MANWAY OR FITTINGS AND CLEANED OUT FREE OF DEBRIS AND CONCRETE.
 - 5.5.8 TANKS CLEAN AND FREE OF WATER.
 - 5.5.9 ISLAND FORMER BOXES PROPERLY CLEANED OUT, FREE OF DEBRIS AND CONCRETE.
 - 5.5.10 DISPENSERS PROPERLY SET AND SECURED TO ISLAND BOX FRAME AND DISPENSER SUMPS PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.
 - 5.5.11 FIRE VALVES SECURED TO FRAME WITH PROPER HARDWARE.
 - 5.5.12 PHASE II VAPOR RECOVERY LINES INSTALLED AND SECURED IN PROPER LOCATION.
 - 5.5.13 ELECTRICAL CONDUITS SECURED WITH ALL CONNECTIONS COMPLETED. VERIFY COMPLIANCE W/ REQUIREMENTS FOR ISOLATED GROUND WIRING TO JUNCTION BOX CASING.
 - 5.5.14 DISPENSER CANOPIES INSTALLED AND LIFTING LUGS REMOVED WITH PROPER PLUGS INSERTED.
 - 5.5.15 ALL NOZZLES AND SWIVELS AVAILABLE ON-SITE. INSTALLED PRIOR ONLY IF REQUIRED BY GOVERNING AUTHORITIES FOR INSPECTION PURPOSES.
 - 5.5.16 ALL INSPECTIONS BY GOVERNING AUTHORITIES COMPLETED AND SIGNED. SIGNED AND COMPLETED PERMIT CARD ON SITE.
 - 5.5.17 ELECTRICAL DEVICES INCLUDING LIGHTS, SIGNS AND INTERCOMS PROPERLY INSTALLED, SECURE AND PLUMB.
 - 5.5.18 ANY INSPECTION OR WIRING POINTS IN CANOPY COLUMNS COVERED WITH ACCEPTABLE PLATES.
 - 5.5.19 VENT LINES PROPERLY SECURED, PROTECTED AND INSTALLED AT PROPER HEIGHT.
 - 5.5.20 VERIFICATION OF COMPLIANCE FOR TANK AND LINE TEST AVAILABLE ON SITE.
 - 5.5.21 ALL MANWELLS FREE OF CONCRETE AND DEBRIS.
 - 5.5.22 MANWELL COVERS PROPERLY PAINTED.
 - 5.5.23 PAINTING COMPLETE INCLUDING CANOPY, DOWNSPOUTS, METALS AND MISCELLANEOUS METALS.
 - 5.5.24 CONCRETE AT ISLANDS AND TANK PAD TRUE, PROPERLY SLOPED AND FINISHED WITH ACCEPTABLE RISE TO MANWELLS.
 - 5.5.25 ELECTRICAL PANELS PROPERLY COMPLETED TO INCLUDE:
 - (A) ONE BREAKER FOR EACH SUBMERSIBLE PUMP, DISPENSER, CONSOLE, AUTOGAUGING, DISPENSER LIGHTS (ALL) AND CANOPY LIGHTS (ALL).
 - (B) GAS PANEL CONTROLLED BY ONE MAIN BREAKER.
 - (C) CONTROL BOXES AND DISTRIBUTION BOXES INSTALLED AND WIRED.
 - (D) INTERCOM INSTALLATION COMPLETE AND PROPERLY WORKING.
 - (E) CONSOLE INSTALLATION COMPLETE AND PROPERLY WORKING.
 - (F) ALL WIRING PROPERLY IDENTIFIED WITH COLOR CODED WIRING.
 - (G) CONDUITS PROPERLY IDENTIFIED.
 - (H) ALL BREAKERS IN "OFF" POSITION.
 - (I) TYPED PANEL SCHEDULE IDENTIFYING EACH BREAKER INSTALLED EACH PANEL.
- NOTIFICATION: CONTRACTOR SHALL VERIFY ITEMS AS INDICATED ABOVE PRIOR TO SCHEDULING OF START-UP. MONIES AND/OR TIME LOST AT START-UP DUE TO NON-COMPLIANCE SHALL BE CHARGED TO CONTRACTOR ACCORDINGLY.
- LINE TESTING: LINE TESTING SYSTEM START-UP, A HYDROSTATIC LINE TEST SHALL BE PERFORMED ON PRODUCT LINES. TESTING METHOD SHALL BE AS APPROVED BY THE OWNER/OWNER'S AGENT. TEST SHALL BE PERFORMED WITH OWNER/OWNER'S AGENT ON SITE.
- CATHODIC PROTECTION SYSTEMS: AS APPLICABLE, SHALL BE TESTED FOR EFFECTIVENESS AND COMPLIANCE WITH CONTRACTOR'S CRITERIA.
- CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

3 EARTHWORK

PART 1 - GENERAL

- SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO EARTHWORK.
- PART 2 - PRODUCTS**
- FILL MATERIAL: SHALL BE MATERIAL IN COMPLIANCE WITH TANK AND LINE MANUFACTURER'S SPECIFICATIONS.
 - 2.1.1 PEA GRAVEL: SHALL BE CLEAN, NATURALLY ROUNDED AGGREGATE WITH A MIX OF PARTICLE SIZES NOT LESS THAN 1/8" OR MORE THAN 1/4".
 - 2.1.2 STONE OR GRAVEL CRUSHINGS: SHALL BE WASHED MATERIAL WITH ANGULAR PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2".
NOTE: MATERIALS MUST MEET ASTM #200 FOR QUALITY AND SOUNDNESS. FILL MATERIAL SHALL NOT HAVE MORE THAN 3% PASSING A #200 SIEVE. DRY GRAVEL DENSITY MUST BE A MINIMUM OF 95 POUNDS PER CUBIC FOOT.
 - 2.1.3 SAND: (WHEN APPROVED IN WRITING ON A PER PROJECT BASIS) MATERIAL SHALL BE CLEAN, WASHED, INERT, WELL GRANULATED WITH LESS THAN 8% BY WEIGHT PASSING A #200 SIEVE.
 - GEOTEXTILE MATERIAL: SOIL STABILIZATION FILTER FABRIC MATERIAL SHALL BE ONE OF THE FOLLOWING:
 - 2.2.1 PHILLIPS FIBERS, SURPAC 4NP (PHONE #800-845-5737).
 - 2.2.2 HOECHST CELANESE CORPORATION TREVIRA S1125 (PHONE #800-845-7597).
 - 2.2.3 REEMAY, INC., TYPAR 3401 OR TYPAR 3341 (PHONE #800-321-6271).

PART 3 - EXECUTION

- PROTECTIONS: PROVIDE ADEQUATE SHORING, BRACING, PILING, PLANKING AND CRIBBING.
- LAYOUT: CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK. OWNER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IF DISCREPANCIES ARE FOUND BY CONTRACTOR. REPORT DISCREPANCIES TO OWNER/OWNER'S AGENT. SET AND MAINTAIN NECESSARY STAKES, BATTER BOARDS AND REFERENCE POINTS.
- EXCAVATION: EXCAVATE TO LINES, ELEVATIONS AND LIMITS REQUIRED BY THE DRAWINGS, PLUS SUFFICIENT DISTANCE AND SPACE TO PERMIT INSTALLATION OF TANKS. EXCAVATE AS REQUIRED, REGARDLESS OF TYPE, CONDITION OR MOISTURE CONTENT OF THE MATERIAL. EXCAVATED MATERIAL SHALL BE REMOVED FROM THE PERIMETER OF THE TANK HOLE AND ALL TRENCHES SHALL BE CUT WITH A CONCRETE SAW. NOTE: PAVING TO BE CUT 2" BEYOND EDGES OF TANK HOLE IN ALL DIRECTIONS IN ORDER TO GIVE PROPER SUPPORT TO NEW SLAB TO AVOID SETTLING.
- HAZARDOUS MATERIAL: SHOULD ROCK, WATER OR OTHER HAZARDOUS MATERIALS NOT SHOWN ON SOILS TEST BE ENCOUNTERED, THE OWNER/OWNER'S AGENT SHALL BE IMMEDIATELY CONTACTED FOR APPROVAL TO PROCEED.
- PROTECTION: CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION WITH EARTHEN BERMS AT ALL TIMES TO PROTECT TANK HOLE AND TRENCHES FROM DRAINAGE OF SURFACE WATERS. EXCAVATIONS SHALL BE PROPERLY MARKED, PROTECTED AND BARRICADED FOR SAFETY UNTIL BACKFILL IS COMPLETE AND SURFACING FINISHED.
- SHORING: CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIREMENTS FOR SHORING AND PROVIDING SAME SHOULD SITE AND/OR SOIL CONDITIONS WARRANT SAME.
- BACKFILLING: PLACE APPROVED FILL MATERIAL IN STRICT ACCORDANCE WITH TANK MANUFACTURER'S SPECIFICATIONS. PROVIDE A 12' BED OF APPROVED BACKFILL OVER BOTTOM OF EXCAVATION PRIOR TO TANK PLACEMENT. BACKFILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 6" LIFT.
- CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

Store # 0000 New Fuel System Piping & Sump Check List

Item	ULPP Piping			Notes
	Failed	Passed	Needs Work	
All welded joints are marked correctly with time stamps and fitting lines				Piping joints are straight and installed correctly
Pipe has proper separation from side walls and conduit				6" of pea gravel bedding
5 PSI of air on lines and fittings soaked with no leaks				Sump penetrations installed correctly.
5 PSI of air on the double wall pipe lines soaked with no leaks				Vent Lines ran properly with 1/8 inch per foot slope back to the tank.
Water present to the top of the sump and has been for 24 hours before inspection				Sumps
Sumps are beaded with pea gravel or boards correctly with no voids under the sumps.				
Spill and vapor buckets are full of water with no leaks				Cable Title
Shair valves are anchored correctly				
Elevation of finished concrete string pulled across tanks to check for correct height of risers. Before inspection				
All ditches and tank hole is free of debris before back fill				Probe Manholes
Conduit is installed filled with water no leaks.				

Item	Premium Tank BK Labeled 1B			Notes
	Failed	Passed	Needs Work	
All welded joints are marked correctly with time stamps and fitting lines				Piping joints are straight and installed correctly
Pipe has proper separation from side walls and conduit				6" of pea gravel bedding
50 PSI of air on lines and fittings soaked with no leaks				Sump penetrations installed correctly.
5 PSI of air on the double wall pipe lines soaked with no leaks				Vent Lines ran properly with 1/8 inch per foot slope back to the tank.
Water present to the top of the sump and has been for 24 hours before inspection				Sumps
Sumps are beaded with pea gravel or boards correctly with no voids under the sumps.				
Spill and vapor buckets are full of water with no leaks				Cable Title
Shair valves are anchored correctly				
Elevation of finished concrete string pulled across tanks to check for correct height of risers. Before inspection				
All ditches and tank hole is free of debris before back fill				Probe Manholes
Conduit is installed filled with water no leaks.				

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CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

CEFCO
F2501-B SERIES
RIGHT FACING



DRAWINGS ISSUED FOR:

DATE	ISSUED FOR
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
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02-16-23	60% REVIEW SET
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SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document are not to be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION
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DRAWN BY: CHECKED BY: DATE:

SHEET TITLE

FUEL PRODUCT SPECIFICATIONS

DRAWING NUMBER: FP9 SHEET NO.

UNDERGROUND FUEL INSTALLATION AND THE PERFORMANCE SPECIFICATIONS

4 TANK INSTALLATION

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE INSTALLATION OF UNDERGROUND FUEL STORAGE TANKS.

PART 2 - PRODUCTS

2.1 TANKS: SHALL BE DESIGNED AND MANUFACTURED SO AS TO BE CORROSION PROTECTED PER EPA REQUIREMENTS.
2.2 HOLD DOWN STRAPS: STRAPS AS REQUIRED BY SOILS/WATER CONDITION SHALL BE SUPPLIED BY TANK MANUFACTURER ONLY. FIELD FABRICATED UNITS ARE NOT ACCEPTABLE.

PART 3 - INSTALLATION

3.1 MANUFACTURING: REFER TO TANK MANUFACTURER'S CRITERIA AND SPECIFICATIONS FOR TANK INSTALLATION AND ADHERE TO AS REQUIRED.
3.2 CLEARANCES: MINIMUM CLEARANCE FOR TANKS SHALL BE AS FOLLOWS: SHOULD REQUIREMENTS OF TANK MANUFACTURER OR SOIL CONDITIONS DICTATE GREATER CLEARANCE, ADHERE TO ACCORDINGLY.
3.2.1 BOTTOM: PROVIDE MINIMUM OF 12" BEDDING MATERIAL BETWEEN BOTTOM OF EXCAVATION OR PAD AND BOTTOM OF TANK.
3.2.2 SIDES: PROVIDE MINIMUM OF 2'0" BETWEEN TANKS AND 2'0" FROM SIDE/END OF TANK TO WALL OF EXCAVATION.
3.2.3 TOP: PROVIDE 3/4" FILL MATERIAL OVER TANK PLUS 8" OF CONCRETE.
3.3 TESTING: PRIOR TO INSTALLATION OF TANKS, TEST PER MANUFACTURER'S SPECIFICATIONS SHALL BE PERFORMED ON TANK. ON DUAL WALL TANKS, CONSULT TANK MANUFACTURER FOR TESTING CRITERIA, BUT MINIMUM 4" HG VACUUM MUST BE HELD ON INTERSTIAL SPACE FOR AT LEAST ONE (1) HOUR.
3.4 PLACEMENT:
3.4.1 REFER TO SITE PLAN FOR TANK PLACEMENT AND PRODUCT ROTATION.
3.4.2 PRIOR TO SETTING OF TANKS, REMOVE ALL FOREIGN DEBRIS, ROCKS, CLODS, GARBAGE, ETC. FROM EXCAVATION.
3.4.3 PLACE TANKS ONLY ON APPROVED FILL. DO NOT SET ON CONCRETE OR WOOD.
3.4.4 SLOPE TANKS 2" SYSTEMS TO MINIMUM TOWARDS END WITH FILL OPENING.
3.4.5 TANKS SHALL BE BURIED TO MINIMUM DEPTHS AS SHOWN ON DRAWINGS.
3.5 PILING: ALL UNUSED PILING SHALL BE WATERED, APPLIED WITH ANOTHER HARDENING PIPE SEALANT TO INTERNAL BUSHING THREADS. PERMANENT METAL PLUGS SHALL BE INSTALLED AT ALL UNUSED OPENINGS.
3.6 N/A

3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT IN TANK EXCAVATIONS, ANCHORING SHALL BE REQUIRED.
3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT BY WELL POINT SYSTEM(S) AND PROPERLY SIZED PUMP(S).
3.7.2 ANCHORS: DEADMAN SHALL BE CONSTRUCTED OF CONCRETE AS DETAILED IN DRAWINGS AND AS PER TANK MANUFACTURER'S RECOMMENDATIONS. PLACE 12" FROM OUTSIDE VERTICAL LINE OF TANK(S) AS SHOWN ON DRAWINGS.
3.7.3 TIE DOWNS: STRAPPING MATERIAL SHALL BE AS PER TANK MANUFACTURER'S REQUIREMENTS.
3.7.4 TURNBUCKLES: TO REMOVE CABLE SLACK, UTILIZE 5/8" JAW TYPE TURNBUCKLES, ONE EACH SIDE OF TANK (2 PER STRAP).
3.7.5 STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS.
3.7.6 INSULATION: TANKS SHALL BE INSULATED FROM TIE DOWNS BY PLACEMENT OF APPROVED DI-ELECTRIC MATERIAL BETWEEN STRAP AND TANK. MATERIAL SHALL BE PETROLEUM RESISTANT MATERIAL AS APPROVED BY TANK MANUFACTURER.
3.7.7 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF ASPHALT IMPREGNATED WITH WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL.
3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S RECOMMENDATIONS, UTILIZING LIFTING LUGS PROVIDED ON TANKS. TANKS SHALL NOT BE ROLLED, DROPPED OR WRAPPED WITH CHAINS. EQUIPMENT OF SUFFICIENT SIZE, DESIGN AND LIFT CAPACITY SHALL BE UTILIZED FOR SETTING OF TANKS. SHOULD TANKS BE BUMPED, DENTED, DROPPED OR MISHANDLED IN ANY WAY, INSTALLATION SHALL BE HALTED AND TANK MANUFACTURER'S REPRESENTATIVE IMMEDIATELY CONTACTED FOR RECERTIFICATION OF TANKS. CONTACT LOCAL CONSTRUCTION OFFICE OR SITE MANAGER IMMEDIATELY UPON NOTICE OF QUESTIONABLE HANDLING OF TANKS OR NOTABLE DAMAGE THERETO.
3.9 BACKFILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE, CAREFULLY BACKFILL ENTIRE EXCAVATION, HAND SHOVELING AND TAMPING ALONG BOTTOM OF TANK(S) SO THEY ARE EVENLY SUPPORTED AROUND BOTTOM. SPECIAL ATTENTION SHALL BE PAID TO BOTTOM QUARTER POINTS ELIMINATING ANY VOIDS IN FILL AT THESE POINTS. DO NOT DROP BACKFILL FROM HIGH DISTANCE ON TANKS. TAMP AS REQUIRED TO ACHIEVE ACCEPTABLE DENSITY.
3.10 BALLASTING: GROUND WATER IS PRESENT, TANKS MAY BE FILLED WITH BALLAST (PRODUCT TO BE STORED IN TANK OR WATER) TO AVOID SHIFTING MOVEMENT. IF WATER IS UTILIZED, COST OF WATER AND REMOVAL SHALL BE CONTRACTOR COST. DO NOT INSTALL SUBMERGIBLE PUMPS IN TANKS FILLED WITH WATER. DO NOT BALLAST TANKS ABOVE LEVEL OF BACKFILL.
3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE WITH DAMS, BERMS, OR OTHER MEASURES. PENDING COMPLETION OF INSTALLATION, EXCAVATION SHALL BE MARKED AT ALL TIMES WITH LIGHTED BARRICADES UNTIL INSTALLATION IS COMPLETE. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATION. DEWATER AS REQUIRED TO MAINTAIN EXCAVATION DRY AS POSSIBLE.

5 CONCRETE

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

PART 2 - PRODUCTS

2.1 MATERIALS:
2.1.1 AIR ENTRAINING AGENT: ASTM C 260-60-T. "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL.
2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT.
2.1.3 AGGREGATES: CONFORM TO ASTM C-33.
2.1.4 WATER: SHALL BE CLEAN AND POTABLE.
2.1.5 SAND: CONFORM TO ASTM C-144.
2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHERWISE) YIELD STRENGTH 60,000 PSI.
2.1.7 WELDED WIRE FABRIC: CONFORM TO ASTM A-185.
2.1.8 ACCESSORIES INCLUDING BAR SUPPORTS, CHAIRS, ETC., SHALL BE MANUFACTURED DEVICES OF THE HIGHTS REQUIRED.
2.1.9 FORMS: CLEAN, STRAIGHT LUMBER OR MOISTURE RESISTANT PLYWOOD. KNOT HOLES, DEFORMATIONS, ETC., SHALL NOT BE ALLOWED.
2.1.10 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-60-1. USE 1/2" THICK OR AS INDICATED ON DRAWINGS.
2.1.11 CALCIUM CHLORIDE: NOT PERMITTED.
2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH. ALL CONCRETE, UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN A 4" SLUMP. AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

5 CONCRETE - continued

PART 3 - EXECUTION

3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS BY MEANS OF LINE AND GRADE STAKES AND SCREEDS.
3.2 FORM WORK: BUILD FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS. BRACE AND SECURE TO WITHSTAND PLACING OF CONCRETE AND MAINTAIN THEIR SHAPES AND STRENGTH. MAKE FORMS SUFFICIENTLY TIGHT AND SUBSTANTIALLY ASSEMBLED TO PREVENT BULGING OR LEAKAGE. ASSEMBLE FORMS IN SUCH A MANNER TO FACILITATE THEIR REMOVAL WITHOUT DAMAGE TO CONCRETE. FORMS SHALL BE IN OR NEAR NEW CONDITION; CLEAN, SMOOTH AND WITHOUT INDENTATIONS OR BENDS. INSTALL SLEEVES, MANHOLES, CAPS, BOXES AND POSTS IN PROPER LOCATIONS AND HEIGHTS. EXPANSION JOINTS SHALL CONSIST OF FILLER STRIPS INSTALLED WITH TOP AT ELEVATIONS OF FINISHED CONCRETE. NEATLY FINISH EDGES OF EXPOSED CONCRETE REINFORCING JOINTS WITH A SLIGHTLY ROUNDED EDGING TOOL.
3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL INDICATED ON DRAWINGS. METAL REINFORCEMENT, AT THE TIME CONCRETE IS PLACED, SHALL BE FREE FROM OILING, GREASE, OIL, OR OTHER SUBSTANCES WHICH THE CONCRETE SHALL BE STORED SO AS TO PREVENT FREEZING FOR A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT. ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH STANDARDS OF ACI. METAL REINFORCEMENT SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. EACH TRUCK LOAD TO OWNER/OWNER AGENT LOCAL CONSTRUCTION OFFICE WHEN REQUIRED. TICKETS SHALL SPECIFY STRENGTH, SLUMP, FURNISH SIZES, AIR ENTRAINMENT (IF ANY) AND BRAND OF CEMENT. NOTE AMOUNT OF WATER ADDED AT JOB.
3.5.1 NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S AGENT AT LEAST 48 HOURS BEFORE PLACING ANY CONCRETE. THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S AGENT AT LEAST 24 HOURS BEFORE PLACING ANY CONCRETE IN ORDER THAT TRADES AFFECTED MAY INSTALL REQUIRED BLOCKING, SLEEVES, POCKETS, ETC.
3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED.
3.5.3 CLEAN-UP: CLEAN UP ALL DEBRIS FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE.
3.5.4 PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614. MINIMUM CONCRETE COVER OVER REBAR SHALL CONFORM TO ACI 318. USE HANDING EQUIPMENT AND METHODS TO INSURE A CONTINUOUS FLOW FROM MIXER TO PLACE OF DEPOSIT. SPACE, TAMP AND MECHANICALLY VIBRATE FRESHLY PLACED CONCRETE TO COMPACT THOROUGHLY AND ELIMINATE VOIDS. DO NOT ALLOW FREE FALL OF CONCRETE TO EXCEED 5'.
3.6 FINISHING CONCRETE
3.6.1 SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION IN EXCESS OF 1/4" WHEN TESTED WITH A 10' STRAIGHTEDGE AT 3' INTERVALS IN BOTH DIRECTIONS. SCREED TO FINISH SURFACE OF CONCRETE FOR SLAB WITH STRAIGHTEDGES TO BRING SURFACE TO REQUIRED FINISHED LEVEL. WOOD FLOAT CONCRETE WHILE STILL GREE TO A TRUE, EVEN SURFACE WITH NO COARSE AGGREGATE VISIBLE. AFTER SURFACE MOISTURE HAS DISAPPEARED, STEEL TROWEL SURFACE TO A SMOOTH, EVEN FINISH, FREE FROM BLEMISHES AND TROWEL MARKS. AFTER TROWELING, BRUSH SURFACE OF CONCRETE WITH A BRISTLE BRUSH TO RESULT IN A MEDIUM, UNIFORM, NONSLIP TEXTURED SURFACE. STROKE CROSSWISE TO LENGTH.
3.7 CURING: UTMOST CARE SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTIVE CURE FOR ALL SLABS. DO NOT REMOVE FORMS UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS.
3.8 REMOVAL OF FORMS: FORMS SHALL BE REMOVED AS SOON AS CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS.
3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER/OWNER'S AGENT.
3.10 TEMPERATURE:
3.10.1 WIND WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 DEGREES FAHRENHEIT, MAINTAIN TEMPERATURE OF CONCRETE BETWEEN 50 AND 70 DEGREES FAHRENHEIT FOR MINIMUM OF 72 HOURS.
3.10.2 HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKERS, SHADING, FOG SPRAY, SPRINKLING, PONDING OR WET COVERING IN ADVANCE OF PLACEMENT, TAKE SUCH PROTECTIVE MEASURES AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.
3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER/OWNER'S AGENT OR CONSTRUCTION MANAGER. THE OWNER SHALL PAY FOR ALL CONCRETE TESTING. COMPACTION TESTS SHALL BE REQUIRED PRIOR TO PLACEMENT OF ANY CONCRETE ON GRADE. CONTACT OWNER'S ENGINEERING SERVICES FOR COMPACTION TESTS. TESTS PAID BY OWNER. THICKNESS:
3.12.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH #4 REINFORCING BARS AT 12" O.C. EACH WAY ON 3 1/2" SUPPORT CHAIRS.
3.12.2 FLOORING AND SLABS SHALL BE 6" CONCRETE. REINFORCEMENT SHALL BE #4'S AT 12" O.C. EACH WAY. ON 2 1/2" SUPPORT CHAIRS.
3.13 CANOPY FOOTINGS: CANOPY FOOTINGS SHALL BE INSTALLED BY CANOPY CONTRACTOR AS PER SHOP DRAWINGS SUPPLIED BY CANOPY VENDOR. ALL MATERIALS SHALL BE EQUAL TO OR BETTER THAN SPECIFIED ELSEWHERE IN THIS SECTION.
3.14 CONTRACTOR TO PROTECT ALL CONCRETE SURFACES AGAINST ANY DAMAGE WHATSOEVER, INCLUDING EXCESSIVE LOADING, SHIPPING, CRACKING, STAINING, PAINT SPLATTERS, ETC. THE OWNER EXPECTS EXPOSED CONCRETE SURFACES TO BE CLEAN AND OF UNIFORM COLOR AND TEXTURE AT COMPLETION OF THE PROJECT. REPLACE ANY CONCRETE DAMAGE DURING CONSTRUCTION.
3.15 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

6 PIPING

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR INCIDENTAL TO A COMPLETE PLUMBING SYSTEM FOR AN UNDERGROUND FUEL INSTALLATION.

PART 2 - PRODUCTS

2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE CO-FLEX DOUBLE WALL FRANKLIN UP, TANK MANUFACTURER BY FRANKLIN SUMP/RISERS AND DISPENSERS SHALL BE UTILIZED SO AS TO PROVIDE ACCESS TO ALL PRIMARY AND SECONDARY PIPE FITTINGS.
2.2 VENT PIPING: PIPING SHALL BE SCHEDULE 40, 2" BLACK IRON FOR GASOLINE AND DIESEL AND STAINLESS STEEL FOR DEF WITH 150 PSI FITTINGS.
VENT LINE RISERS SHALL BE GALVANIZED PIPE AND EXTEND 4 FEET ABOVE ADJACENT STRUCTURE OR 12 FEET ABOVE FINISHED GRADE.
VENT LINE RISERS SHALL NOT BE INSTALLED ON BUILDING UNLESS APPROVED IN WRITING.
2.3 N/A
2.4 BACKFILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S SPECIFICATIONS.

PART 3 - INSTALLATION

3.1 ALL PRODUCT PIPING AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES.
3.2 THE DRAWING AND FIELD FINISH ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS, THE CHARACTERISTICS OF THE MATERIALS USED, AND THE INSTRUCTIONS OF THE CONSTRUCTION MANAGER. VERIFY ALL DIMENSIONS IN THE FIELD. ACCESS AND CLEARANCES MUST BE PROVIDED AND MAINTAINED FOR THE PROPER OPERATION, MAINTENANCE, SERVICE AND REPAIR OF THE WORK.
3.3 LOCATE, IDENTIFY AND MARK EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE PROTECTION DURING EARTHWORK OPERATIONS.
3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH THE OWNER/OWNER'S AGENT AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES IN SATISFACTORY CONDITION.
3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, AND AUTO GAUGING ADAPTATIONS SHALL BE A 4" DIAMETER PIPE.
3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER, AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
3.7 REMOVE WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA. DO NOT USE TRENCH EXCAVATIONS FOR SITE UTILITIES AS TEMPORARY DRAINAGE DITCHES. REMOVE ALL TRASH, DEBRIS AND FOREIGN MATERIAL FROM TRENCHES PRIOR TO PLACING PIPING MATERIAL.
3.8 ALL PRODUCT AND VENT LINES SHALL SLOPE UP FROM TANKS A MINIMUM OF 2" IN 8' (1/8"/FT) WITH NO SAG OR TRAPS. LINES SHALL BE IN TRENCHES WITH A MINIMUM OF 6" OF BACKFILL MATERIAL ON ALL SIDES, HORIZONTAL AND VERTICAL.

6 PIPING - continued

PART 3 - INSTALLATION

3.9 SUBMERGED PUMP, FILL PIPE, AUTO GAUGING ADAPTORS AND VAPOR RECOVERY ADAPTOR SHALL BE LOCATED AT TANK OPENINGS AS SHOWN ON DRAWINGS.
3.10 FILL PIPE SHALL HAVE OVERSPLUP CONTAINMENT SYSTEM INSTALLED AS SHOWN ON DWGS.
3.11 FILL PIPE SHALL HAVE SUBMERGED FILL TUBE. FILL PIPE AND VAPOR RECOVERY RISERS SHALL BE CUT TO THE PROPER LENGTH SO THAT FINISHED HUB HEIGHT WILL BE WITHIN 5" (+ OR - 1") OF THE TOP OF THE MANHOLE.
3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED AS SHOWN IN DRAWINGS.
3.13 SHUT-OFF VALVES SHALL BE INSTALLED ON THE PRODUCT LINES UNDER EACH DISPENSER AND SOUDED TO THE ISLAND PUMP BOX. THESE VALVES MUST BE INSTALLED WITH THE SHEAR SECTION AT THE SAME LEVEL OR A MAXIMUM OF 3/4" ABOVE OR BELOW THE TOP OF THE ISLAND.
3.14 AFTER ALL PIPING IS COMPLETE AND PRIOR TO BACKFILLING, ALL PIPING INCLUDING VENT LINES SHALL BE ISOLATED FROM THE TANK AND TESTED PER MANUFACTURER'S TESTING INSTRUCTIONS.
3.15 N/A
3.16 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST. REFER TO LIST OF MATERIALS SUPPLIED BY OWNER/OWNER'S AGENT.
3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED. WELLS ARE TO BE POSITIONED IN EXCAVATION HOLE PRIOR TO PLACING BEDDING MATERIAL AND SUPPORTED TO REMAIN VERTICAL DURING BACKFILL OPERATIONS. BOTTOM OF OBSERVATION WELL(S) SHALL BE 12" MINIMUM BELOW THE EXCAVATION FIT. TOP OF PIPE TO TERMINATE IN 12" DIAMETER OBSERVATION BOX. SLOTTED SAMPLE WELL MATERIAL SHALL BE FURNISHED BY CONTRACTOR.
3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, LATEST EDITION, IS BY CODES. PART OF THIS SPECIFICATION, SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.
3.19 START-UP: PRIOR TO START-UP AND CHECK-OUT OF SYSTEM, PRODUCT LINES SHALL PASS HYDROSTATIC LINE TEST. ALL SITE IMPROVEMENTS, INCLUDING PAVEMENTS AND UTILITIES, SHALL BE COMPLETED.
3.20 INSPECTIONS: PLUMBING INSPECTION SHALL BE PERFORMED BY CEFCO.
3.21 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

7 ELECTRICAL WORK

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:
1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANELBOARDS, OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC.
1.1.2 CONDUIT AND WIRING SYSTEM FOR INTERCOM.
1.1.3 WIRING SYSTEM TO SERVE ALL ELECTRIC-USE DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT.
1.1.4 POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT.
1.1.5 ALL CONDUITS, CONNECTORS, AND WIRE-USE DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT. (WHEN SHOWN), CANOPY LIGHTS, PRICE SIGNS(S) AND CANOPY MOUNTED FLOOD LIGHTS.
1.1.6 CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS.
1.1.7 ALL TRENCHING, EXCAVATION AND BACKFILL AS REQ. IN CONDUIT/LINE W/ ELEC. WORK.
1.1.8 INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES
1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA, NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY. REPORT TO OWNER/OWNER'S AGENT IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES OR TO BE HELD RESPONSIBLE FOR COMPLIANCE TO THESE CODES AND REGULATIONS. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.
1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO ENTIRE INSTALLATION SO THAT THE ENTIRE PROJECT CAN BE COMPLETED PER SCHEDULE.
1.5 CUTTING AND REPAIRING: PROVIDE ALL CUTTING, CHANNELING, PATCHING, ETC. AS NECESSARY FOR ELECTRICAL WORK UNDER DIRECTION OF GENERAL CONTRACTOR. WORK FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER/OWNER'S AGENT AT NO ADDITIONAL COST TO THE OWNER. REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR BY THE ELECTRICAL SUBCONTRACTOR.

PART 2 - PRODUCTS

2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION W/ DYMO TAPE OR EQUAL FOR ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCHGEAR, PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.
2.2 LIGHT FIXTURES: TO BE PROVIDED BY OWNER.
2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE W/ THE SPECIFIC APPLICATION OF LOCATION INDICATED.
2.3.1 RIGID GALVANIZED STEEL: WHERE EXPOSED TO THE WEATHER, FOR ENCLOSING MAIN GROUNDING CONDUCTOR; WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED, MATERIAL SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, REPUBLIC STEEL, YOUNGSTOWN STEEL AND TUBE, OR EQUAL. PROTECT WITH ASPHALTIC PROTECTIVE COATING WHEN BELOW FINISH GRADE.
2.3.2 SEALOFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, SUBMERGIBLE PUMPS, AND INTERIOR DISTRIBUTION PANEL.
2.3.3 PVC CONDUITS: ALL WIRING RUNS BURIED UNDERGROUND UNLESS OTHERWISE INDICATED. MATERIAL SHALL BE HEAVY WALL, TYPE II RIGID, SCHEDULE 40 AS MANUFACTURED BY CARLON, BALDWIN, TRIANGLE, OR EQUAL. PVC CONDUITS SHALL BE U.L. LISTED AND APPROVED.
2.4 CONDUCTORS:
2.4.1 FINISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (60 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING, TYPE THN (90 CENTIGRADE) FOR SUPPLY CONDUITS TO LIGHT FIXTURES, INSTALL PER NEC COLOR CODE.
2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.
2.4.3 SPLICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES. PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES W/ OVERALL NYLON INSULATORS FOR CONDUCTORS. CONNECTORS SHALL BE 3M "SCOTCHLOK", BUCHANAN SPlice CAPS W/ INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL.
2.4.4 PANELBOARDS:
2.4.1 BRANCH CIRCUIT PANELBOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANELBOARDS WITH THERMAL MAGNETIC, MOLDED CASE, GENERAL ELECTRIC TYPE NLAB OR APPROVED EQUAL. PROVIDE GROUNDING TERMINAL BLOCK IN EACH PANELBOARD.
2.4.2 SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.
2.6 ACCEPTABLE SUBSTITUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY IN ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY CUTLER-HAMMER, FEDERAL PACIFIC, ITE, SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES, WHEN APPROVED IN WRITING.

7 ELECTRICAL WORK - continued

PART 3 - EXECUTION

3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOK-UPS AND MISCELLANEOUS PROCEDURES WITH ALL OTHER TRADES THAT WILL BE INVOLVED TO EXPEDITE THE COMPLETION OF THE CONTRACT. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR ALL WIRING AND CONDUCTORS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
3.2.1 CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER/OWNER'S AGENT IN WRITING.
3.2.2 ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED; CONDUITS AT TANKS SHALL NOT CROSS OVER TANKS. PLACE CONDUIT WITHIN 6" OF EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.
3.2.3 CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN.
3.2.4 FLASH AND COUNTER FLASH CONDUIT WHICH PENETRATE THE CANOPY DECKING.
3.2.5 PROVIDE SEAL-OFF FITTINGS WHERE CONDUIT RUNS ENTER OR LEAVE HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.
3.2.6 FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM, FUEL PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON FUEL DRAWINGS. ADDITIONAL CONDUITS AND CIRCUITS WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.
3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS START-UP PRIOR TO START-UP, VERIFY THAT ALL CONDUITS AND CIRCUITS ARE CORRECT. SIGNS AND LIGHTED FASCIA: VERIFY FINAL LOCATIONS AND TYPE WITH OWNER. FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.
3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM, OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANELBOARDS, SWITCHGEAR, ETC., TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER CRAFTS AND TRADES SO THAT ELECTRICAL INSTALLATION WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR IMPROPER. PROVIDE WEATHERPROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.
3.6 UNLIT GROUNDING: IT IS MANDATORY THAT FUEL EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE PROVIDED WITH SAME, MINIMUM CIRCUITS REQUIRED, BUT NOT LIMITED TO, SHALL BE: INTERCOM, FUEL CONSOLE AND UNDERGROUND FUEL TANK MONITORING SYSTEM. EXCAVATION AND BACKFILLING: ALL EXCAVATION AND BACKFILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.
3.8 OPERATING AND ACCEPTANCE TESTS:
3.8.1 OPERATING TEST: CONDUCT ENTIRE ELECTRICAL INSTALLATION; ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO START-UP AND FINAL CHECK-OUT OF SYSTEM COVERED ELSEWHERE.
DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER.
3.8.2 INSPECT ALL PANELBOARDS AND EQUIPMENT UNDER LOAD TO DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THAT SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.
3.8.2 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.
3.8.3 TEST GROUNDING: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.
3.8.4 INSPECT ALL PANELBOARDS AND ALL CONNECTIONS MUST BE TIGHT AND SECURE.
3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER/OWNER'S AGENT WITH ONE SET OF MARKED-UP PRINTS SHOWING "AS-BUILT" INSTALLATION.
3.10 FINAL INSPECTION: PROVIDE PRESENT CERTIFICATE OF APPROVAL OF LOCATION OR GROUNDING INSPECTION AUTHORITY.
3.11 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

8 PAINTING

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETION OF ALL PAINTING OF SURFACES COMPLETE, INCLUDING:
1.1.1 MISCELLANEOUS METAL, DOWNSPOUTS, COLUMNS, POSTS, ISLAND FORMS, VENT LINES, MANHOLE COVERS AND ELECTRICAL CONDUITS.
1.2 PAINTING:
1.2.1 PAINTING CANOPY SOFFITS.
1.2.2 PAINTING LIGHT FIXTURES.
1.2.3 PAINTING FASCIA SIGN FRAMES.
1.2.4 PAINTING FUEL EQUIPMENT.
1.3 COLOR SCHEDULE: COLOR OF PAINTS SHALL BE AS LISTED IN COLOR SCHEDULE.

PART 2 - PRODUCTS

2.1 PAINT MANUFACTURERS AND PRODUCTS: PAINTING SYSTEM AS SPECIFIED HEREIN IS BASED ON PRODUCTS OF THE GLIDDEN COATING & RESINS COMPANY, A DIVISION OF SCM CORPORATION. HOWEVER, EQUAL PAINTING SYSTEMS OF PRATT & LAMBERT, PPG PROTECTIVE AND BENJAMIN MOORE WILL BE CONSIDERED.
2.2 PAINTING COATS AND PRODUCTS:
2.2.1 FUEL ISLAND METALS AND VENT LINES: SHALL BE GLIDDEN SPREAD LUSTRE ALKYD SEMI-GLOSS PAINT #4856 ARCHITECTURAL BROWN.
2.2.2 PAINT ALL MANHOLE COVERS AND SURROUNDING CONCRETE, INSIDE AND OUT, IN ACCORDANCE WITH STANDARD INDUSTRY COLOR CODE AS SHOWN:
G.C. TO USE BLACK COLOR FOR ALL COVERS U.N.O. RE: FUEL DRAWINGS.
API COLOR CODES
ETHANOL SOLID PURPLE
ETHANOL SOLID PURPLE
UNLEADED REGULAR WHITE W/BLACK CROSS
UNLEADED PREMIUM RED W/ WHITE CROSS
LEADED REGULAR W/EXTENDER BLUE W/WHITE BAND
UNLEADED REGULAR W/EXTENDER WHITE W/BLACK CROSS & BLACK BAND
UNLEADED PREMIUM W/EXTENDER RED W/WHITE CROSS & WHITE BAND
DIESEL SOLID YELLOW
VAPOR RECOVERY SOLID ORANGE.

PART 3 - EXECUTION

3.1 PROTECTION: COVER ENTIRE CONCRETE SURFACES. NO PAINT OR SOLVENT SHALL BE ALLOWED TO COME IN CONTACT WITH CONCRETE SURFACES. WHERE IT BECOMES NECESSARY, IN ORDER TO EXECUTE HIS OWN START OF WORK, THE START OF PAINT COVERINGS, PLATES, ETC., PLACED BY OTHER CONTRACTORS IN ANY BRANCH OF THE WORK, HE SHALL REPLACE SAME IN PROPER MANNER. IN SITUATIONS WHERE SAID COVERINGS, PLATES, ETC., CANNOT BE READILY REMOVED, PAINTER SHALL PROTECT THE WORK IN SOME OTHER SATISFACTORY MANNER. OILY RAGS AND WASTE MUST BE REMOVED EVERY NIGHT. UNDER NO CIRCUMSTANCES SHALL THEY BE ALLOWED TO ACCUMULATE. PAINTING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE WORK OF OTHER SUBCONTRACTORS AND SHALL REPAIR OR REPLACE AS NECESSARY TO THE SATISFACTION OF THE OWNER.
3.2 PREPARATION OF SURFACES: INSPECT ALL SURFACES TO BE PAINTED. REPORT ANY DISCREPANCIES TO THE CONTRACTOR. THE START OF WORK FOR STARTING OF PAINT APPLICATION SHALL CONSTITUTE ACCEPTANCE OF SURFACES AS SUITABLE FOR THE RECEPTION OF PAINT APPLICATION. ALL SURFACES SHALL BE CLEAN AND DRY, BETWEEN 50 AND 90 DEGREES FAHRENHEIT AT TIME OF PAINT APPLICATION. CLEAN METAL OF MILL SCALE, RUST, OIL, GREASE AND FOREIGN MATTER. CLEAN GALVANIZED METAL ACCORDING TO SSPC-SP 1-63 SOLVENT CLEANING. PROTECT ADJACENT AND FINISHED WORK FROM PAINT.
3.3 APPLICATION OF PAINT: DO NOT THIN, ADULTERATE OR CHANGE MATERIALS EXCEPT AS RECOMMENDED BY MANUFACTURER. EMPLOY ONLY SKILLED MECHANICS FOR WORK. ALL PAINTING SHALL BE BRUSHED, SPRAYED OR ROLLED EVENLY FOR THOROUGH COATS WITHOUT RUNS, SAGS OR OTHER BLEMISHES. ALLOW EACH COAT TO DRY BEFORE APPLYING SUBSEQUENT COATS. ALL SURFACES TO BE PAINTED SHALL BE CLEAN AND NEAT TO ACHIEVE AN APPROVED FINISH. APPLICATION OF PAINT, ETC., SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS.
3.4 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

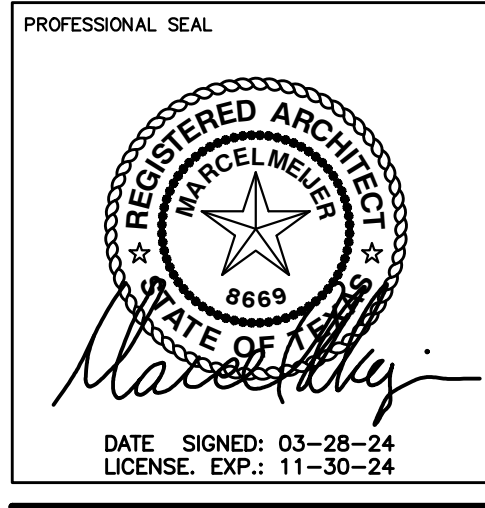


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FP10.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
LICENSE: EXP: 11-30-24

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	FINAL PRINT

SCOPE OF THE DOCUMENT

This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

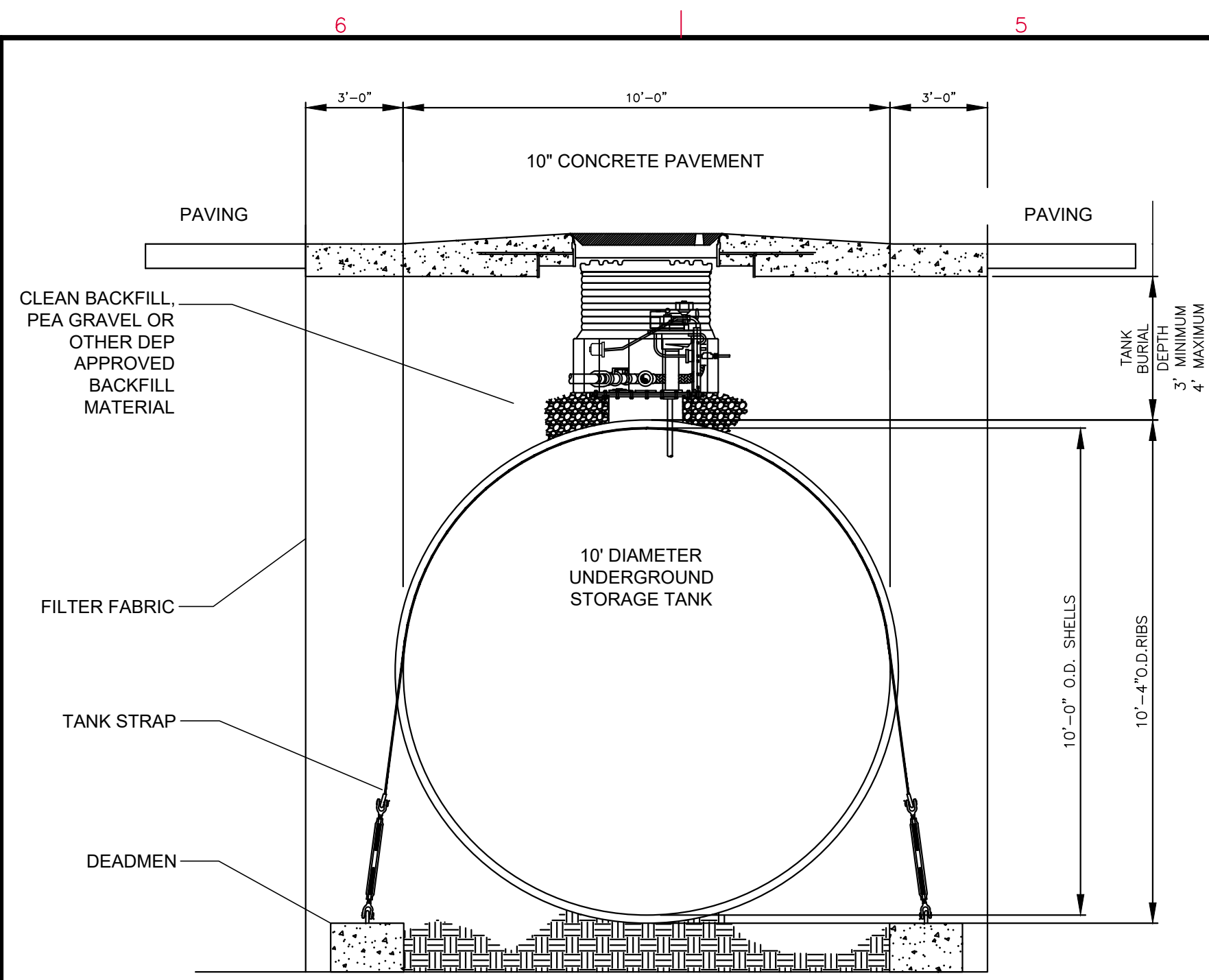
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SHEET TITLE

FUEL PRODUCT SPECIFICATIONS

DRAWING NUMBER
FP10

SHEET NO.



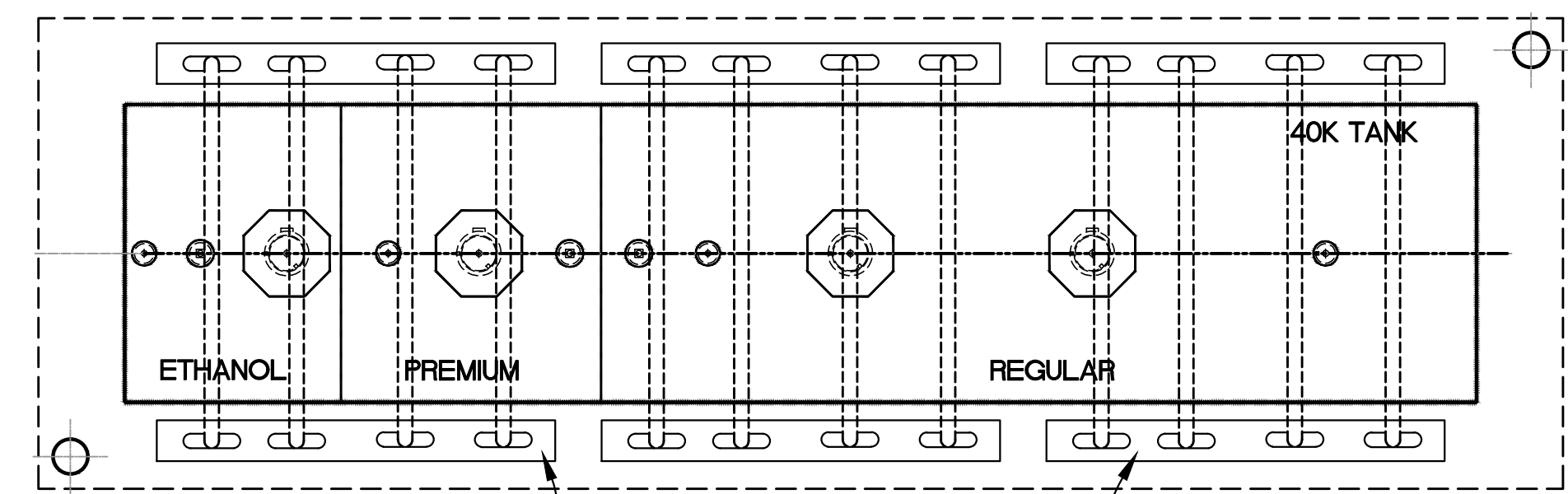
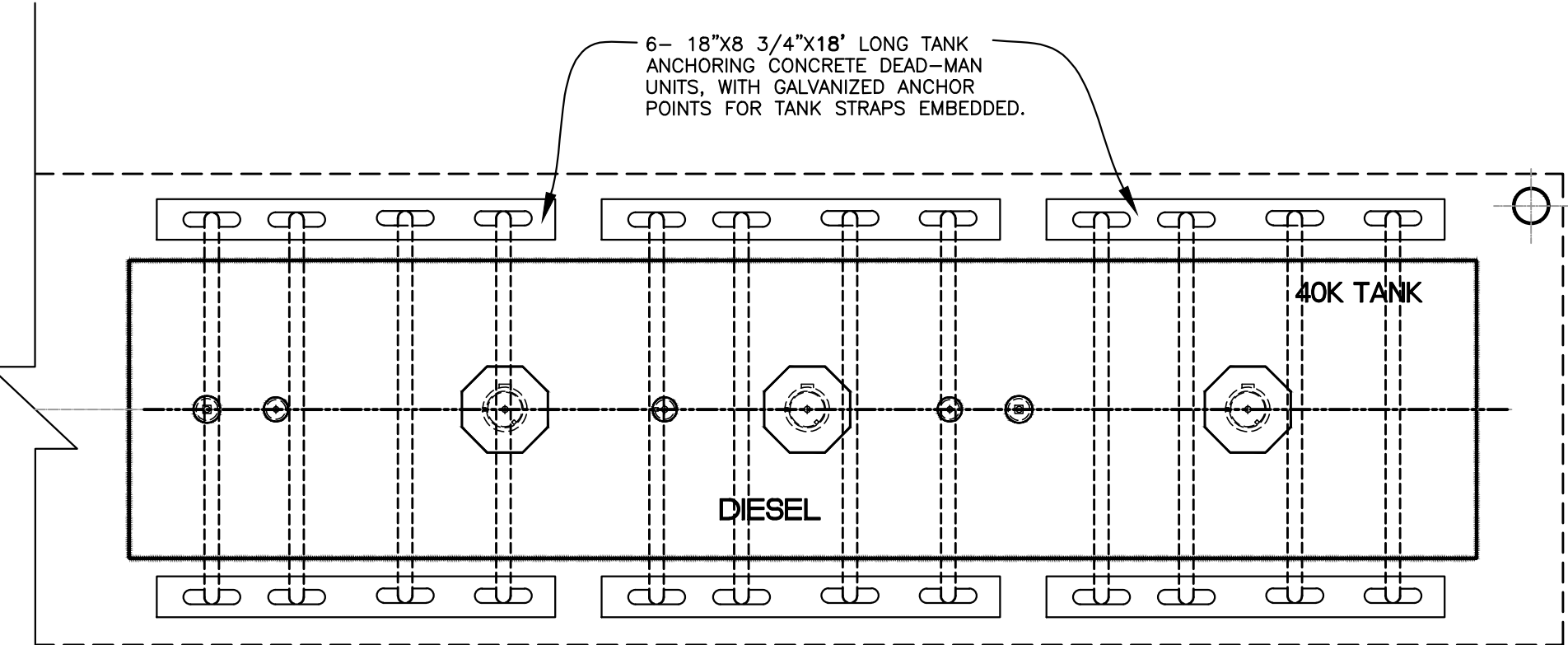
TANK DIMENSIONS NOTE:
SOIL BORINGS SHALL BE REVIEWED FOR EACH INSTALLATION. CONTRACTORS SHALL CONSIDER THE USE OF 6" OR 10" DIAMETER TANKS AND/OR COMPARTMENTALIZED TANKS AND USE THEM WHENEVER FINANCIALLY JUSTIFIABLE. ALL TANK SIZE CHANGES SHALL BE APPROVED BY THE THE OWNER.

TANK BACKFILL AND FILTER FABRIC NOTE:
USE MANUFACTURER APPROVED FILTER FABRIC TO LINE THE SIDES AND BOTTOM OF THE TANK HOLE EXCAVATION AT ANY SITE WHERE POOR SOIL CONDITIONS OR FLUCTUATING WATER TABLES ARE PRESENT (I.E. LOOSE SAND, TIDAL OR RAPIDLY CHANGING WATER TABLES, SILTY SOIL WITH WATER CONDITIONS, LOW STABILITY SOIL WITH LESS THAN 250 LBS/SQ. FT. COHESION OR AN ULTIMATE BEARING CAPACITY OF LESS THAN 500 LBS/SQ.FT. FOLLOW TANK AND FILTER FABRIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.

TANK ANCHORING NOTE:
INSTALL TWO DEADMAN ANCHORS PER TANK PER TANK MANUFACTURER'S INSTRUCTIONS. TANK SLAB 8" MIN. THICKNESS

NOTE:
TANK BURIAL DEPTH 36" BELOW CONCRETE AND NO DEEPER THAN 48" UNLESS APPROVED IN WRITING BY THE OWNER.

23 TANK BACKFILL AND DEADMAN DETAILS
NOT TO SCALE
RE:



21 TYPICAL FUEL TANK ACHORAGE LAYOUT
NOT TO SCALE
RE: FP3, TFP3, DEF3, FP4, TFP4 AND DEF4 FOR TANK DETAILS

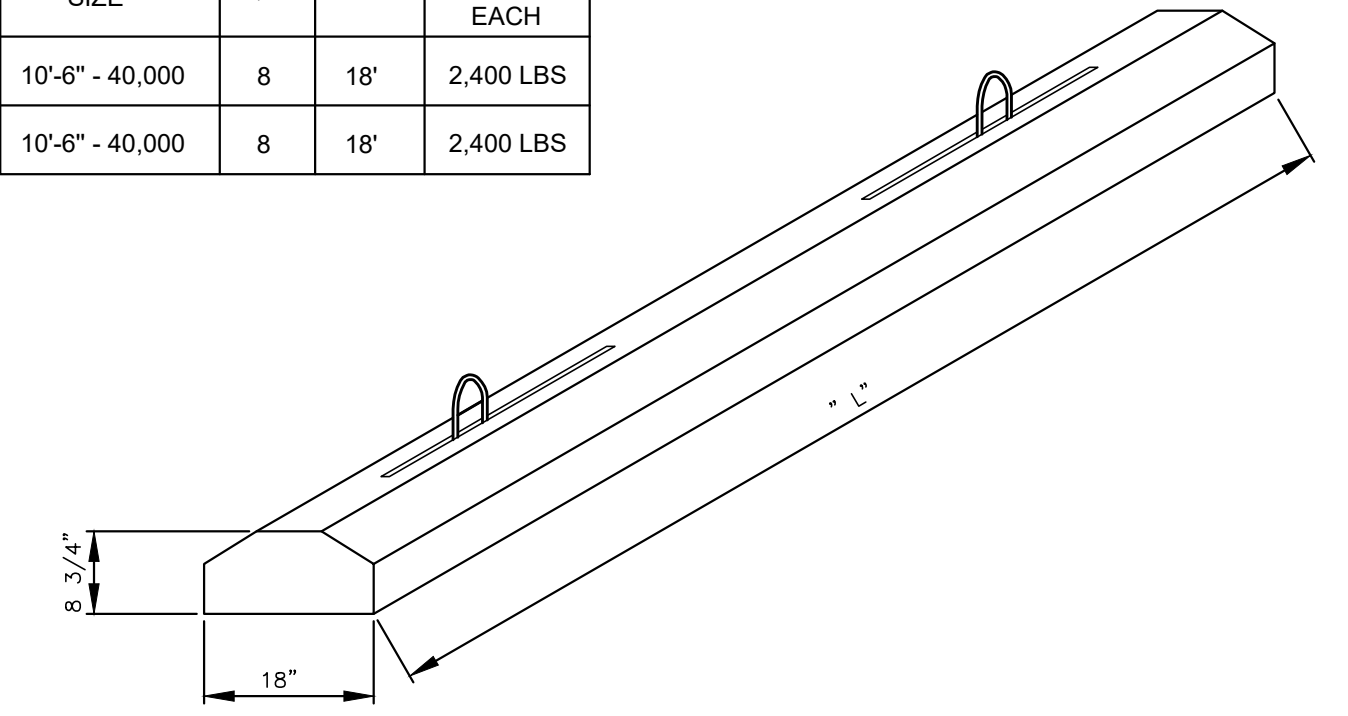
DISPENSER SUMP FITTING INSTALLATION

- GENERAL:**
- UPP BULKHEAD FITTINGS ARE ELECTRO-FUSED TO THE POLYETHYLENE SUMP WALL.
 - POLY OR FIBERGLASS SUMP UNITS ARE TO BE SEALED PER MANUFACTURER INSTALLATION INSTRUCTIONS. EACH SUMP SHALL BE FILLED WITH WATER FOR 24 HOURS BEFORE BACKFILL TO VERIFY WATER TIGHTNESS.
- INSTALLATION**
- LAY OUT THE BULKHEAD FITTING LOCATIONS ACCORDING TO THE APPLICABLE PIPING DIAGRAM FOR THE SITE. IN ORDER THAT THE REQUIRED SCOPE BACK TO THE TANK CAN BE ACCOMMODATED. IT IS RECOMMENDED THAT THE CALCULATIONS BE MADE AFTER THE TANKS HAVE BEEN SET TO HEIGHT. THERE IS NO NEED TO ACCOUNT FOR SLOPE WITHIN THE SUMPS THEMSELVES.
 - MARK A CENTERLINE ON THE SUMP FACE SUCH THAT FITTING FLANGES ALL NO INTERFERE. POSITION THE BULKHEAD FITTING SO THAT ITS EDGE WILL BE AT LEAST ONE INCH FROM ANY SUMP EDGE. NOW MARK VERTICAL CENTERLINE INTERSECTION
 - USING APPROPRIATE DIAMETER HOLE, SAW CUT THE HOLE FOR THE BULKHEAD FITTING USING A SHARP KNIFE, TRIM ANY BURRS FROM THE RESULTING WORK PIECE.
 - USING TOOL SKA, DE-GLAZE SUMP IN CONTACT AREA OF FITTING PIPE. WIPE DE-GLAZED AREA USING CLOTH MOISTENED WITH ACETONE.
 - ROUGHEN CONTACT AREA OF BULKHEAD FITTING USING EMERY CLOTH, NOT STEEL WOOL OR SAND PAPER. WIPE PREPARED AREA WITH ACETONE CLOTH.
 - POSITION BULKHEAD FITTING AND CLAMP TO SUMP WALL USING TOOL 305.
 - AUTO FORECOURT ONLY. ALL UPP PIPING SHALL BE 3/3 FT STICKS THAT SHOULD BE USED BETWEEN DISPENSER POINTS. THESE WILL HAVE TO BE SHORTENED, AS NEEDED.
- ENTRY BOOT WELD**
- WELD FITTING TO SUMP USING ELECTRO FUSION WELDER PER MANUFACTURER'S INSTRUCTIONS. MARK TIME OF WELD COMPLETION ON A SUMP ABOVE WELDING LEADS. DO NOT REMOVE CLAMP UNTIL TWENTY MINUTES HAVE PASSED.
- PIPE PREPARATION AND JOINT MAKING:**
- MEASURE SUMP-TO-SUMP CENTERLINE DISTANCE, ACCOUNTING FOR NECESSARY DETOURS AROUND INTERVENING OBJECTS, AND OTHER PIPES.
 - USING THE PIPES CUTTING TOOL, P. CUT. MAKE A BURR-FREE, AND SQUARE CUT ON THE PIPE.
- PIPE CUTS:**
- IF USING COAXIAL PIPE, USE CUTTING TOOL TO PREPARE CONTAINMENT SLEEVE. CUT SLEEVE BACK END OF THE PRIMARY PIPE.
 - DE-GLAZE SECONDARY PIPE SKIN IN PREPARATION FOR WELDING.
- PIPE SCRAPPERS:**
- AS AN ALTERNATE, A RAZOR EDGED SCRAPER, SCR. SKA CAN BE USED TO LONGITUDINALLY ROUGHEN THE SKIN OF THE PRIMARY PIPE, AND HOWEVER, CARE MUST BE TAKEN TO LEAVE NO UNSCRAPED AREAS.
- WIPE THE MATING SURFACES USING AN ACETONE MOISTENED LINT FREE CLOTH.
 - POSITION FITTINGS ON THE PIPE, INSERT PIPE THROUGH BULKHEAD FITTING. POSITION TEST FITTING.
 - INSERT THE PREPARED PIPE END(S) IN TO THE FITTING TO THE SPECIFIED DEPTH. CLAMP PIPES TOGETHER USING UPP TOOL CLAM(S) OR CLAMP (A) AS APPROPRIATED. IF COUPLING OCCURS IN CURVED RUN, LAY OUT JOINT STRAIGHT, WELD, ALLOW TO COOL, THEN BEND INTO POSITION. FAILURE TO PROPERLY MAINTAIN JOINT GEOMETRY FOR AT LEAST 20 MINUTES AFTER WELDING IS COMPLETE WILL RESULT IN AN UNSATISFACTORY JOINT.
 - COMPLETE THE JOINT WELDING AS SPECIFIED BY UPP. USING CHINA MARKER, NOTE TIME OF COMPLETION NEXT TO WELD. DO NOT REMOVE CLAMPS BEFORE TWENTY (20) MINUTES HAVE PASSES BEYOND THIS ITEM.
 - RECORD BATCH NUMBERS FROM PIPING MARKING INTO UPP INSTALLATION CHECKLIST.

- ENTRY BOOT WELD**
- WELD FITTING TO SUMP USING ELECTRO FUSION WELDER PER MANUFACTURER'S INSTRUCTIONS. MARK TIME OF WELD COMPLETION ON A SUMP ABOVE WELDING LEADS. DO NOT REMOVE CLAMP UNTIL TWENTY MINUTES HAVE PASSED.
- PIPE PREPARATION AND JOINT MAKING:**
- MEASURE SUMP-TO-SUMP CENTERLINE DISTANCE, ACCOUNTING FOR NECESSARY DETOURS AROUND INTERVENING OBJECTS, AND OTHER PIPES.
 - USING THE PIPES CUTTING TOOL, P. CUT. MAKE A BURR-FREE, AND SQUARE CUT ON THE PIPE.
- PIPE CUTS:**
- IF USING COAXIAL PIPE, USE CUTTING TOOL TO PREPARE CONTAINMENT SLEEVE. CUT SLEEVE BACK END OF THE PRIMARY PIPE.
 - DE-GLAZE SECONDARY PIPE SKIN IN PREPARATION FOR WELDING.
- PIPE SCRAPPERS:**
- AS AN ALTERNATE, A RAZOR EDGED SCRAPER, SCR. SKA CAN BE USED TO LONGITUDINALLY ROUGHEN THE SKIN OF THE PRIMARY PIPE, AND HOWEVER, CARE MUST BE TAKEN TO LEAVE NO UNSCRAPED AREAS.
- WIPE THE MATING SURFACES USING AN ACETONE MOISTENED LINT FREE CLOTH.
 - POSITION FITTINGS ON THE PIPE, INSERT PIPE THROUGH BULKHEAD FITTING. POSITION TEST FITTING.
 - INSERT THE PREPARED PIPE END(S) IN TO THE FITTING TO THE SPECIFIED DEPTH. CLAMP PIPES TOGETHER USING UPP TOOL CLAM(S) OR CLAMP (A) AS APPROPRIATED. IF COUPLING OCCURS IN CURVED RUN, LAY OUT JOINT STRAIGHT, WELD, ALLOW TO COOL, THEN BEND INTO POSITION. FAILURE TO PROPERLY MAINTAIN JOINT GEOMETRY FOR AT LEAST 20 MINUTES AFTER WELDING IS COMPLETE WILL RESULT IN AN UNSATISFACTORY JOINT.
 - COMPLETE THE JOINT WELDING AS SPECIFIED BY UPP. USING CHINA MARKER, NOTE TIME OF COMPLETION NEXT TO WELD. DO NOT REMOVE CLAMPS BEFORE TWENTY (20) MINUTES HAVE PASSES BEYOND THIS ITEM.
 - RECORD BATCH NUMBERS FROM PIPING MARKING INTO UPP INSTALLATION CHECKLIST.
- SPECIFICATIONS**

NOTE:
UNDERGROUND FUEL TANKS ON THIS DOCUMENT ARE FOR ILLUSTRATION ONLY. VERIFY WITH MANUFACTURE INSTALLATION GUIDE FOR MORE INFORMATION. RE: SITE PLAN FOR THE EXACT LOCATION AND SIZE OF UNDERGROUND TANKS.

HALL TANK DEADMAN			
TANK SIZE	QTY	"L"	APPROX. WEIGHT EACH
10'-6" - 40,000	8	18'	2,400 LBS
10'-6" - 40,000	8	18'	2,400 LBS



- HALL TANK PRECAST DEADMAN**
- HALL TANK DEADMAN ARE ENGINEERED AND DESIGNED TO BE USED WITH HALL TANK TANKS.
 - IN MULTIPLE TANK INSTALLATIONS, EACH TANK REQUIRES ITS OWN SET OF DEADMAN.
 - FOR CAST IN PLACE OR DEADMAN CONSTRUCTED OFF SITE, REFER TO HALL TANK INSTALLATION MANUAL AND OPERATING GUIDELINES FOR PROPER SIZING AND ANCHOR POINT SPECIFICATIONS.

9 CONCRETE DEADMAN WEIGHT ACHOR DETAIL
NOT TO SCALE
RE:

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-FP11.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

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REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE
FUEL PRODUCT TANK ANCHORING/DEADMAN DETAILS

DRAWING NUMBER
FP11



VICINITY MAP
N.T.S.

EPA TECHNICAL STANDARDS:

LEAK DETECTION:
 PIPING: AUTOMATIC SHUTOFF DEVICE OR FLOW RESTRICTOR
 TANKS: AUTOMATIC TANK MONITORING AND INVENTORY CONTROL.

OVERFILL PREVENTION - SPILL CONTAINMENT:
 SPILL CONTAINMENT MANHOLE: RE: FP6
 OVERFILL PREVENTION VALVE: RE: FPF6

CORROSION PROTECTION:
 TANKS: FIBERGLASS DOUBLE WALL - HALL TANK COMPANY
 PIPING: DOUBLE WALL PRODUCT PIPING
 ALL METALLIC COMPONENTS OF THE PIPING SYSTEM TO BE ELECTRICALLY ISOLATED FROM THE BACKFILL BY COATING WITH A SUITABLE DIELECTRIC MATERIAL. RE:FP6

FUEL ISLANDS

- FUEL ISLANDS MUST BE MAINTAINED AND KEPT CLEAN AND FREE OF TRASH OR OTHER UNSIGHTLY ITEMS AT ALL TIMES.
- FUEL ISLANDS MUST HAVE A CONCRETE PAD UNDER THE CANOPY.
- DISTRIBUTOR MUST PROVIDE OWNER APPROVED TRASH CANS AND WINDSHIELD WASHER CABINETS ON ALL FUEL ISLANDS.
- WHEN REQUIRED - FUEL ISLANDS MUST HAVE WELL MAINTAINED, PAINTED CURBS REFLECTIVE OF THE OWNER BRAND IMAGE.

FUEL WARNING/REGULATORY DECALS

DISTRIBUTORS ARE SOLELY RESPONSIBLE FOR PROVIDING PROPER NOTICE AND PLACEMENT OF WARNING/REGULATORY DECALS ON ALL FUEL DISPENSERS USED TO NOTIFY THE PUBLIC ABOUT THE DANGERS ASSOCIATED WITH DISPENSING AND USING FUEL AND FUEL PRODUCTS.

FUELING FACILITIES

THE CANOPY MUST BE A MODERN HORIZONTAL STRUCTURE WITH VERTICAL, SMOOTH AND FLAT FASCIA CONSTRUCTED OF METAL, ACM, OR OTHER SIMILAR MATERIAL APPROVED IN WRITING BY OWNER. THE CANOPY MUST HAVE A CANOPY PAN ON THE UNDERNEATH SIDE OF THE CANOPY AND MUST ALSO HAVE LIGHTING (NON FLUORESCENT) WORKING AND SUITABLE TO THE OVERALL SIZE OF THE CANOPY. MARKS MAY ONLY BE UTILIZED WITHIN OR ON ANY CANOPY AS APPROVED BY OWNER.

CANOPY COLUMNS

CANOPY COLUMNS WILL BE COVERED FULL HEIGHT OF THE COLUMN.

UNAUTHORIZED SIGNAGE ON COLUMNS

UNDER NO CIRCUMSTANCES IS IT ACCEPTABLE TO INSTALL OR DISPLAY SIGNAGE ON THE COLUMNS OF EITHER A TEMPORARY OR PERMANENT NATURE WITHOUT PRIOR, WRITTEN AUTHORIZATION FROM OWNER. THIS INCLUDES BANNERS, PROMOTIONAL SIGNS, POLE WRAP SIGNS, WARNING DECALS, HANDWRITTEN SIGNS AND NOTICES, ETC.

AUTOMATION

EACH STATION SHALL UTILIZE, AT DISTRIBUTOR'S EXPENSE, AUTOMATION EQUIPMENT FOR THE PURPOSE OF CREDIT CARD TRANSACTION AND AUTHORIZATION SERVICES, AND OTHER AGREED UPON SERVICES WHICH SHALL AT A MINIMUM MEET CEFCO'S CRITERIA FOR SPEED, CAPACITY AND SERVICES IN THE MANNER AND AS DETERMINED BY CEFCO.

DISPENSERS

- A MINIMUM OF 2 MPD'S WITH CRINDS ARE REQUIRED.
- MPD'S MUST BE MODERN AND IN GOOD WORKING CONDITION.
- DISPENSERS MUST DISPLAY GRAPHICS AND DECALS ACCORDING TO THE IMAGE SPECIFICATIONS SET BY CEFCO. VERIFY WITH OWNER.
- PUMP MARKS MAY ONLY BE UTILIZED WITHIN OR ON THE PUMP SKIRT AS APPROVED BY CEFCO. IN NO EVENT MAY DISTRIBUTOR OR ITS DEALER(S) UTILIZE ANY TRADEMARKS, COLOR SCHEMES, TRADE DRESS, SERVICE MARKS, SIGNS, SYMBOLS, SLOGANS OR DESIGNS OTHER THAN THE MARKS ON THE DISPENSERS OR WITHIN OR ON THE PUMP SKIRT.

TANK, PIPING & INSTALLATION NOTES:

GENERAL NOTES:

- ALL NEW PETROLEUM EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE DEP APPROVED. ALL PETROLEUM EQUIPMENT, MATERIALS AND ACCESSORIES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE MANUFACTURER'S INSTRUCTIONS.
- ALL TANKS AND PIPING INSTALLATION WORK IS TO BE PERFORMED BY A STATE REGISTERED POLLUTANT STORAGE SPECIALTY CONTRACTOR.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICANT STATE, COUNTY AND MUNICIPAL BUILDING CODE REQUIREMENT AND ORDINANCES; AND THE FOLLOWING REFERENCE STANDARDS:
 NATIONAL FIRE PROTECTION ASSOCIATION:
 30 FLAMMABLE AND COMBUSTIBLE LIQUID CODE
 30A AUTOMOTIVE SERVICE STATION CODE
 329 UNDERGROUND LEAKAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS
 70 NATIONAL ELECTRIC CODE
 AMERICAN PETROLEUM INSTITUTE:
 1615 INSTALLATION OF UNDERGROUND PETROLEUM STORAGE SYSTEMS
 604 RECOMMENDED PRACTICE FOR ABANDONMENT OR REMOVAL OF USED U.G. STORAGE TANKS
 PETROLEUM EQUIPMENT INSTITUTE:
 RP100 RECOMMENDED PRACTICES FOR INSTALLATION OF U.G. LIQUID STORAGE TANKS
 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:
 CONSTRUCTION SAFETY AND HEALTH REGULATIONS SUBPART P. 1902.50 THRU 1926.653
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING REQUIRED NOTICE(S) AND SCHEDULING APPLICABLE CITY, COUNTY AND/OR STATE INSPECTIONS AS REQUIRED FOR PERMIT CLOSE OUT(S).
- STANDARD TANK/PIPING TEST SPECIFICATIONS - CERTIFIED CONTRACTOR TO PERFORM CARE TP-201.3, IN ADDITION TO THE FOLLOWING STANDARD TESTING:
 *** HYDROSTATIC TESTING FOR SPILL BUCKETS AND SUMPS
 *** PRECISION PRESSURE TESTING OF TANKS AND LINES

GENERAL PIPING NOTES:

- GENERAL:
 1.1. PRIMARY PRODUCT PIPING TO UTILIZE UPP PIPING AND PIPING LENGTHS SHALL USE 3/32" STICKS BETWEEN DISPENSER POINTS. THESE WILL HAVE TO BE SHORTENED, AS NEEDED.
- STEEL PIPE TO BE SCHEDULE 40 GALVANIZED. ALL PIPING AND FITTINGS TO BE ALCOHOL COMPATIBLE. SCHEDULE 40 BLACK PIPE ON DIESEL PRODUCT, STAINLESS STEEL PIPE FOR DEF CONNECTIONS.
- PIPE JOINT SEAL:
 2.1. GASOLIA SOFT SET SHALL BE USED ON ALL STEEL PIPE FITTINGS AND THREADED METAL CONNECTIONS.
- TANK VENTS:
 3.1. ALL TANKS VENTS SHALL BE S/W UPP PIPING. RISERS WILL BE SCHEDULED 40 GALVANIZED STEEL. CANOPY MANUFACTURER SUPPLIES IN-COLUMN PORTION OF VENT-RISER.
- BACKFILL:
 4.1. BACKFILL OVER PRODUCT PIPING SHALL BE CLEAN, COMPACTED PEA GRAVEL. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON 6" OF COMPACTED PEA GRAVEL.
 4.2. NO PIPING SHALL BE SUPPORTED BY BLOCKS, PLANKS OR OTHER DEBRIS.
 4.3. PIPING SHALL BE SEPARATED BY AT LEAST THE DIAMETER OF THE LARGER PIPE.
- SLOPE:
 ALL PIPING MUST SLOPE TO UNDERGROUND TANKS. VENT AND VAPOR RECOVERY PIPING MUST SLOPE AT A MINIMUM RATE OF 1/8" PER FOOT.
- MINIMUM 18" BEND RADIUS FOR CONDUIT. MINIMUM 5' RADIUS FOR PRODUCT PIPING.

ELECTRICAL NOTES:

- N.E.C. ARTICLE 500 & 514 CONDITIONS FOR HAZARDOUS AREAS AND FUEL DISPENSING FACILITIES APPLY.
- PROVIDE EXPLOSION PROOF SEALS-OFFS IN ACCORDANCE WITH ARTICLES 500, 501, AND 514 (CLASS 1, DIVISION 1 & 2) OF THE 2008 NATIONAL ELECTRICAL CODE TYPICAL FOR ALL CONDUITS IN CLASS 1 LOCATIONS, INCLUDING LOW VOLTAGE CONDUITS.
- ALL CONDUITS IN CLASS 1 LOCATIONS SHALL BE GROUNDED AS PER NEC. 250.100 & 501.30. MATERIALS:

MATERIAL:

- UPP SYSTEM SOLUTION PIPING IS TO PROVIDE SUFFICIENT PIPING AND FITTINGS TO COMPLETE ANY TYPICAL INSTALLATION TO THE INSTALLER BY THE OWNER. UNLTD. USED MATERIALS SHALL BE INVENTORIED AND RETURNED CEFCO REPRESENTATIVE.
- THERE ARE TWO TYPES OF PIPING:
 2.1. COAXIAL, SECONDARILY CONTAINED DIRECT BURIAL FLEXIBLE PIPING "UPP UL371" WITH A 50 MM (2") PRIMARY AND A 63 MM (2 1/2") O.D. SECONDARY. THIS PIPING IS TYPICALLY DELIVERED IN ROUND ROLLS.
 2.2. SINGLE WALL FIBERGLASS PIPING TO BE SHIPPED IN STRAIGHT PIPING FOR USE IN VENTING AND IF SPECIFIED BY THE OWNER. VAPOR RECOVERY PIPING.
- INSTALLATION REQUIREMENTS ARE SIMILAR FOR BOTH THE DOUBLE WALL AND THE SINGLE THICKNESS PIPING.
- FITTINGS FOR ELBOWS, TEES, NPT ADAPTORS AND BULKHEAD PENETRATION WITH UPP ARE PROPRIETARY, AND NO SUBSTITUTIONS ARE PERMITTED.
- TOOLS FOR HANDLING AND INSTALLATION ARE PROPRIETARY FOR UPP PIPING AND SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE INSTALLER.
- DISPENSER SUMPS ARE POLYETHYLENE PRODUCTS OF UPP, WHILE THE TANK SUMP ARE OF FIBERGLASS CONSTRUCTION, FOR BONDING TO THE SECONDARY CONTAINMENT RING OF THE UNDERGROUND TANK. THIS SUMP IS PRESENTLY NOT A UPP PRODUCT.

HANDLING:

- HANDLE UPP PIPING AND FITTINGS WITH CARE, AS WITH ANY PETROLEUM PIPING. DO NOT ACCEPT PIPING FOR USE WHERE SURFACE DAMAGE, CUTS, GOUGES, EXCEEDS ONE TENTH(LD%) OF THE MATERIAL THICKNESS.
- USE NO METALLIC SLINGS TO LIP UPP PIPING.
- UPP PIPING, WHILE FLEXIBLE, MAY CONTAIN MORE STORED ENERGY THAN COMPARABLE PRODUCTS SHIPPED IN ROLLS, USE ADDITIONAL PERSONNEL AND SLIP KNOT ROPE AROUND BUNDLE WITHIN RELEASING PACKING BANDS.
- USE ONLY UPP CUTTERS AND SHAVERS FOR PIPE PREPARATIONS.
- THE ELECTOR FUSION WELDER IS NOT EXPLOSION PROOF, DO NOT POSITION THE UNIT IN ANY CLASSIFIED HAZARDOUS AREAS OR WHERE AN EXPLOSIVE ATMOSPHERE MAY EXIST.
- UPP SYSTEM SOLUTION PIPING USES TECHNOLOGY WHICH MAY BE UNFAMILIAR TO THE INSTALLER. DO NOT ATTEMPT INSTALLATION PRIOR TO TRAINING BY AUTHORIZED PETROTECHNIK PERSONNEL.

GENERAL KEYED NOTES :

- UNDERGROUND FIBERGLASS FUEL STORAGE TANKS - BY WATCO TANKS INC. AND XERXES, (10'-6" DIA TYP.) OR APPROVED EQUAL.
 1) 40,000 GAL. TANK FOR DIESEL (WATCO)
 2) 40,000 GAL. TANK DIVIDED AT 26,000 REGULAR, 8,000 PREMIUM AND 6,000 ETHANOL (WATCO)
 3) 8,000 GAL. TANK FOR DEF (XERXES)
 RE: TFP1-10 FOR TRUCK FUELING STATION INFORMATION ALL TANK INSTALLATIONS SHALL BE IN ACCORDANCE WITH 2021 IFC AND ALL TCEQ GUIDELINES AND RULES. (or latest issue)
- PROPOSED DUMPSTER ENCLOSURE. RE: S03A & S03B
- ID SIGN . ALL SIGNAGE SHALL BE ON PRIVATE PROPERTY ONLY AND MUST BE PERMITTED SEPARATELY BY A SIGN CONTRACTOR. RE: A01
- AIR UNIT
- PROPOSED LED AREA LIGHT FIXTURE TO MATCH EXISTING. VERIFY WITH OWNER. RE: E01
- RAMP - ACCESSIBLE ROUTE SLOPE & SURFACE TO BE IN COMPLIANCE W/ TAS. RE: TAS1. COLOR: STAINED COLA BY KEMICO.
- ACCESSIBLE ROUTE IN COMPLIANCE W/ TAS.
- ACCESSIBLE RESERVED PARKING
- 5'-0" WIDE CONCRETE SIDEWALK
- GREEN AREA / LANDSCAPED AREA
- 30'-0" X 154'-0" TRUCK FUEL CANOPY

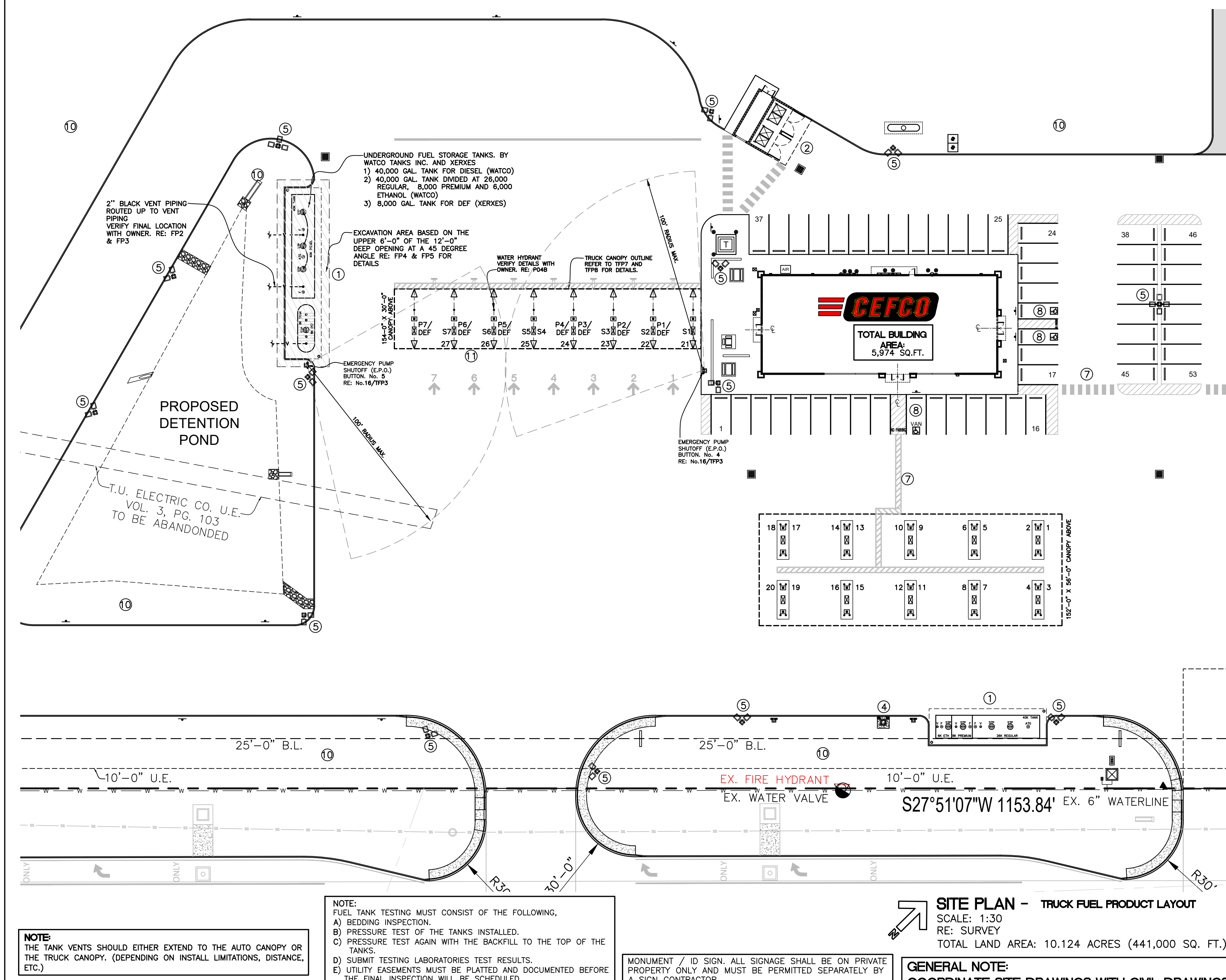
CONTRACTOR REQUIREMENTS:

- OBTAIN PERMIT FOR TANK INSTALLATION
- EXCAVATE TANK PIT AND DISPOSE OF DIRT (VERIFY WITH CONTRACTOR PRIOR TO THE DISPOSAL OF DIRT).
- CONTRACTOR MUST BID SLOPE TOLL
- SET TANKS TO MANUFACTURERS REQUIREMENTS. FURNISH NECESSARY GRAVEL AND/OR SAND FOR TANKS AND TRENCHES FOR LINES.
- FURNISH AND INSTALL ALL PIPE AND FITTINGS.
- INSTALL ALL EPA COMPONENTS, VALVES, FITTINGS, MANHOLES AS REQUIRED AND SHOWN.
- FURNISH AND INSTALL ALL RISER PIPES.
- FURNISH AND INSTALL ALL OBSERVATION WELLS AS REQUIRED.
- INSTALL UNDER DISPENSER CONTAINMENT AND ISLANDS WHERE REQUIRED.
- INSTALL REMOTE PUMPS, LEAKS DETECTORS, AND DISPENSERS.
- PURGE LINES AND CALIBRATE DISPENSERS BEFORE SYSTEM IS SET INTO FULL OPERATION.
- PRECISION TEST TANKS AND LINES IN ACCORDANCE WITH EPA/TCEQ REGULATIONS AND THEIR RESPECTIVE LOCAL AGENCIES.

ELECTRICAL REQUIREMENTS:

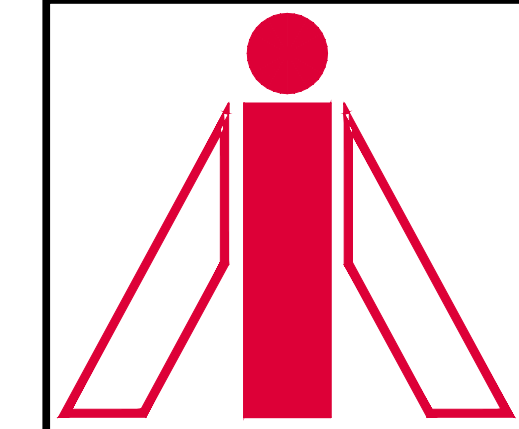
ELECTRICAL REQUIREMENTS: FOR THE EMERGENCY SHUT-OFF AT FUEL ISLANDS
 THE CONTRACTOR SHALL COMPLIED WITH THE NEW NFPA 70 SECTION 514.11 CIRCUIT DISCONNECTS
 514.11: REVISED TO IDENTIFY ALL OF THE TYPES OF CIRCUITS THAT ARE REQUIRED TO BE DISCONNECTED AND TO CHANGE "ACCEPTABLE" TO "APPROVED" IN REGARD TO OTHER TYPES OF DISCONNECTING MEANS.
 (A) GENERAL. EACH CIRCUIT LEADING TO OR THROUGH DISPENSING EQUIPMENT, INCLUDING ALL ASSOCIATED POWER, COMMUNICATION, DATA, AND VIDEO CIRCUITS, AND EQUIPMENT FOR REMOTE PUMPING SYSTEMS, SHALL BE PROVIDED WITH A CLEARLY IDENTIFIED AND READILY ACCESSIBLE SWITCH OR OTHER APPROVED MEANS, LOCATED REMOTE FROM THE DISPENSING DEVICES, TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY, ALL CONDUCTORS OF THE CIRCUITS, INCLUDING GROUNDED CONDUCTOR, IF ANY.
 SINGLE-POLE BREAKERS UTILIZING HANDLE TIES SHALL NOT BE PERMITTED.
 (B) ATTENDED SELF SERVICE MOTOR FUEL DISPENSING FACILITIES. EMERGENCY CONTROLS AS SPECIFIED IN 514.11(A) SHALL BE INSTALLED AT A LOCATION ACCESSIBLE TO THE AUTHORITY HAVING JURISDICTION, BUT CONTROLS SHALL NOT BE MORE THAN 30M (100FT) FROM DISPENSERS. [30A:6.7.1]

2203.0 EMERGENCY DISCONNECT SWITCHES: (2021 IFC) (or latest issue)
 AN APPROVED, CLEARLY IDENTIFIED READILY ACCESSIBLE EMERGENCY DISCONNECT SWITCH SHALL BE PROVIDED AT AN APPROVED LOCATION, TO STOP THE TRANSFER OF FUEL DISPENSERS IN THE EVENT OF A FUEL SPILL OR OTHER EMERGENCY. AN EMERGENCY DISCONNECT SWITCH FOR EXTERIOR FUEL DISPENSERS SHALL BE LOCATED WITHIN 100 FEET (30 480 mm) OF, BUT NOT FOR LESS THAN 20 FEET (6096 mm) FROM THE FUEL DISPENSERS.
 FOR INTERIOR FUEL-DISPENSING OPERATIONS, THE EMERGENCY DISCONNECT SWITCH SHALL BE INSTALLED AT AN APPROVED LOCATION. SUCH DEVICES SHALL BE DISTINCTLY LABELED AS: EMERGENCY FUEL SHUTOFF.
 SIGNS SHALL BE PROVIDED IN APPROVED LOCATIONS.
 EMERGENCY PROCEDURE SIGN WILL BE PLACED BY EMERGENCY DISCONNECT SWITCH AND SHALL READ:
 IN CASE OF FIRE, SPILL, OR RELEASE USE EMERGENCY PUMP SHUTOFF REPORT THE ACCIDENT! FIRE DEPARTMENT TELEPHONE NO. 9-1-1 FACILITY ADDRESS: I-35 FRONTAGE ROAD EDDY TEXAS 76524
 FIRE EXTINGUISHERS WITH A RATING OF 2-A-20-B-C SHALL BE REQUIRED AND INSTALLED IN A MANNER TO PROVIDE ONE WITHIN 75 FT. OF EACH MOTOR FUEL DISPENSING PUMP.



SITE PLAN - TRUCK FUEL PRODUCT LAYOUT
 SCALE: 1:30
 RE: SURVEY
 TOTAL LAND AREA: 10.124 ACRES (441,000 SQ. FT.)

GENERAL NOTE:
 COORDINATE SITE DRAWINGS WITH CIVIL DRAWINGS.



INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

PROJECT NUMBER
 CEF22-TFP1.DWG

PROJECT TITLE

CEFCO
 F2501-B SERIES
 RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
 FIKES WHOLESALE, INC.

PROFESSIONAL SEAL

DATE SIGNED: 03-28-24
 LICENSE, EXP.: 11-30-24

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SHEET TITLE

TRUCK FUEL PRODUCT LAYOUT SITE PLAN

DRAWING NUMBER SHEET NO.
TFP1

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PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEFP22-TFP2.DWG

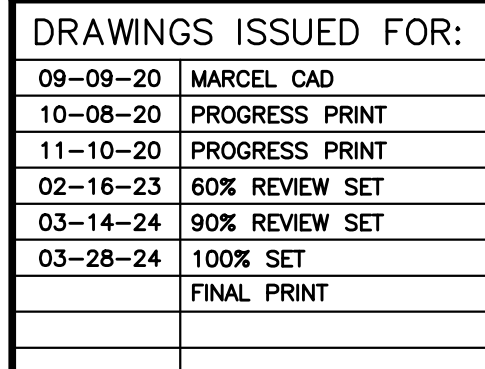
PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
F2501-B SERIES
RIGHT FACING

CEFCO
TOTAL BUILDING AREA: 5,974 SQ.FT.

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



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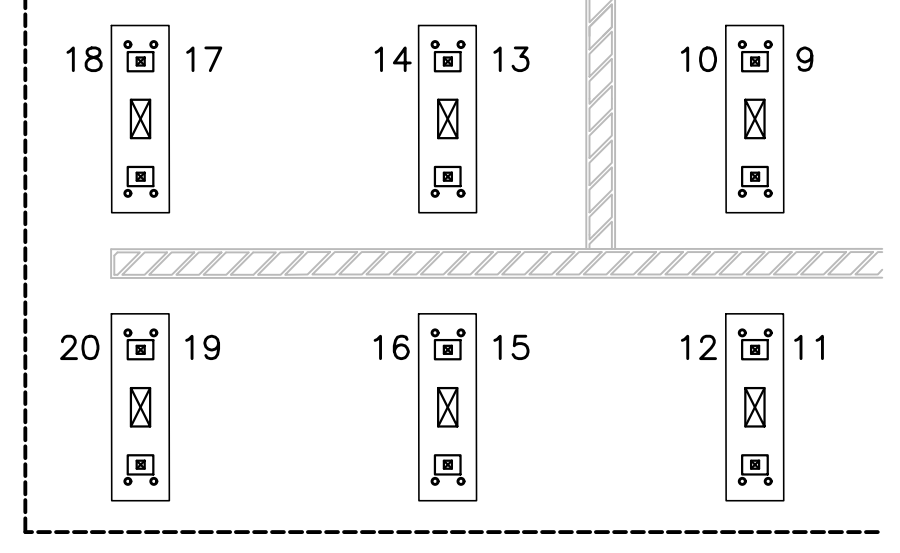
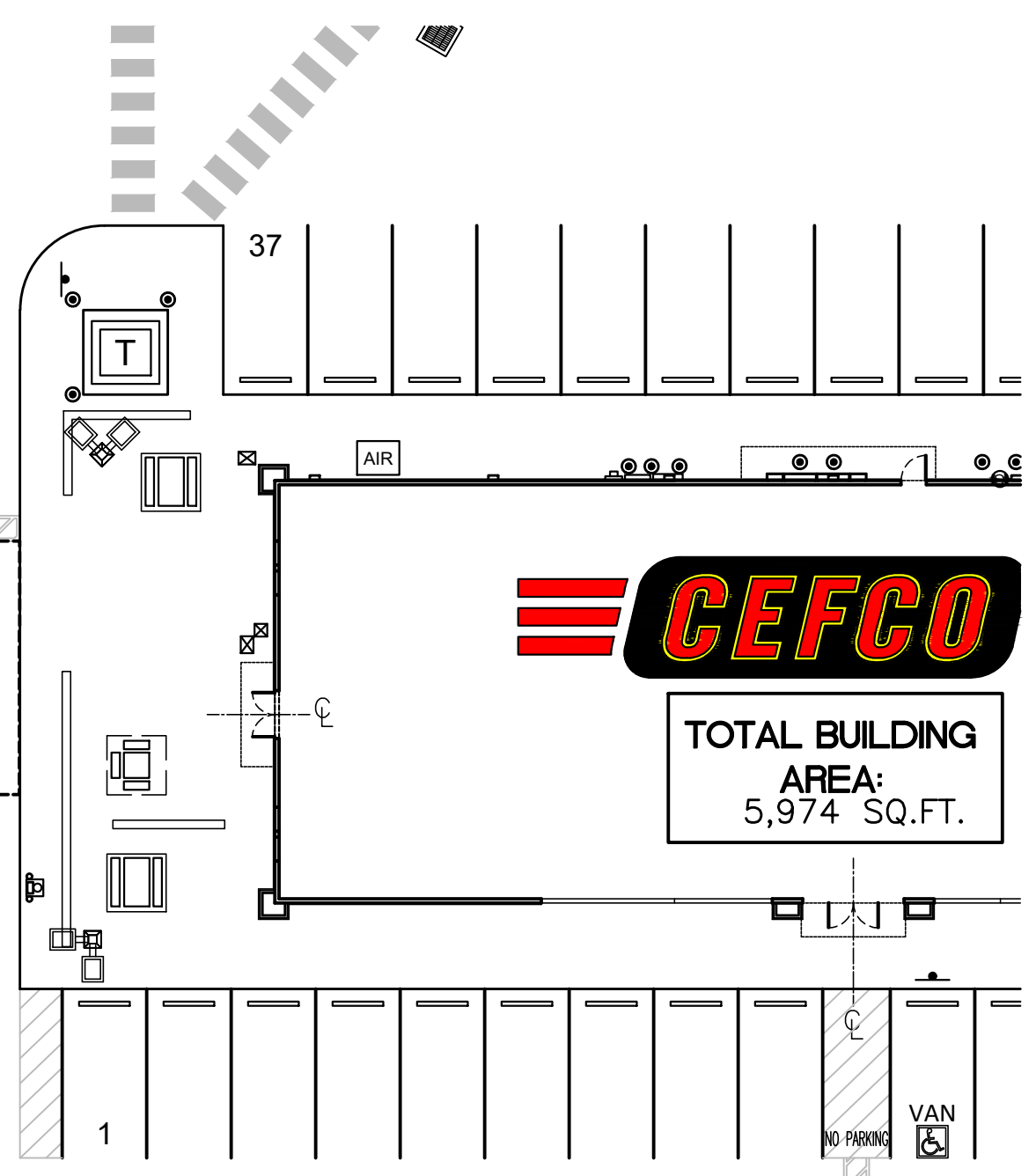
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SHEET TITLE

PRODUCT LINE LAYOUT DETAILS

DRAWING NUMBER SHEET NO.

TFP2



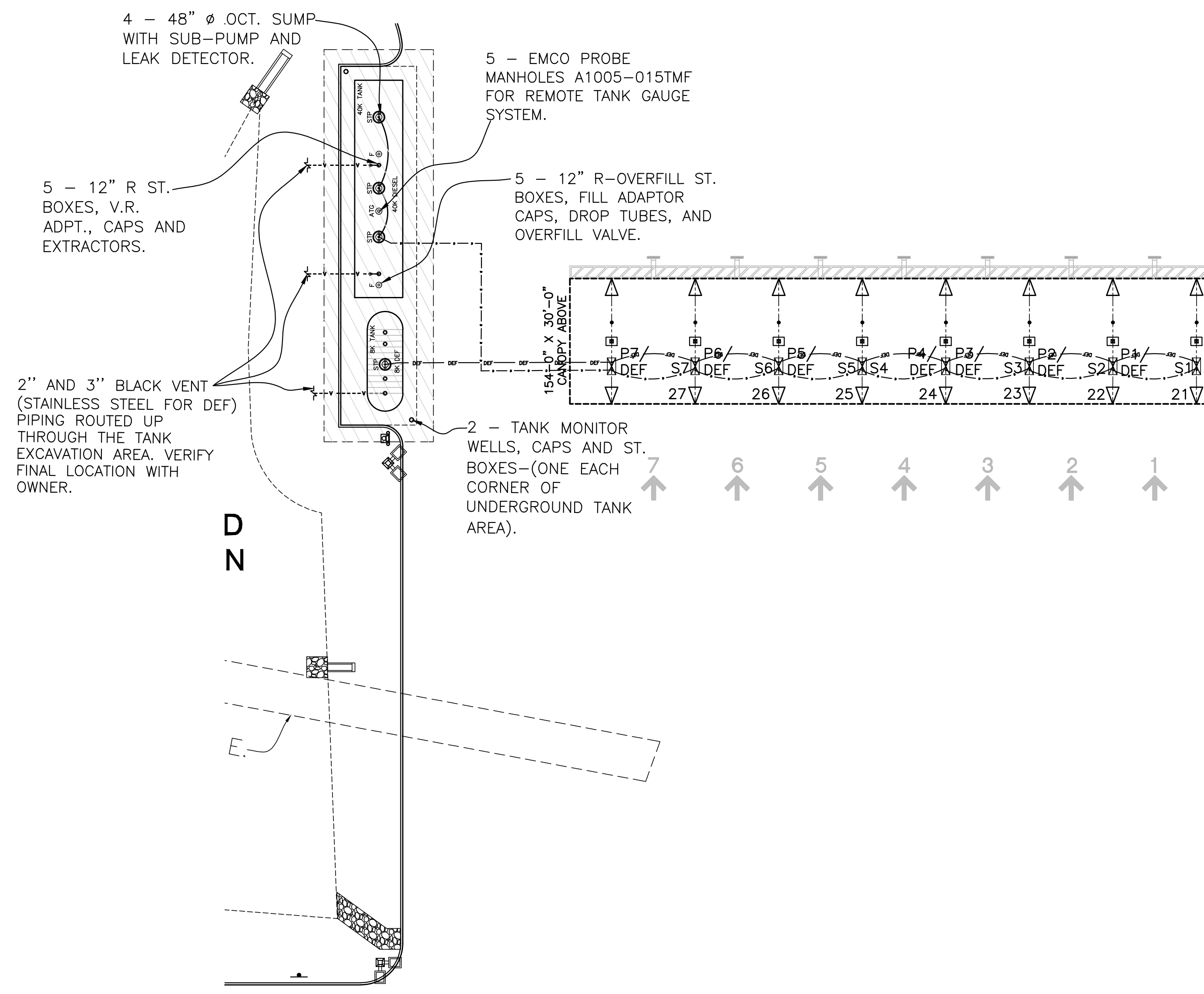
FUEL PRODUCT LAYOUT
SCALE: N.T.S.
NOTE:
MANIFOLD PHASE 2 V.R. LINE TO EACH UNDERGROUND TANK. LAYOUT IS DRAWN FOR DIAGRAMMATIC PURPOSES ONLY. FLEX LINE DOES NOT REQUIRE TRENCH.

PIPING NOTES:

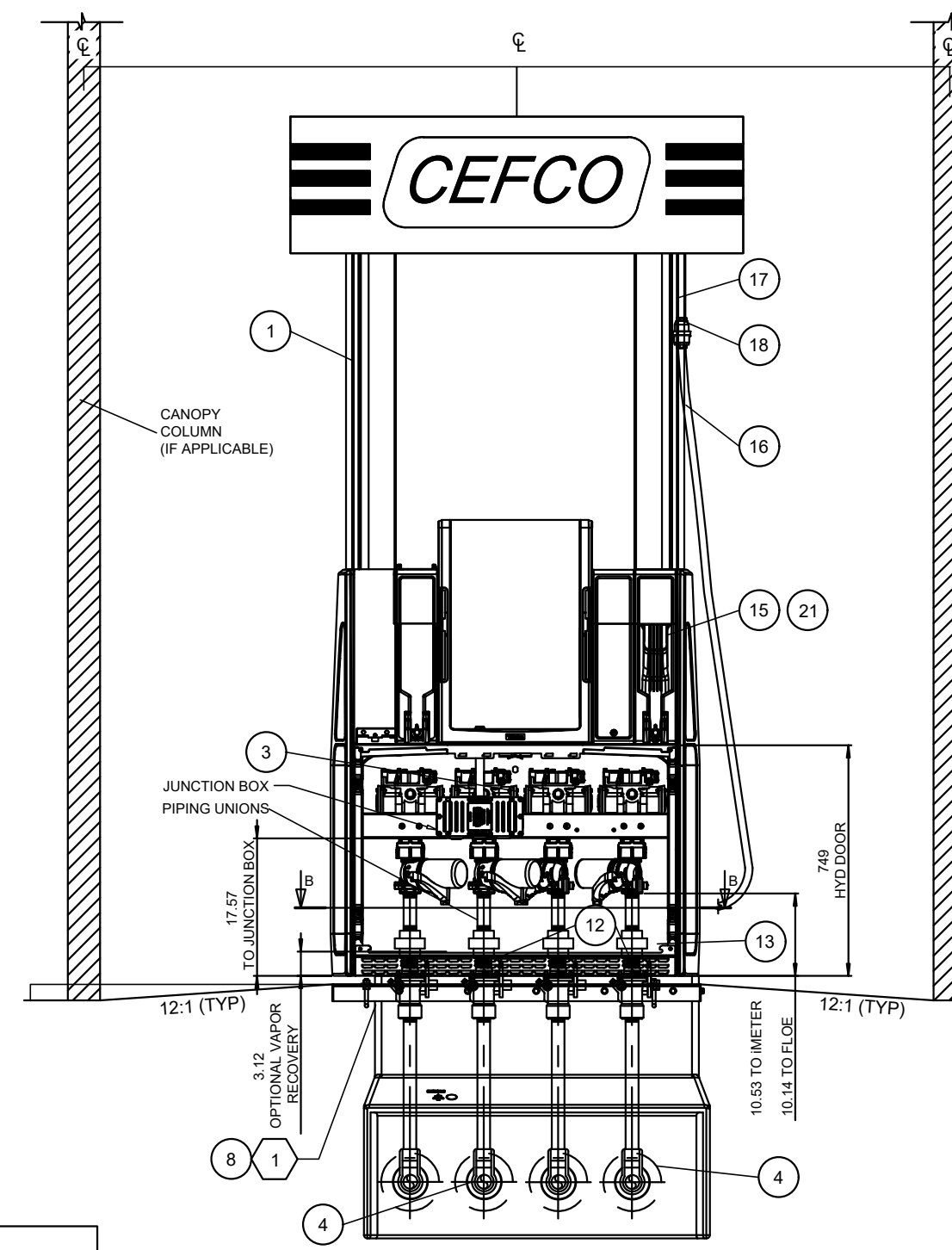
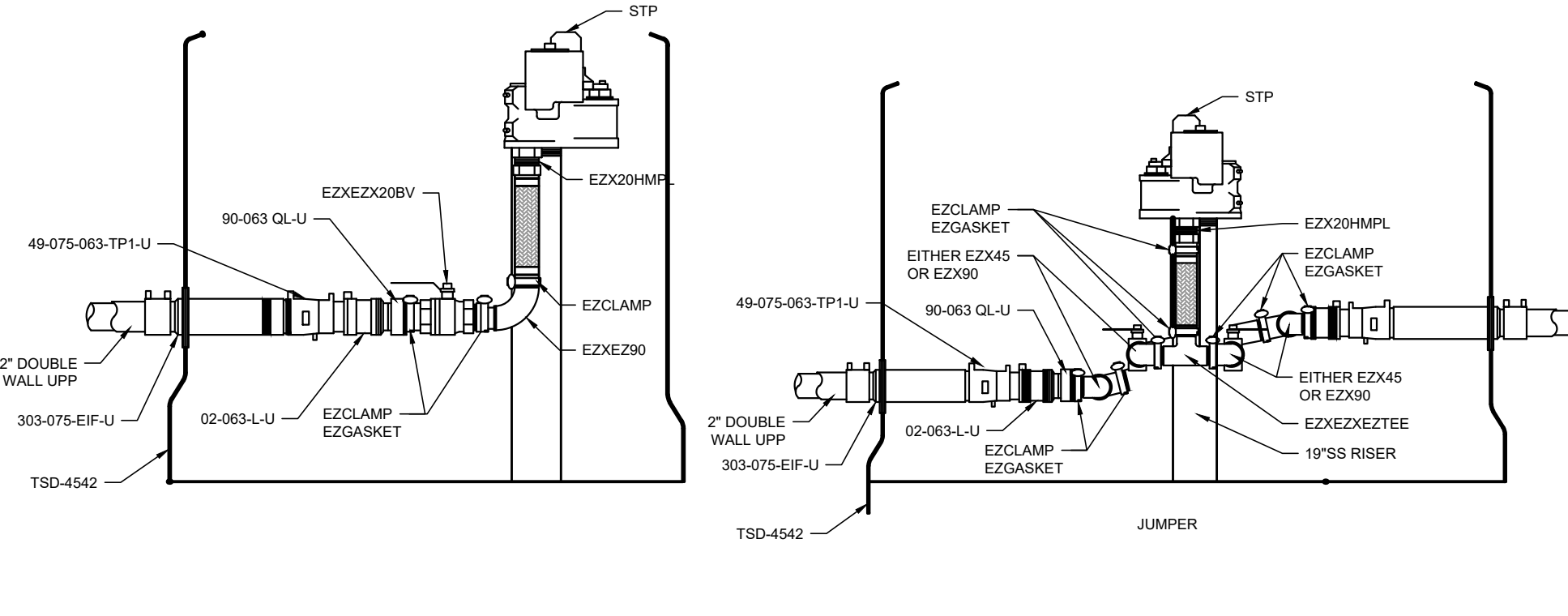
ALL BACKFILL TO BE COMPACTED TO 95% S.P.D. BACKFILL AND BEDDING MATERIAL TO BE:
GRAVEL: WASHED ROUNDED PEA GRAVEL WITH A MINIMUM DIAMETER 1/4" AND A MAXIMUM DIAMETER OF 1/2".
STONE CRUSHINGS: WASHED AND FREE FLOWING WITH ANGULAR PARTICLE SIZE BETWEEN 1/8" AND 1/2" AND MEET ASTM C-33 PARAGRAPH 9.1.
NOTE: NO MORE THAN 3% OF BACKFILL MATERIAL SHALL PASS THROUGH A #8 SIEVE.

LINE TESTING:

GENERAL CONTRACTOR TO COMPLETE THE "INSTALLATION CHECKLIST" INCLUDED IN THE SPECIFICATIONS AND SUBMIT THE INFORMATION REQUESTED TO THE OWNER.
POST-INSTALLATION TESTING: ISOLATE LINES FROM UNDERGROUND STORAGE TANKS. PRESSURIZE LINES TO A MINIMUM OF 25 P.S.I. FOR A PERIOD LONG ENOUGH TO DETERMINE THAT THERE ARE NO LEAKS AS INDICATED BY SOAP BUBBLES OR A DROP IN THE PRESSURE OF THE LINE.
DURING SITE WORK TESTING: MAINTAIN A LINE PRESSURE OF 10 PSI IN THE PIPE DURING CONSTRUCTION OF THE REST OF THE FACILITY TO MONITOR THE INTEGRITY OF THE PIPING. CHECK GAUGES AT REGULAR INTERVALS.
POST-SITE WORK INSTALLATION TESTING: GENERAL CONTRACTOR TO HAVE A TESTING LABORATORY PERFORM A PRECISION LINE TEST AFTER ALL PAVING AND SITE WORK HAS BEEN DONE.

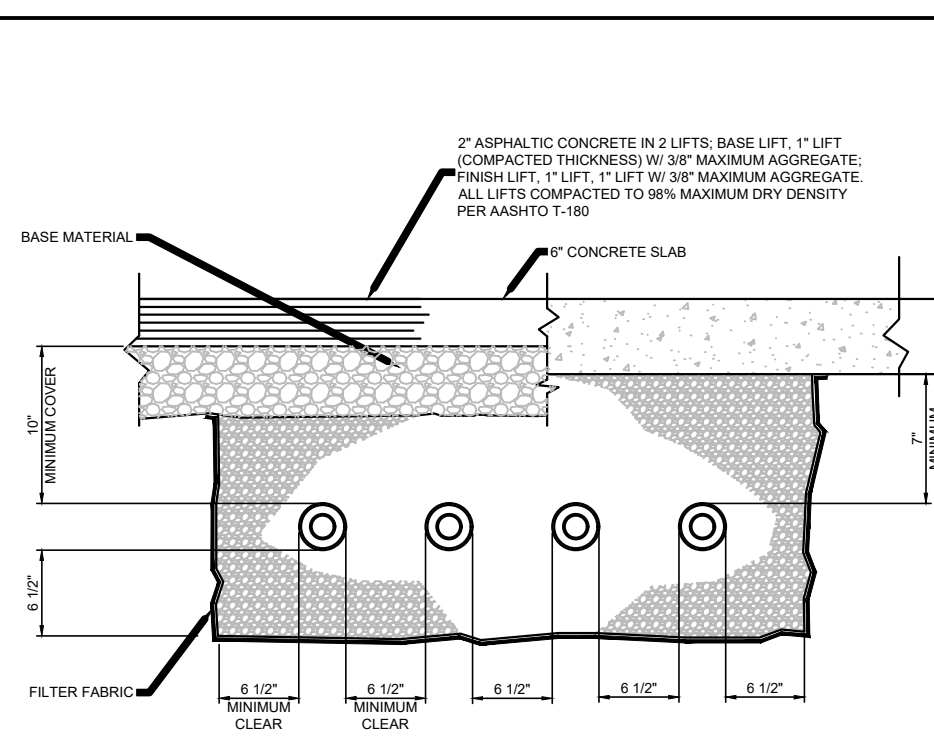


13 SUBMERSIBLE PUMP PART NO. DETAIL
NOT TO SCALE
RE:



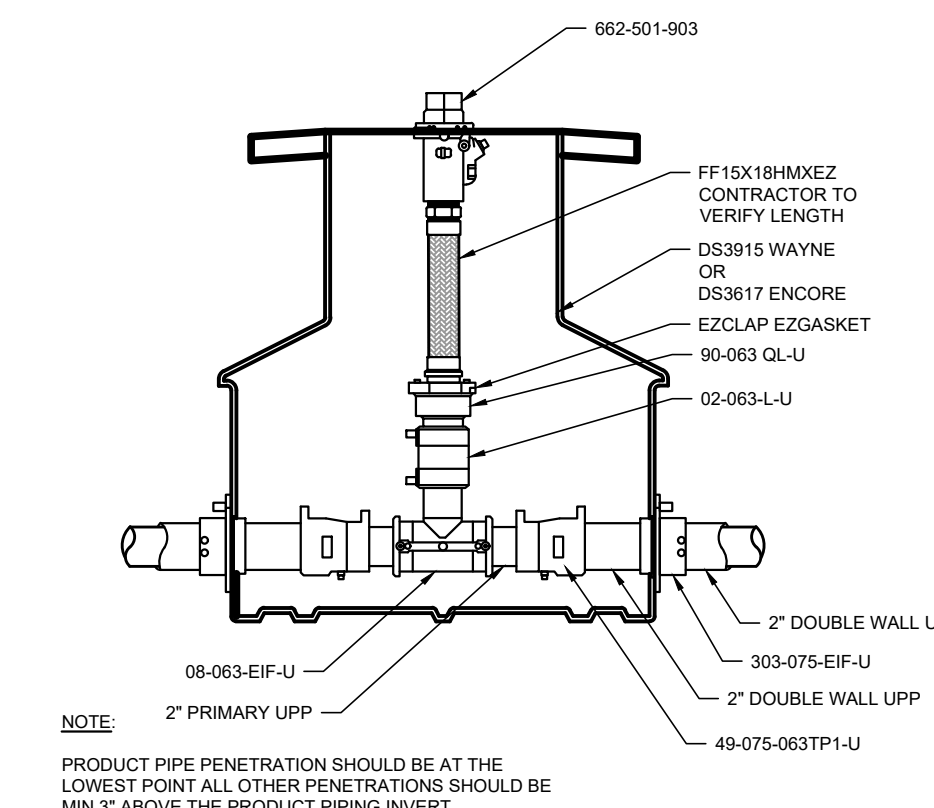
20 TYPICAL DISPENSER W/ FRANKLIN POLY SUMP
(OR APPROVED EQUAL. VERIFY WITH OWNER)

NOTES:
GAS PUMP DISCONNECT NEUTRAL
CIRCUIT DISCONNECTS: EACH CIRCUIT LEADING TO OR THROUGH A DISPENSING PUMP SHALL PROVIDE FOR THE SIMULTANEOUSLY DISCONNECTING FROM THE SOURCE OF SUPPLY ALL CONDUCTORS INCLUDING THE GROUNDED CONDUCTOR, IF ANY. NEC 514.11

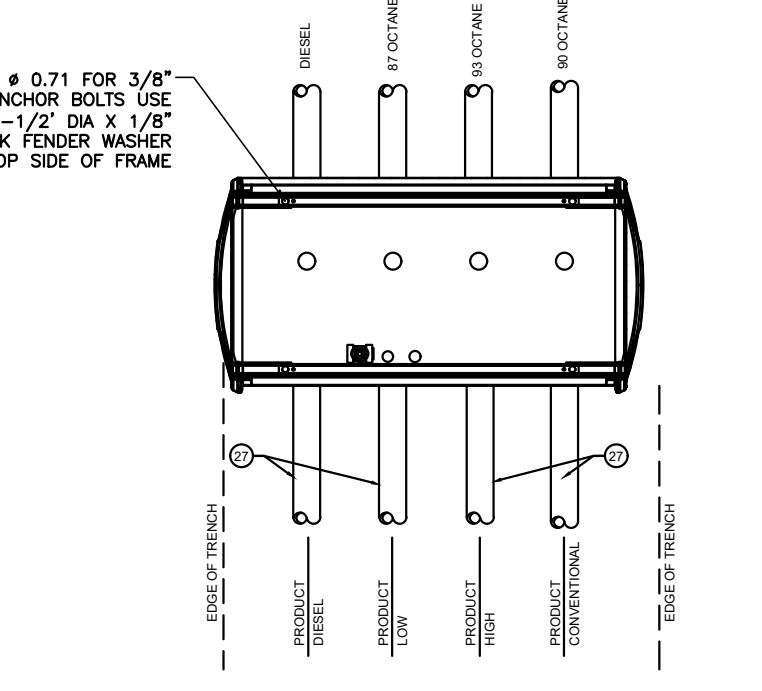


19 TYPICAL PIPING PRODUCT LINE TRENCH DETAIL
NOTE: PIPE TRENCHES MUST ALLOW ADEQUATE CLEARANCE AND COVER TO PROTECT PIPING AND COATINGS FROM PHYSICAL DAMAGE.

17 DISPENSER SUMP-PRODUCT PIPING SECTION LINE 'TEE' FITTING
NOT TO SCALE
RE:



- NOTES: UNLESS OTHERWISE SPECIFIED
- ALL PIPING AND ELECTRICAL INSTALLATIONS MUST CONFORM TO ALL APPLICABLE REGULATIONS INCLUDING NFPA30, FLAMMABLE & COMBUSTIBLE LIQUIDS CODE; NFPA30A, AUTOMOTIVE & MARINE SERVICE STATION CODE; NFPA70, NATIONAL ELECTRICAL CODE. DO NOT "Daisy Chain" THE DISPENSER POWER CIRCUIT TO ANY OTHER EQUIPMENT.
 - PIPING FROM TANK TO DISPENSER SHOULD SLOPE UPWARDS TO AVOID AIR OR LIQUID TRAPS.
 - USE UNIVERSAL JOINTS AT DISPENSER TO ALLOW FOR GROUND MOVEMENT.
 - FIRMLY MOUNT THE DISPENSER TO THE ISLAND USING THE ANCHOR BOLT AT LOCATIONS SHOWN.
 - EMERGENCY SHUTOFF VALVES AND BREAKAWAY DEVICES ARE EXAMPLES OF REQUIREMENTS STATED IN THE NFPA30A AUTOMOTIVE & MARINE SERVICE STATION CODE. THESE, AS WELL AS ANY OTHER SAFETY DEVICES REQUIRED BY NFPA30 & 30A, MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS.
 - CONNECT OPTIONAL INTERCOM CIRCUIT TO A LISTED CLASS 2 POWERED INTERCOM ONLY WITH 18 GAUGE MINIMUM, AT LEAST 90 DEGREE C, 800 V GAS & OIL RESISTANT UL LISTED WIRES. WIRES BACK TO INTERCOM POWER MUST BE RUN IN SEPARATE DEDICATED LISTED METALLIC CONDUIT.
 - THE COUPLING SHOULD BE TIGHTENED WITH A TORQUE OF 120 Nm AND THE SPANNER SIZE FOR THIS IS 90 mm.

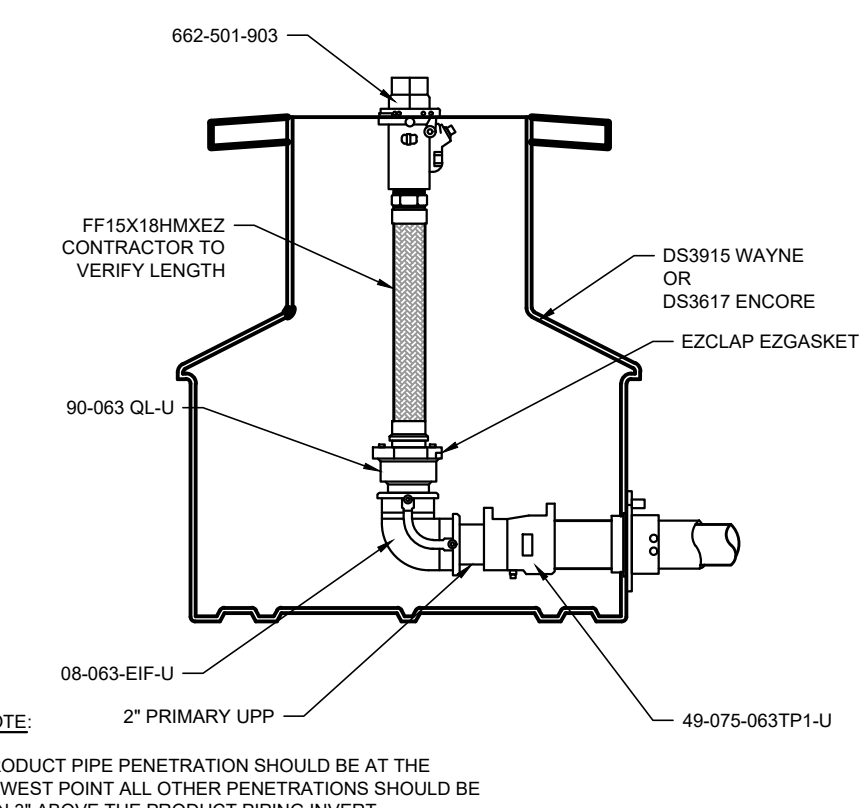


SAFETY NOTE
WHEN DISPENSERS ARE INSTALLED AS SHOWN ON THIS DRAWING, THE REQUIREMENTS OF NFPA 30A 4-3.6 AND 4-3.7 REGARDING SHEAR SECTIONS ARE FULLY MET.

FOLLOW THE MANUFACTURERS GUIDELINES FOR INSTALLING GOODYEAR FLEX STEEL VAPOR ASSIST HOSES. VAPOR ASSIST HOSE ASSEMBLIES TO BE 45 OR 50 FT. LBS. TORQUE TO ALLOW FOR PROPER SWIVELING.

NO.	EQUIPMENT DESCRIPTION
1	3 + 2 PRODUCT MPD
2	THREE PRODUCT MPD
3	VAPOR VAC (IF REQUIRED)
4	UPP BULKHEAD FITTINGS ARE ELECTRO-FUSED (PRODUCT PIPING)
5	"BLANK"
6	"BLANK"
7	1 1/2"x18" FxM SWIVEL FLEX CONNECTOR (PRODUCT)
8	WAYNE HELIX SUMP BOX
9	"BLANK"
10	1" FLEXIBLE ENTRY BOOTS (POWER HOME RUN, DISPENSER DATA LOOPED)
11	1" FLEXIBLE ENTRY BOOTS (INTERCOM - LOOPED)
12	1-1/2" MALE, EMERGENCY VALVE W/ DOUBLE POPPET (COMBO BODY)
13	"BLANK"
14	3" THREADED 3" WC PRESSURE VACUUM VENT CAP
15	NOZZLE - BLACK
16	3/4" HOSES - 8"-6" FLEXSTEEL VAPOR ASSIST HOSE
17	WHIP HOSE - 1" FLEXSTEEL VAPOR ASSIST HOSE, WHIP HOSE - 1" (NON-STAGE II ALT.) (OR EQUIVALENT)
18	INVERTED BREAKAWAY, BREAKAWAY (NON-STAGE II ALT.) (OR EQUIVALENT)
19	WATER INDICATING PASTE (TO BE LEFT STORE)
20	3"x2" TERMINATING REDUCER @ DISPENSERS - NO TEST POST
21	SPLATTER SHIELD, BLACK
22	3 M INTERCOM / WIRED TO MPD SPEAKERS
23	JUNCTION BOX
24	SEAL OFF
25	BOLLARD
26	"BLANK"
27	2" DOUBLEWALL UPP ELECTRO PRODUCT PIPE
28	3"x3"x2" UPP ELECTRO TEE
29	SECONDARY CONTAINMENT FITTING
30	3" FRP 90° FITTING
31	COAXIAL FIBERGLASS PIPE

21 DISPENSER SUMP-PRODUCT PIPING SECTION LINE 'ELBOW' FITTING
NOT TO SCALE
RE:



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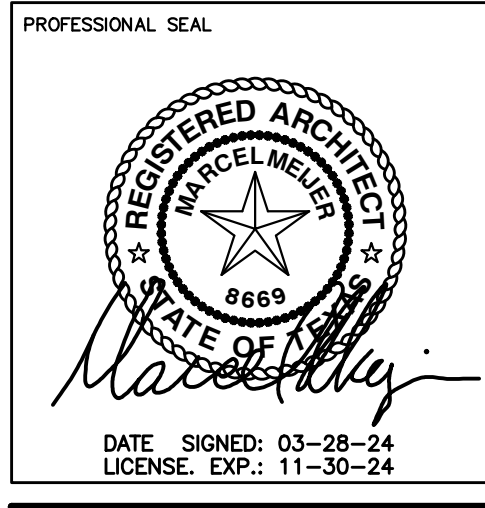
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP3.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047



CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
LICENSE EXP.: 11-30-24

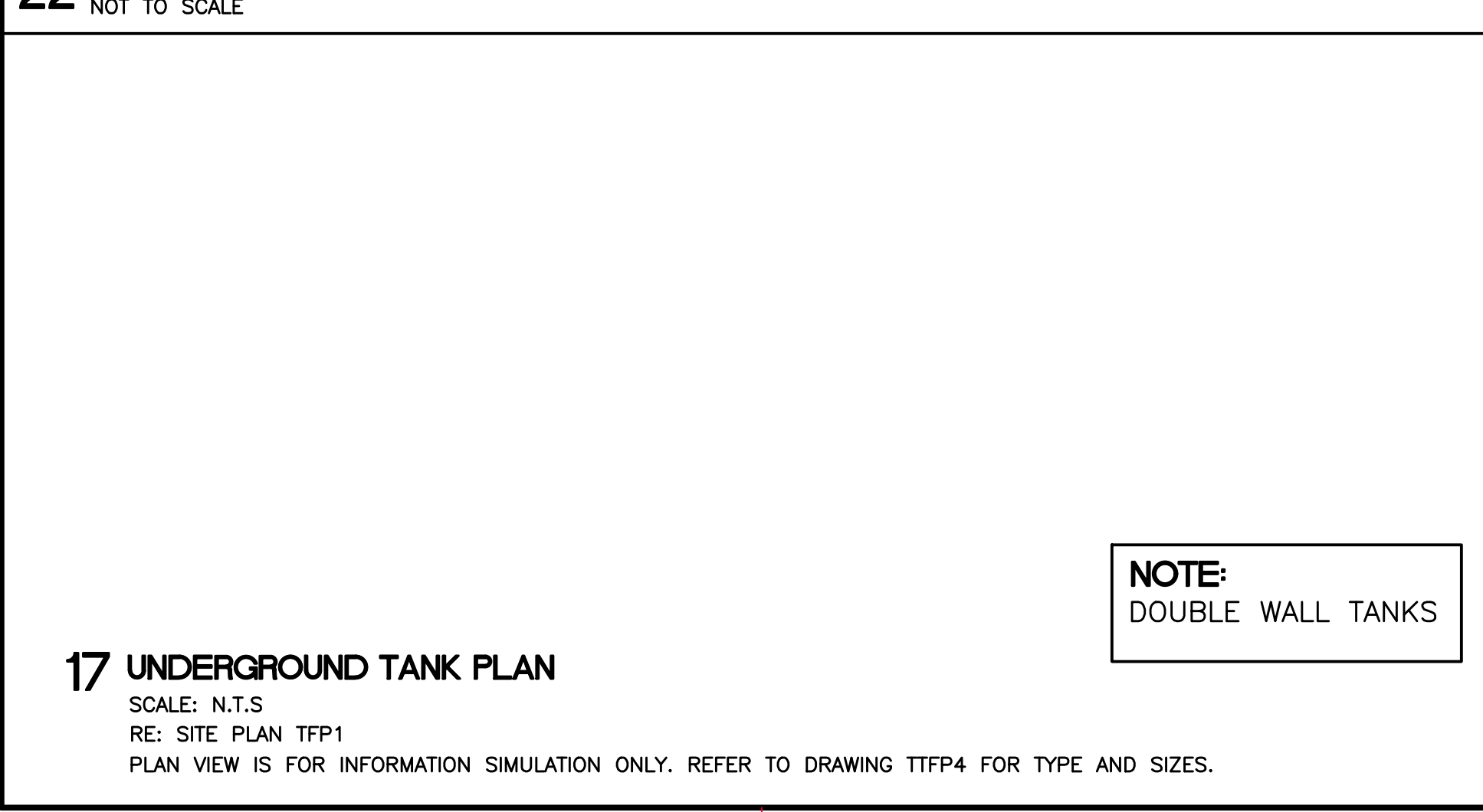
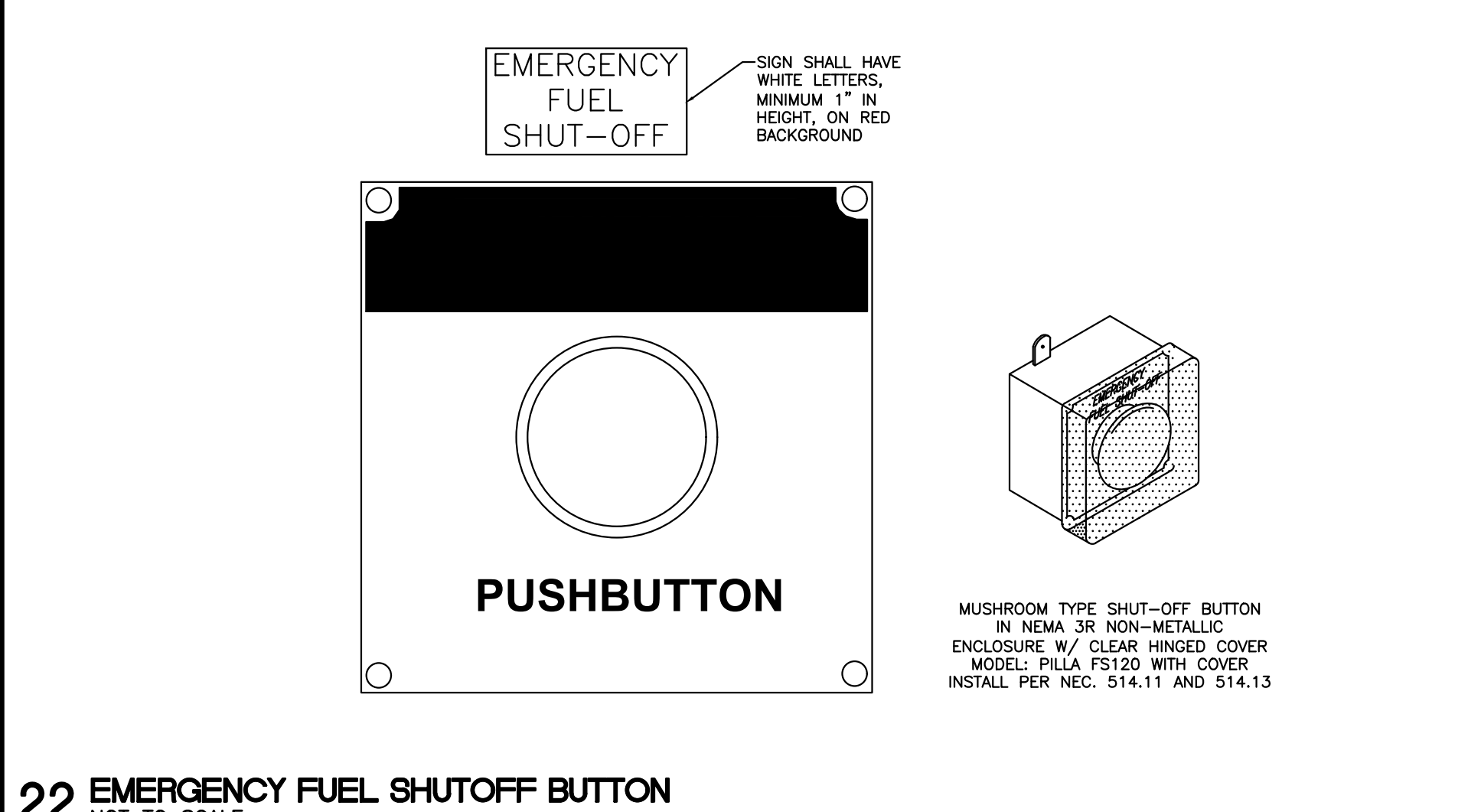
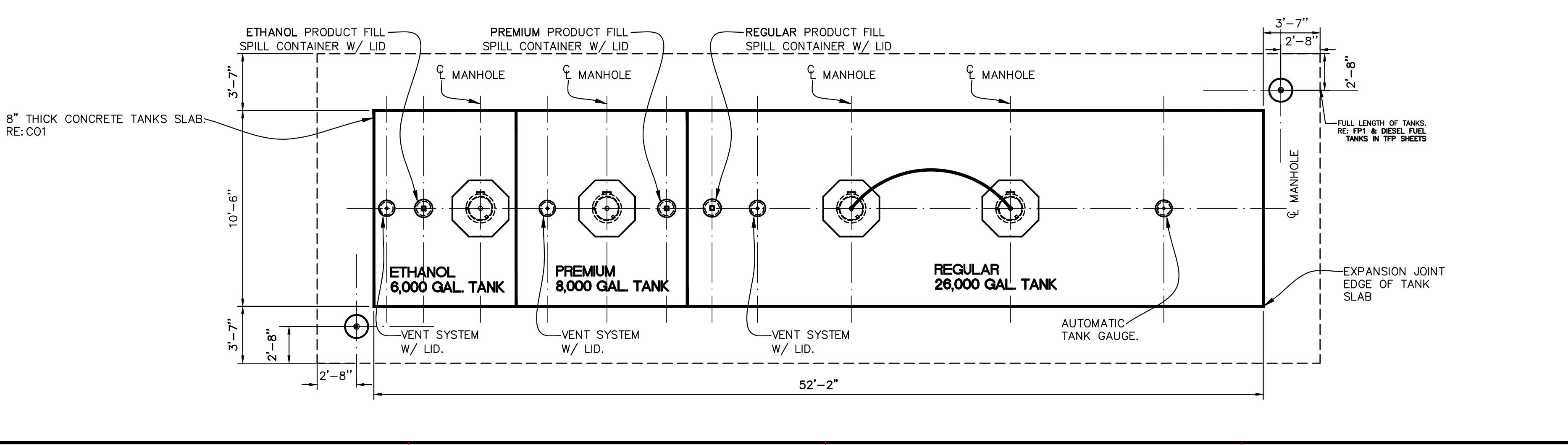
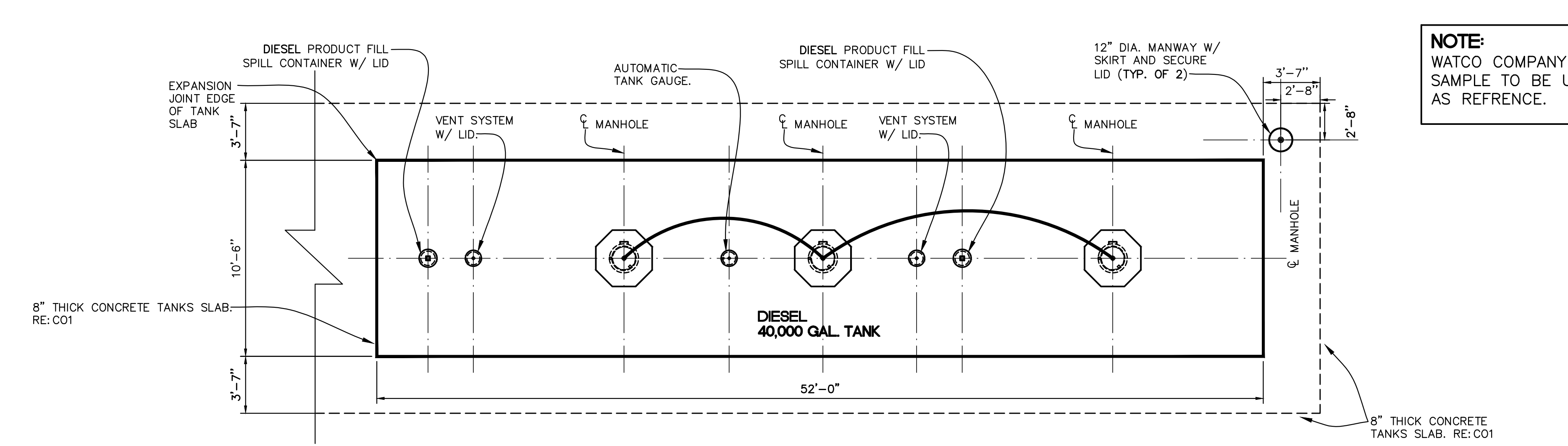
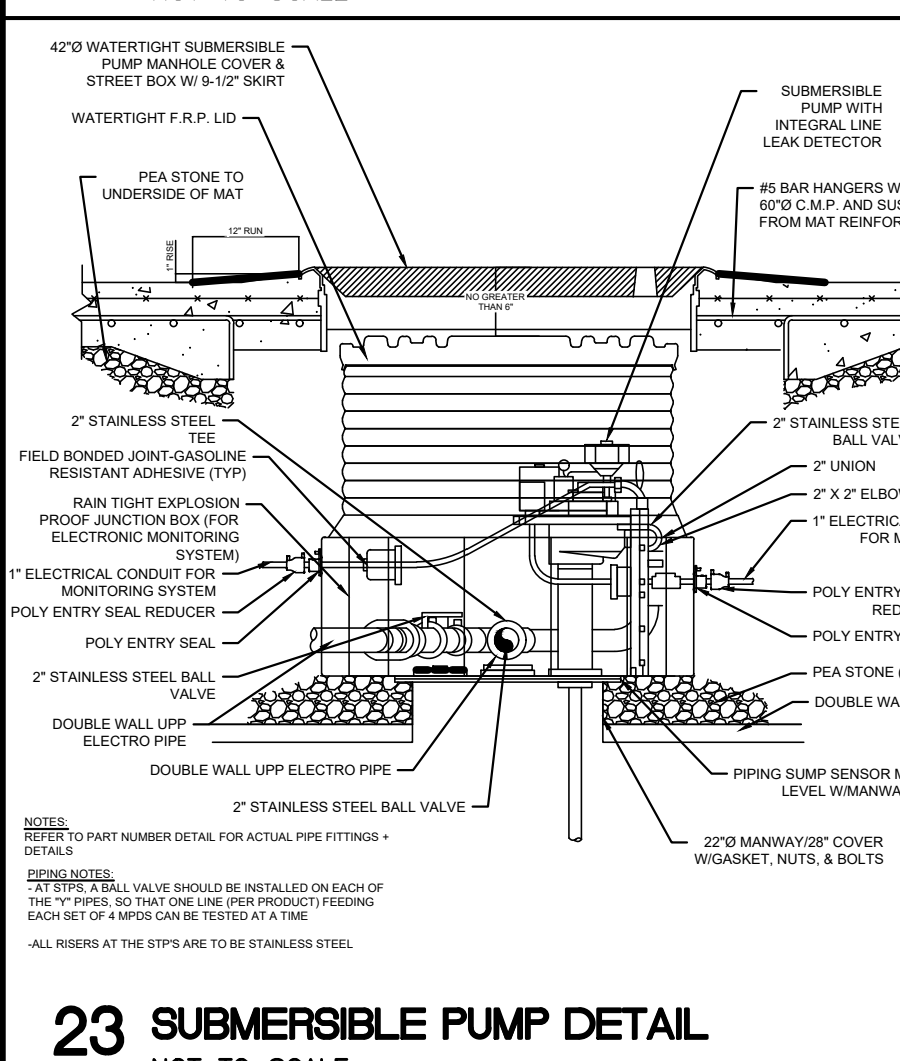
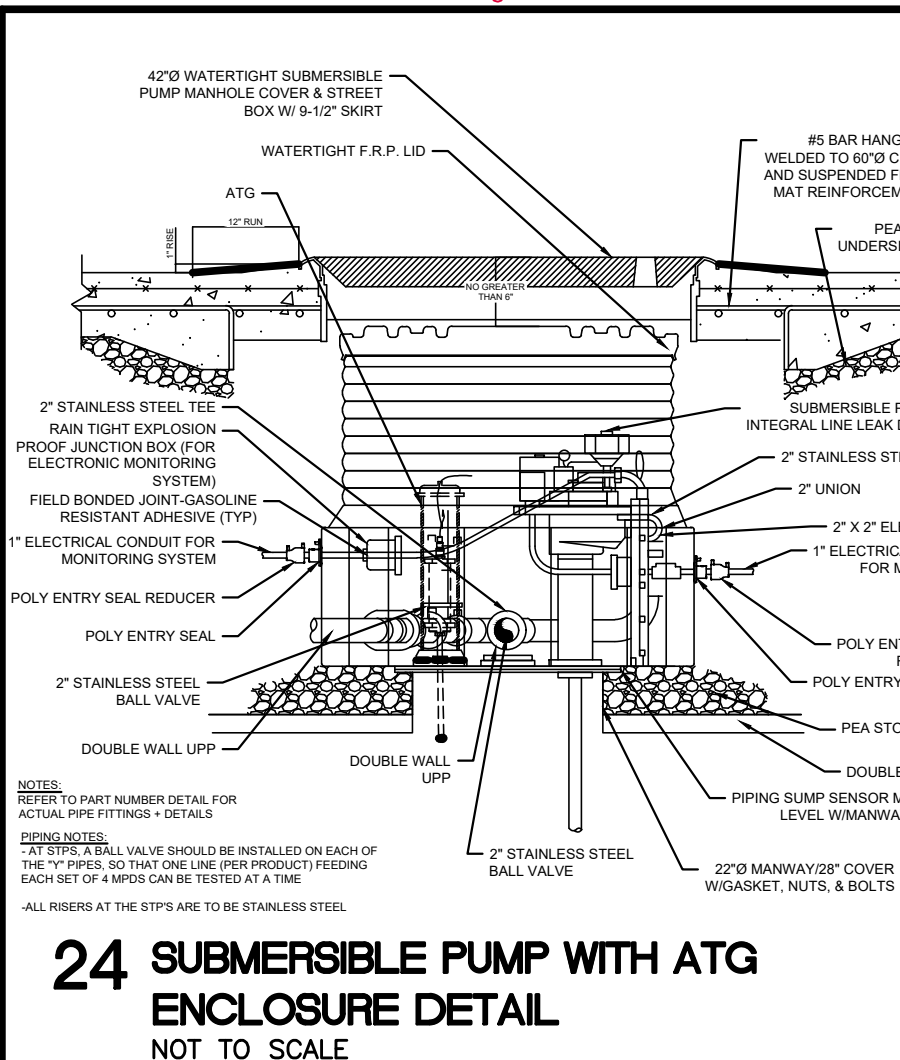
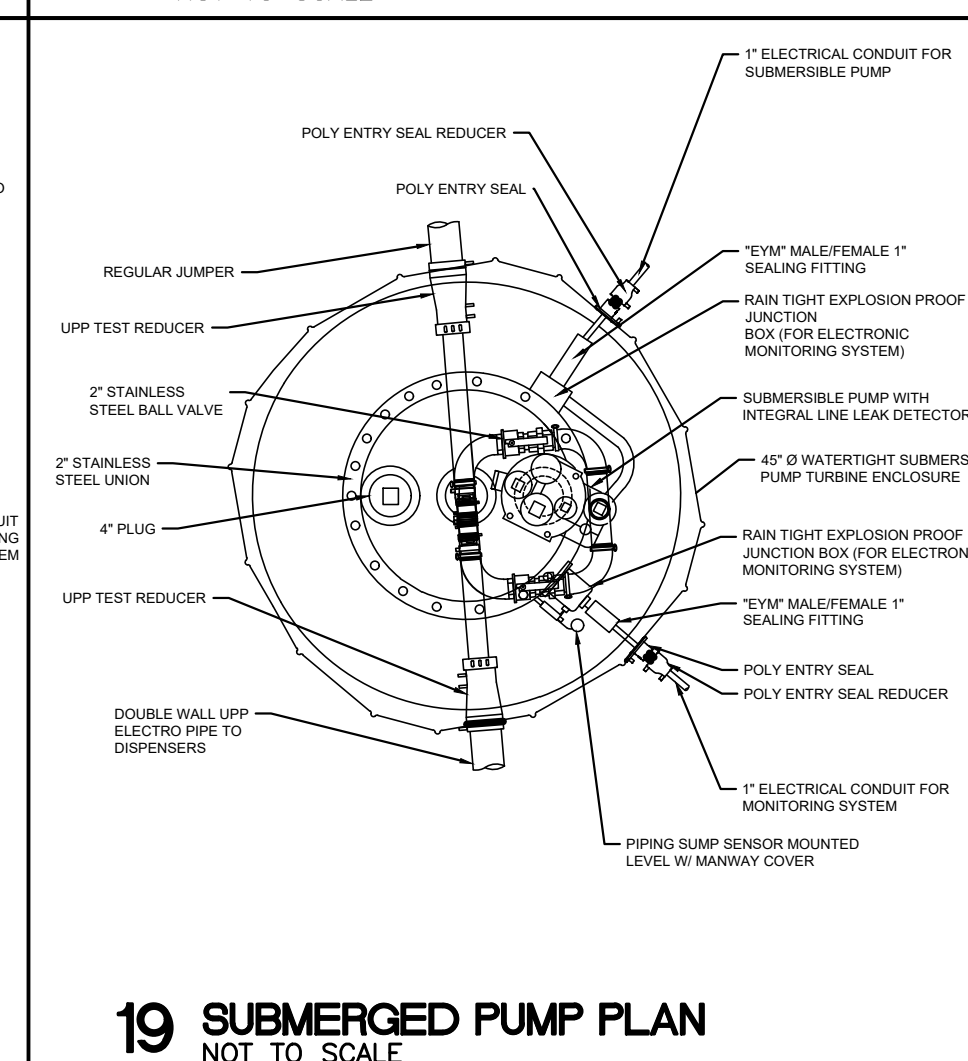
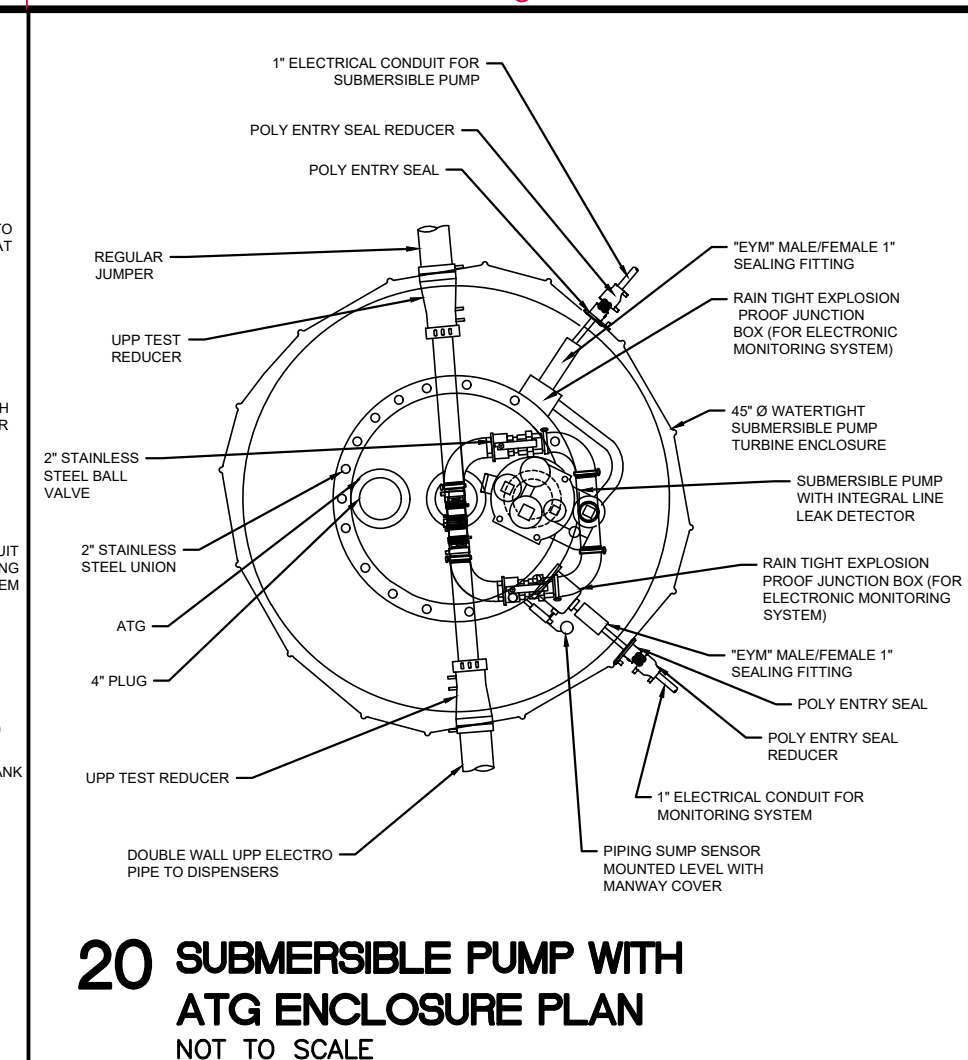
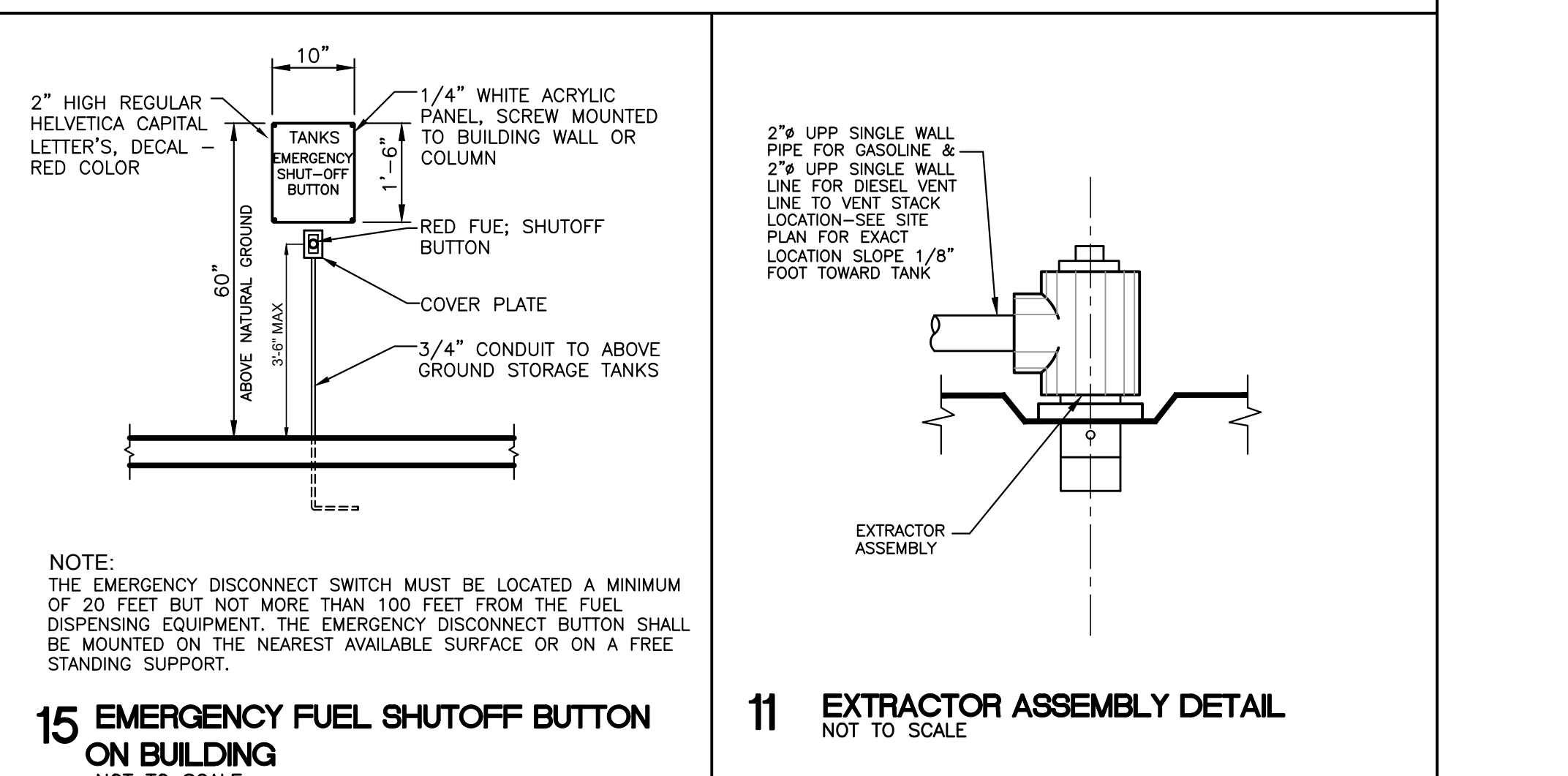
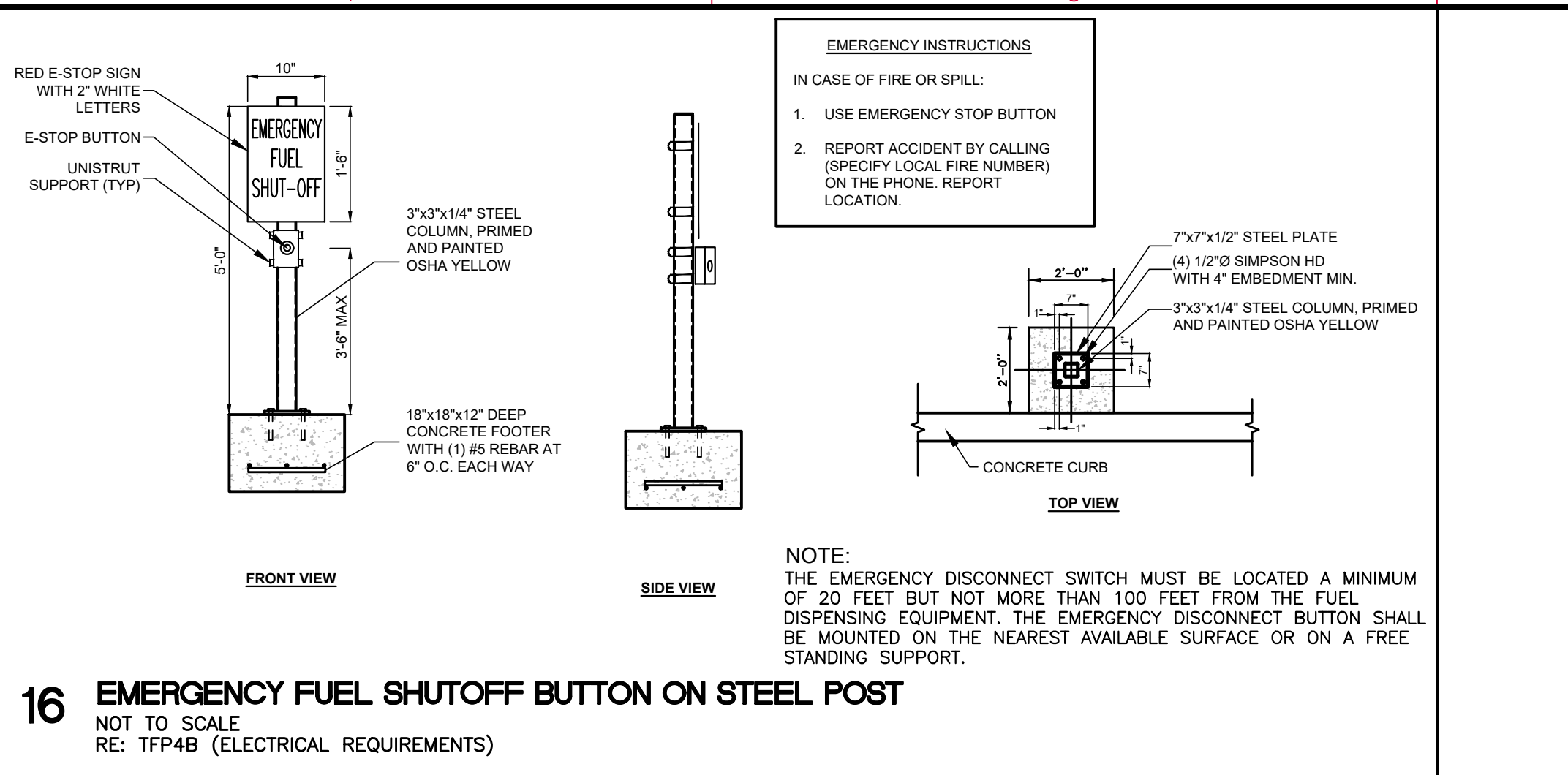
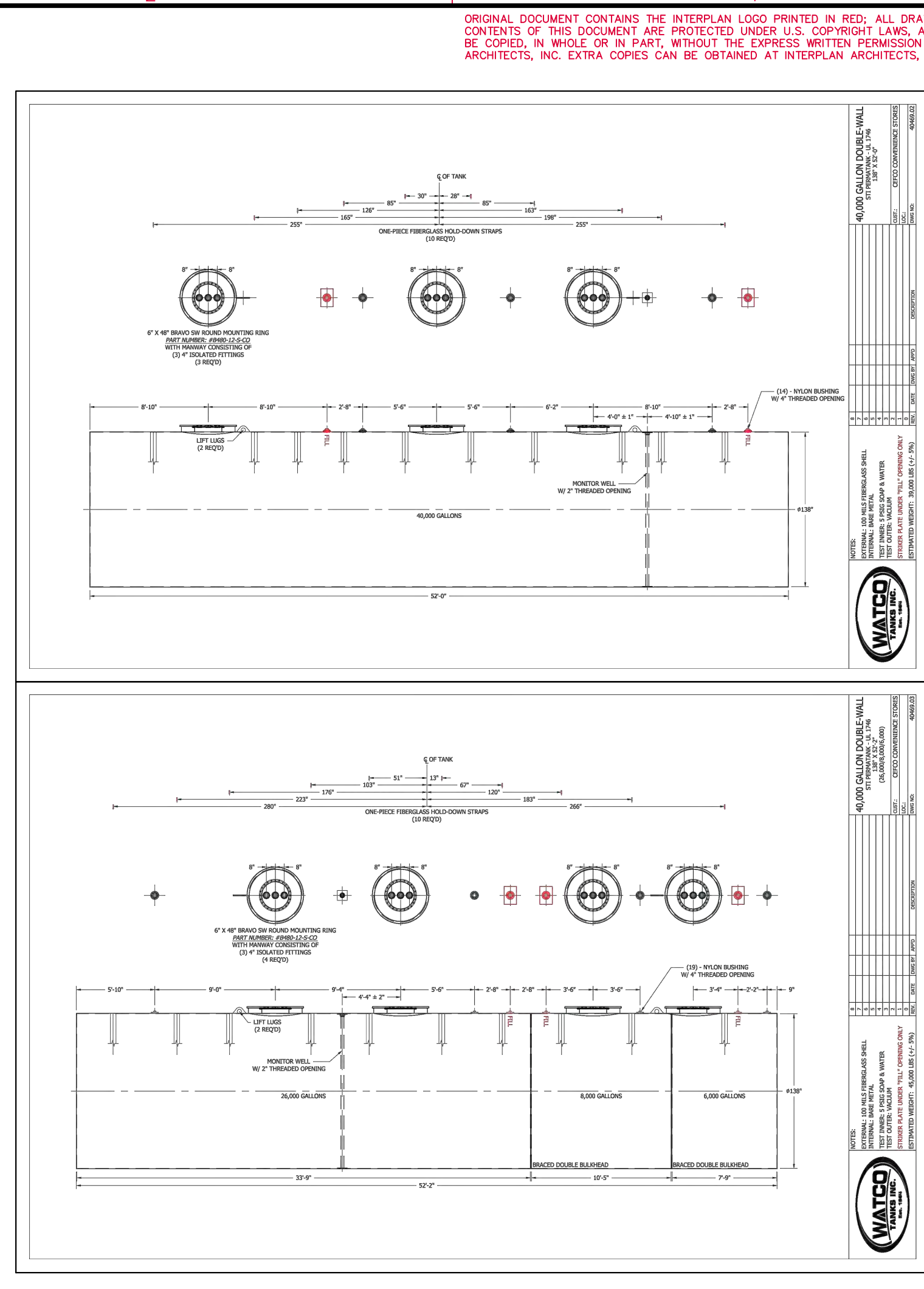
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11-10-20	PROGRESS PRINT
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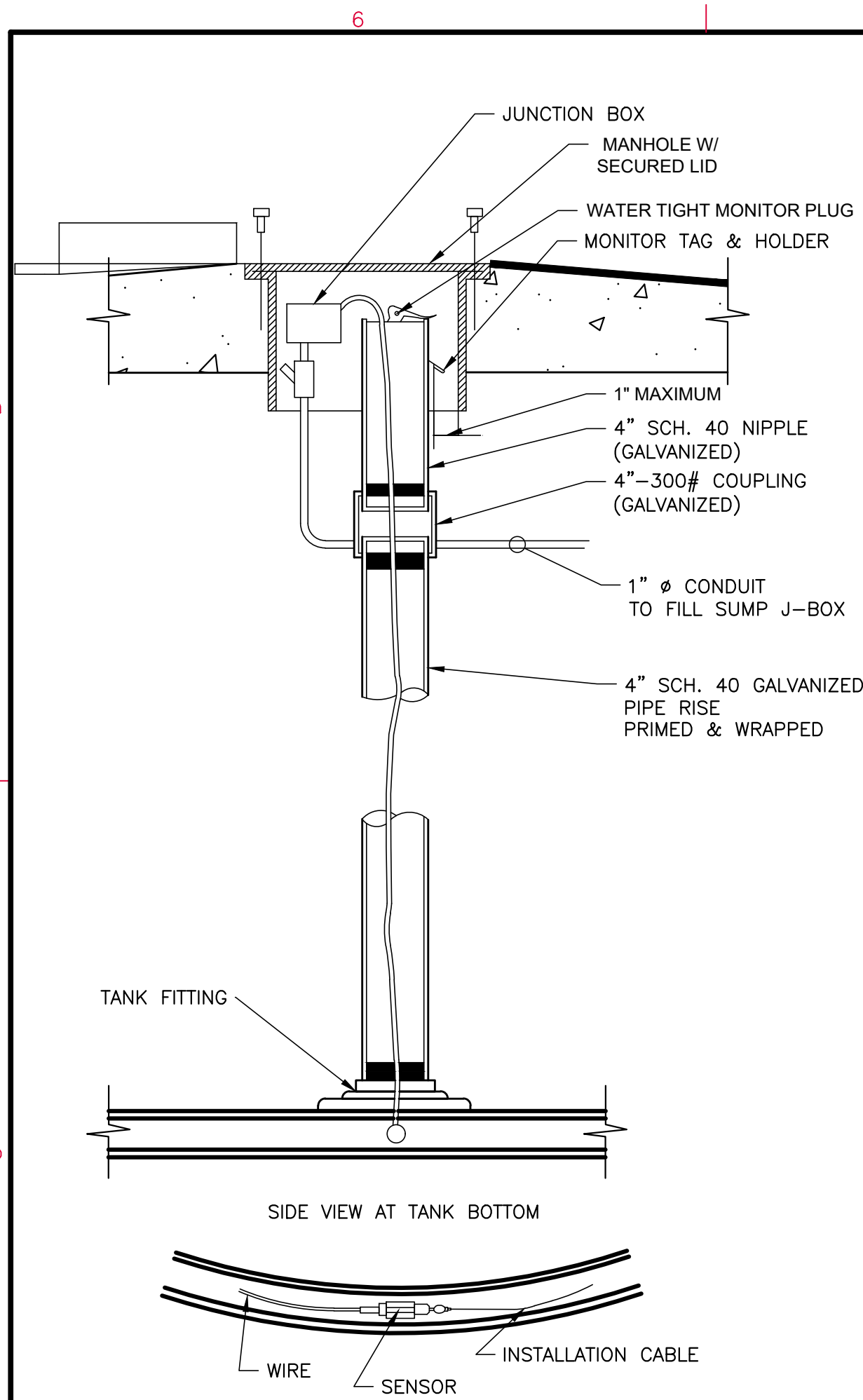
SCOPE OF THE DOCUMENT
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REVISIONS		
NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____
SHEET TITLE
FUEL PRODUCT UNDERGROUND TANK PLAN

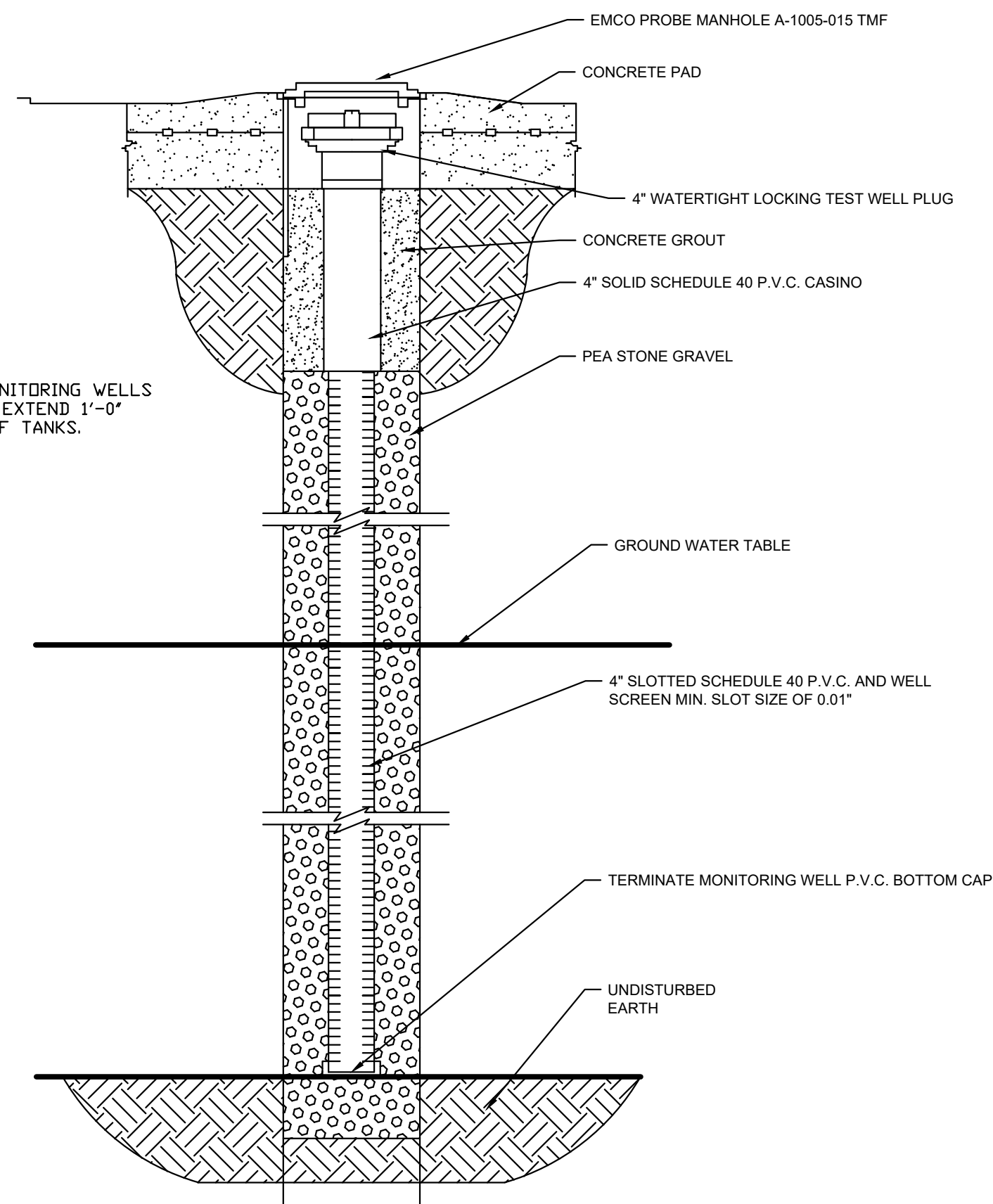
DRAWING NUMBER
TFP3





INSTALL INSTRUCTIONS:
A PULL STRING MAY BE IN THE TANK. INSTALL A NEW PULL STRING IF THE STRING IS MISSING, LOST OR BROKEN. THE PULL STRING IS NOT A TANK MANUFACTURER WARRANTY ITEM. INSTALL THE INTERSTITIAL MONITOR AT THE BOTTOM CENTERLINE OF THE FRP TANK. INSERT FISH TAPE THROUGH THE ANNULAR SPACE. TAG BOTH THE PULL STRING TO THE PROBE SIGNAL CABLE AT 12.5 FT. PLUS THE BURIAL DEPTH. ATTACH THE PULL STRING TO THE PROBE AND TO THE FISH TAPE AND PULL PROBE INTO TANK. WHEN THE TAGS ON THE SIGNAL CABLE AND PULL STRING MATCH, THE PROBE IS AT THE BOTTOM CENTERLINE OF THE TANK. THE PULL STRING IS TO REMAIN IN PLACE FOR FUTURE ACCESSIBILITY.

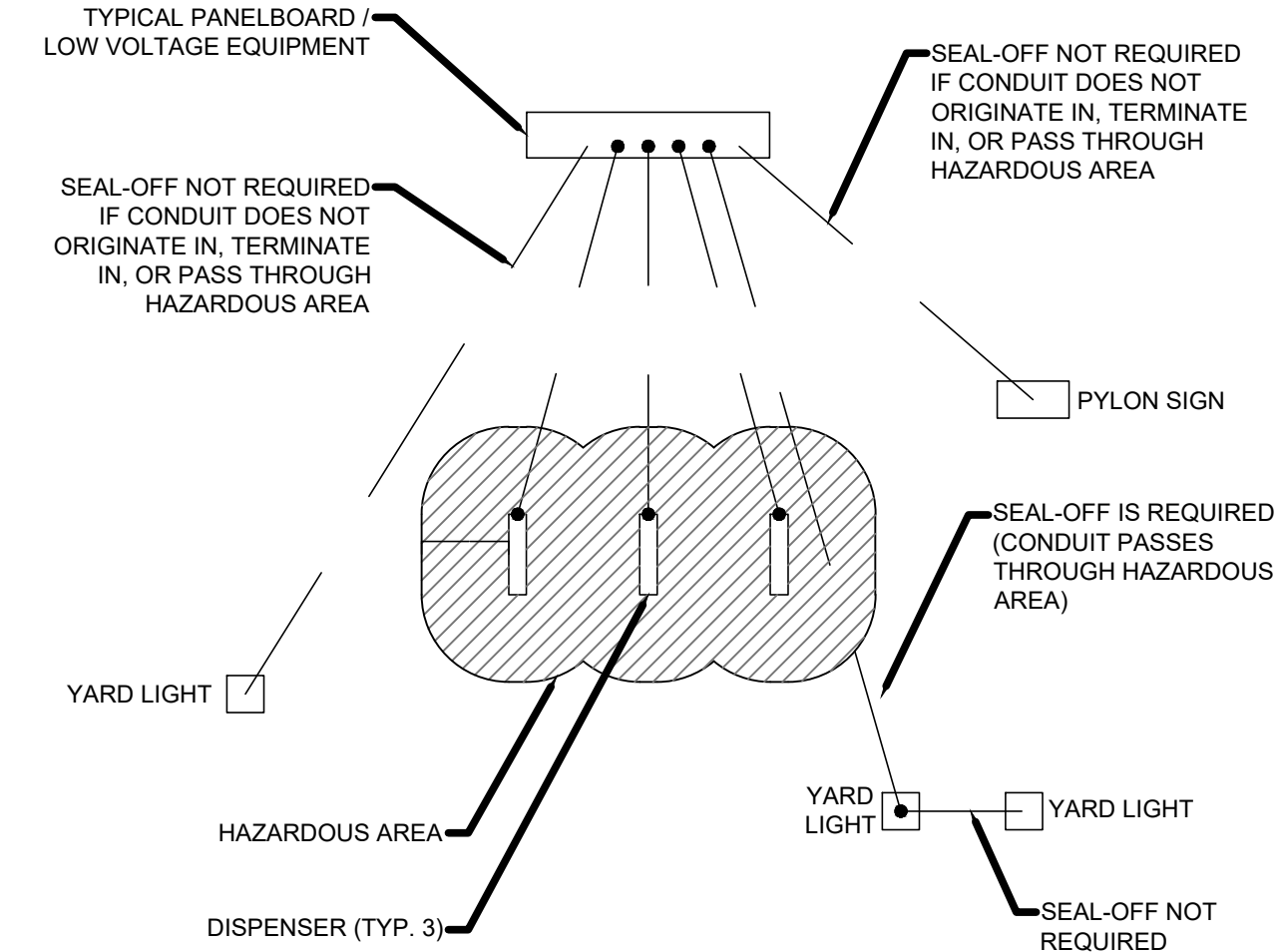
23 INTERSTITIAL SPACE MONITORING
NOT TO SCALE
RE:



NOTE:
WELL SCREENS OF MONITORING WELLS AT TANK FIELD MUST EXTEND 1'-0" MIN. BELOW BOTTOM OF TANKS.

- NOTE:**
1. ALL TANKER LINES AND LEAK DETECTORS TO BE PRECISION TESTED AT COMPLETION OF PROJECT. RESULTS TO BE SUBMITTED TO THE CEFCO CONSTRUCTION MANAGER.
 2. PERFORM WATER TEST ON ALL SUMPS TO ENSURE SUMPS ARE LIQUID TIGHT. RESULTS OF TEST SHALL BE SUBMITTED TO THE CEFCO PROJECT MANAGER PRIOR TO COMPLETION OF THE PROJECT.
 3. ALL MANHOLES WILL BE SET AT GRADE, WHERE SURFACE WATER FLOWS AROUND AND NOT OVER THEM, UNLESS APPROVED BY CEFCO CONSTRUCTION MANAGER.

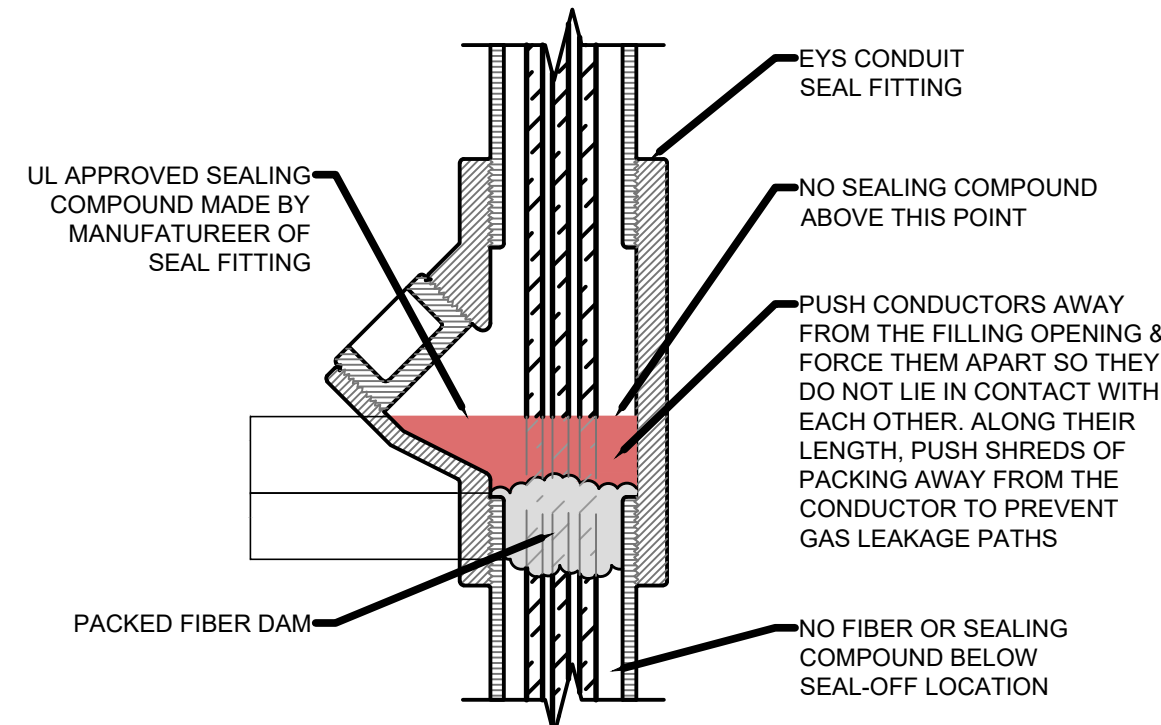
15 MONITORING WELL DETAIL
NOT TO SCALE
RE:



NOTES:
ELECTRICAL WIRING SHALL BE DONE IN ACCORDANCE WITH APPROVED LOCAL ELECTRICAL CODES AND BY A LICENSED ELECTRICIAN. THE PUMP SHALL BE PROPERLY GROUNDED. THE RGS CONDUIT SHALL BE USED WHEN INSTALLING ELECTRICAL WIRING.

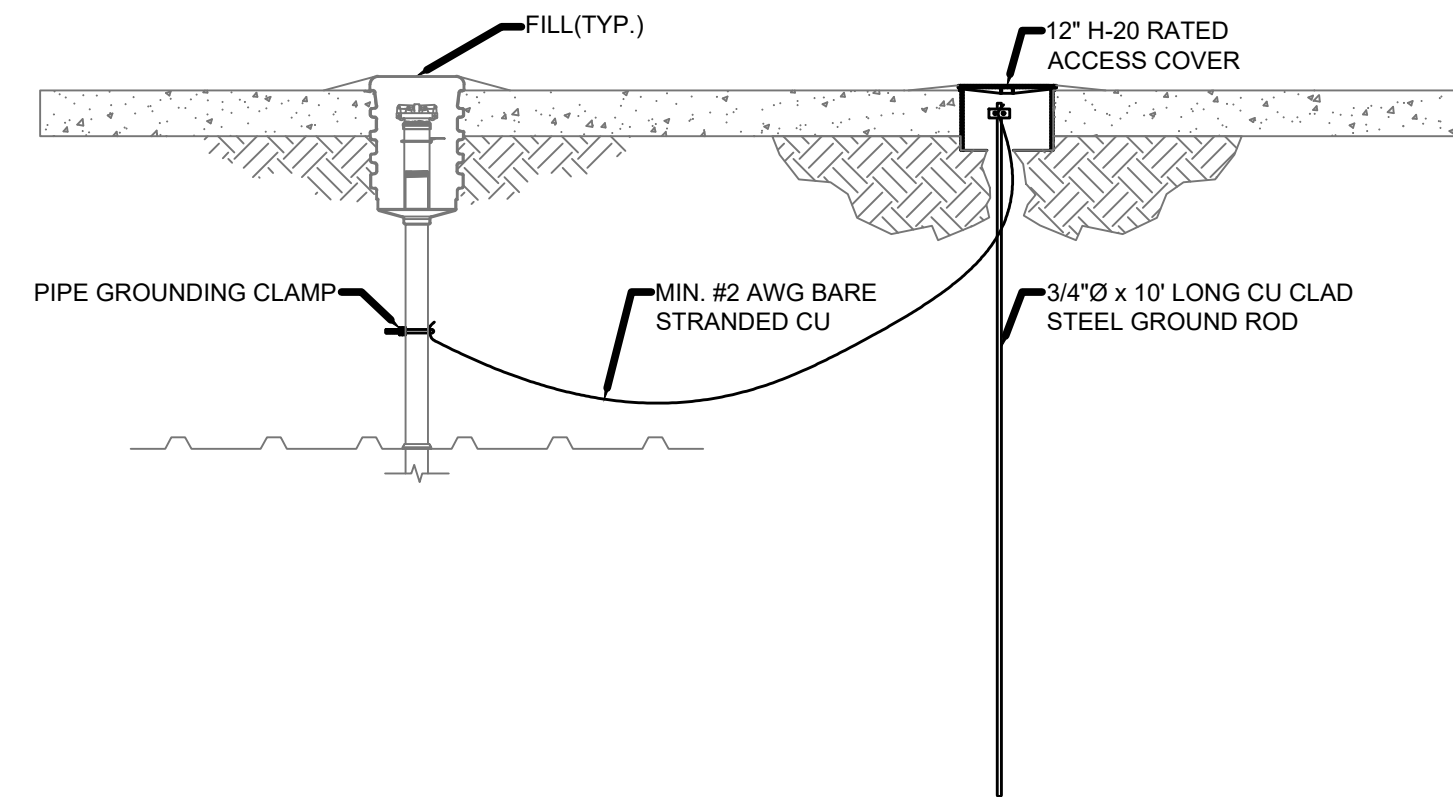
LEGEND:
● = SEAL-OFF

7 TYPICAL SEAL-OFF REQUIREMENTS DETAIL
NOT TO SCALE
RE:



- NOTES:**
1. PROVIDE EXPLOSION PROOF SEALS-OFFS IN ACCORDANCE WITH ARTICLES 500, 501 AND 514 (CLASS 1, DIVISION 1 & 2) OF THE 2011 NEC. TYPICAL FOR ALL CONDUITS IN CLASS 1 LOCATIONS, INCLUDING LOW VOLTAGE CONDUITS.
 2. CONDUIT FILL SHALL NOT EXCEED 25% OF SEAL-OFF AS PER NEC. 501.15(C)(6)
 3. THE THICKNESS OF THE SEALING COMPOUND SHALL BE MINIMUM THE TRADE SIZE OF THE SEALING FITTING AND NO LESS THAN 5/8".

13 SEAL-OFF DETAIL
NOT TO SCALE
RE:



- NOTES:**
1. ALL FILL AND VAPOR RISER ADAPTERS SHALL BE ELECTRICALLY GROUNDED TO PROMOTE THE RELAXATION OF STATIC CHARGE. SEE MANUFACTURER'S GROUNDING INSTALLATION FOR ADDITIONAL REQUIREMENTS.
 2. THE BONDING AND GROUNDING FOR STATIC ELECTRICITY PROTECTION SHALL BE IN COMPLIANCE PER ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES INCLUDING NFPA 30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, NFPA 77, RECOMMENDED PRACTICE ON STATIC ELECTRICITY, NFPA 70, 2011 EDITION OF THE NATIONAL ELECTRIC CODE, AND THE CALIFORNIA CODE OF REGULATIONS, SUBCHAPTER 15, PETROLEUM SAFETY ORDERS-REFINING, TRANSPORTATION AND HANDLING, ARTICLE 5, FIRE AND EXPLOSIONS.
 3. PER SECTION 6.4.1.3 OF NFPA 77, THE MEASURED TOTAL RESISTANCE IN THE GROUND PATH TO EARTH SHALL BE LESS THAN 1 MEGAOHM WHICH IS CONSIDERED ADEQUATE FOR RELAXATION OF STATIC CHARGE. THE MAXIMUM ALLOWABLE GROUND PATH TO EARTH RESISTANCE FOR STATIC ELECTRICITY GROUNDING APPLICATIONS SHALL NOT EXCEED 100,000 OHMS.
 4. PER SECTION 6.4.1.3 OF NFPA 77, THE RESISTANCE IN METALLIC BONDING AND OR GROUNDING SYSTEMS SHALL BE LESS THAN 10 OHMS. RESISTANCE HIGHER THAN 10 OHMS INDICATES INADEQUATE CONNECTIONS.
 5. A GROUNDING SYSTEM PER NEC CODE FOR CURRENT CARRYING CONDUCTORS SHALL BE CONSIDERED MORE THAN ADEQUATE FOR A STATIC ELECTRICITY GROUNDING SYSTEM.
 6. PER THE NFPA 30, SECTION 5-6.3.4 ALL PARTS OF THE FILL PIPE ASSEMBLY, INCLUDING THE DROP TUBE, SHALL FORM A CONTINUOUS ELECTRICALLY CONDUCTIVE PATH.
 7. THE MINIMUM WIRE SIZE FOR BONDING AND GROUNDING SHALL BE COPPER AWG #2.
 8. A 3/4" Ø BY 10' LONG COPPER CLAD STEEL GROUND ROD SHALL BE DRIVEN INTO NATIVE SOIL ONLY. PLACING THE GROUND ROD INTO TANK PIT AREA GRAVEL SHALL NOT BE PERMITTED UNDER ANY CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING ANY UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF THE GROUND.
 9. THE GROUND ROD TO GROUND WIRE CONNECTION SHALL BE ACCESSIBLE THROUGH A H-20 RATED 12" DIAMETER MINIMUM ACCESS COVER TO ASSIST INSPECTION, MAINTENANCE AND TESTING. THE SCREW TYPE GROUND ROD CLAMP SHALL BE UL LISTED FOR DIRECT BURIAL.
 10. ONE MAIN STRANDED #2 THHN CONDUCTOR SHALL BE RUN PAST EACH FILL SUMP. ONE STRANDED #2 THHN CONDUCTOR SHALL BE ROUTED TO EACH FILL SUMP.

9 TANK GROUNDING DETAILS
NOT TO SCALE
RE:

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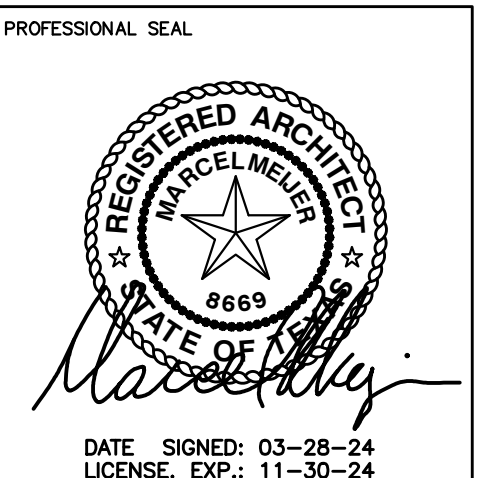


PROJECT NUMBER
CEF22-TFP4.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
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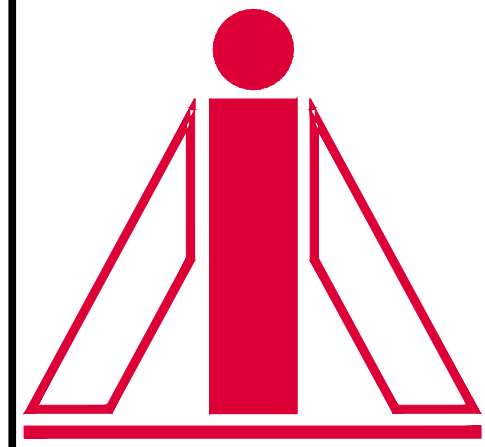
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NO.	DATE	DESCRIPTION

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SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

DRAWING NUMBER
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SHEET NO.

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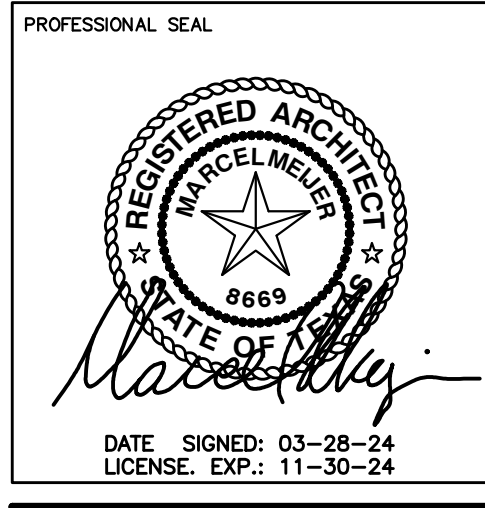
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP4A.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
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SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

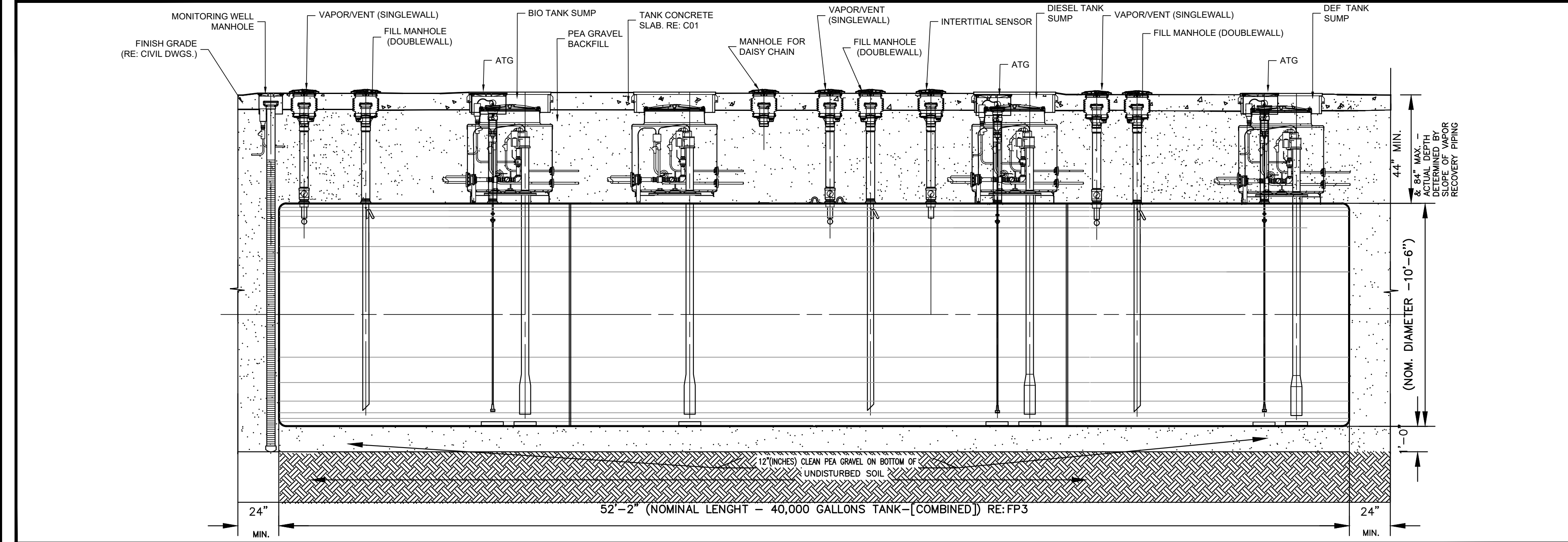
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TFP4A

TANK INSTALLATION

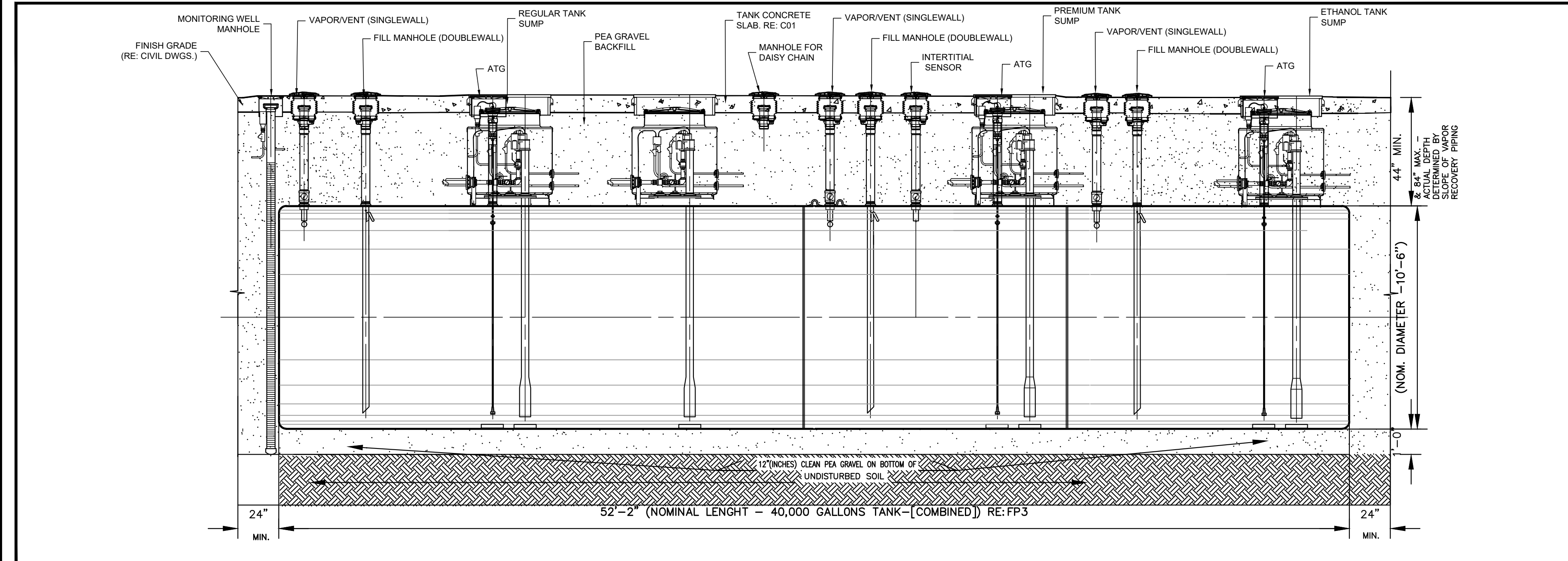
- CONTRACTOR SHALL COORDINATE DELIVERY DATE OF TANKS WITH THE MANUFACTURER, CEFCO CONSTRUCTION MANAGER, AND THE PROJECT SCHEDULE.
 - TANK MANUFACTURER'S INSTALLATION PROCEDURE SHALL BE FOLLOWED, AND THE INSTALLATION CHECKLIST SHALL BE INITIALED/SIGNED BY CONTRACTOR AND CEFCO CONSTRUCTION MANAGER, AS APPROPRIATE, AS EACH STEP IS COMPLETED.
 - AN UNDERGROUND EQUIPMENT INSTALLATION AFFIDAVIT SHALL BE FILLED OUT BY CONTRACTOR 7.0 AND SUBMITTED TO THE CEFCO CONSTRUCTION MANAGER IN BOUND PROJECT FOLDER
 - LIFTING EQUIPMENT SHALL BE ADEQUATE TO HANDLE TANK WITHOUT DRAGGING. USE ALL LIFTING LUGS AND GUIDELINES WHEN LIFTING TANKS. REST TANKS ON SMOOTH AND DEBRIS FREE GROUND. CHOCK TANKS TO PREVENT ROLLING AND TIE THEM DOWN IF HIGH WINDS ARE EXPECTED. USE MINIMUM 1/2" DIAMETER NYLON OR HEMP ROPE OVER TANK AND TIE TO WOODEN STAKES OF ADEQUATE SIZE TO PREVENT TANKS FROM BEING MOVED BY HIGH WINDS. DO NOT DRAG, ROLL, OR IMPACT TANKS.
 - TANK SHALL BE PLACED ACCORDING TO THE TANK MANUFACTURER'S INSTALLATION MANUAL AND THE CEFCO TANK DRAWINGS. PLEASE NOTE THAT IF THE SOIL IS UNSTABLE, THE STANDARDS MAY BE INCREASED. DISTANCE BETWEEN TANKS SHALL BE GOVERNED BY MANUFACTURER'S OR STATE AND LOCAL REQUIREMENTS WHICHEVER IS GREATER.
 - TANKS SHALL BE CONTINUOUSLY VENTED, BY CONTRACTOR, AT ALL TIMES THROUGHOUT CONSTRUCTION.
 - PRE-INSTALLATION TANK TESTING.
 - CEFCO CONSTRUCTION MANAGER SHALL WITNESS PRE-INSTALLATION TANK TESTING.
 - CONTRACTOR SHALL NOTIFY CEFCO CONSTRUCTION MANAGER TWO WORKING DAYS PRIOR TO TESTING AND TANK INSTALLATION.
 - TANKS ARE TO BE SET LEVEL AND BACKFILLED TO TOP OF TANK THE SAME DAY AS TESTING.
 - CONTRACTOR TO PROVIDE TANK TEST MANIFOLD PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- A.** CONTRACTOR TO FURNISH AIR PRESSURE GAUGE WITH A MAXIMUM FULL SCALE READING OF 15 PSIG WITH 1/4 OR 1/10 PSIG INCREMENTS. PRESSURE GAUGE TO BE IN GOOD REPAIR AND HAVE A CALIBRATION DATE WITHIN 30 DAYS OF USE. PRESSURE GAUGES DAMAGED OR OUT OF CALIBRATION WILL NOT BE PERMITTED.
- B.** THE PRESSURE RELIEF VALVE ON THE TEST MANIFOLD MUST BERATED AT 6 PSIG TO REDUCE THE RISK OF OVER PRESSURIZING THE TANK.
- 6.5** TESTING THE PRIMARY (INTERNAL) TANK
- A.** CONNECT THE TEST MANIFOLD TO AN AVAILABLE SERVICE FITTING. CHECK EACH REMAINING SERVICE FITTING TO ENSURE TANK SERVICE FITTINGS ARE PROPERLY SEATED, ADEQUATELY DOPED, PLUGGED, AND TIGHTENED.
- B.** PRESSURIZE THE PRIMARY TANK TO 5 PSIG. ADD OR REMOVE AIR AS NECESSARY AND ALLOW THE PRESSURE TO STABILIZE. CLOSE THE VALVE ON THE TEST MANIFOLD AIR SUPPLY LINE.
- C.** MONITOR THE PRESSURE FOR 1 HOUR. SOAP TEST (USING HIGH FOAMING TEST SOLUTION - SEAM TEST SOLUTION MANUFACTURED BY WITHIN PRODUCTS, CHARLOTTE, NC, AMWAY LOC SOAP, OR APPROVED EQUAL) ALL SERVICE FITTING, MANWAYS AND PLUGS. WATCH FOR ACTIVE AIR BUBBLES WHICH INDICATE A LEAK.
- D.** CONNECT THE TEST MANIFOLD TO AN AVAILABLE SERVICE FITTING. CHECK EACH REMAINING SERVICE FITTING TO ENSURE TANK SERVICE FITTINGS ARE PROPERLY SEATED, ADEQUATELY DOPED, PLUGGED, AND TIGHTENED.
- 6.6** THE SECONDARY (EXTERNAL) TANK
- A.** MAINTAIN PRESSURE ON THE PRIMARY TANK. PLUG ALL OPEN FITTINGS ON THE SECONDARY TANK.
- B.** FREE THE HOSE FROM THE SERVICE TINTING BY CUTTING THE NYLON SAFETY TIE.
- C.** INSERT THE HOSE INTO THE QUICK DISCONNECT CHECK VALVE. THIS WILL ALLOW AIR TO TRANSFER FROM THE PRIMARY TO THE SECONDARY TANK.
- D.** PRESSURIZE THE 5 PSIG. ADD OR REMOVE AIR VIA THE SUPPLY VALVE AS NEEDED AND ALLOW PRESSURE TO STABILIZE. CLOSE THE VALVE ON THE TEST MANIFOLD TO THE AIR SUPPLY LINE. DO NOT USE AN AIR COMPRESSOR TO PRESSURIZE THE SECONDARY TANK.
- E.** MONITOR THE PRESSURE FOR 1 HOUR. SOAP THE ENTIRE EXTERIOR OF THE TANK AND WATCH FOR ACTIVE AIR BUBBLES WHICH INDICATE A LEAK.
- F.** WHEN THE TEST IS COMPLETE, SLOWLY RELEASE AIR PRESSURE FROM THE TANK BY DISCONNECTING THE SUPPLY LINE AND OPENING THE SUPPLY VALVE ON THE TEST MANIFOLD. WHEN AIR FLOW FROM THE SUPPLY VALVE STOPS, REMOVE THE TEST MANIFOLD.

INSTALLATION

- INSTALLING CONTRACTOR SHALL BE CERTIFIED BY TANK MANUFACTURER ON PROPER TANK INSTALLATION PROCEDURES.
- BEDDING AND BACKFILL MATERIAL SHALL BE WELL WASHED AND FREE OF ICE AND SNOW AND MEET ASTM D-448, ASTM C-33 AND AASHTO M-43 FOR QUALITY AND SOUNDNESS. CONTRACTOR SHALL PROVIDE SIEVE ANALYSIS ACCEPTABLE TO CEFCO CONSTRUCTION MANAGER. THE TANK WARRANTY IS AUTOMATICALLY VOIDED IF MATERIAL OTHER THAN THE FOLLOWING APPROVED BED AND BACKFILL MATERIALS ARE EMPLOYED WITHOUT PRIOR WRITTEN APPROVAL FROM THE TANK MANUFACTURER.
 - PEA GRAVEL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER WITH NO MORE THAN 5% PASSING A NO. 8 SIEVE.
 - CRUSHED STONE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER WITH NO MORE THAN 5% PASSING A NO. 8 SIEVE.
- STANDARD INSTALLATION PROCEDURE - DRY HOLE:
 - PLACE MINIMUM 12" BEDDING MATERIAL SMOOTH AND LEVEL OVER EXCAVATION FLOOR. TANK TO BE SET LEVEL.
 - SET TANKS LEVEL ON BEDDING MATERIAL. USE ALL LIFTING LUGS PROVIDED AND GUIDE ROPES AT EACH TANK END. DO NOT SET TANKS DIRECTLY ON DEADMAN OR CONCRETE SLAB IF USED. MEASURE TANK DIAMETER.
 - PLACE 12" BACKFILL MATERIAL EVENLY AROUND TANKS. USE WOODEN DOWEL PROBE TO WORK BACKFILL COMPLETELY UNDER TANK BETWEEN RIBS AND UNDER ENDCAPS. USE EXTREME CARE IN BACKFILLING BENEATH TANK BOTTOM, BETWEEN RIBS AND UNDER END CAPS TO PROVIDE A SOLID SUPPORT FREE OF VOIDS. IT IS EXTREMELY IMPORTANT THAT CARE BE EXERCISED IN THE BACKFILLING OF THE TANKS UP TO TWO FEET IN DEPTH FROM THE TANK BOTTOM AS TANK FAILURES HAVE RESULTED WHERE VOIDS WERE EVIDENT UNDER THE TANKS. GOOD COMPACTION AND SUPPORT FOR THE TANK CAN BE OBTAINED BY SHAPING THE GRAVEL WITH A SHOVEL ALL AROUND THE PERIMETER OF EACH TANK.
 - REPEAT 7.3.3 FOR NEXT 12", PROBING TO FILL ALL VOIDS AT THE CRITICAL 5 TO 7 O'CLOCK SUPPORT AREAS OF THE TANK
 - FREELY ADD ADDITIONAL BACKFILL TO TANK TOPS. (ADDITIONAL PROBING NOT REQUIRED.) MEASURE TANK DIAMETER.
- INSTALLATION PROCEDURE - WET HOLE
 - THE FOLLOWING PROCEDURE SHALL APPLY WHERE HIGH WATER TABLE IS EVIDENT OR WHERE A FUTURE WATER CONDITION IS ANTICIPATED.
 - WATER LEVEL SHOULD BE MAINTAINED AT THE LOWEST PRACTICAL LEVEL DURING INSTALLATION. A SUMP AND PUMP OR A SYSTEM OF WELL POINTS AND PUMPS IS THE RECOMMENDED METHOD TO MINIMIZE WATER LEVEL IN THE HOLE. IT IS RECOMMENDED THAT AN EXPERIENCED DEWATERING CONTRACTOR BE EMPLOYED TO DEWATER THE EXCAVATION. THE TYPE OF SYSTEM REQUIRED WILL DEPEND ON THE WATER FLOW RATE INTO THE HOLE. THE HOLE BOTTOM SHOULD BE LEVEL AND FREE OF ROCKS AND DEBRIS.
 - PROVIDE A MINIMUM 12" THICK PEA GRAVEL BED AT BOTTOM OF HOLE. PEA GRAVEL MUST BE GRADED SMOOTH, COMPACTED AND LEVEL TO RECEIVE TANKS. CAREFULLY PLACE TANKS ON PEA GRAVEL BED. TANK IS TO BE SET LEVEL.
 - BALLASTING:
 - IF WATER IS REQUIRED TO SINK TANKS IN HIGH WATER TABLE CONDITION, THE MANUFACTURER'S TANK INSTALLATION INSTRUCTIONS MUST BE ADHERED TO EXACTLY.
 - WATER WITHIN THE TANK CANNOT BE AT A HIGHER LEVEL THAN THE OUTSIDE GROUND WATER. IF WATER IS REQUIRED TO MAKE TANK INSTALLATION, THE CONTRACTOR WILL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR AND PAY FOR ALL WATER USED.
 - BALLAST TANKS USING POTABLE WATER. REMOVE WATER ONLY AFTER TANK SLAB IS CURED. CONSULT CEFCO CONSTRUCTION MANAGER FOR PROPER DISPOSAL OF WATER REMOVED FROM TANK.
 - WHILE LEVELING TANKS, INSURE THAT A MINIMUM DISTANCE OF 2'-0" FOR 8' DIAMETER TANKS AND 3'-0" FOR 10' DIA. TANKS IS MAINTAINED BETWEEN TANKS. WHEN ANCHORING, PLACE STRAPS OVER TANKS AND FOLLOW PROCEDURE AS OUTLINED HEREINAFTER.
 - TANKS MUST BE ANCHORED WITH DEADMAN ON ALL WET HOLE INSTALLATIONS. ANCHORING SHALL BE DONE IN ACCORDANCE WITH THE TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - USE PERFORMED FIBERGLASS HOLD DOWN STRAPS FURNISHED BY TANK FABRICATOR ON TOP OF DESIGNATED RIBS. DO NOT USE STRAPS OR CABLES AGAINST THE TANK SHELL BETWEEN RIBS. ATTACH HOLD DOWN STRAP TO ANCHOR POINTS WITH 1/2" DIA. 6X19 FLOW STEEL WIRE ROPE LOOPS USING AT LEAST THREE CABLE CLAMPS. ALL STRAPS SHOULD BE TIGHTENED WITH TURNBUCKLES TO GIVE SNUG FIT OF STRAPS TO TANK RIB. TURNBUCKLE DIA. TO BE 1 1/2" HOOK TYPE OR 3/4" TYPE. ONE TANK AT A TIME SHALL BE SET ON PEA GRAVEL AND EACHLY ANCHORED AND TIGHTENED WITH THE ANCHORING STRAPS.



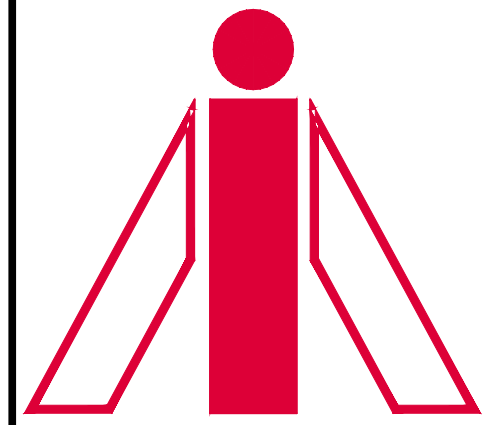
NOTE: FOR EQUIPMENT REFERENCE ONLY **COMPARTMENTED 40K TANK SECTION - 10K BIO, 24K DIESEL, 6K DEF** SCALE NTS 1



NOTE: FOR EQUIPMENT REFERENCE ONLY **COMPARTMENTED 40K TANK SECTION - 28K REGULAR, 6K PREMIUM, 6K ETHANOL** SCALE NTS 2

NOTE:
FOR ILLUSTRATION ONLY. REFER TO SHEET A01 FOR ORIENTATION AND TANK SIZE.

TOP OF MANHOLE AND SPILL BUCKET NOTE:
ALL MANHOLES AND SPILL BUCKETS SHALL BE ELEVATED BY 2-INCHES FROM SURROUNDING/ADJACENT CONCRETE PAVEMENT. THE CONCRETE PAVEMENT SHALL GENTLY SLOPE UP TO MATCH THE TOP OF THE MANHOLES AND SPILL BUCKETS.

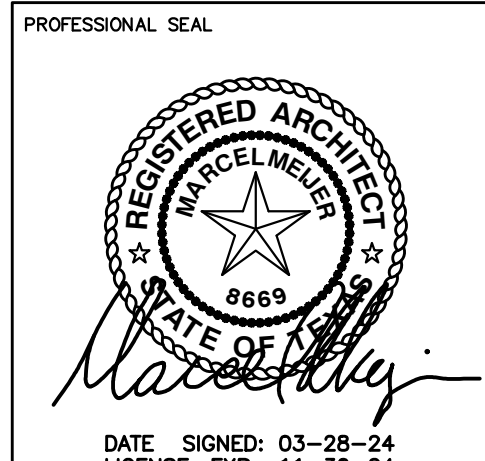


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP4B.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

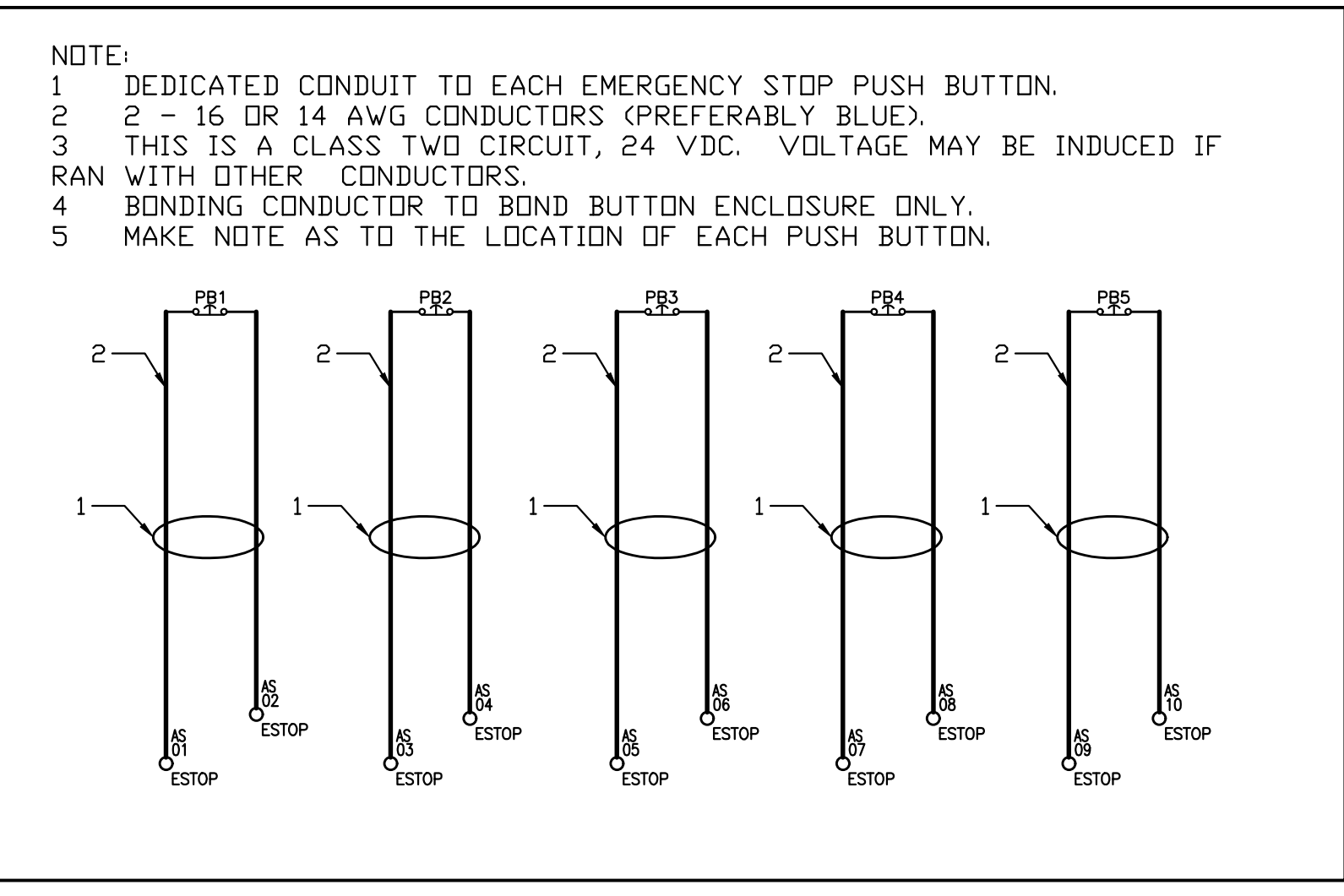
DRAWING NUMBER
TFP4B

STANDARD CEFCO FUEL WIRE SIZES

Dispenser Type/Description	Size Of Conduit	Function Of The Wire	QTY Of Wire In Conduit	Size Of Wire	QTY Of Wire In Conduit	Size Of Wire	QTY Of Wire In Conduit	Size Of Wire
3+2 Wayne Helux	1 Inch	Power	3	# 12	4	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare	Raceway Only					
	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
Master Dispenser	1 Inch	Power	3	# 12	2	# 14	2	# 18/2 Twisted Pair
	3/4 Inch	Intercom	1	# 18/4 Cable				
	3/4 Inch	Data	2	Cat 5				
	3/4 Inch	Spare	Raceway Only					
	3/4 Inch	Sensor	2	# 18/2 Cable	1	# 12 Ground		
Satellite	3/4 Inch	Sensor	2	SPARE # 18/2 Cable	1	# 12 Ground		
Master/Satellite Loop		Power	1	# 12 Ground	5	# 14		
Auto Gas Canopy	1 Inch	Power	1	?	Raceway Only			
	1 Inch	Spare	3	?	Raceway Only			
Truck Canopy	1 Inch	Power	1		Raceway Only			
	1 Inch	Spare	3		Raceway Only			
STP	1 Inch	Power	4	# 10				
Tank Sensor Home Run	1 Inch	Sensor	EACH SUMP	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" to each stp Sump for sen's wt. 1 spare	
ATG & Interstitial Loops Home Run	1"							
Remote E Stop	3/4 Inch	Sensor	Per Sensor	# 18/2 Cable	Per Sensor	# 12 Ground	1-1" Home Run for ATG & Int. Loops	
	3/4 Inch		3	# 12				

NOTE:
FOR ILLUSTRATION ONLY.
REFER TO TANK
INSTALLATION GUIDE.

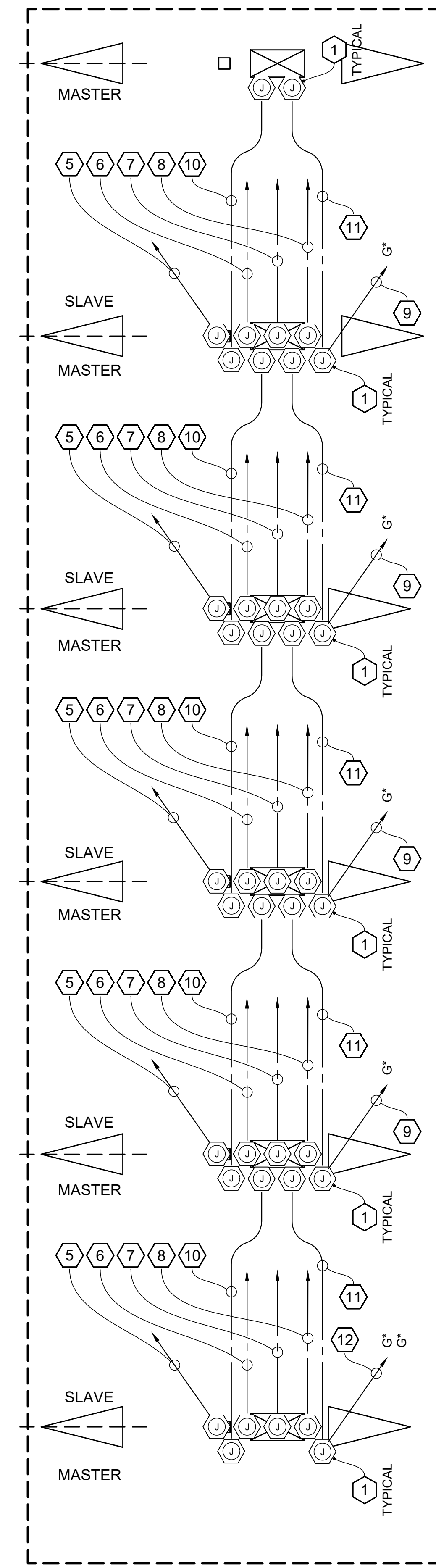
EMERGENCY STOP REQUIREMENTS



NOTE:
REFER TO STANDARD CEFCO FUEL WIRE SIZES (TFP4B) FOR WIRE INFORMATION.

- KEYED NOTES:**
- EXPLOSION PROOF JUNCTION BOX: CROUSE-HINDS GUA SERIES OR EQUAL.
 - FUEL DISPENSER CONDUITS AND CONDUCTORS: 2-#8 (DISPENSER PWR), 10-#14 (FIVE PRODUCT DISPENSER CONTROL), 1- SHLD CABLE (DISPENSER DATA), 1-SHL'D CABLE (CARD READER) & 1-#8 GND, 1" C. ROUTE TO GAS 'G' PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.
 - DISPENSER INTERCOM: PROVIDE (2) 2/C #18 SHLD CABLES IN 1" CONDUIT. ROUTE TO INTERCOM MASTER STATION IN CPI UNITIZED SWITCHGEAR.
 - DISPENSER VGA SCREEN: PROVIDE (1) CAT5 UL AWM STYLE 21146 CABLE IN 1" CONDUIT. ROUTE TO VEEDER-ROOT ADVERTISEMENT EQUIPMENT IN C-STORE. COORDINATE WITH OWNER FIELD REPRESENTATIVE FOR EXACT LOCATION PRIOR TO SLAB POUR.
 - DISPENSER SUMP SENSOR: PROVIDE 2/C #18 SHLD & 2/C #18 SHLD (SPARE) IN 3/4" CONDUIT. ROUTE TO FUEL TANK MONITOR PANEL.
 - DISPENSER SPARE CONDUIT: PROVIDE (1) SPARE 1" CONDUIT W/ PULL STRING TO CPI UNITIZED SWITCHGEAR.
 - TRUCK DISPENSER INTERCOM: (2) 2/C #18 SHIELDED CABLES (DISPENSER INTERCOM) ROUTE FROM DISPENSER TO INTERCOM MASTER STATION IN CPI UNITIZED GEAR.
 - TRUCK DISPENSER VGA SCREEN: PROVIDE (1) CAT 5 UL AWM STYLE 21146 IN 1" CONDUIT FROM DISPENSER TO VEEDER-ROOT ADVERTISEMENT EQUIPMENT IN C-STORE. OBTAIN EXACT LOCATION OF VEEDER ROOT EQUIPMENT FROM OWNER FIELD REPRESENTATIVE.
 - TRUCK DISPENSER POWER AND CONTROL: PROVIDE 2-#10 (DISPENSER POWER), 6-#14 (3 PRODUCT DISPENSER CONTROL), 1 SHIELDED CABLE (DISPENSER DATA), 1 SHIELDED CABLE (CARD READER) & 1-#10 EQUIPMENT GROUND IN 1" CONDUIT. ROUTE FROM DISPENSER TO GAS 'G' PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.
 - MASTER/SLAVE DISPENSER CONDUCTORS: PROVIDE (1) SHIELDED CABLE (SLAVE DISPENSER HANDLE) AND (1) SHIELDED CABLE (SLAVE DISPENSER VALVE). ROUTE 1" CONDUIT FROM MASTER DISPENSER TO SLAVE DISPENSER.
 - SLAVE DISPENSER POWER: PROVIDE 2-#12 AND 1-#10 EQUIPMENT GROUND IN 1" CONDUIT FROM SLAVE DISPENSER TO MASTER DISPENSER. SLAVE AND MASTER DISPENSER SHALL BE FED BY THE SAME CIRCUIT.
 - TRUCK DISPENSER POWER AND CONTROL: PROVIDE 4-#10 (DISPENSER POWER), 6-#14 (3 PRODUCT DISPENSER CONTROL), 1 SHIELDED CABLE (DISPENSER DATA), 1 SHIELDED CABLE (CARD READER) & 1-#10 EQUIPMENT GROUND IN 1" CONDUIT. ROUTE FROM DISPENSER TO GAS 'G' PANELBOARD, PUMP CONTROL PANEL & FUEL MANAGEMENT SYSTEM.

- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, CURRENT EDITION OF BUILDING CODE AND APPLICABLE LOCAL ORDINANCES.
 - VERIFY ALL MECHANICAL EQUIPMENT SIZES PRIOR TO ROUGH-IN.
 - COORDINATE ALL INSTALLATIONS WITH OTHER TRADES.
 - ALL ELECTRICAL CONSTRUCTION IN THE AREA OF THE UNDERGROUND STORAGE FUEL TANKS SHALL BE PER NEC ARTICLE 514 AND NFPA 30A.
 - ALL INTRINSICALLY SAFE (IS) WIRING SHALL BE PER NEC ARTICLE 504 AND ANSISA RP 12.6. IN ADDITION, SPECIAL (IS) WIRING REQUIREMENTS FOR THE UNDERGROUND STORAGE FUEL TANK LEAK SENSORS INCLUDE SEPARATION FROM OTHER WIRING VIA SEPARATE RACEWAYS (INCLUDING TROUGHS). TROUGHS SHALL HAVE A PERMANENTLY ATTACHED METAL DIVIDER THAT IS EQUIPOTENTIALLY BONDED TO EARTH.
 - FURNISH AND INSTALL POURED SEALING FITTINGS AT BOTH ENDS OF ALL CONDUITS FROM FUEL DISPENSERS AND UNDERGROUND FUEL STORAGE TANKS.
 - REFERENCE MANUFACTURER INSTALLATION MANUALS FOR UNDERGROUND FUEL STORAGE TANK EQUIPMENT WIRING INTERCONNECTIONS.
 - ALL POWER CONDUCTORS SHALL BE STRANDED WITH DUAL RATED THN/THWN INSULATION.
 - INTERMEDIATE METAL CONDUIT (IMT) SHALL NOT BE USED.
 - HOMERUN CONDUITS TO DISPENSERS AND TANKS TO BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT AND SCHEDULE 40 PVC PER NEC ARTICLE 514.8, EXCEPTION #2.
 - ALL CONDUIT ROUTED BETWEEN TANK SUMPS SHALL BE RIGID METAL HOT DIPPED GALVANIZED CONDUIT.
 - PENETRATE SUBMERSIBLE TURBINE PUMP (STP) WITH ONLY (1) VEEDER-ROOT CONDUIT.
 - PROVIDE 'EYS' SEALING FITTINGS WHERE CONDUITS ENTER OR LEAVE ANY HAZARDOUS CLASSIFIED AREA.
 - INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER AND INTRINSICALLY SAFE CIRCUITS.
 - REFER TO BUILDING ELECTRICAL DRAWINGS FOR PANEL SCHEDULES.
 - THE TERM PROVIDE MEANS THAT THE CONTRACTOR WILL 'FURNISH' AND 'INSTALL' ITEM.



ENLARGED ELECTRICAL FUEL STATION 6K DEF AND 10K BIODIESEL

21 NOT TO SCALE
RE:SITE PLAN

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281-398-2020

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EDDY, TEXAS 76524
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A PROJECT OF:
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DATE SIGNED: 03-28-24
LICENSE EXP.: 11-30-24

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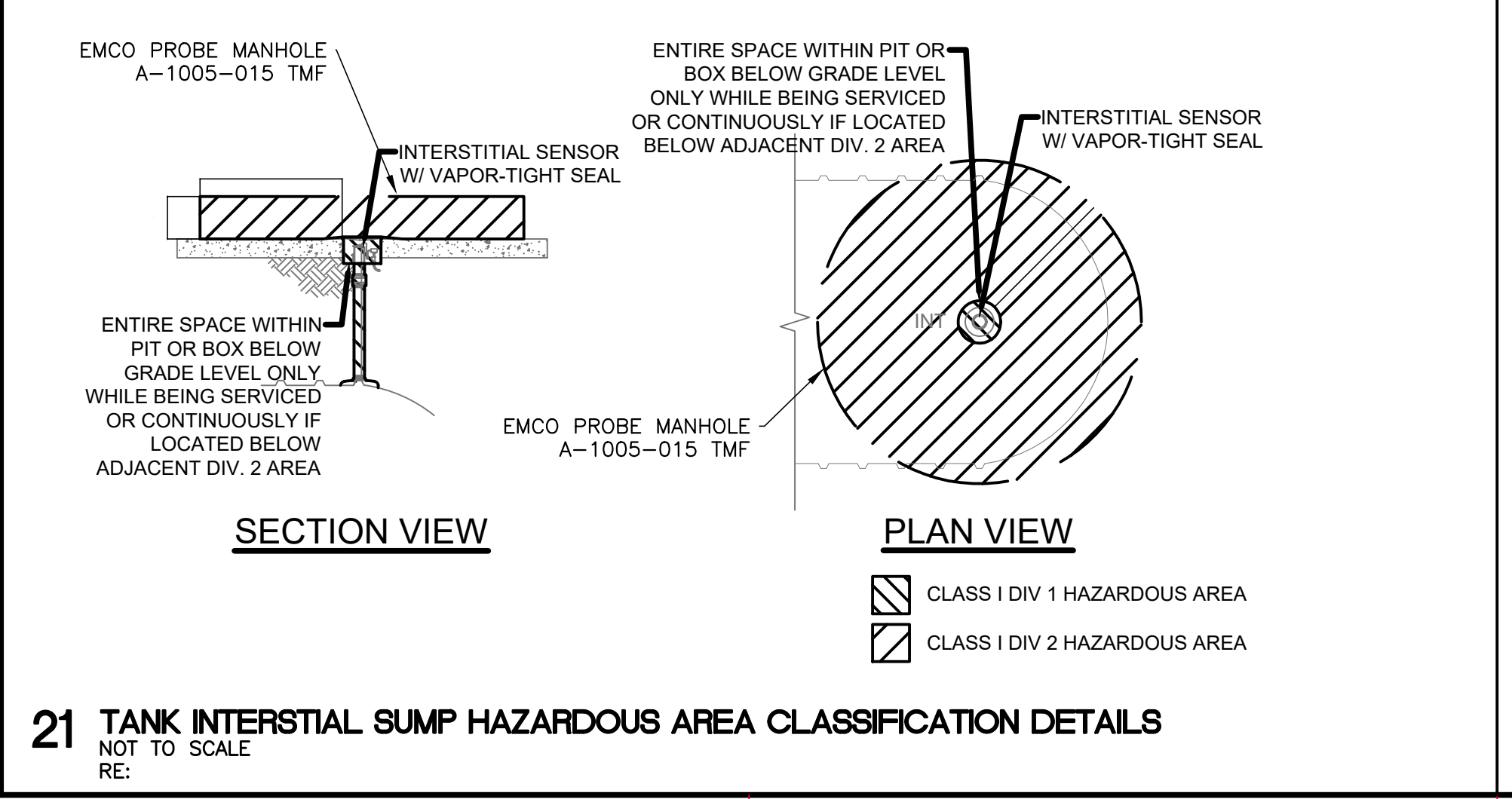
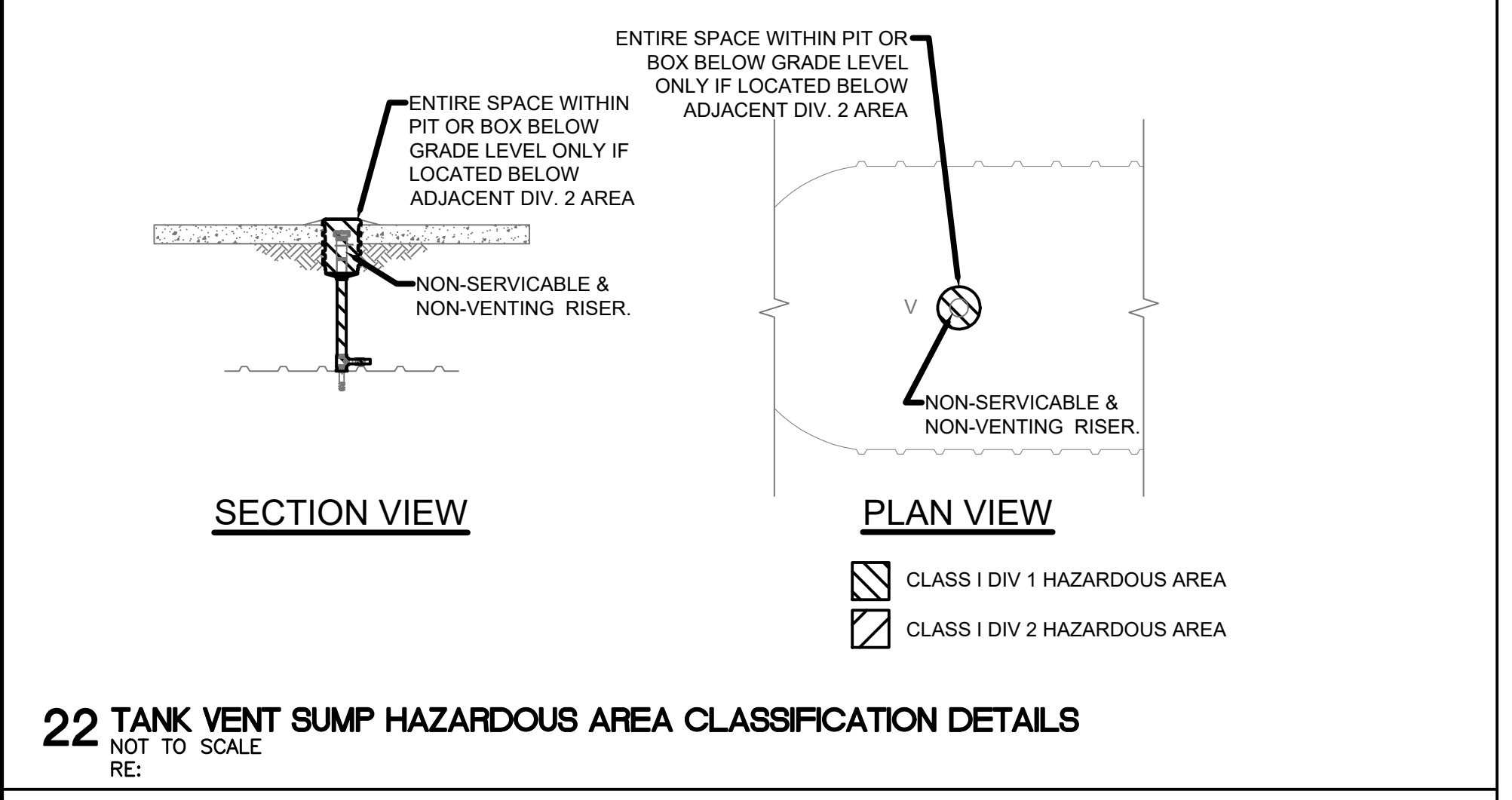
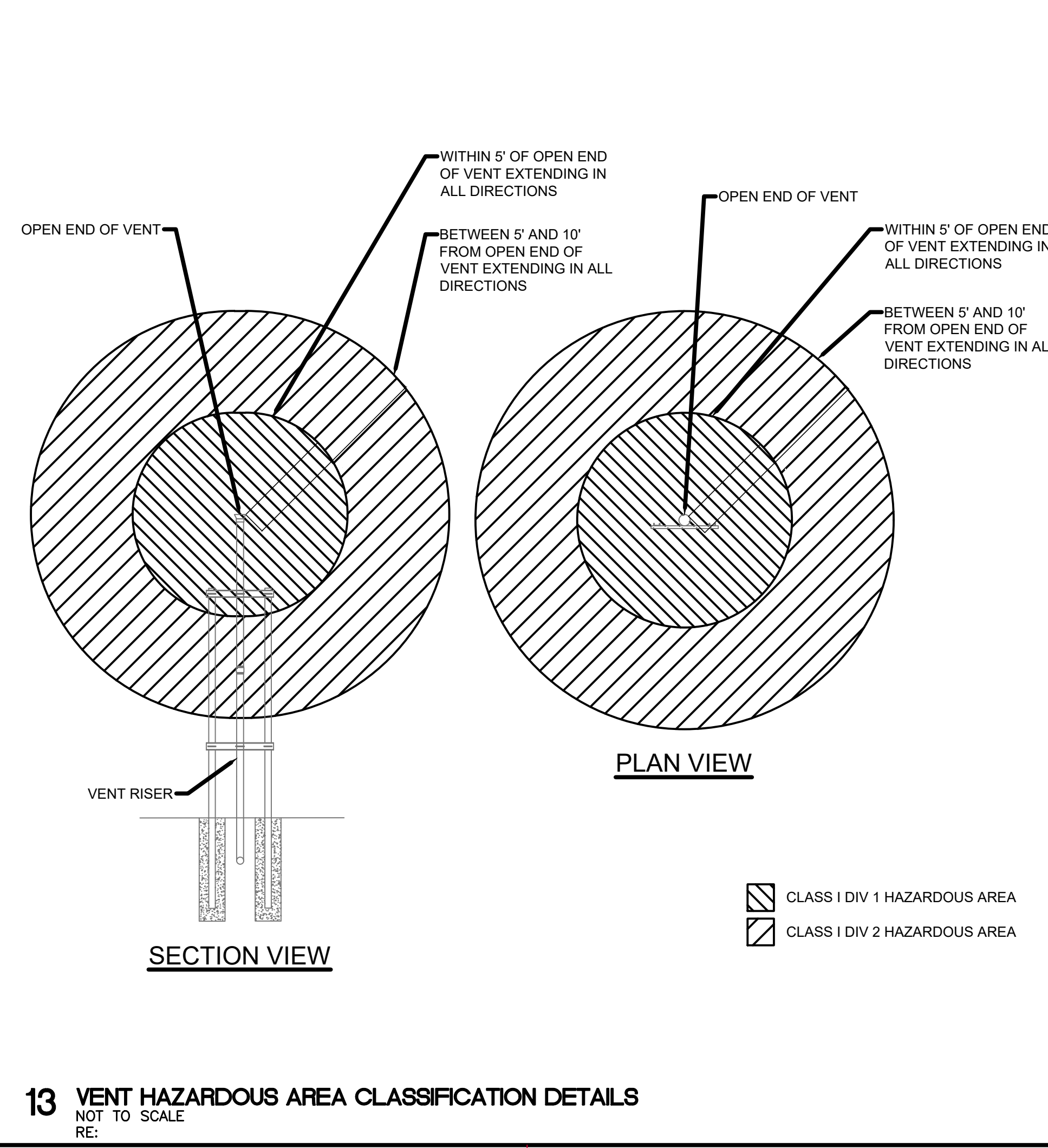
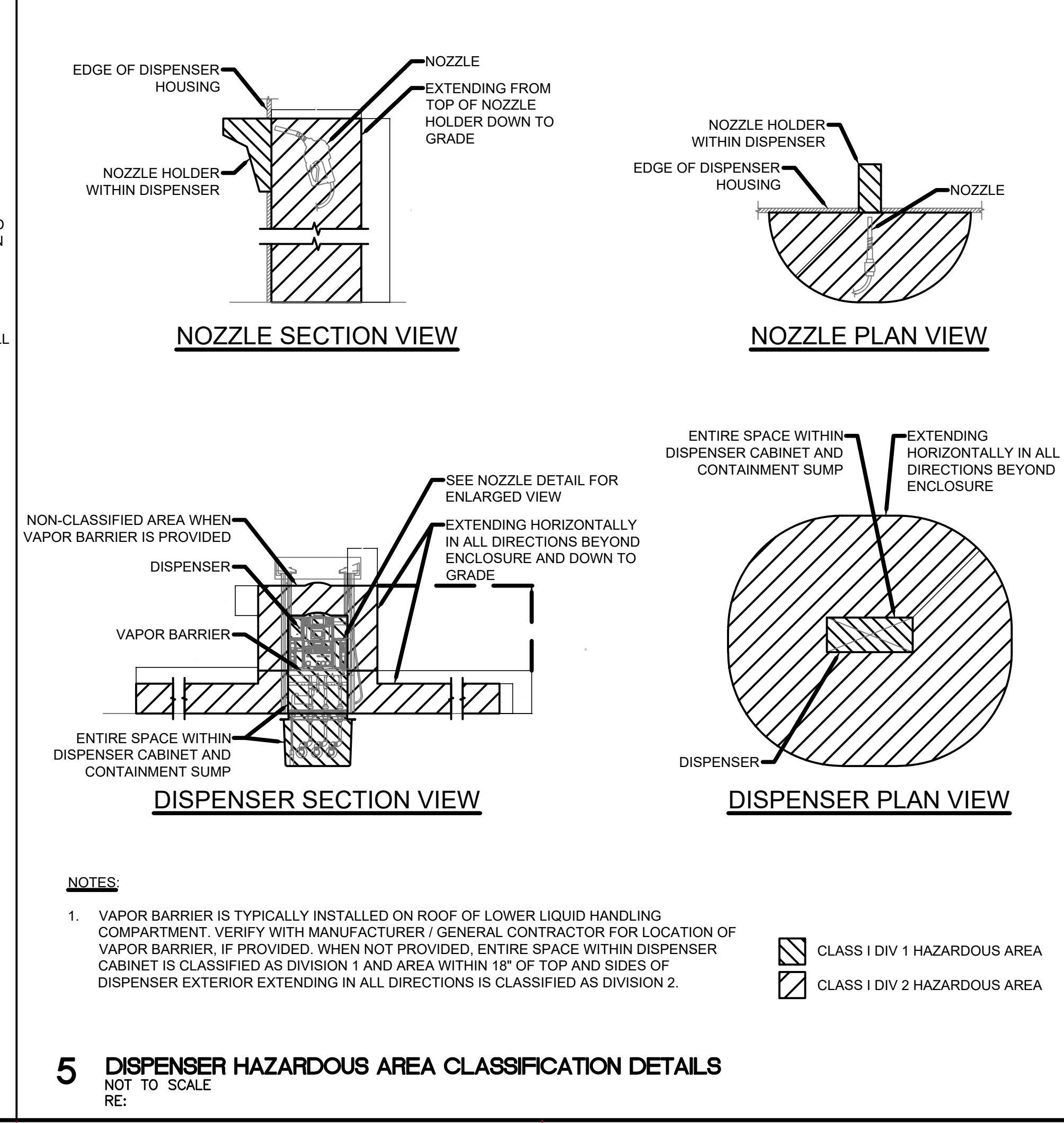
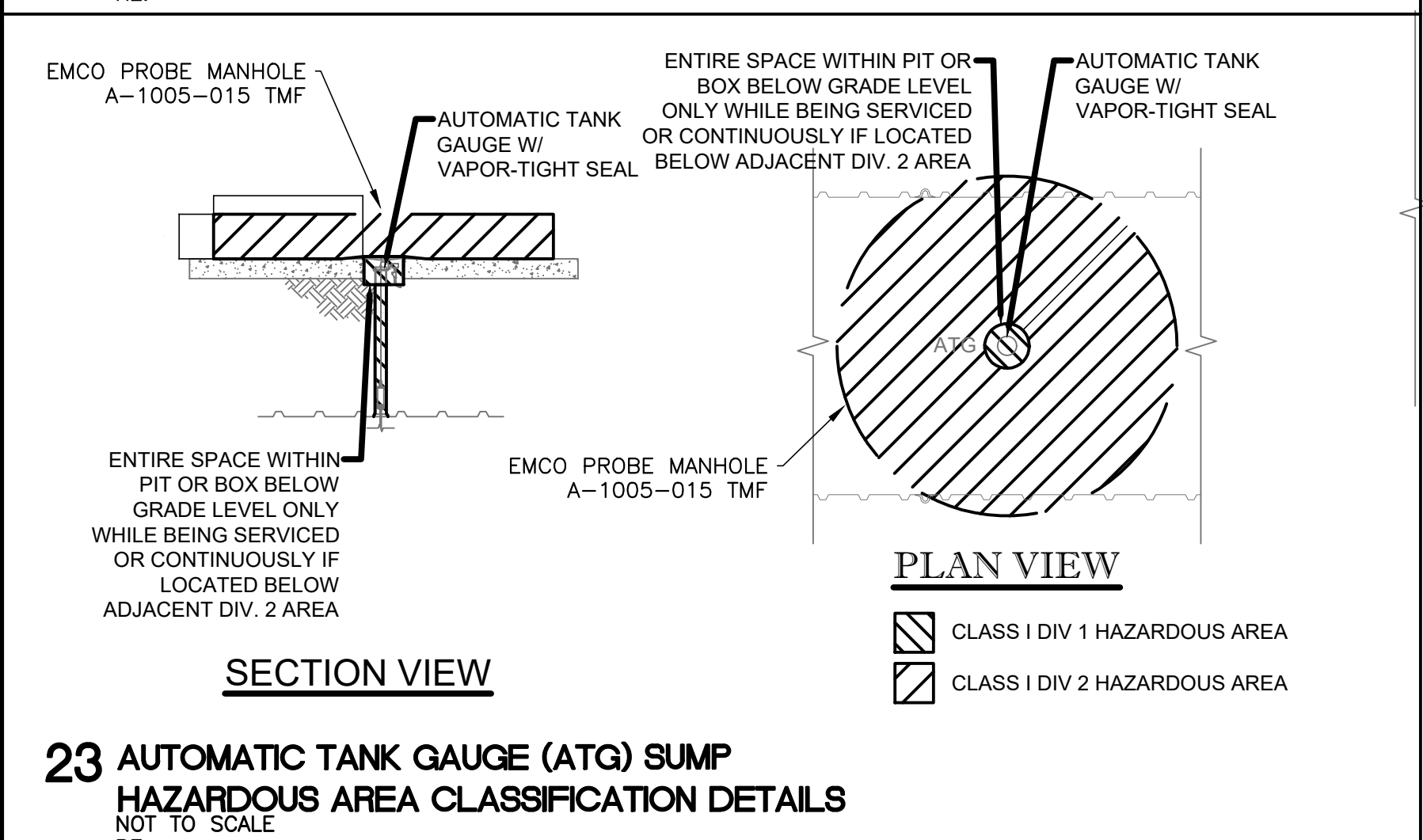
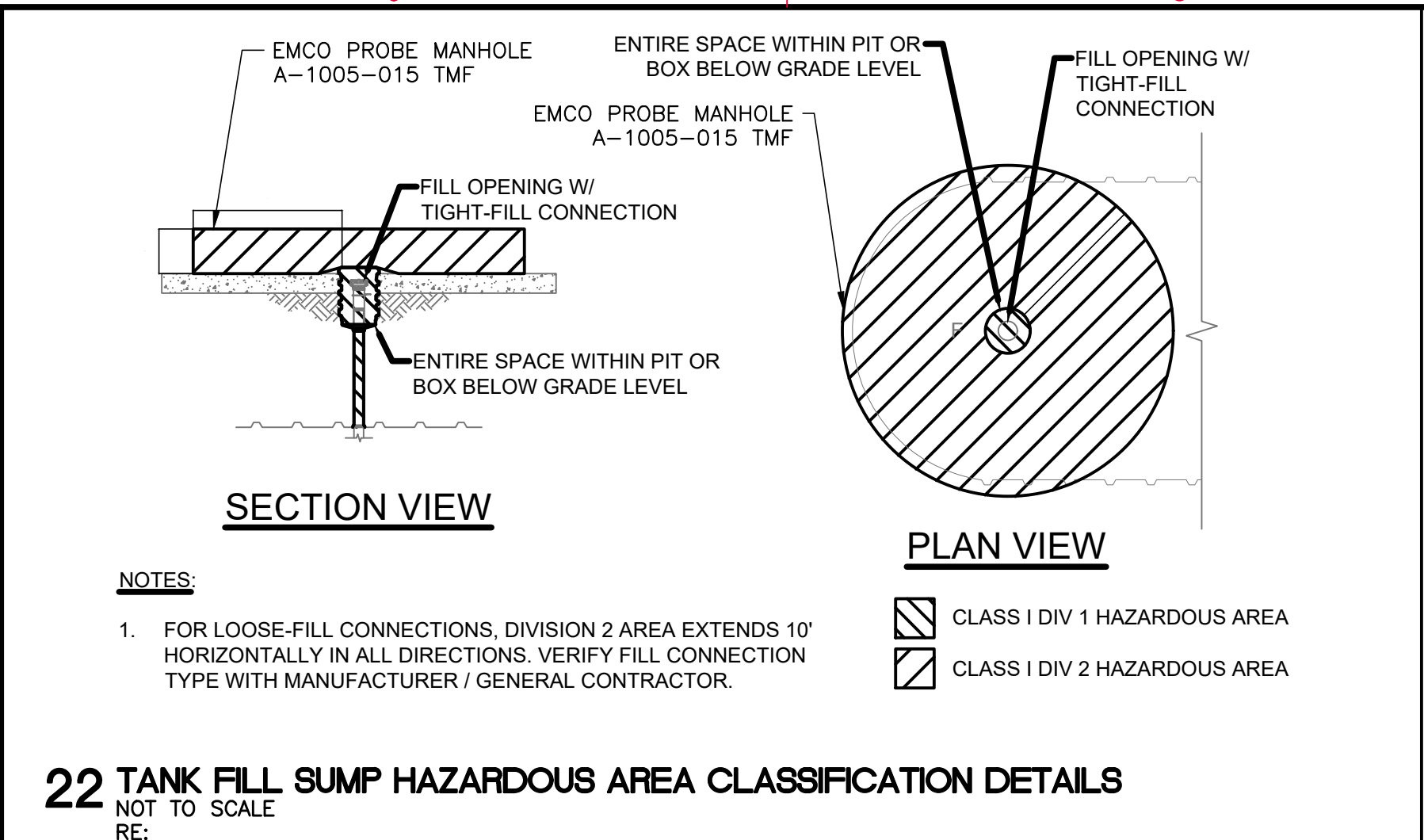
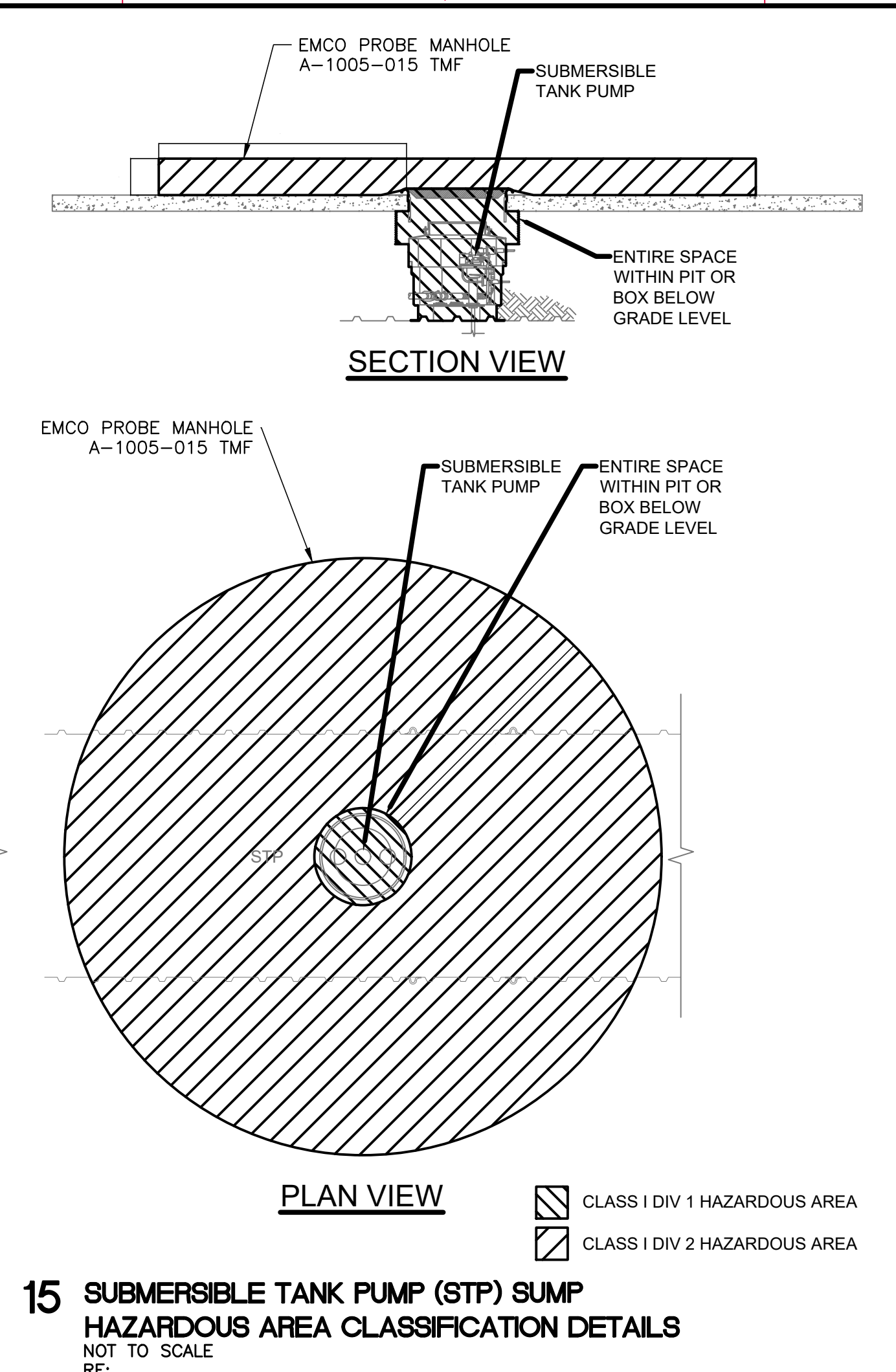
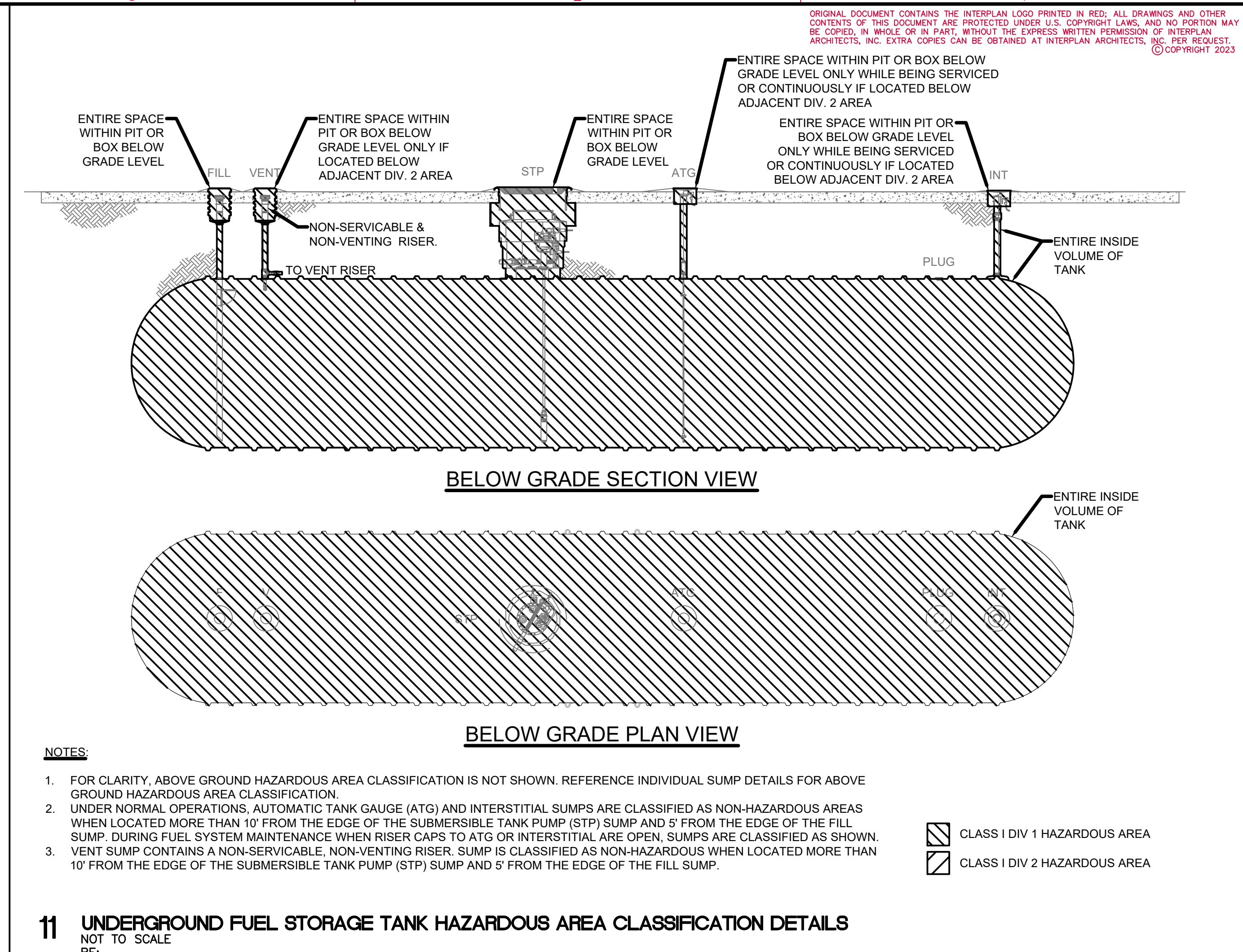
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
FUEL PRODUCT STORAGE TANK SECTION AND DETAILS

DRAWING NUMBER
TFP5



EQUIPMENT	DISPENSER, PUMP, AND TANK FITTINGS AND EQUIPMENT LIST - AUTO & TRUCK FUELING		MODEL No.	DESCRIPTION
	FURNISHED BY: (TO BE INSTALLED BY CONTRACTOR)	CEFCO			CONTR.
DISPENSER PRODUCT CONTROL SYSTEM	X		VERIFONE COMMANDER	RUBY2/COMM TRIPLE NO UPS/DISPENSER BOARD
	X		GIBARCO D-BOX	TRUCK SIDE DISPENSERS
	X		Comdata SmartDESQ	Include Nexgen detail
V169-RUBY2/COM-TTERM	X		COMMAND SITE CONTROLLER, STANDARD, 1PCB, 1HDD, 1PWR	M149-111-00-NAA
	X		FORECOURT FUEL CONTROLLER, FCI	M149-901-01-R
OC-DISPENSER BOARD	X		KIT, (CLGB) SPP CURRENT LOOP	29721-01
	X		KIT, RS485 8-CHANNEL INTERFACE BOARD SFC	29376-01
	X		RUBY 2	M169-000-01-NAA
	X		CUSTOMER DISPLAY, TOPAZ 2X20	P050-01-101-R
	X		MEDIA DRAWER, PETRO SYSTEMS	P050-01-200
	X		PRINTER, RECEIPT, THERMAL, RP-310	P040-02-020
	X		ROUTER, CYBERA ZONE ROUTER (6462)	P039-09-001-NAA
	X		CABLE, SHLD RS232, RJ45-RJ45, GEM II	13836-01
	X		ADAPTER, NULL MODEM, DB25M-RJ45	13581-01
	X		CABLE, ETHERNET SAPPHIRE 7.62M	22278-25
	X		CABLE, ETHERNET SAPPHIRE 15.2M	22278-50
	X		CABLE, ETHERNET SAPPHIRE 100'	22278-100
	X		CABLE, SHLD RS232, RJ45-RJ45, 100FT	13836-100
	X		Onceac UPS - Conditioned 250VA	PO40-07-050
	X		MX 915 PCI 3. X, 4.3"	M132-409-01-R
	X		MX9XX - PWR, AUD, BERG W/TAILOGATE, ETH, USB OTG, COM2	132-602-00-R
	X		PS+FERRITE, 120VAC/12VDC/1A, 5.5X2.1MM/C, USA	PWR132-003-01-A
	X		STAND, MX915, LOW CONTOUR, LOCKING, ANTI-SKIMMING, DATA PORT BLOCKING	MET132-019-01-A
	X		STAND, MX915/925 LOW CONTOUR	MET132-009-01-A
	X		DATALOGIC GRYPHON GD440030 2D IMAGER	GD440030-BC-B
	X		DATALOGIC CAB-327 SH3630 RUBY VERIFONE SERIAL CABLE, 8	90A051939
	X		20 STATION INTERCOM W/ COUNT BEING X 2	20 STATION (78-6911-4799-1) FOR AUTO AND 8 STATION (79-6911-4796-7) FOR TRUCK
			BRAVO EPOXY KIT PART NUMBER EP100	
DISPENSERS	X		DRESSER WAYNE HELIX SERIES - 3+2 PRODUCT	FUSION GATEWAY (IX) PRODUCT NO. 000-920895
			WAYNE OVATION 2 ULTRA HIGH	FOR DIESEL PLUS DEF (SEE SITE PLAN FOR LAYOUT WITH ALPHA NUMERIC KEYPAD
			VERSION 4 FLINT LOC'S SHOULD BE PRESENT	BOTH MANUFACTURERS PETROCLEAR ETHANOL 40510AAD & FOR DIESEL IT WILL
			OR	BE THE PETROCLEAR 40530WAD
	X		DRESSER WAYNE OVATION 2 SERIES - HI SPEED W/ALPHA	FUSION GATEWAY (IX) PRODUCT NO. 000-920895
			NUMERIC (NO FLINT LOC'S W/THESE) (PETROCLEAR 4093WAD)	
DISPENSER CONTAINMENT BOX, VALVES & FITTINGS	X		UPP SUMP FOR ENCORE OR HELIX	PDLY DISPENSER SUMP
	X		2" UPP ENTRY FOR FIBERGLASS SUMPS PART NUMBER FEB-075	
DISPENSER HOSE, NOZZLE & FITTINGS	X		006310 SWIVEL/STB COMBO 3/4" AND 159504 N, 10S UNL W/CP UL HUSKY 3/4" FOR UNLEADED AND 159503 N, 10S LDD W/CP UL HUSKY 3/4" DSL NOZZLE FOR DIESEL	AUTO MPD
	X		HUSKY 005969 SWIVEL/STB 1" COMBO ASSEMBLY AND HUSKY 173310N, 8 W/CP PHG NL HUSKY 1" DSL NOZZLE AND UPDATE THE CURB HOSE TO THE FLEXING HOSE, FLHR301000BLK, ASSY HW 1" X 10' BLK, FIXED ENDS	HI FLOW
TANKS	X		HALL TANK COMPANY CORPORATION -10"DIA. AS PER LOCATION. RE: A01	DOUBLE WALL FIBERGLASS TANKS - SEE SITE PLAN FOR TANK CONFIGURATION
	X		ADD OR BLACK PIPE ON DIESEL BESIDE STAINLESS UNLESS ON A STP THEN ITS STAINLESS (VERIFY WITH OWNER)	
	X		WATC OCOMPANY CORPORATION -10"DIA. AS PER LOCATION. RE:A01.	
SUBMERSIBLE MANHOLE COVER	X		14U-RT4210	STP 42" COMPOSITE STANDARD
SUBMERSIBLE PUMP TURBINE ENCLOSURE & FITTINGS	X		602402922	42" FRP SUMP
			ADHESIVE KIT: 602366924 SEAL KIT: 602366901	
	X		CABLE TIGHT FLEXIBLE 1" CONDUIT, 000-100-1000-FC.	
	X		2" DOUBLE WALL ELECTROFUSION, 303-075-EIF-U	

SUBMERSIBLE PUMPS & FITTINGS (ADVANCE PROTECTION PUMPS)	X		REGULAR x2, PREMIUM x1, AUTO DIESEL x1, (4 HP VARIABLE) TRUCK DIESEL x2 (5 HP MAG FLO, 6" OPENINGS)(4 HP VARIABLE STP)	WITH MECHANICAL LEAK DIRECTOR
	X		DEF MOTOR 403479901 AND ADD ROW BELOW/FOR DEF STP, PUMP CONTROL BOX, 401220903	1.5 HP
	X		BRAVO ENTRY FITTING PART NUMBER F-10-F	VFC CONTROLLER 4H.P
	X		FFS, STP-MLD+G (GASOLINE), 403168901	MECHANICAL LINE LEAK DIRECTOR
	X		FFS, STP-MLD+D (DIESEL), 403170901	MECHANICAL LINE LEAK DIRECTOR
	X		UNIVERSAL 213 FP	
	X		JEFFERSON 1731 - 300	2" STAINLESS STEEL UNION GALV. STEEL
VAPOR RECOVERY/VENT	X		FFS 4" PLUG CAP	
	X		4" RISER	4" GALV. STEEL RISER W/ "3M" SCOTCHRAP51 PROTECTION TAPE OVER "3M-SCOTCHRAP" PIPE PRIMER (GALV. FOR UNLEADED PRODUCTS AND BLACK STL FOR DIESEL)
REMOTE DIRECT VAPOR RECOVERY	X		FFS DEFENDER SERIES SPILL BUCKETS #705545012CI-GKT	SINGLE WALL SPILL BUCKET
DIRECT FILL/GAUGE	X		EMCO SPILL BUCKET A1004EVR-31755101	5 GAL DOUBLE WALL NPT, ND
	X		EMCO A 1100 EOR 056T	4" FILL TUBE W/OVERFILL PREVENTION VALVE
	X		FFS; SWIVEL ADAPTOR (SWF-100-SS),	
	X		FFS; VAPOR CAP (777-201-02)	VENT CAP
	X		FFS; FILL CAP (4" EVR 304-301-01)	FILL CAP
	X		FFS; 2" PRESS VAC. VENT EVR 80020702	PRESSURE VENT
	X		FFS; SWIVEL ADAPTOR (SWV-100-SS)	
	X		FFS; 78710009	RU-REGULAR UNLEADED KIT
	X		FFS; 78710006	SU-SUPER UNLEADED KIT
	X		FFS; 78710003	D-DIESEL KIT
	X		4" RISER	4" GALV. STEEL RISER W/ "3M" SCOTCHRAP51 PROTECTION TAPE OVER "3M-SCOTCHRAP" PIPE PRIMER (GALV. FOR UNLEADED PRODUCTS AND STAINLESS STL FOR DEF)
INVENTORY SENSOR MANHOLE/COVER	X		EMCO	EMCO PROBE MANHOLE PART NUMBER A1005-015TMF
	X		FFS EQUIVALENT	DIAMETER MANHOLES TWO WITH 24" MANHOLES
MONITORING WELL & MANHOLE/COVER	X		FFS EQUIVALENT	12" DIA MANHOLE
	X		FFS EQUIVALENT	MONITORING WELL WITH BOTTOM 4"X15"
	X		FFS EQUIVALENT	4" WATERTIGHT LOCKING TEST WELL CAP
PRODUCT PIPING, SECONDARY CONTAINMENT PIPING	X		UPP ELECTRO PIPING UL971	UPP PIPING, FITTINGS, ADHESIVE, ETC. (USE ALL PRODUCTS OF A SINGLE MANUFACTURER)
SYSTEM AND FITTINGS	X		UPP PIPING UL971	ALCOHOL RESISTANT ADHESIVE
FFS TANK MONITORING SYSTEM	X		TS000EDP	TS-5000 EVO FUEL MANAGEMENT SYSTEM W/PRINTER
	X		TS-TT	(24HR) SCALD TANK TESTING SOFTWARE
ATG WIRING REQUIREMENT: FFSATG WIRING BY CONTR	X		TS-TRAC	DISPENSER RECONCILIATION SOFTWARE
THHN, TFFN OR THWN, 18 AWG, WHITE & BLACK, OR ALPHA CABLE #58411, 0.114 O.D. -1,500 FEET (457 METERS) MAX. LENGTH ALPHA CABLE #58411 MUST BE USED WITH NONMETALLIC CONDUIT.	X		TS-2WSNS	12 INPUT 2-WIRE SENSOR MODULE
	X		TS-3WSNS	8 INPUT 2-WIRE SENSOR MODULE
	X		4" RISER	4" GALV. STEEL RISER W/ "3M" SCOTCHRAP51 PROTECTION TAPE OVER "3M-SCOTCHRAP" PIPE PRIMER (GALV. FOR UNLEADED PRODUCTS AND BLACK FOR DIESEL)
INTERSTITIAL WIRING REQUIREMENT: THHN, TFFN OR THWN, 18 AWG: RED, WHITE & BLACK OR ALPHA CABLE #58113, 0.131 O.D. -1,500 FEET (457 METERS) MAX. LENGTH. ALPHA CABLE #58113 (INCON P/N 600-0063) MUST BE USED WHEN USING NONMETALLIC (PVC) CONDUIT.	X		TSP-IGF4P	4" FLOAT SET FOR GASOLINE AND ETHANOL BLENDED TANKS
	X		TSP-IDF4	4" FLOAT SET FOR DIESEL/FUEL OIL TANKS
	X		4" RISER	4" GALV. STEEL RISER W/ "3M" SCOTCHRAP51 PROTECTION TAPE OVER "3M-SCOTCHRAP" PIPE PRIMER (GALV. FOR UNLEADED PRODUCTS AND BLACK FOR DIESEL)
	X		TSP-CA4	MAG PROBE INSTALL KIT FOR 4" RISER PIPES - BOTTOM MOUNT

	X		FMP-LL3-125	MAGNETOSTRICTIVE PROBE FOR 10 FOOT (3.05 M) DIAMETER TANKS
	X		TSP-ULS	UNIVERSAL LIQUID SUMP SENSOR
	X		TSP-EIS	ELECTRO-OPTIC INTERSTITIAL SENSOR
	X		TSP-KI2	INTERSTITIAL 2" RISER INSTALL KIT
TANK HOLD-DOWN HARDWARE*	X		HALL TANK COMPANY	HOLD-DOWN STRAP
TANK AND HOLD-DOWN HARDWARE PROVIDE BY THE FIKES COMPANY	X		BREWER-TICHENER #444-G OR "CROSBY" #G277	1" DIA 12" TAKE-UP JAW AND JAW TURNBUCKLE (SAFE WORKING LOAD LIMIT 10,000 LBS)
	X		BRODERICK & BASCOM - "YELLOW STRAND"	5/8" DIA DRAWN GALV WIRE ROPE 6 X 19 CLASS IWRC IMP. PLOW STEEL - (MIN BREAKING
	X		BREWER-TICHENER #755G OR "CROSBY" #G408	STRENGTH 17.9 TONS, SAFE WORKING LOAD = 7160 LBS.
	X		COVERT #3300 OR "CROSBY" #450 FIBERGLASS	STANDARD WIRE ROPE THIMBLE (OPEN PATTERN) HOT DIP GALV
TESTING	X		CERTIFIED CONTRACTOR TO PERFORM CARB TP-201.3	5/8" WIRE ROPE CLIPS, HOT DIP GALV
"U" POLE BUMPERS -STAINLESS STEEL, 3.5 O.D.			OPW 6PGR355-4350	HYDROSTATIC TESTING FOR SPILL BUCKETS AND SUMPS PRECISION PRESSURE TESTING OF TANKS AND LINES
STRAIGHT POLE BUMPERS-PAINTED STEEL			OPW SPG4-63	SEE SITE PLAN FOR TYPE & SIZES
BIO			TSBB1M1A-RT	CONTROLLER - TRUCK STOP BIO BLENDER, 1 MAIN FLOW, 1 ADDITIVE FLOW, REAL-TIME RATIO BLENDING
			BP-CFCO-1N30	PRE-ASSEMBLED BLENDING PLATFORM, CEFCO EDITION, 1 IN TO 3 OUT
			BRAVO SUMP 5x5 140-020-000	BRAVO SUMP, 5FT X 5FT
			140-030-000	2" CLASS 150 RAISED FACE THREADED STEEL FLANGE FOR OUTBOUND LINES, THREE INCLUDED
			VF-515	3" CLASS 150 RAISED FACE THREADED STEEL FLANGE FOR INBOUND LINE, ONE INCLUDED
				TOSHIBA VF-S15 7.5 HP VARIABLE FREQUENCY DRIVE FOR BIO PUMP MOTOR
FILTER FABRIC	X		MANUFACTURE	ANY SITE WHERE POOR SOIL CONDITIONS OR FLUCTUATING WATER TABLES ARE PRESENT (I.E. LOOSE SAND, TIDAL OR RAPIDLY CHANGING WATER, SLTY SOIL WITH WATER CONDITIONS, LOW STABILITY SOIL WITH LESS THAN 250 LBS/SQ.FT COHESION OR AN ULTIMATE BEARING CAPACITY OF LESS THAN 500 LBS/SQ.FT FOLLOW TANK AND FILTER FABRIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.
ELECTRIC WIRING	X		Bravo F-10-F	
	X			
	X		Flexible conduit	000-100-1000-EC
	X		Flexible conduit	000-100-1500-EC
	X		Coupler	02-033
	X		Spigotted rigid metal conduit	000-100-06-ERMC

*DEADMEN FURNISHED BY HALL TANK COMPANY (DELIVERED WITH TANKS TO JOBSITE)

MANUFACTURERS OF CONTRACTOR-FURNISHED PRODUCTS

AMERON	"VERIFONE", PHONE 800/837-4366; 402-232-7800
"BREWER-TICHENER" (COOPER TOOLS), PHONE 919/362-7510	
"BRODERICK & BASCOM", PHONE 908/964-4477	"HALL TANK COMPANY", PHONE
"COVERT" (COOPER TOOLS), PHONE 919/362-7510	"BELDEN", PHONE 800/235-3361
"CROSBY", PHONE 918/834-4611	"RED JACKET", PHONE 800/777-2480; 913/831-5700
"FFS"; FRANKLIN FUELING SYSTEMS, PHONE 608/838-8786	"VEEDER-ROOT", PHONE 860/651-2753; 860/651-2700
"MORRISON BROS. CO." PHONE 800/553-4840	"WATTS", PHONE 603/934-1107
"OPW", PHONE 800/422-2525	"BIO" PHONE 217/224-9725 EXT 102

NOTE:

CEFCO WILL PROVIDE LIST OF FUEL SYSTEMS MATERIALS BEING PROVIDED.



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP6.DWG

PROJECT TITLE
CEFCO CONVENIENCE STORES #0047

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

DATE	REVISION
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
RETAIL CANOPY FUEL EQUIPMENT SCHEDULE

DRAWING NUMBER
TFP6

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INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

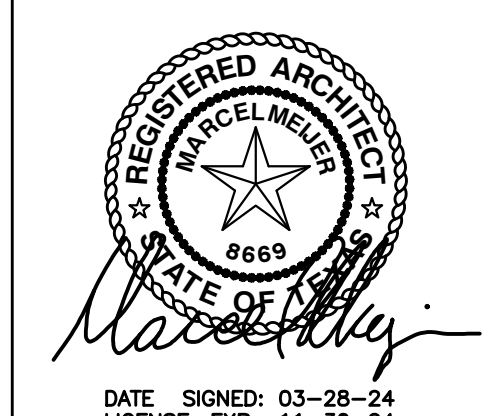
PROJECT NUMBER
CEF22-TFP7.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.

PROFESSIONAL SEAL



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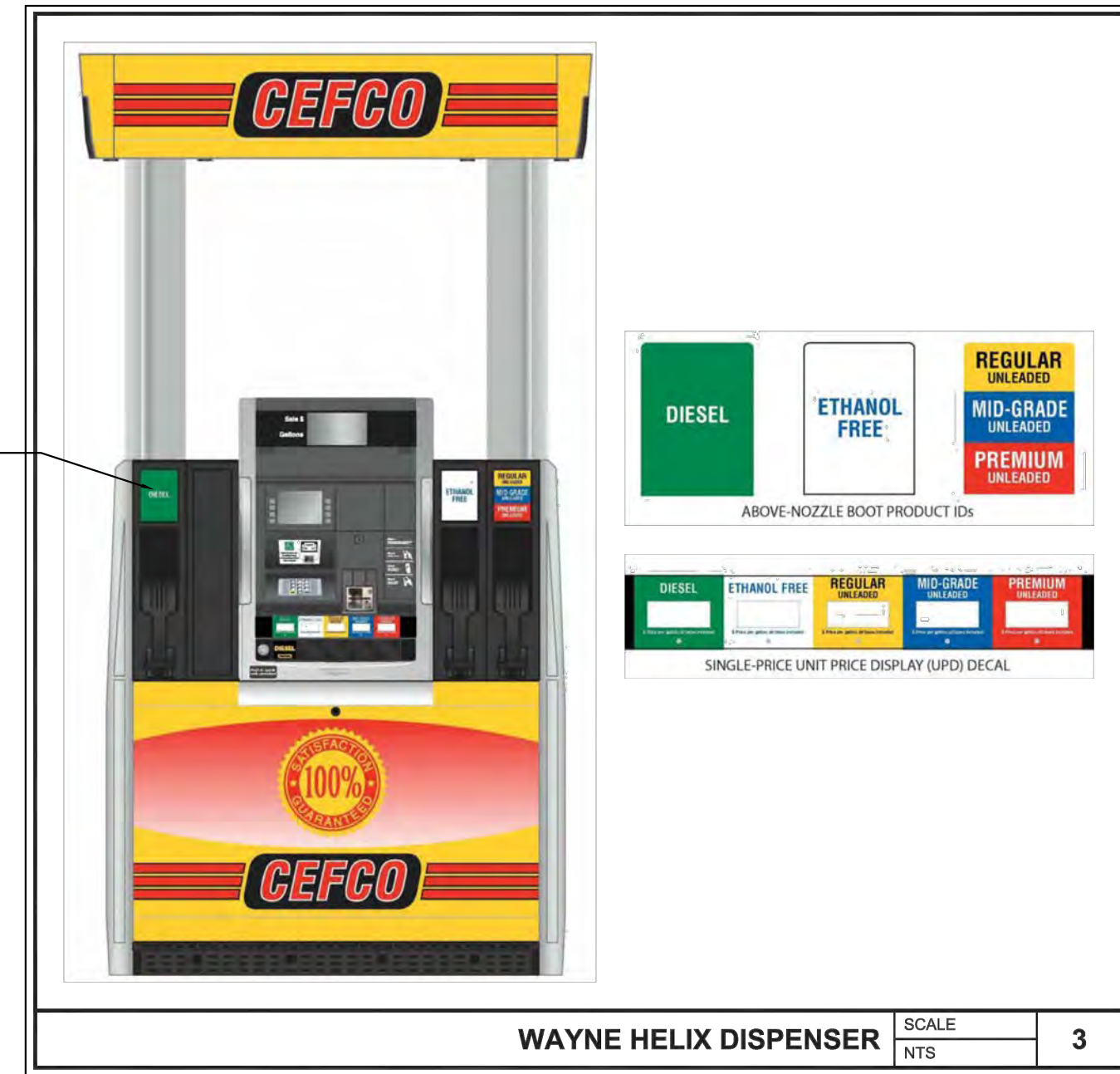
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
FUEL PRODUCT FLOOR PLAN AND ISLAND DETAILS

DRAWING NUMBER
TFP7



07 MPD DETAIL
SCALE: N.T.S.
RE: TFP6 FOR MAKE/MODEL

SCOPE OF WORK / CONTRACTORS RESPONSIBILITIES:

- CANOPY STRUCTURAL SYSTEM AND FASCIA SUPPLIED BY OWNER. INSTALLED BY GENERAL CONTRACTOR.
- FASCIA SYSTEM PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY GENERAL CONTRACTOR.
- LIGHTS PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY GENERAL CONTRACTOR.
- CANOPY COLUMN FRAMING SYSTEM AND STONE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.

LUMINAIRE SCHEDULE

SYMBOL	QTY	LIGHT TYPE	LABEL	ARRANGEMENT	LLF	DESCRIPTION
☐	23	Canopy Light	LEGACY LED	SINGLE	0.910	CRUS-SC-LED-VHO-CW-UE
		LED Canopy Fascia	3-ROWS LED LIGHTING			

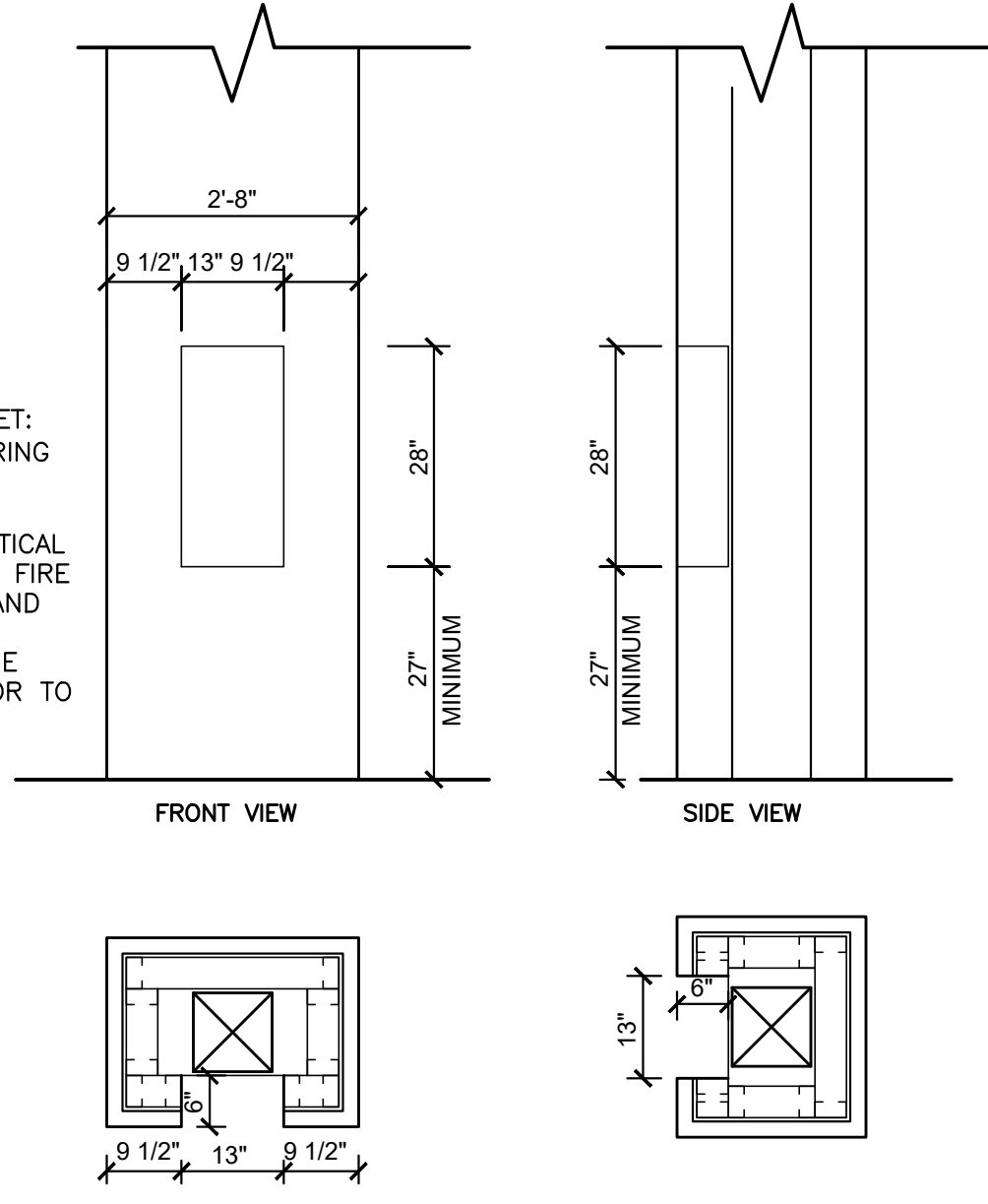
FIRE EXTINGUISHER AND CABINET:

▲	8	CABINET BY LARSEN'S MANUFACTURING #2712-RK-FULL PANEL-AL SQUARE TRIM SEMI-RECESSED RED VERTICAL LETTERING. CABINET AND FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (ABC DRY CHEMICAL - 5 LB.)				
---	---	---	--	--	--	--

GENERAL NOTES

- These details provide a method of laterally restraining concrete barrier to limit dislodge under normally expected truck vehicle impacts. These details are intended for use at the indicated sites) where continuous reinforced concrete pavement (CRCP) is available.
- Each concrete bollard section shall have 6 1/2 in. ID holes preformed or cast around the 6" dia steel pipe already installed per the detail on this sheet.
- Note that steel washers have been welded to the top of the steel pins to aid in the removal of the pins, when the bollard is removed.
- The reinforcement shown for bollard are estimated and assumed. See Bollard standard sheet for reinforcement details.
- The bollard will be repaired as directed in accordance with TXDOT Specification Item 429, "Concrete Structure Repair."
- All steel pipe shall be galvanized after fabrication in accordance with TXDOT Specification Item 445, "Galvanizing."
- It is allowable to adjust the location of 6" bollard relative to the triangle bollard to clear its reinforcement.

ROUGH OPENING



GENERAL CONTRACTOR WILL VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.

15 TYPICAL FIRE EXTINGUISHER DETAIL
SCALE: N.T.S.
RE: FIRE EXTINGUISHER AND CABINET CHART TFP7 FOR MORE INFORMATION.

NOTES:
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL BEFORE COMMENCEMENT OF WORK VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE

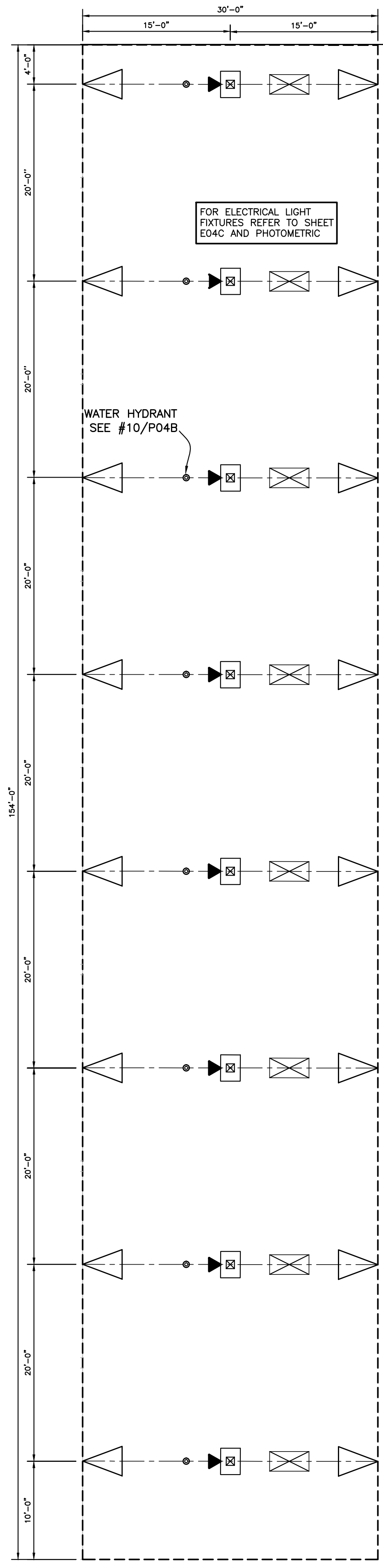
GAS PUMP SIGNAGE:
*MADE OF .063 HEAVY-DUTY ALUMINUM.
*PRINTED ON TWO SIDES.
*ROUNDED CORNERS.
*1" BEND WITH INDUSTRIAL STRENGTH DOUBLE SIDED TAPE.
*PREDRILLED MOUNTING HOLES FOR ADDITIONAL SECURITY.

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL CONDUITS' SIZE AND FIELD LOCATIONS.

AIR REELS
COXREEL SYSTEM
C-LP-350-350-W-KXX
30' x 3/8" LINE SETS, "W" MOUNTING CONFIGURATION, "KXX" BLACK IN COLOR

FIRE EXTINGUISHER CABINET:
BY LARSEN'S MANUFACTURING #2712-RK-FULL PANEL-AL-SQUARE TRIM SEMI-RECESSED RED VERTICAL LETTERING. CABINET AND FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. VERIFY SIZE WITH MANUFACTURER PRIOR TO CONSTRUCTION.

THE NOZZLE BOOTS AND SPLASH GUARDS FOR PRODUCT LINES. RE: TFP6 FOR EQUIPMENT



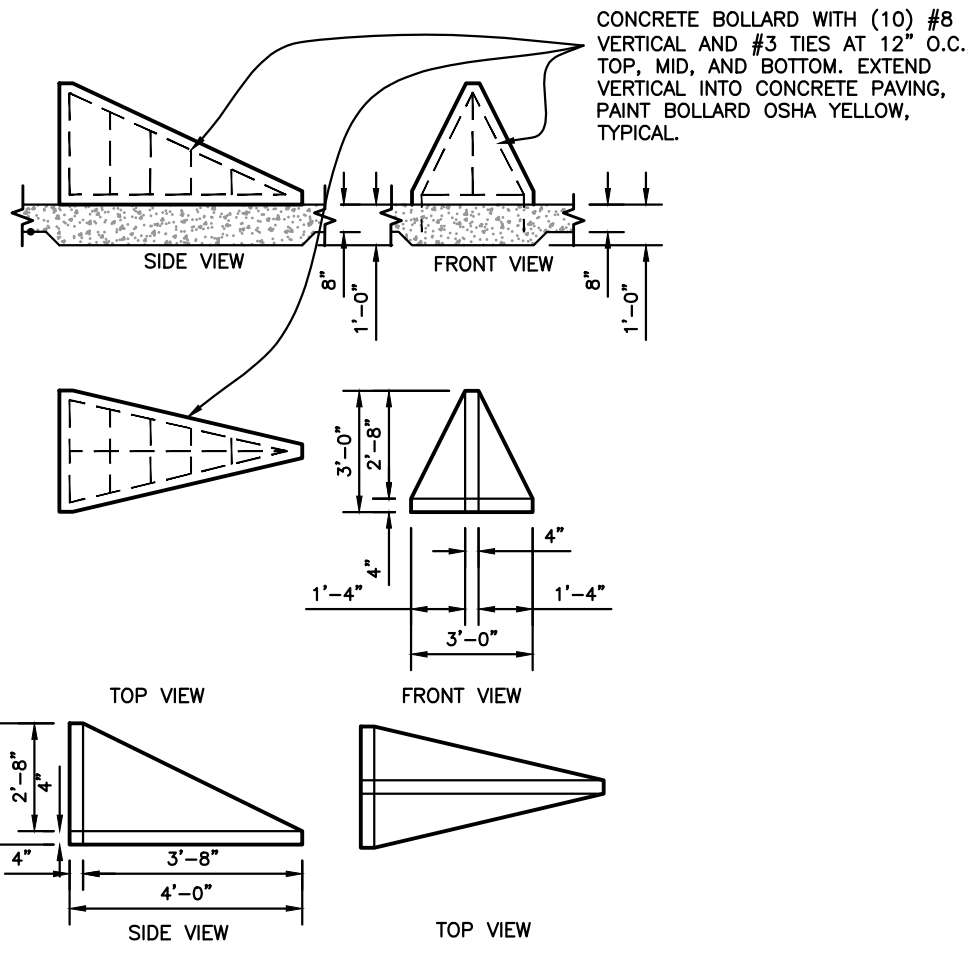
EXIT SIDE

ENTRY SIDE

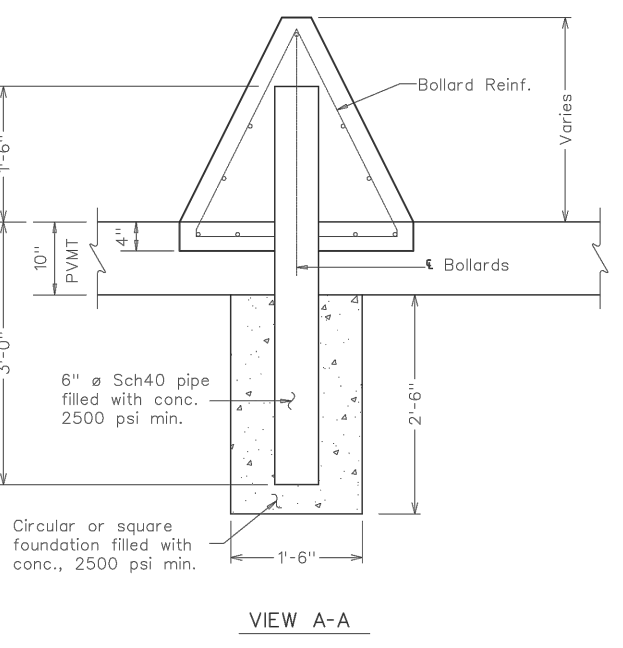
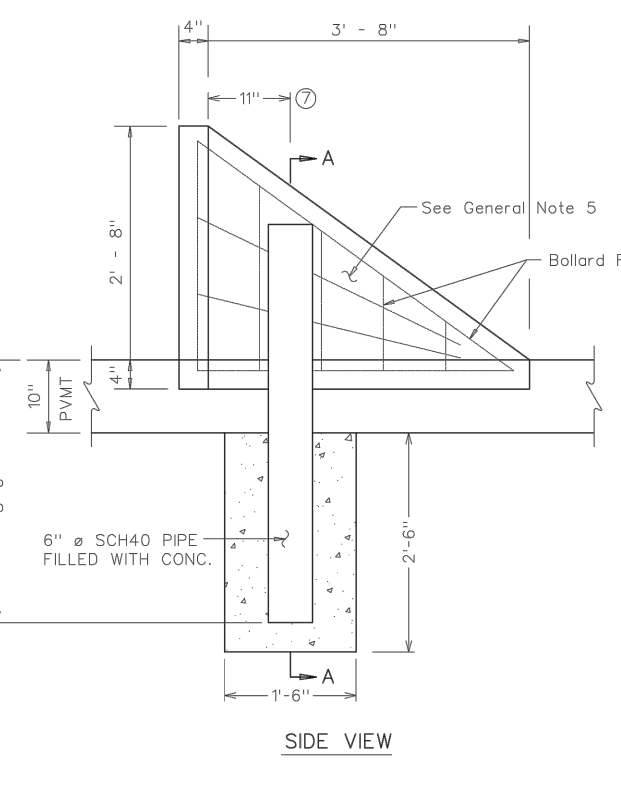
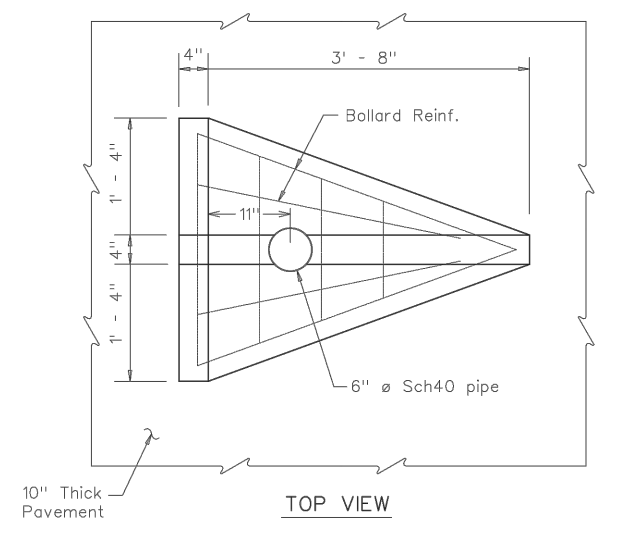
18 PLAN - FUEL PUMP DISPENSERS
SCALE: 1/8"=1'-0"
RE: SITE PLAN

SEE SHEET TFP8A FOR TRUCK CANOPY CAMERA MOUNTING DETAILS

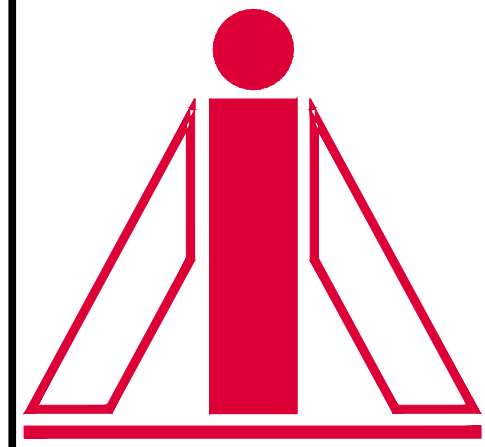
21 PLAN - CANOPY
SCALE: 1/8"=1'-0"
RE: SITE PLAN



09 DIESEL CANOPY - CONCRETE BOLLARD DETAIL
SCALE: N.T.S.
RE: TFP8



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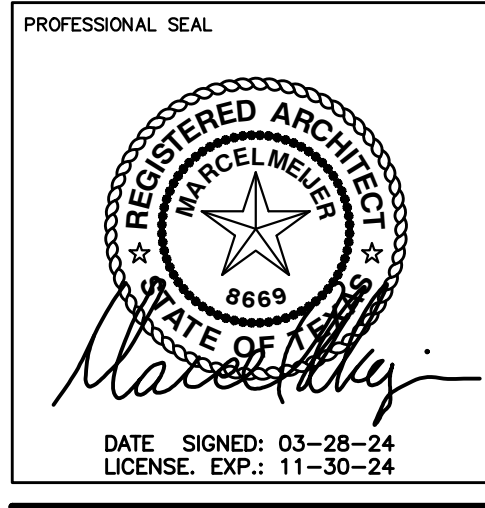
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP8.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
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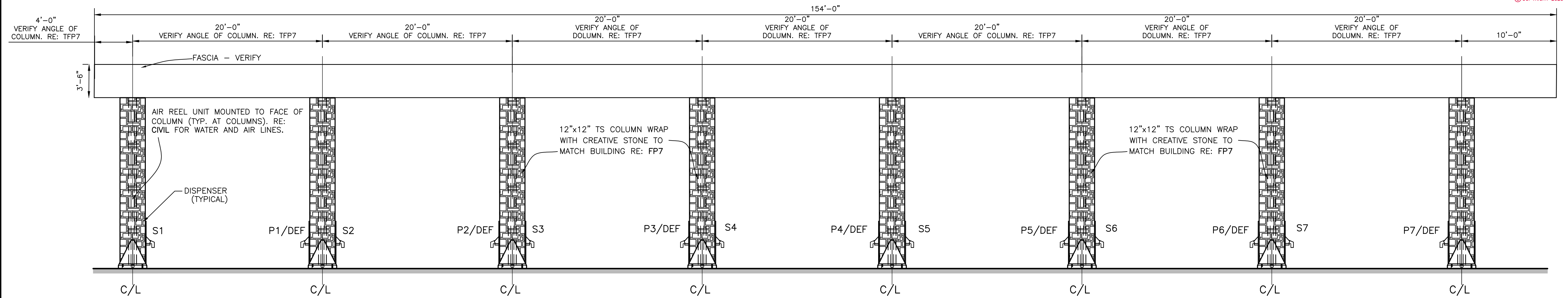
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REVISIONS

NO.	DATE	DESCRIPTION

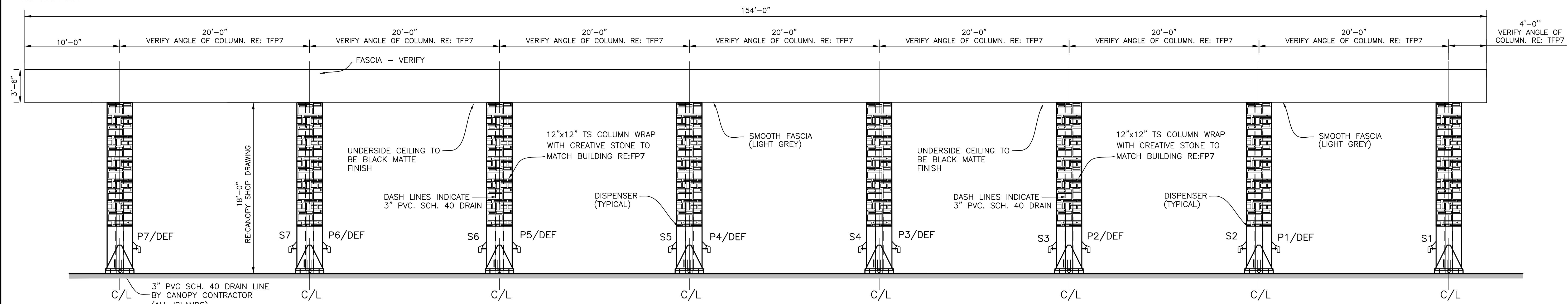
DRAWN BY: _____ CHECKED BY: _____ DATE: _____
SHEET TITLE
FUEL PRODUCT CANOPY ELEVATIONS

DRAWING NUMBER
TFP8
SHEET NO.



23 ELEVATION OF CANOPY (LOOKING FROM EXIT SIDE)

SCALE: 3/16" = 1'-0"
RE: SITE PLAN

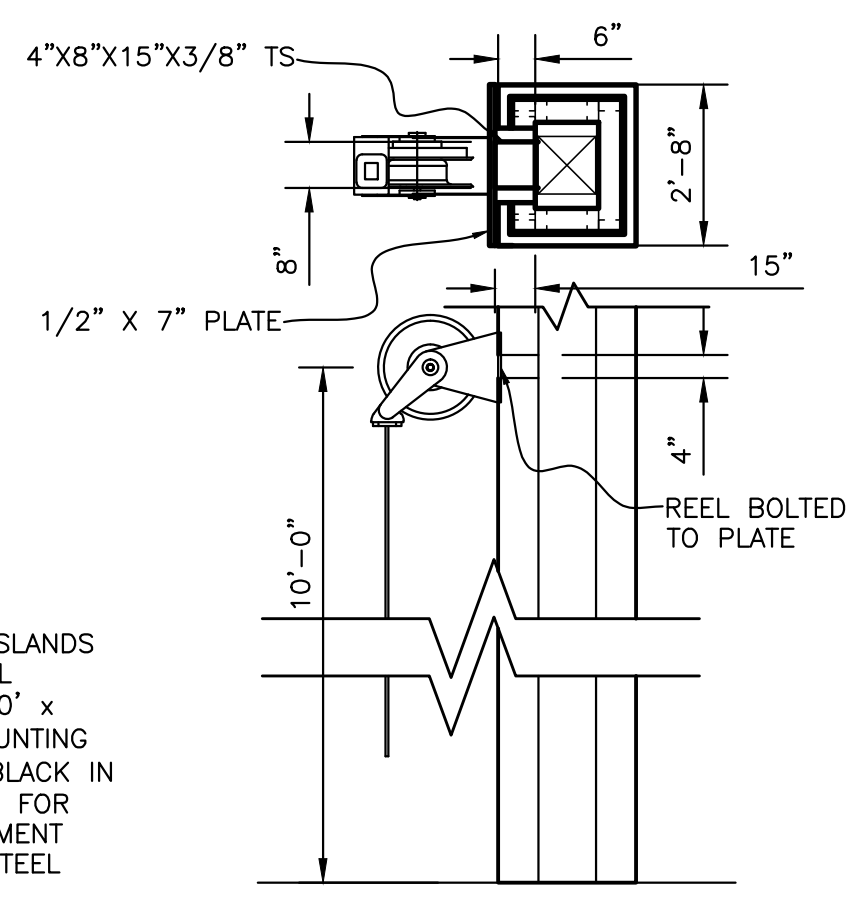


22 ELEVATION OF CANOPY (LOOKING FROM ENTRY SIDE)

SCALE: 3/16" = 1'-0"
RE: SITE PLAN

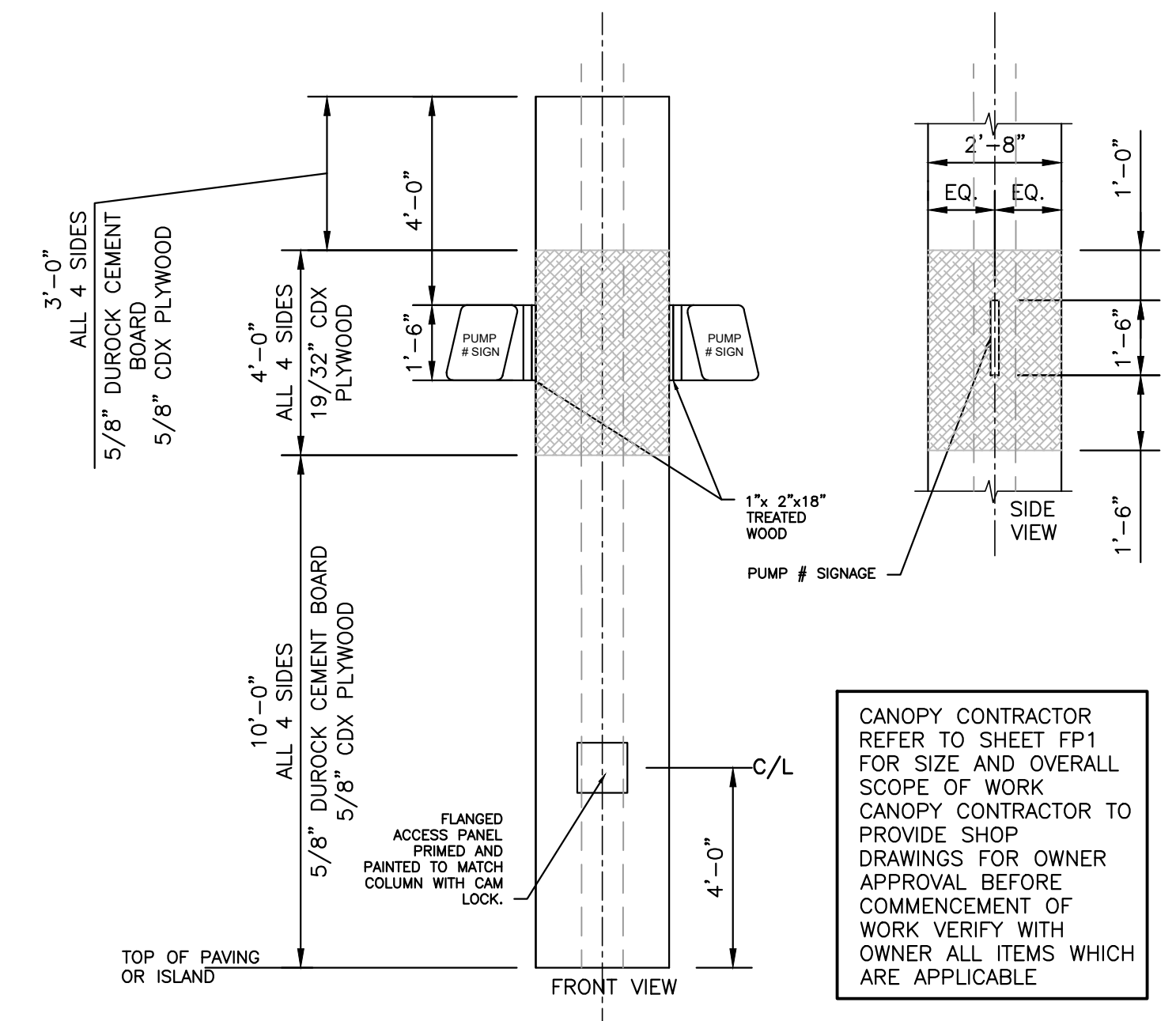
SEE SHEET TFP8A FOR TRUCK CANOPY CAMERA MOUNTING DETAILS

NOTES:
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL BEFORE COMMENCEMENT OF WORK. VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE.



21 DIESEL CANOPY AIR REEL DETAIL

SCALE: N.T.S.
RE: TFP8



17 TYPICAL ELEVATION OF CANOPY COLUMN

SCALE: N.T.S.
RE: SITE PLAN

NOTES:
CABINET AND FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. RE - FIRE SHEET

NOTE:
CANOPY CONTRACTOR REFER TO SHEET TFP1 FOR SIZE AND OVERALL SCOPE OF WORK

NOTE - MINIMUM FUEL CANOPY DESIGN CRITERIA:
WIND LOAD _____ 139 MPH
W/ 3 SEC. GUST OF 139.0 MPH

308.1 GENERAL REACH RANGES SHALL COMPLY WITH 308.

NOTE:
VEHICLE PROTECTION: IN COMPLIANCE WITH SECTIONS 312.2 AND 2306.7.3

DISPENSER HOSE: HOSES SHALL BE A MAXIMUM OF 18 FEET LENGTH PER SECTION 2206.7.5

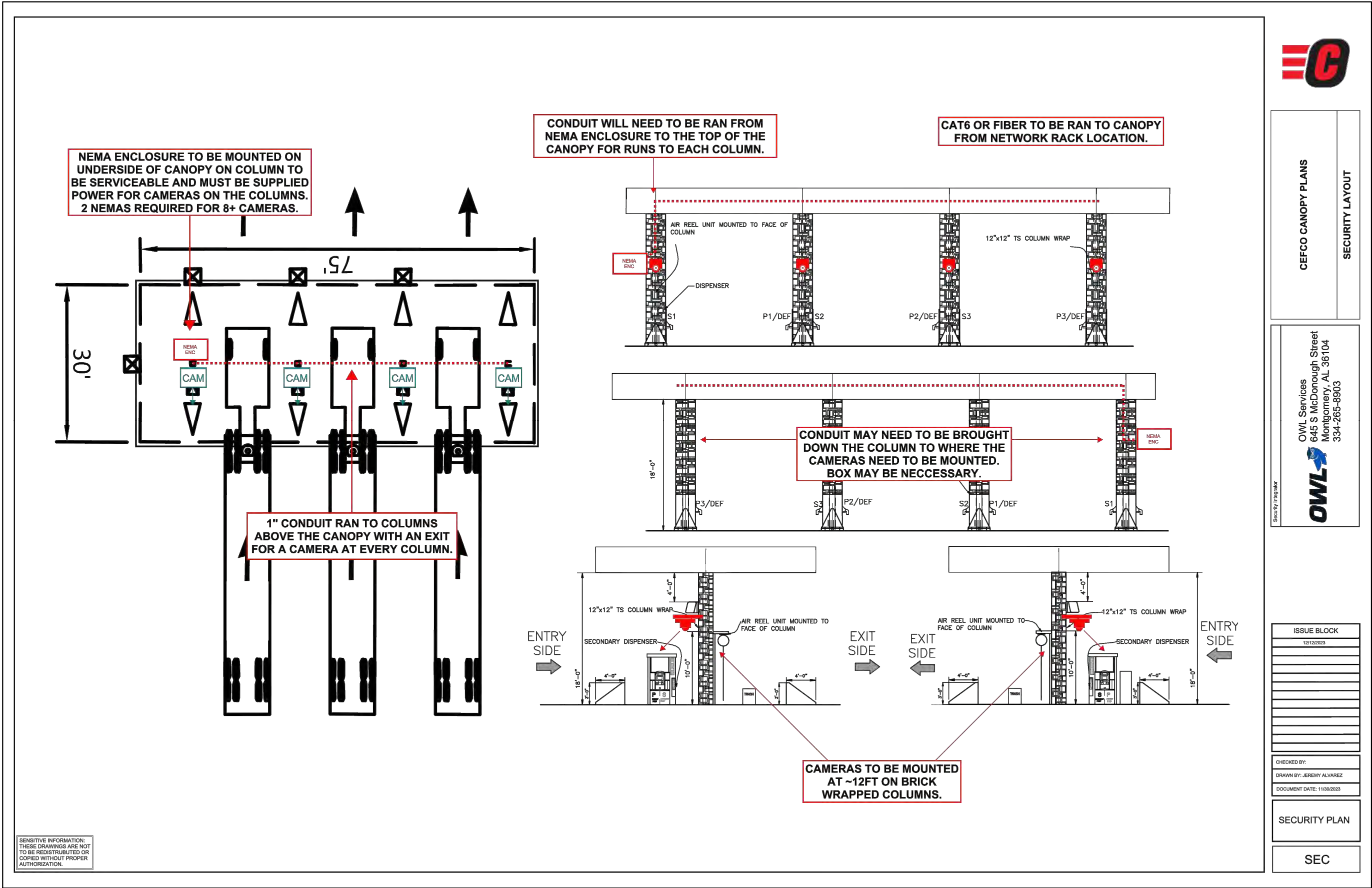
BREAKAWAY DEVICES: TO COMPLY WITH UL LISTED BREAKAWAY DEVICE FOR EACH HOSE PER SECTION 2206.7.5.1

FIRE EXTINGUISHERS: TO COMPLY WITH SECTION 205.

WARNING SIGNS: TO COMPLY WITH PER SECTION 2205.6

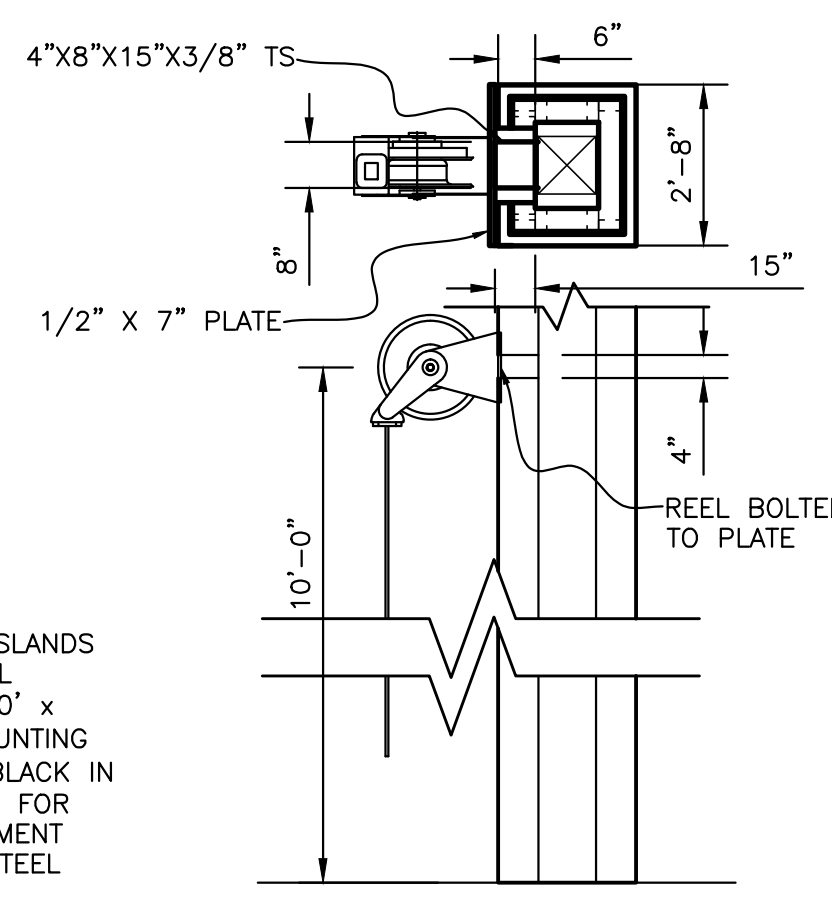
NOTE:
WARNING SIGNS IN ACCORDANCE WITH 2021 IFC SHALL BE POSTED. (or latest issue)
- NO SMOKING
- SHUT OFF MOTOR
- DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM NOZZLE. TO PREVENT STATIC CHARGE, DO NOT REENTER YOUR VEHICLE WHILE GASOLINE IS PUMPING.
- IF A FIRE STARTS, DO NOT REMOVE NOZZLE - BACK AWAY IMMEDIATELY
- IT IS UNLAWFUL AND GENEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS.
- NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE. PLACE CONTAINER ON GROUND BEFORE FILLING.

NOTE:
 1. NEMA BOX SHOULD BE CLOSER TO THE BLDG.
 2. WE SHOULD USE CAT6 NOT FIBER.
 3. WE SHOULD PULL 2 CAT6 FROM BACK OFFICE TO THE NEMA ENCLOSURE AND FROM NEMA ENCLOSURE WILL BE CAT 6 HOME RUNS TO EACH COLUMN/CAMERA.
 4. MOUNT CAMERAS AT THE CENTER OF THE FLAG SIGN ON THE OPPOSITE SIDE (±13'-6").

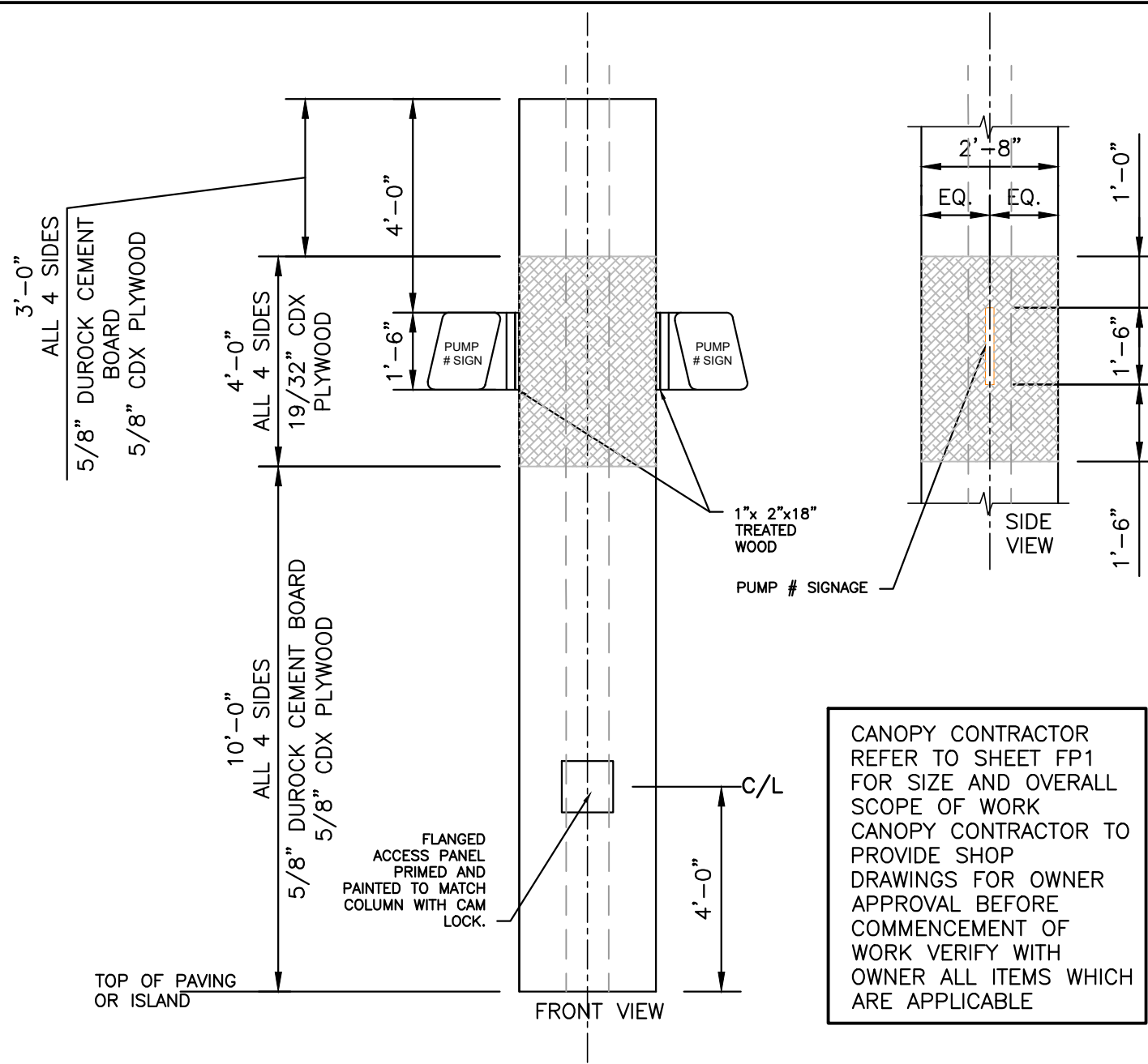


TYPICAL TRUCK CANOPY CAMERA MOUNTING DETAILS

NOTES:
 CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL BEFORE COMMENCEMENT OF WORK VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE

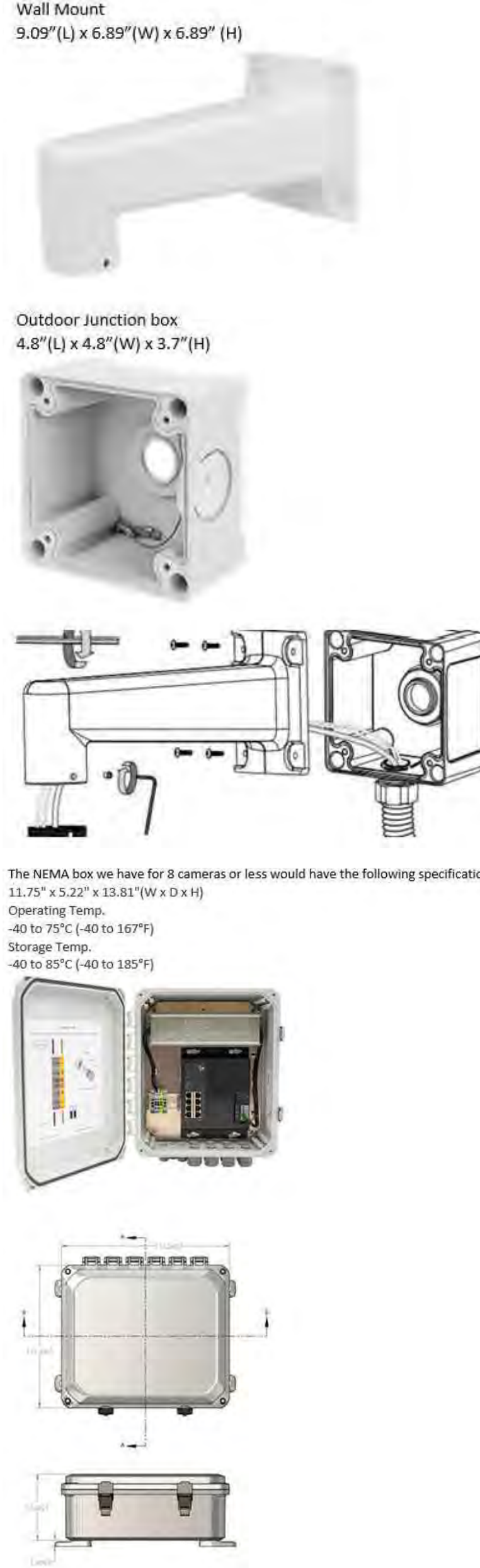


21 DIESEL CANOPY AIR REEL DETAIL
 SCALE: N.T.S.
 RE: TFP8



17 TYPICAL ELEVATION OF CANOPY COLUMN
 SCALE: N.T.S.
 RE: SITE PLAN

MOUNTING DETAILS



7 SIDE ELEVATION
 SCALE: 3/16" = 1'-0"
 RE: SITE PLAN

6 SIDE ELEVATION
 SCALE: 3/16" = 1'-0"
 RE: SITE PLAN

NOTES:
 CABINET AND FIRE EXTINGUISHER SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. RE - FIRE SHEET

NOTE:
 CANOPY CONTRACTOR REFER TO SHEET TFP1 FOR SIZE AND OVERALL SCOPE OF WORK

NOTE - MINIMUM FUEL CANOPY DESIGN CRITERIA:
 WIND LOAD _____ 139 MPH
 W/ 3 SEC. GUST OF 139.0 MPH

308.1 GENERAL REACH RANGES SHALL COMPLY WITH 308.

NOTE:
 VEHICLE PROTECTION: IN COMPLIANCE WITH SECTIONS 312.2 AND 2306.7.3

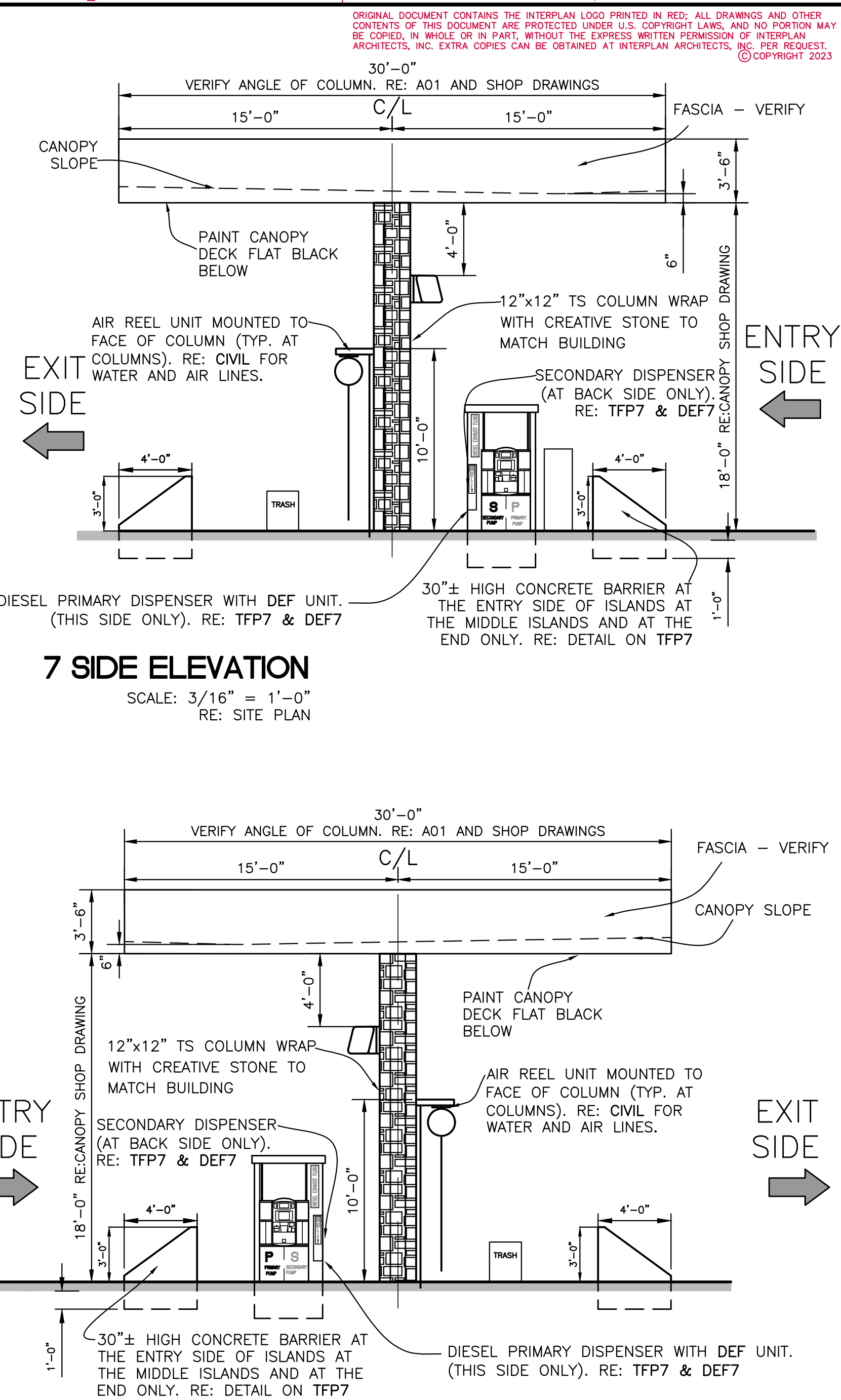
DISPENSER HOSE: HOSES SHALL BE A MAXIMUM OF 18 FEET LENGTH PER SECTION 2206.7.5

BREAKAWAY DEVICES: TO COMPLY WITH UL LISTED BREAKAWAY DEVICE FOR EACH HOSE PER SECTION 2206.7.5.1

FIRE EXTINGUISHERS: TO COMPLY WITH SECTION 205.

WARNING SIGNS: TO COMPLY WITH PER SECTION 2205.6

NOTE:
 WARNING SIGNS IN ACCORDANCE WITH 2021 IFC SHALL BE POSTED. (or latest issue)
 - NO SMOKING
 - SHUT OFF MOTOR
 - DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM NOZZLE. TO PREVENT STATIC CHARGE, DO NOT REENTER YOUR VEHICLE WHILE GASOLINE IS PUMPING.
 - IF A FIRE STARTS, DO NOT REMOVE NOZZLE - BACK AWAY IMMEDIATELY
 - IT IS UNLAWFUL AND GENEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS.
 - NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE. PLACE CONTAINER ON GROUND BEFORE FILLING.



6 SIDE ELEVATION
 SCALE: 3/16" = 1'-0"
 RE: SITE PLAN

7 SIDE ELEVATION
 SCALE: 3/16" = 1'-0"
 RE: SITE PLAN



INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

PROJECT NUMBER
 CEF22-TFP8.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
 F2501-B SERIES
 RIGHT FACING

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
 FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
FUEL PRODUCT CANOPY ELEVATIONS

DRAWING NUMBER
TFP8A

PERFORMANCE SPECIFICATIONS

1 GENERAL CONDITIONS

PART 1 - GENERAL

- 1.1 SCOPE OF WORK: THE WORK INCLUDED IN THE CONTRACT FOR THIS PROJECT CONSISTS OF THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETE CONSTRUCTION OF AN UNDERGROUND FUEL INSTALLATION FOR THE PROJECT HEREBY REPRESENTED.

PART 2 - AGREEMENT

- 2.1 CONTRACTOR FORM SHALL BE THE OWNER'S "CONSTRUCTION AGREEMENT" DATED, AND RELATED INSURANCE SPECIFICATIONS. A COPY OF THIS CONTRACT IS AVAILABLE THROUGH THE OWNER'S OFFICE OR SITE MANAGER FOR REVIEW.
- 2.2 OWNER: WHENEVER THE WORD "OWNER" APPEARS IN THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, IT SHALL BE DEEMED TO READ: FIKES WHOLESAL, INC.
- 2.3 CONTRACTOR: WHENEVER THE WORD "CONTRACTOR" APPEARS IN THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, IT SHALL BE DEEMED TO READ "GENERAL UNDERGROUND FUEL/DEF INSTALLATION CONTRACTOR."

PART 3 - INTENT OF DRAWINGS AND SPECIFICATIONS

- 3.1 THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PRESCRIBE A COMPLETE WORK OR IMPROVEMENT WHICH THE CONTRACTOR UNDERTAKES TO DO IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DO ALL WORK AS MAY BE NECESSARY TO COMPLETE THE WORK IN A SATISFACTORY AND ACCEPTABLE MANNER.
- 3.2 THE CONTRACTOR SHALL, UPON DISCOVERY, REPORT ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS TO THE OWNER'S CONSTRUCTION MANAGER.
- 3.3 THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH. GENERALLY, THE SPECIFICATIONS DESCRIBE WORK WHICH CANNOT BE READILY IDENTIFIED ON THE DRAWINGS AND INDICATE TYPES, QUALITIES, AND METHODS OF INSTALLATION OF THE VARIOUS MATERIALS AND EQUIPMENT REQUIRED FOR THE WORK. IT IS NOT INTENDED TO MENTION EVERY ITEM OF WORK IN THE SPECIFICATIONS WHICH CAN BE ADEQUATELY SHOWN ON THE DRAWINGS NOR TO SHOW ON THE DRAWINGS ALL ITEMS OF WORK DESCRIBED OR REQUIRED BY THE SPECIFICATIONS EVEN IF THEY ARE NOT MENTIONED IN THE SPECIFICATIONS.
- 3.4 THE CONTRACTOR, SUBCONTRACTORS AND ALL TRADES SHALL EXAMINE THE SITE AND ASCERTAIN EXISTING CONDITIONS PRIOR TO THE START OF THEIR PORTIONS OF THE WORK. BEFORE ORDERING ANY WORK, THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL MEASUREMENTS AT THE SITE. ANY DIFFERENCES WHICH MAY BE FOUND BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S ATTENTION FOR CONSIDERATION BEFORE PROCEEDING WITH THE ACTUAL DIMENSIONS AND MEASUREMENTS INDICATED ON DRAWINGS UNLESS A SUBSTANTIAL ERROR HAS BEEN MADE. IF SUCH AN ERROR SHOULD OCCUR, IT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- 3.5 THE ORGANIZATION OF SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS, AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY MANUFACTURER OF THE DRAWINGS AND SPECIFICATIONS.
- 3.6 DRAWINGS AND SPECIFICATIONS: DRAWINGS INDICATE GENERAL DESIGN AND ARRANGEMENTS. DRAWINGS ARE DIAGRAMATIC AND ARE NOT SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND EQUIPMENT TO BE FURNISHED. VERIFY DIMENSIONS IN THE FIELD.

PART 4 - RESPONSIBILITY OF THE CONTRACTOR

- 4.1 CONTRACTOR HEREBY DECLARES HE HAS READ ALL SPECIFICATIONS AND EXAMINED THE DRAWINGS AND THAT HE UNDERSTANDS ALL CONDITIONS.
- 4.2 CONTRACTOR HEREBY DECLARES HE HAS VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS OF THE CONTRACT. NO ALLOWANCES WILL BE MADE SUBSEQUENTLY ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. IF, IN THE PERFORMANCE OF THE CONTRACT, LATENT CONDITIONS AT THE SITE ARE FOUND TO BE MATERIALLY DIFFERENT FROM THOSE INDICATED BY THE DRAWINGS AND SPECIFICATIONS, OR UNKNOWN CONDITIONS UNUSUALLY INHERENT IN WORK OF THIS CHARACTER SHOWN AND SPECIFIED, THE ATTENTION OF THE OWNER AND THE OWNER'S AGENT SHALL BE CALLED IMMEDIATELY TO SUCH CONDITIONS BEFORE THEY ARE DISTURBED.
- 4.3 CONTRACTOR HEREBY DECLARES THAT HE HAS READ AND IS FAMILIAR WITH THE APPLICABLE SOILS REPORT. CONTRACTOR SHALL BE RESPONSIBLE FOR STRICTLY ADHERING TO THE RECOMMENDATIONS OF SAID SOILS REPORT FOLLOWING ALL APPLICABLE PROCEDURES NOTED THEREIN. EXISTING WATER TABLE UTILIZATION OF TANK STRIPS AND TYPE OF BACKFILL MATERIAL SHOULD GROUND WATER OR CONTAMINATION BE DISCOVERED DURING TANK EXCAVATION, WORK SHALL BE SUSPENDED PENDING REVIEW BY OWNER/OWNER'S AGENT OR REPRESENTATIVE.
- 4.4 CONTRACTOR SHALL REPORT ANY OBJECTION TO MATERIALS, APPLIANCES, OR METHODS OF CONSTRUCTION SHOWN OR SPECIFIED TO THE OWNER/OWNER'S AGENT AND OBTAIN A DECISION BEFORE PROCEEDING.
- 4.5 PROPOSALS: CONTRACTOR SHALL SUBMIT BID ON OWNER'S FORM "UNDERGROUND FUEL INSTALLATION BID ANESTIMATE FORM". PROPOSALS SUBMITTED ON ANY OTHER FORM SHALL BE REJECTED AND RETURNED. PROPOSALS NOT COMPLETELY FILLED OUT SHALL BE REJECTED. PROPOSALS SHALL INCLUDE MONIES FOR REMOVAL OF ALL EXISTING IMPROVEMENTS AS REQUIRED FOR UNDERGROUND FUEL INSTALLATION.
- 4.6 PERMITS: CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING AND PAYING FOR ALL APPLICABLE STATE AND LOCAL PERMITS AND APPLICATIONS RELATED TO THIS WORK. COPIES OF PERMITS AND CERTIFICATES SHALL BE FORWARDED THE OWNER/OWNER'S AGENT OR SITE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. FINAL CERTIFICATION OF ACCEPTANCE BY GOVERNING AUTHORITIES SHALL ALSO BE ON FILE WITH THE OWNER OR SITE CONTRACTOR PRIOR TO THE PROCESSING OF FINAL PAY REQUEST.
- 4.7 INSPECTIONS: CONTRACTOR SHALL BE REQUIRED TO ADHERE TO ALL REQUIREMENTS OF OWNER'S INSPECTION PROGRAM. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR NOTIFICATION, SITE PREPARATION, COMPLIANCE, ON-SITE PRESENCE DURING INSPECTION AND CORRECTION OF ANY DEFECTS OR RELATED PROBLEMS AS DIRECTED BY ALL LOCAL GOVERNMENTAL INSPECTING REPRESENTATIVES. CONTRACTOR SHALL PROVIDE NO LESS THAN 48 HOURS NOTICE PRIOR TO INSPECTION.
- 4.8 COORDINATION: UNDERGROUND FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL PHASES OF THE FUEL INSTALLATION WITH THE GENERAL CONTRACTOR IN CHARGE OF THE BUILDING OR MAJOR PORTION OF THE PROJECT. THE BUILDING GENERAL CONTRACTOR AND THE UNDERGROUND FUEL CONTRACTOR SHALL JOINTLY DEVELOP A MUTUALLY AGREEABLE SCHEDULE AND TIMETABLE FOR COMPLETION OF THE UNDERGROUND FUEL INSTALLATION. TIMETABLE FOR BUILDING AND UNDERGROUND FUEL SHALL COINCIDE AND COMPLIMENT EACH OTHER SO THAT ONE DOES NOT DELAY THE OTHER SHOULD UNDERGROUND FUEL CONTRACTOR FAIL TO MEET DEADLINES AS ESTABLISHED BY THE SCHEDULE AND/OR HOLD UP THE COMPLETION OF THE OVERALL BUILDING PROJECT. THE OWNER/OWNER'S AGENT RESERVES THE RIGHT TO RECTIFY THE SITUATION ACCORDINGLY.
- 4.9 CONTRACTOR SHALL PROVIDE OWNER WRITTEN CERTIFICATION AS TO THE FOLLOWING:
- 4.9.1 CERTIFICATION FROM LOCAL/STATE GOVERNING AUTHORITIES AS APPLICABLE FOR CONTRACTOR CERTIFICATION/LICENSING FOR INSTALLATION OF UNDERGROUND FUEL STORAGE TANK SYSTEM.
- 4.9.2 CERTIFICATION FROM EQUIPMENT MANUFACTURERS AND SUPPLIERS (TANKS, PRODUCT LINES, GTMS, ETC.) AS TO ATTENDING AND ACHIEVING CERTIFICATION FROM APPROPRIATE COMPANY FOR INSTALLATION OF EQUIPMENT.
- 4.9.3 CERTIFICATION ON APPROPRIATE FORMAT AS TO INSTALLATION OF COMPLETE SYSTEM BEING PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
- 4.9.4 CERTIFICATION THAT ALL EQUIPMENT EITHER SUPPLIED BY OWNER OR CONTRACTOR HAS BEEN INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS BY PERSONNEL TRAINED AND QUALIFIED FOR THAT SPECIFIC ITEM.
- 4.10 PAYMENTS SHALL BE MADE AS PER THE CONTRACT.
- 4.11 LIENS: CONTRACTOR SHALL PERMIT NO LIENS OF ANY KIND TO BE FIXED UPON OR AGAINST THE PROPERTY BY ITS LABORERS, MECHANICS OR MATERIALMEN, AND SHALL INDEMNIFY, PROTECT AND SAVE OWNER HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND LIENS.
- 4.12 EQUIPMENT RESPONSIBILITY: CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, RECEIVING, UNLOADING, HANDLING AND PROVIDING PROTECTED INSIDE STORAGE FOR ALL OWNER SUPPLIED EQUIPMENT AND MATERIAL. CONTRACTOR SHALL INSPECT EQUIPMENT UPON RECEIPT AND IMMEDIATELY REPORT ANY DAMAGE DUE TO SHIPPING TO THE OWNER/OWNER'S AGENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS. DISPENSERS SHALL BE PROTECTED WITH SHIPPING BOXES UNTIL STORE IS TURNED OVER FOR OPENING. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUATE AND LOCKED STORAGE OF OWNER'S MISCELLANEOUS EQUIPMENT, TO INCLUDE FUEL CONSOLE, PRIOR TO OPENING OF THE STORE.
- 4.13 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FILING OF RECEIVING FORMS AND MISCELLANEOUS CONFIRMATION OF EQUIPMENT RECEIVING INFORMATION AS REQUIRED BY THE OWNER.
- 4.14 CONTRACTOR SHALL PROVIDE ALL PLUMBING, WIRING, MATERIALS, AND LABOR AS REQUIRED TO INSTALL OWNER SUPPLIED EQUIPMENT INCLUDING MONIES BID PROPOSAL FOR INSTALLATION OF OWNER'S SUPPLIED EQUIPMENT UNLESS NOTED OTHERWISE.

1 GENERAL CONDITIONS - continued

PART 5 - PROTECTION

- 5.1 CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY HIM OR HIS WORKMEN TO THE PROPERTY OR EQUIPMENT OF THE OWNER, OR TO THE WORK OR MATERIALS OF OTHER CONTRACTORS. CONTRACTOR SHALL MAKE GOOD ANY LOSS, DAMAGE OR INJURY WITHOUT COST TO OWNER FOR SUCH LOSS OR DAMAGE.
- 5.2 CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY SIDEWALKS, FENCES, LIGHTS, SIGNS OR OTHER STRUCTURES AND DEVICES AS REQUIRED BY LAW. DO NOT OBSTRUCT OR INTERFERE WITH TRAFFIC IN PUBLIC STREETS, ALLEYS OR PRIVATE RIGHT-OF-WAYS. IF WORK IS SUSPENDED, KEEP ALL ROADWAYS AND SIDEWALKS IN PROPER CONDITION AND PUT AND LEAVE THEM IN PROPER CONDITION AT TERMINATION OF WORK.
- 5.3 CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS AND PERFORM ALL WORK REQUIRED FOR THE CARE, PROTECTION AND MAINTENANCE OF PUBLIC UTILITIES ON AND AROUND THE BUILDING SITE, ASSUMING ALL RESPONSIBILITY AND PAYING ALL COST FOR WHICH THE CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS AND PERFORM ALL WORK REQUIRED FOR THE CARE, PROTECTION AND MAINTENANCE OF PUBLIC UTILITIES ON AND AROUND THE BUILDING SITE, ASSUMING ALL RESPONSIBILITY AND PAYING ALL COST FOR WHICH THE CONTRACTOR HEREBY AGREES TO MAKE ARRANGEMENTS FOR AND TO PAY ALL CHARGES IN CONJUNCTION WITH THE RELOCATIONS OF EXISTING UTILITIES AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL UTILITY EASEMENTS, HOOK-UP CHARGES, TAP FEES, SYSTEM DEVELOPMENT FEES AS NECESSARY FOR COMPLETION OF THIS PROJECT.
- 5.4 IF ALL OR PART OF THE WORK IS SUSPENDED FOR ANY REASON, CONTRACTOR SHALL PROPERLY COVER OVER, SECURE AND PROTECT ANY PORTION LIABLE TO SUSTAIN INJURY FROM ANY CAUSE.
- 5.5 PRODUCT PROTECTION: CONTRACTOR SHALL PROVIDE ADEQUATE AND SECURE PROTECTION OF PRODUCT IN TANKS UPON DELIVERY UNTIL TURNED OVER FOR OPERATION. ALL FILL, VENT AND GAUGING CAPS AND/OR OPENINGS SHALL BE SECURED AND PADLOCKED TO PREVENT VANDALISM OR THEFT.

PART 6 - SUBSTITUTION OF MATERIALS

- 6.1 MATERIALS AS SPECIFIED REPRESENT REQUIRED STANDARDS. SUBSTITUTIONS MAY BE PROPOSED IN WRITING WITH ADEQUATE SUPPORTING DATA FURNISHED. USE OF SUBSTITUTE MATERIALS IS DEPENDENT ON RECEIPT OF WRITTEN APPROVAL FROM OWNER/OWNER'S AGENT.

PART 7 - COMPLETION OF CONTRACT

- 7.1 THE CONTRACT SHALL BE CONSIDERED FULFILLED, SAVE AS PROVIDED IN ANY MAINTENANCE STIPULATIONS, BOND OR BY LAW, WHEN ALL THE WORK HAS BEEN COMPLETED WITH FINAL INSPECTION AND ACCEPTANCE MADE BY ALL APPLICABLE GOVERNING BUILDING DEPARTMENTS, FIRE, MARSHALLS OR OTHER JURISDICTIONS.
- 7.2 WORKMANSHIP:
- 7.2.1 FRAME CORNERS AND JOINTS IN RUNNING MATERIALS OF THE SAME CROSS SECTION PROFILE SHALL BE ACCURATELY FITTED TO NEAT CLOSED JOINTS, FREE FROM OFFSETS ACROSS THE FINISH SURFACE.
- 7.2.2 FIXED PARTS OR MEMBERS SHALL BE SECURED TIGHT IN PLACE, FREE FROM DISTORTIONS.
- 7.2.3 FINISHES SHALL BE FREE FROM BUBBLES, STREAKS, PEELING, PITS OR OTHER IRREGULARITIES, EXCEPT WHERE ROUGH MATERIALS MAY BE REQUIRED. FINISH SURFACES SHALL BE FREE FROM DIRT, GREASE, MASTICS, FINGERPRINTS, SCRATCHES, DENTS, CRACKS, STAINS, CHIPS OR OTHER DAMAGING EFFECTS.
- 7.3 CLEANING:
- 7.3.1 ALL WORK SHALL BE CLEAN AND READY FOR USE UPON COMPLETION. REMOVE TEMPORARY TAPES, WRAPPING, COATING, PAPER LABELS AND OTHER ITEMS.
- 7.3.2 CLEANING METHODS FOR PROPRIETARY MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CLEANING SOLUTIONS, AGENTS, SOLVENTS, WAXES OR OTHER MATERIALS SHALL BE ONLY AS APPROVED BY THE MANUFACTURER OF THE MATERIAL INSTALLED IN THE WORK.
- 7.3.3 CLEAN-UP: CONTRACTOR SHALL CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES NEAT AT ALL TIMES.

PART 8 - CODES

- 8.1 THE FOLLOWING CODES ARE MADE A PART OF THIS SPECIFICATION. SAID CODES SHALL DICTATE MINIMAL ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH CONTRACTOR SHALL TAKE PRECEDENCE.
- 8.1.1 NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
- 8.1.2 PEI MANUAL "RECOMMENDED PRACTICES FOR INSTALLATION OF UNDERGROUND LIQUID STORAGE TANKS" #RP-100-90 (OR LATEST EDITION).
- 8.1.3 TEXAS WATER COMMISSION.

PART 9 - WARRANTY / GUARANTEE

- 9.1 EXCEPT WHERE SPECIAL GUARANTEES ARE REQUIRED IN EXCESS OF ONE (1) YEAR, THE CONTRACTOR AGREES TO REPAIR OR REPLACE ANY DEFECT IN MATERIAL OR WORKMANSHIP (BEYOND ORDINARY WEAR AND TEAR) TO THE SATISFACTION OF THE OWNER/OWNER'S AGENT FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE, WHETHER IN HIS WORK OR IN THAT OF SUBCONTRACTOR'S, WITHOUT COST TO THE OWNER.

PART 10 - AS BUILT PLAN AND DOCUMENTATION

- 10.1 UPON COMPLETION OF PROJECT, CONTRACTOR SHALL PROVIDE "AS BUILT SITE PLAN" VERIFYING LOCATION OF IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, PLUMBING AND ELECTRICAL.
- 10.2 CONTRACTOR SHALL KEEP PHOTOGRAPHIC JOURNAL OF ALL PHASES OF THE COMPLETE INSTALLATION. PHOTOGRAPHS ARE TO BE PROPERLY DATED, IDENTIFIED AND FORWARDED TO THE OWNER.

2 INSPECTIONS/TESTING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, SERVICES AND EQUIPMENT REQUIRED TO PROVIDE INSPECTION SERVICES OF THE UNDERGROUND FUEL/DEF INSTALLATION.

PART 2 - INSPECTIONS

- 2.1 INSPECTOR: INSPECTIONS / TESTS SHALL BE PERFORMED BY THE OWNER AND/OR APPOINTED REPRESENTATIVE.
- 2.2 NOTIFICATION: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER/OWNER'S AGENT 48 HOURS PRIOR TO REQUESTED INSPECTION.
- 2.3 SPILLAGE: SHOULD SPILLAGE OF PRODUCT OCCUR AT ANY PHASE OF INSTALLATION OR TESTING, THE OWNER/OWNER'S AGENT IS TO BE NOTIFIED IMMEDIATELY. ESTIMATED LOSS OF PRODUCT AS WELL AS ACTION TAKEN IS TO BE NOTED AND RECORDED.
- 2.4 REPRESENTATIVE: CONTRACTOR AND PLUMBING SUBCONTRACTOR SHALL BE AVAILABLE ON SITE DURING TESTING PROGRAMS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN ANY CONNECTIONS AND/OR REPAIRS AS REQUIRED BEING PERFORMED BY OWNER AS REQUIRED. COST FOR REPAIRS AND/OR CONNECTIONS SHALL BE DEDUCTED FROM CONTRACT AMOUNT AS REQUIRED TO SATISFY THE SITUATION.
- 2.5 PROHIBITED WORK: CONTRACTOR SHALL SCHEDULE WORK SUCH THAT NO HEAVY EQUIPMENT IS OPERATING ON SITE DURING INSPECTION PROGRAMS. NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON SITE AT ANY TIME DURING TEST PROCEDURES.
- 2.6 INSTALLATION REPORTS: SHOULD OWNER OR APPOINTED REPRESENTATIVE BE UNABLE TO BE PRESENT AT SITE FOR PURPOSES OF FILING AN INSPECTION REPORTS, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSPECTION AND FILING OF REPORT WITH THE OWNER'S OFFICE. WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.
- 2.7 TEST FAILURE: SHOULD SYSTEM FAIL ANY PORTION OF TEST PROGRAM, CONTRACTOR SHALL IMMEDIATELY INSTIGATE PROCEDURES AS REQUIRED TO BRING SYSTEM INTO COMPLIANCE. SHOULD FAILURE OF TEST DUE TO FACILITY WORK REQUIRE EXPENDITURE OF ADDITIONAL MONIES FOR RESCHEDULING AND/OR RETESTING OF SYSTEM, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COMPENSATION ACCORDINGLY.
- 2.8 CLEAN-UP: IN THE EVENT PRODUCT SPILLAGE SHOULD OCCUR DURING CONSTRUCTION OR DURING WARRANTY PERIOD DUE TO WORK PERFORMED BY CONTRACTOR, CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AS MAY BE REQUIRED BY THE INSPECTOR.
- 2.9 TEST REPORT: UPON COMPLETION OF TESTING PROGRAMS, REPRESENTATIVE OF TESTING/INSPECTION COMPANY SHALL BE RESPONSIBLE FOR FILING COPIES OF TANK AND PIPING TEST/INSPECTION REPORTS WITH OWNER OR OWNER'S AGENT WITH COPY TO JOB SITE.

2 INSPECTIONS/TESTING - continued

PART 3 - TANK INSTALLATION INSPECTION

- 3.1 SCHEDULE: CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING SCHEDULE SO THAT TANKS ARE TESTED AND SET IN TANK HOLE SAME DAY OF DELIVERY.
- 3.2 EXCAVATION: ALL EXCAVATIONS SHALL BE COMPLETED WITH BEDDING MATERIAL IN PLACE AND READY FOR INSTALLATION PRIOR TO TANK DELIVERY.
- 3.3 ANCHORS: SHOULD ON-SITE CONDITIONS REQUIRE A WET HOLE TYPE INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE PREPARATION OF CONCRETE ANCHORS (DEADMAN) PRIOR TO SCHEDULING TANK DELIVERY (VERIFY WITH OWNER).
- 3.4 STRAPS: SHOULD ON-SITE CONDITIONS REVEAL THE NEED FOR WET HOLE TYPE INSTALLATION, CONTRACTOR SHALL IMMEDIATELY NOTIFY TANK MANUFACTURER AND OWNER/OWNER'S AGENT OF SITUATION. SAID NOTIFICATION WILL BE REQUIRED SO AS TO INCLUDE ANCHOR STRAPS WITH DELIVERY OF TANK PACKAGE.
- 3.5 AIR TEST: TANKS SHALL BE AIR TESTED AS PER MANUFACTURER'S SPECIFICATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS TO PROVIDE COMPLETE AIR TEST INCLUDING, BUT NOT LIMITED TO, AIR COMPRESSOR OF SUFFICIENT SIZE AND CAPACITY, SPECIFIED SOAP MATERIAL AND ACCEPTABLE SOAP APPLICATION EQUIPMENT.
- 3.6 MINIMUM TESTING: FIBERGLASS DOUBLE WALL TANKS AS MANUFACTURED BY HALL TANK COMPANY SHOULD ARRIVE AT THE JOB SITE WITH A MINIMUM OF 4 HR ON THE INTERSTICE. OBSERVE THE VACUUM HOLD TEST FOR AT LEAST ONE (1) HOUR PRIOR TO SETTING THE TANKS. SHOULD THE INTERSTICE NOT HOLD A MINIMUM 4" HG VACUUM, THEN CONTACT THE TANK MANUFACTURER IMMEDIATELY.
- 3.7 OBSERVATION: OWNER AND/OR OWNER'S SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF AIR OR VACUUM TEST, OBSERVATION OF LIFTING, SETTING AND BURIAL OF TANKS.
- 3.8 TANK INSPECTION REPORT: WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

PART 4 - TANK AND LINE TESTING

- 4.1 TEST: PRIOR TO PLACEMENT OF CONCRETE OVER TANKS, A COMPLETE SYSTEM TIGHTNESS TEST INCLUDING TANKS, PRODUCT LINES, STAGE II VAPOR RECOVERY LINES, SECONDARY CONTAINMENT PIPING AND VENT LINES SHALL BE PERFORMED. TESTING SYSTEM SHALL BE AS APPROVED BY THE OWNER'S ENVIRONMENTAL DEPARTMENT AND/OR OWNER'S AGENT.
- 4.2 PRODUCT DELIVERY: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO OWNER/OWNER'S AGENT OF TEST DATE AND VERIFICATION OF NEED FOR TANKS TO BE FILLED WITH PRODUCT PRIOR TO TESTING PROCEDURES. A MINIMUM OF 72 HOURS ADVANCE NOTIFICATION WILL BE REQUIRED FOR PRODUCT DELIVERY.
- 4.3 CONTRACTOR SHALL HAVE REPRESENTATIVES ON SITE TO ACCEPT AND RECORD ALL PRODUCT DELIVERIES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DELIVERY COMPANY THAT NO OVERFILL PROTECTION IS INSTALLED AND TO FOLLOW PROCEDURES FOR DELIVERY AS SITUATION DICTATES.
- 4.4 CONTRACTOR SHALL COMPLETE AND BE RESPONSIBLE FOR THE FOLLOWING PRIOR TO SYSTEM TEST:
- 4.4.1 PIPING: ALL PIPING SHALL BE COMPLETED EXCEPT INSTALLATION OF OVERFILL PROTECTION. OVERFILL PROTECTION SHALL BE INSTALLED UPON COMPLETION OF TEST.
- 4.4.2 VENTS: VENT LINES SHALL BE TESTED UNDERGROUND AND STUBBED UP TO A MINIMUM OF 5' ABOVE FINISHED GRADE.
- 4.4.3 PRODUCT LINES: ALL PRODUCT LINES SHALL BE COMPLETE WITH FIRE VALVES INSTALLED AT ISLAND.
- 4.4.4 WELDS: SUBMERSIBLE PUMPS AND LINES SHALL BE COMPLETELY INSTALLED.
- 4.4.5 VAPOR RECOVERY: ALL PHASE II VAPOR RECOVERY LINES SHALL BE COMPLETE AND CONNECTED AT ISLANDS.
- 4.4.6 FILL PIPES: ALL FILL PHASE I VAPOR RECOVERY AND GAUGING RISERS SHALL BE INSTALLED.
- 4.4.7 SITE PREPARATION: CONTRACTOR SHALL PREPARE TANK AREA FOR PRODUCT DELIVERY AND TANK TESTING PROCEDURES.
- 4.4.8 FILL: CONTRACTOR SHALL PROVIDE TWO FEET BACKFILL OVER TANKS OR PROVIDE ACCEPTABLE INSULATED BLANKETS FOR COVERAGE OF TANKS.
- 4.4.9 WATER: SHOULD WATER BE PRESENT IN TANK HOLE, CONTRACTOR SHALL VERIFY AND NOTIFY OWNER OF STATUS.
- 4.5 PRODUCT REMOVAL: ANY REMAINING PRODUCT IN VENT LINES UPON COMPLETION OF TEST SHALL BE REMOVED BY TESTING COMPANY.
- 4.6 COMPLETION: UPON COMPLETION AND COMPLIANCE WITH SYSTEM TEST PROGRAM, CONTRACTOR SHALL PROCEED WITH COMPLETION OF PROJECT INCLUDING BACKFILL AND CONCRETE PLACEMENT.

PART 5 - START-UP INSPECTION

- 5.1 SCHEDULING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SCHEDULING START-UP AND CHECK-OUT. CONTRACTOR SHALL NOTIFY OWNER AND APPLICABLE MAINTENANCE DEPARTMENT OFFICE A MINIMUM OF 48 HOURS PRIOR TO INTENDED FINAL START-UP AND CHECK-OUT DATE AND TIME.
- 5.2 PERSONNEL: CONTRACTOR PLUMBING SUBCONTRACTOR, AND ELECTRICAL SUBCONTRACTOR SHALL BE AVAILABLE ON-SITE DURING START-UP.
- 5.3 START-UP: PHYSICAL START-UP AND CHECK-OUT OF SYSTEMS AND EQUIPMENT SHALL BE DONE BY AND AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE ONLY. CONTRACTOR SHALL NOT START OR ACTIVATE ANY EQUIPMENT WITHOUT THE SPECIFIC DIRECTIVE OF OWNER'S REPRESENTATIVE. DAMAGE TO ANY OWNER'S EQUIPMENT DUE TO IMPROPER INSTALLATION AND/OR UNAUTHORIZED START-UP WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5.4 SITE COMPLETION: ALL SIGHT PANELS, INCLUDING CANOPY ELEMENTS, SHALL BE COMPLETE. ALL UTILITIES SHALL BE CONNECTED AND OPERATIONAL. ALL LANDSCAPING, INCLUDING SPRINKLER SYSTEMS, SHALL BE COMPLETE.
- 5.5 VERIFICATION: PRIOR TO SCHEDULING OF START-UP, CONTRACTOR SHALL OBSERVE AND VERIFY CORRECTNESS AND COMPLIANCE TO OWNER'S DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING:
- 5.5.1 MANWELLS SHALL BE PROPERLY CENTERED/INSTALLED AT OVERFILLS, SUBMERSIBLES, VAPOR RECOVERY, AUTOGAUGING, OBSERVATION TUBES AND SUMP/RISERS.
- 5.5.2 PROPER HEIGHT OF GRAVEL BACKFILL AROUND SUMP/RISERS.
- 5.5.3 TANK I.D. MARKERS INSTALLED IN CONCRETE AT PROPER LOCATIONS.
- 5.5.4 ALL BRASS GOODS AND FITTINGS PROPERLY INSTALLED, TIGHT AND SECURE.
- 5.5.5 LEAK DETECTORS INSTALLED.
- 5.5.6 PROTECTED FLEX LINES PROPERLY INSTALLED W/O TWIST IN INSTALLATION AID STRIPE.
- 5.5.7 MANWELL EXTENDERS PROPERLY INSTALLED AND SCREWED IN FRAME OF MANWELL SUMP/RISERS, PROPERLY SET AND SEALED TO TANK MANWAY OR FITTINGS AND CLEANED OUT FREE OF DEBRIS AND CONCRETE.
- 5.5.8 TANKS CLEAN AND FREE OF WATER.
- 5.5.9 ISLAND FORM INNER BOXES PROPERLY CLEANED OUT, FREE OF DEBRIS AND CONCRETE.
- 5.5.10 DISPENSERS PROPERLY SET AND SECURED TO ISLAND BOX FRAME AND DISPENSER SUMPS PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.
- 5.5.11 FIRE VALVES SECURED TO FRAME WITH PROPER HARDWARE.
- 5.5.12 PHASE II VAPOR RECOVERY LINES INSTALLED AND SECURED IN PROPER LOCATION.
- 5.5.13 ELECTRICAL CONDUITS SECURED WITH ALL CONNECTIONS COMPLETED. VERIFY COMPLIANCE W/ REQUIREMENTS FOR ISOLATED GROUND WIRING TO JUNCTION BOX CASING.
- 5.5.14 DISPENSER CANOPIES INSTALLED AND LIFTING LUGS REMOVED WITH PROPER PLUGS INSERTED.
- 5.5.15 ALL NOZZLES AND SWIVELS AVAILABLE ON-SITE. INSTALLED PROPER ONLY IF REQUIRED BY GOVERNING AUTHORITIES FOR INSPECTION PURPOSES.
- 5.5.16 ALL INSPECTIONS BY GOVERNING AUTHORITIES COMPLETED AND SIGNED. SIGNED AND COMPLETED PERMIT CARD ON SITE.
- 5.5.17 ELECTRICAL DEVICES INCLUDING LIGHTS, SIGNS AND INTERCOMS PROPERLY INSTALLED, SECURE AND PLUMB.
- 5.5.18 ANY INSPECTION OR WIRING PORTS IN CANOPY COLUMNS COVERED WITH ACCEPTABLE PLATES.
- 5.5.19 VENT LINES PROPERLY SECURED, PROTECTED AND INSTALLED AT PROPER HEIGHT.
- 5.5.20 VERIFICATION OF COMPLIANCE FOR TANK AND LINE TEST AVAILABLE ON SITE.
- 5.5.21 ALL MANWELLS FREE OF CONCRETE AND DEBRIS.
- 5.5.22 MANWELL COVERS PROPERLY PAINTED AND FUNCTIONAL.
- 5.5.23 ALL PAINTING COMPLETE INCLUDING CANOPY, DOWNSPOUTS, METALS AND MISCELLANEOUS METALS.
- 5.5.24 CONCRETE AT ISLANDS AND TANK PAD TRUE, PROPERLY SLOPED AND FINISHED WITH ACCEPTABLE PLATES.
- 5.5.25 ELECTRICAL PANELS PROPERLY COMPLETED TO INCLUDE:
- (A) ONE BREAKER FOR EACH SUBMERSIBLE PUMP, DISPENSER, CONSOLE, AUTOGAUGING, DISPENSER LIGHTS (ALL) AND CANOPY LIGHTS (ALL).
 - (B) GAS PANEL CONTROLLED BY ONE MAIN BREAKER.
 - (C) CONTROL BOXES AND DISTRIBUTION BOXES INSTALLED AND WIRED.
 - (D) INTERCOMS INSTALLATION COMPLETE AND PROPERLY WORKING.
 - (E) CONSOLE INSTALLATION COMPLETE AND FUNCTIONAL.
 - (F) ALL WIRING PROPERLY IDENTIFIED WITH COLOR CODED WIRING.
 - (G) CONDUITS PROPERLY IDENTIFIED.
 - (H) ALL BREAKERS IN "OFF" POSITION.
 - (I) TYPED PANEL SCHEDULE IDENTIFYING EACH BREAKER INSTALLED EACH PANEL.

- 5.6 NOTIFICATION: CONTRACTOR SHALL VERIFY ITEMS AS INDICATED ABOVE PRIOR TO SCHEDULING OF START-UP. MONIES AND/OR TIME LOST AT START-UP DUE TO NON-COMPLIANCE SHALL BE CHARGED TO CONTRACTOR ACCORDINGLY.
- 5.7 LINE TESTING: PRIOR TO SYSTEM START-UP, NYAROSTATIC LINE TEST SHALL BE PERFORMED ON PRODUCT LINES. TESTING METHOD SHALL BE AS APPROVED BY THE OWNER/OWNER'S AGENT. TEST SHALL BE PERFORMED WITH OWNER/OWNER'S AGENT ON SITE.
- 5.8 CATHODIC PROTECTION SYSTEMS: AS APPLICABLE, SHALL BE TESTED FOR EFFECTIVENESS AND COMPLIANCE WITH MANUFACTURER'S CRITERIA.
- 5.9 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

3 EARTHWORK

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO EARTHWORK.

PART 2 - PRODUCTS

- 2.1 FILL MATERIAL: SHALL BE MATERIAL IN COMPLIANCE WITH TANK AND LINE MANUFACTURER'S SPECIFICATIONS.
- 2.1.1 FEA GRAVEL: SHALL BE CLEAN, NATURALLY ROUNDED AGGREGATE WITH A MIX OF PARTICLE SIZES NOT LESS THAN 1/8" OR MORE THAN 3/4".
- 2.1.2 STONE OR GRAVEL CRUSHINGS: SHALL BE WASHED MATERIAL WITH ANGULAR PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2".
- NOTE: MATERIALS MUST MEET ASTM C-33 PARAGRAPH 7.1 FOR QUALITY AND SOUNDNESS. FILL MATERIAL SHALL NOT HAVE MORE THAN 3% PASSING A #8 SIEVE.
- 2.1.3 SAND: (WHEN APPROVED IN WRITING ON A PER PROJECT BASIS). MATERIAL SHALL BE CLEAN, WASHED, INERT, WELL GRANULATED WITH LESS THAN 8% BY WEIGHT PASSING A #200 SIEVE.
- 2.2 GEOTEXTILE MATERIAL: SOIL STABILIZATION FILTER FABRIC MATERIAL SHALL BE ONE OF THE FOLLOWING:
- 2.2.1 PHILLIPS FIBERS, SURPAC 4NP (PHONE #800-845-5737).
- 2.2.2 HOECHST CELANESE CORPORATION TREVIRA S1125 (PHONE #800-845-7597).
- 2.2.3 REEMAY, INC., TYPAR 3401 OR TYPAR 3541 (PHONE #800-321-6271).

PART 3 - EXECUTION

- 3.1 PROTECTIONS: PROVIDE ADEQUATE SHORING, BRACING, PILING, PLANKING AND CRIBBING. LAYOUT. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK. OWNER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IF DISCREPANCIES ARE FOUND BY CONTRACTOR. REPORT DISCREPANCIES TO OWNER/OWNER'S AGENT. SET AND MAINTAIN NECESSARY STAKES, BATTER BOARDS AND REFERENCE POINTS.
- 3.2 EXCAVATION: EXCAVATE TO LINES, ELEVATIONS AND LIMITS REQUIRED BY THE DRAWINGS, PLUS SUFFICIENT DISTANCE AND SPACE TO PERMIT INSTALLATION OF TANKS. EXCAVATE AS REQUIRED, REGARDLESS OF TIME, CONDITION OR MOISTURE CONTENT OF THE MATERIAL ENCOUNTERED. HAUL EXCESS MATERIAL OFF THE SITE AND DISPOSE OF SAME. DIMENSIONS OF TANK EXCAVATION SHALL BE MINIMAL AS ESTABLISHED BY OWNER'S DRAWINGS UNLESS TANK MANUFACTURER REQUIREMENTS ARE GREATER.
- 3.4 PROTECT: IF PAVING MUST BE REMOVED, THE PERIMETER OF THE TANK HOLE AND ALL TRENCHES SHALL BE CUT WITH A CONCRETE SAW. NOTE: PAVING TO BE CUT 2' BEYOND EDGES OF TANK HOLD IN ALL DIRECTIONS IN ORDER TO GIVE PROPER SUPPORT TO NEW SLAB TO AVOID SETTLING.
- 3.5 HAZARDOUS MATERIAL: SHOULD ROCK, WATER OR OTHER HAZARDOUS MATERIALS NOT SHOWN ON SOILS TEST BE ENCOUNTERED, THE OWNER/OWNER'S AGENT SHALL BE IMMEDIATELY CONTACTED FOR APPROVAL TO PROCEED.
- 3.6 PROTECTION: CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION WITH EARTHEN BERMS AT ALL TIMES TO PROTECT TANK HOLE AND TRENCHES FROM DRAINAGE OF SURFACE WATERS. EXCAVATIONS SHALL BE PROPERLY MARKED, PROTECTED AND BARRICADED FOR SAFETY UNTIL BACKFILL IS COMPLETE AND SURFACING FINISHED.
- 3.7 SHORING: CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIREMENTS FOR SHORING AND PROVIDING SAME SHOULD SITE AND/OR SOIL CONDITIONS WARRANT SAME.
- 3.8 FILLING AND BACKFILLING: PLACE APPROVED FILL MATERIAL IN STRICT ACCORDANCE WITH TANK MANUFACTURER'S SPECIFICATIONS. PROVIDE A 12' BED OF APPROVED BACKFILL OVER BOTTOM OF EXCAVATION PRIOR TO TANK PLACEMENT. BACKFILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 6" LIFTS.
- 3.9 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

Dissel 28 K Labeled 28				
UPP Piping				
Item	Failed	Passed	Needs Work	Notes
All welded joints are marked correctly with time stamps and fitting lines.				
Piping joints are sealed and installed correctly.				
Pipe has proper separation from side walls and conduit.				
6" of pea gravel bedding.				
50 PSI of air on lines and fittings soaped with no leaks.				
5 PSI of air on the double wall pipe lines soaped with no leaks.				
Sump penetrations installed correctly.				
Vent Lines run properly with 1/8 inch per foot slope back to the tank.				
Water present to the top of the sump and has been for 24 hours before inspection.				
Sumps are sealed with pea gravel or boards correctly with no voids under the sumps.				
Spill and vapor buckets are full of water with no leaks.				
Shiver valves are anchored correctly.				
Elevation of finished concrete string pulled across tanks to check for correct height of risers. Before inspection.				
All ditches and tank holes is free of debris before back fill.				
Sump penetrations installed correctly.				
Doesn't connect to PVC until out of the tank hole.				
Proper Cable Tie Connections are used.				
Conduit is installed filled with water no leaks.				



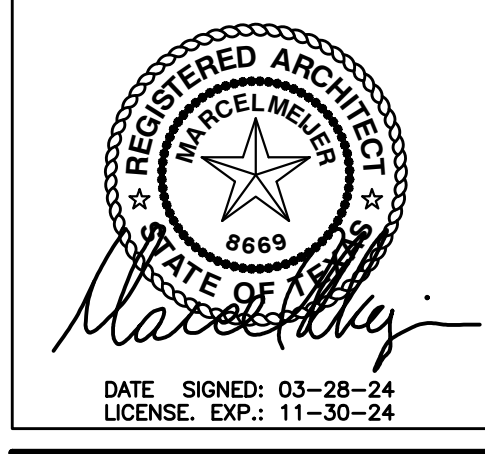
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP9.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESAL, INC.

PROFESSIONAL SEAL



DRAWINGS ISSUED FOR:

DATE	ISSUED FOR
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT

This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION
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DRAWN BY: CHECKED BY: DATE

SHEET TITLE

FUEL PRODUCT SPECIFICATIONS

DRAWING NUMBER SHEET NO.

TFP9

PERFORMANCE SPECIFICATIONS

4 TANK INSTALLATION

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE INSTALLATION OF UNDERGROUND FUEL STORAGE TANKS.

PART 2 - PRODUCTS

- 2.1 TANKS: SHALL BE DESIGNED AND MANUFACTURED SO AS TO BE CORROSION PROTECTED PER EPA REQUIREMENTS.
- 2.2 HOLD DOWN STRAPS: STRAPS AS REQUIRED BY SOILS/WATER CONDITION SHALL BE SUPPLIED BY TANK MANUFACTURER ONLY. FIELD FABRICATED UNITS ARE NOT ACCEPTABLE.

PART 3 - INSTALLATION

- 3.1 MANUFACTURING: REFER TO TANK MANUFACTURER'S CRITERIA AND SPECIFICATIONS FOR TANK INSTALLATION AND ADHERE TO AS REQUIRED.
- 3.2 CLEARANCES: MINIMUM CLEARANCE FOR TANKS SHALL BE AS FOLLOWS: SHOULD REQUIREMENTS OF TANK MANUFACTURER OR SOIL CONDITIONS DICTATE GREATER CLEARANCE, ADHERE TO ACCORDINGLY.
 - 3.2.1 BOTTOM: PROVIDE MINIMUM OF 12" BEDDING MATERIAL BETWEEN BOTTOM OF EXCAVATION OR PAD AND BOTTOM OF TANK.
 - 3.2.2 SIDES: PROVIDE MINIMUM OF 20" BETWEEN TANKS AND 20" FROM SIDE/END OF TANK TO WALL OF EXCAVATION.
 - 3.2.3 TOP: PROVIDE 36" FILL MATERIAL OVER TANK PLUS 8" OF CONCRETE.
- 3.3 TESTING: PRIOR TO INSTALLATION OF TANKS, TEST PER TANK MANUFACTURER'S SPECIFICATIONS SHALL BE PERFORMED ON TANK. ON DUAL WALL TANKS, CONSULT TANK MANUFACTURER FOR TESTING CRITERIA, BUT MINIMUM 4" HG VACUUM MUST BE HELD ON INTERSTITIAL SPACE FOR AT LEAST ONE (1) HOUR.
- 3.4 PLACEMENT:
 - 3.4.1 REFER TO SITE PLAN FOR TANK PLACEMENT AND PRODUCT ROTATION.
 - 3.4.2 PRIOR TO SETTING OF TANKS, REMOVE ALL FOREIGN DEBRIS, ROCKS, CLODS, GARBAGE, ETC. FROM EXCAVATION.
 - 3.4.3 PLACE TANKS ONLY ON APPROVED FILL. DO NOT WORK ON CONCRETE OR WOOD.
 - 3.4.4 SLOPE TANKS 2" MINIMUM AND 4" MAXIMUM TOWARDS END WITH FILL OPENING.
 - 3.4.5 TANKS SHALL BE SET TO THE DEPTH AS SHOWN ON DRAWINGS.
- 3.5 FUEL DRAWINGS: TANKS MAY REQUIRE GREATER BURIAL DEPTH IF INSTALLED IN REMOTE POSITION TO ALLOW FOR PROPER SLOPE ON VENT LINES. VERIFY DEPTH AS REQ. PIPES: AN UNUSUAL PIPES SILLATION, REMOVE, APPLY COMPATIBLE NON-HARDENING PIPE SEALANT TO INTERNAL BUSHING THREADS. PERMANENT METAL FLUSH SHALL BE INSTALLED AT ALL UNUSED OPENINGS.
- 3.6 N/A

- 3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT IN TANK EXCAVATIONS, ANCHORING SHALL BE REQUIRED.
 - 3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT BY WELL POINT SYSTEM(S) AND PROPERLY SIZED PUMP(S).
 - 3.7.2 ANCHORS: DEADMAN SHALL BE CONSTRUCTED OF CONCRETE AS DETAILED IN DRAWINGS AND AS PER TANK MANUFACTURER'S RECOMMENDATIONS. PLACE 12" FROM OUTSIDE VERTICAL LINE OF TANK(S) AS SHOWN ON DRAWINGS.
 - 3.7.3 TIE DOWNS: STRAPPING MATERIAL SHALL BE AS PER TANK MANUFACTURER'S REQUIREMENTS.
 - 3.7.4 TURNBUCKLES: TO REMOVE CABLE SLACK, UTILIZE 5/8" JAW TYPE TURNBUCKLES, ONE EACH SIDE OF TANK (2 PER STRAP).
 - 3.7.5 STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS.
 - 3.7.6 INSULATION: TANKS SHALL BE INSULATED FROM TIEDOWNS BY PLACEMENT OF APPROVED DI-ELECTRIC INSULATION BETWEEN STRAP AND TANK. MATERIAL SHALL BE PETROLEUM RESISTANT MATERIAL AS APPROVED BY TANK MANUFACTURER.
 - 3.7.7 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF FOOD-SAFE ALTERNATIVE WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL ON ABOVE LEVEL OF BACKFILL.
 - 3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S RECOMMENDATIONS, UTILIZING LIFTING LUGS PROVIDED ON TANKS. TANKS SHALL NOT BE ROLLED, DROPPED OR WRAPPED WITH CHAINS. EQUIPMENT OF SUFFICIENT SIZE, DESIGN AND LIFT CAPACITY SHALL BE UTILIZED FOR SETTING OF TANKS. SHOULD TANKS BE BUMPED, DENTED, DROPPED OR MISHANDLED IN ANY WAY, INSTALLATION SHALL BE HALTED AND TANK MANUFACTURER'S REPRESENTATIVE IMMEDIATELY CONTACTED FOR RECERTIFICATION OF TANKS. CONTACT LOCAL CONSTRUCTION OFFICE OR SITE MANAGER IMMEDIATELY UPON NOTICE OF QUESTIONABLE HANDLING OF TANKS OR NOTABLE DAMAGE THERETO.
 - 3.9 BACKFILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE, CAREFULLY BACKFILL ENTIRE EXCAVATION, HAND SHOVELING AND TAMPING ALONG BOTTOM OF TANK(S) SO THEY ARE EVENLY SUPPORTED AROUND BOTTOM. SPECIAL ATTENTION SHALL BE PAID TO BOTTOM QUARTER POINTS ELIMINATING ANY VOIDS IN FILL AT THESE POINTS. DO NOT DROP BACKFILL FROM HIGH DISTANCE ONTO TANKS. TAMP AS REQUIRED TO ACHIEVE ACCEPTABLE DENSITY.
 - 3.10 BALLASTING: IF GROUND WATER IS PRESENT, TANKS MAY BE FILLED WITH BALLAST (PRODUCT TO BE STORED IN TANK OR WATER) TO AVOID SHIFTING MOVEMENT. IF WATER IS INSTALLED, COST OF WATER AND REMOVAL SHALL BE CONTRACTOR COST. DO NOT UTILIZE SUBMERGIBLE PUMPS IN TANKS FILLED WITH WATER. DO NOT BALLAST TANKS ABOVE LEVEL OF BACKFILL.
 - 3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE VEHICLES WITH DAMS, BERMS, OR OTHER MEANS PREVENTING COMPLETION OF INSTALLATION. EXCAVATION SHALL BE MARKED AT ALL TIMES WITH LIGHTED BARRICADES UNTIL INSTALLATION IS COMPLETE. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATION. DEWATER AS REQUIRED TO MAINTAIN EXCAVATION DRY AS POSSIBLE.

5 CONCRETE

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

PART 2 - PRODUCTS

- 2.1 MATERIALS:
 - 2.1.1 AIR ENTRAINING AGENT: ASTM C-260-60-T. "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL.
 - 2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT.
 - 2.1.3 AGGREGATES: CONFORM TO ASTM C-33.
 - 2.1.4 WATER: SHALL BE CLEAN AND POTABLE.
 - 2.1.5 SAND: CONFORM TO ASTM C-144.
 - 2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHERWISE) YIELD STRENGTH 60,000 PSI.
 - 2.1.7 WELDED WIRE FABRIC: CONFORM TO ASTM A-185.
 - 2.1.8 ACCESSORIES INCLUDING BAR SUPPORTS, CHAIRS, ETC., SHALL BE MANUFACTURED DEVICES OF THE HEIGHTS REQUIRED.
 - 2.1.9 FORMS: CLEAN, STRAIGHT LUMBER OR MOISTURE RESISTANT PLYWOOD. KNOT HOLES, DEFORMATIONS, ETC., SHALL NOT BE ALLOWED.
 - 2.1.10 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-60-T. USE 1/2" THICK OR AS INDICATED ON DRAWINGS.
- 2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH. ALL CONCRETE UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN 4" SLUMP. AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

6 CONCRETE - continued

PART 3 - EXECUTION

- 3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS EXHAUSTIVE TO EACH TRUCK LOAD TO OWNER/OWNER AGENT LOCAL CONSTRUCTION OFFICE, WHEN REQUIRED, TICKETS SHALL SPECIFY STRENGTH, SLUMP, AGGREGATE SIZES, AIR ENTRAINMENT (IF ANY) AND BRAND OF CEMENT. NOTE AMOUNT OF WATER ADDED AT JOB.
- 3.2 FORM WORK: BUILD FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS. BRACE AND SECURE TO WITHSTAND PLACING OF CONCRETE AND MAINTAIN THEIR SHAPES AND POSITIONS. MAKE FORMS SUFFICIENTLY TIGHT AND SUBSTANTIALLY ASSEMBLED TO PREVENT BULGING OR LEAKAGE. ASSEMBLY FORMS IN SUCH A MANNER TO FACILITATE THEIR REMOVAL WITHOUT DAMAGE TO CONCRETE. FORMS SHALL BE IN OR NEAR NEAR NEAR CONDITION; CLEAN, SMOOTH AND WITHOUT INDENTATIONS OR BENDS. INTERNAL SLEEVES, MANHOLES, BOXES AND POSTS IN PROPER LOCATIONS AND HEIGHTS. EXPANSION JOINTS SHALL CONSIST OF FILLER STRIPS INSTALLED WITH TOP AT ELEVATIONS OF FINISHED CONCRETE. NEATLY FINISH EDGES OF EXPOSED CONCRETE ALONG JOINTS WITH A SLIGHTLY ROUNDED EDGING TOOL.
- 3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL INDICATED ON DRAWINGS. METAL REINFORCEMENT, AT THE TIME CONCRETE IS PLACED, SHALL BE FREE FROM COATINGS WHICH WILL DESTROY OR REDUCE THE BOND. METAL REINFORCEMENT SHALL BE STORED SO AS TO PREVENT FREEZING FOR A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT. ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH STANDARDS OF ACI. METAL REINFORCEMENT SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. SPLICES IN ADJACENT BARS SHALL BE LAPPED 36 DIAMETERS AT CORNERS AND SPLICES. ADJACENT SHEETS OF WIRE MESH SHALL BE LAPPED AT LEAST 6" AND SECURELY WIRED. SUPPORT ALL REINFORCEMENT WITH BAR SUPPORTS/CHAIRS. ALL JOINTS EXISTING CONCRETE SHALL HAVE #4 DOWELS 18" O/C INSERTED AT LEAST 10" INTO EXISTING CONCRETE AND EMBEDDED TO EXISTING CONCRETE.
- 3.4 MIXING AND TRANSPORTING CONCRETE: CONCRETE SHALL BE READY MIXED AND SHALL MEET REQUIREMENTS OF ASTM C-94 FOR MIXING AND DELIVERY. FURNISH DUPLICATE REFERENCE MADE PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.
- 3.5 PLACING CONCRETE:
 - 3.5.1 NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S AGENT AT LEAST 48 HOURS BEFORE PLACING ANY CONCRETE. THE CONTRACTOR SHALL NOTIFY ALL TRADES AFFECTED BY CONCRETE PLACEMENT AT LEAST 24 HOURS BEFORE PLACING CONCRETE IN ORDER THAT TRADES AFFECTED MAY INSTALL REQUIRED BLOCKING, SLEEVES, POCKETS, ETC.
 - 3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED.
 - 3.5.3 SETTINGS: THOROUGHLY WET FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE.
 - 3.5.4 PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614. MINIMUM CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO ACI 318. USE HANDLING EQUIPMENT AND METHODS TO AVOID LOW FLOW FROM MIXER TO PLACE OF DEPOSIT. SPACE, TAMP AND MECHANICALLY VIBRATE FRESHLY PLACED CONCRETE TO COMPACT THOROUGHLY AND ELIMINATE VOIDS. DO NOT ALLOW FREE FALL OF CONCRETE TO EXCEED 5'.
- 3.6 FINISHING CONCRETE:
 - 3.6.1 SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION IN EXCESS OF 1/4" WHEN TESTED WITH A 10' STRAIGHTEDGE AT 3' INTERVALS IN BOTH DIRECTIONS. SCREED AND FLOAT CONCRETE FOR SLAB WITH STRAIGHTEDGES TO BRING SURFACE TO REQUIRED FINISH LEVEL. WOOD FLOAT CONCRETE WHILE STILL GREEN TO A TRUE, EVEN SURFACE WITH NO COARSE AGGREGATE VISIBLE. AFTER SURFACE MOISTURE HAS DISAPPEARED, STEEL TROWEL SURFACE TO A SMOOTH, EVEN FINISH, FREE FROM BLEMISHES AND BROOKS. AFTER TROWELING, BRUSH SURFACE OF CONCRETE WITH A BRISTLE BRUSH TO RESULT IN A MEDIUM, UNIFORM, NON-SLIP TEXTURED SURFACE. STROKE CROSSWISE TO LENGTH.
 - 3.7 CURING: UTMOST CARE SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTIVE CURE FOR ALL SLABS. DO NOT USE CALCIUM CHLORIDE. CURING METHODS SHALL CONFORM TO ACI STANDARD 605-99 AND ACI STANDARD 306-66.
 - 3.8 REMOVAL OF FORMS: DO NOT REMOVE FORMS UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT SUPERIMPOSED LOADS.
 - 3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER/OWNER'S AGENT.
 - 3.10 TEMPERATURE:
 - 3.10.1 COLD WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 DEGREES FAHRENHEIT, MAINTAIN TEMPERATURE OF CONCRETE BETWEEN 50 AND 70 DEGREES FAHRENHEIT FOR MINIMUM OF 72 HOURS.
 - 3.10.2 HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKS, SHADING, FOG SPRAY, SPRINKLING, FONDING OR WET COVERING IN ADVANCE OF PLACEMENT. TAKE SUCH PROTECTIVE MEASURES AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.
 - 3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER/OWNER'S AGENT OR CONSTRUCTION MANAGER. THE OWNER SHALL PAY FOR ALL CONCRETE TESTING. COMPACTION TESTS SHALL BE REQUIRED PRIOR TO PLACEMENT OF ANY CONCRETE ON GRADE. CONTACT OWNER'S ENGINEERING SERVICES FOR COMPACTION TESTS. TESTS PAID BY OWNER.
 - 3.11.1 THICKNESS:
 - 3.11.1.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH #3 REINFORCING BARS AT 18" O.C. EACH WAY ON 2 1/2" SUPPORT CHAIRS.
 - 3.11.1.2 CANOPY FOOTINGS SHALL BE INSTALLED BY CANOPY CONTRACTOR AS PER SHOP DRAWINGS SUPPLIED BY CANOPY VENDOR. ALL MATERIALS SHALL BE EQUAL TO OR BETTER THAN SPECIFIED ELSEWHERE IN THIS SECTION.
 - 3.11.2 PROTECTION OF ALL CONCRETE SURFACES: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT ALL CONCRETE SURFACES AGAINST ANY DAMAGE WHATSOEVER, INCLUDING EXCESSIVE LOADING, SHIPPING, CRACKING, STAINING, PAINT SPLATTERS, ETC. THE OWNER EXPECTS EXPOSED CONCRETE SURFACES TO BE CLEAN AND OF UNIFORM COLOR AND TEXTURE AT COMPLETION OF THE PROJECT. REPLACE ANY CONCRETE DAMAGE DURING CONSTRUCTION.
 - 3.11.3 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

6 PIPING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO A COMPLETE PLUMBING SYSTEM FOR A UNDERGROUND FUEL INSTALLATION.

PART 2 - PRODUCTS

- 2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE CO-FLEX DOUBLE WALL FRANKLIN UPP. TANK MANUFACTURE BY FRANKLIN PUMP/RISERS AND DISPENSERS SHALL BE UTILIZED SO AS TO PROVIDE ACCESS TO ALL PRIMARY AND SECONDARY PIPE FITTINGS.
- 2.2 VENT PIPING: PIPING SHALL BE SCHEDULE 40, 2" BLACK IRON FOR GASOLINE AND DIESEL AND STAINLESS STEEL FOR DEF WITH 150 PSI FITTINGS.
- 2.3 VENT LINE RISERS SHALL BE GALVANIZED PIPE AND EXTEND 4 FEET ABOVE ADJACENT STRUCTURE OR 12 FEET ABOVE FINISHED GRADE.
- 2.4 VENT LINE RISERS SHALL NOT BE INSTALLED ON BUILDING UNLESS APPROVED IN WRITING.
- 2.5 N/A

- 2.6 BACKFILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S SPECIFICATIONS.

PART 3 - INSTALLATION

- 3.1 ALL PRODUCT PIPING AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES.
- 3.2 THE DRAWINGS ARE DIAGRAMMATIC AND THE FINAL ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS, THE CHARACTERISTICS OF THE MATERIALS USED, AND THE INSTRUCTIONS OF THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS. ACCESS AND CLEARANCES MUST BE PROVIDED AND MAINTAINED FOR THE PROPER OPERATION, MAINTENANCE, SERVICE AND REPAIR OF THE WORK.
- 3.3 LOCATE, IDENTIFY AND SUIT EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK PROCEDURES.
- 3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH THE OWNER/OWNER'S AGENT AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES IN SATISFACTORY CONDITION.
- 3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, AND AUTO GAUGING ADAPTATIONS SHALL BE A 4" DIAMETER PIPE.
- 3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER, AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- 3.7 CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA. DO NOT TRENCH EXCAVATIONS FOR SITE UTILITIES AS TEMPORARY DRAINAGE DITCHES. REMOVE ALL TRASH, DEBRIS AND FOREIGN MATERIAL FROM TRENCHES PRIOR TO PLACING PIPING MATERIAL.
- 3.8 ALL PRODUCT AND VENT LINES SHALL SLOPE UP FROM TANKS A MINIMUM OF 2" IN 8' (1/4") WITH NO SAG OR TRAPS. LINES SHALL BE IN TRENCHES WITH A MINIMUM OF 6" OF BACKFILL MATERIAL ON ALL SIDES, HORIZONTAL AND VERTICAL.

6 PIPING - continued

PART 3 - INSTALLATION

- 3.9 SUBMERGED PUMP, FILL PIPE, AUTO GAUGING ADAPTORS AND VAPOR RECOVERY ADAPTOR SHALL BE LOCATED AT TANK OPENINGS AS SHOWN ON DRAWINGS.
- 3.10 FILL PIPE SHALL HAVE OVERSPILL CONTAINMENT SYSTEM INSTALLED AS SHOWN ON DWGS.
- 3.11 FILL PIPE SHALL HAVE SUBMERGED FILL TUBE. FILL PIPE AND VAPOR RECOVERY RISERS SHALL BE CUT TO THE PROPER LENGTH SO THAT FINISHED HUB HEIGHT WILL BE WITHIN 5" (4 OR 1") OF THE TOP OF THE MANHOLE.
- 3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED AS SHOWN IN DRAWINGS.
- 3.13 SHUT-OFF VALVES SHALL BE INSTALLED ON THE PRODUCT LINES UNDER EACH DISPENSER AND SECURELY TO THE ISLAND PUMP BOX. THESE VALVES MUST BE INSTALLED WITH THE SHEAR SECTION AT THE SAME LEVEL OR A MAXIMUM OF 1/2" ABOVE OR BELOW THE TOP OF THE ISLAND.
- 3.14 AFTER ALL PIPING IS COMPLETE AND PRIOR TO BACKFILLING, ALL PIPING INCLUDING VENT LINES SHALL BE ISOLATED FROM THE TANK AND TESTED PER MANUFACTURER'S TESTING INSTRUCTIONS.
- 3.15 N/A
- 3.16 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST. REFER TO LIST OF MATERIALS SUPPLIED BY OWNER/OWNER'S AGENT.
- 3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED. WELLS ARE TO BE POSITIONED IN EXCAVATION HOLE PRIOR TO PLACING BEDDING MATERIAL AND SUPPORTED TO REMAIN VERTICAL DURING BACKFILL OPERATIONS. BOTTOM OF OBSERVATION WELLS(S) SHALL BE 12" MINIMUM BELOW THE BOTTOM OF TANK EXCAVATION PIT. TOP OF PIPE TO TERMINATE IN 12" DIAMETER OBSERVATION BOX. SLOTTED SAMPLE WELL MATERIAL SHALL BE FURNISHED BY CONTRACTOR.
- 3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, LATEST EDITION, IS BY REFERENCE MADE PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.
- 3.19 START-UP: PRIOR TO START-UP AND CHECK-OUT OF SYSTEM, PRODUCT LINES SHALL PASS HYDROSTATIC LINE TEST. ALL SITE IMPROVEMENTS, INCLUDING PAVEMENTS AND UTILITIES, SHALL BE COMPLETED, FIKES WHOLESALE, INC.
- 3.20 INSPECTIONS: PLUMBING INSPECTION SHALL BE PERFORMED BY CLEAN-UP. CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

7 ELECTRICAL WORK

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:
 - 1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANELBOARDS, OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC.
 - 1.1.2 CONDUIT AND WIRING SYSTEM FOR INTERCOM.
 - 1.1.3 WIRING SYSTEM TO SERVE LIGHT FIXTURES, LIGHTING DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT.
 - 1.1.4 POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT.
 - 1.1.5 ALL CONDUITS, CONNECTIONS, WIRE AND STUB-OUTS FOR FASCIA SIGN(S)
 - 1.1.6 (WHEN SHOWN) CANOPY LIGHTS, FREE SIGN(S) AND CANOPY MOUNTED FLOOD LIGHTS.
 - 1.1.6 CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS.
 - 1.1.7 ALL TRENCHING, EXCAVATIONS AND BACKFILL AS REQ. IN CONJUNCTION W/ ELEC. WORK.
 - 1.1.8 INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRIC CODE.
- 1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA, NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY. REPORT TO OWNER/OWNER'S AGENT IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES OR TO BE HELD RESPONSIBLE FOR COMPLIANCE TO THESE CODES AND REGULATIONS. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
- 1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.
- 1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO ENTIRE INSTALLATION SO THAT THE ENTIRE PROJECT CAN BE COMPLETED PER SCHEDULE.
- 1.5 CUTTING AND REPAIRING: PROVIDE ALL CUTTINGS, CHANNELING, PATCHING, ETC. AS NECESSARY FOR ELECTRICAL INSTALLATION. IF ELECTRICAL CONTRACTOR WORK FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER/OWNER'S AGENT AT NO ADDITIONAL COST TO THE OWNER. REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR BY THE ELECTRICAL SUBCONTRACTOR.

PART 2 - PRODUCTS

- 2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION W/ DYMO TAPE OR EQUAL FOR ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCHGEAR, PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.
- 2.2 LIGHT FIXTURES: TO BE PROVIDED BY OWNER.
- 2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE W/ THE SPECIFIC APPLICATION OF LOCATION INDICATED.
 - 2.3.1 RIGID GALVANIZED STEEL: WHERE EXPOSED TO THE WEATHER, FOR ENCLOSING MAIN GROUNDING CONDUCTORS WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED. MATERIAL SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, REPUBLIC STEEL, YOUNGSTOWN STEEL AND TUBE, OR EQUAL. PROTECT WITH ASPHALTIC PROTECTIVE COATING WHEN BELOW FINISH GRADE.
 - 2.3.2 SEALOFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, SUBMERGIBLE PUMPS, AND INTERIOR DISTRIBUTION PANEL.
 - 2.3.3 PVC CONDUITS: ALL WIRING RUNS BURIED UNDERGROUND UNLESS OTHERWISE INDICATED. MATERIAL SHALL BE HEAVY WALL, TYPE II RIGID, SCHEDULE 40 AS MANUFACTURED BY CARLON, BALDWIN, TRIANGLE, OR EQUAL. PVC CONDUITS SHALL BE U.L. LISTED AND APPROVED.
- 2.4 CONDUCTORS:
 - 2.4.1 FURNISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED. MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (60 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING, TYPE THN (90 CENTIGRADE) FOR SUPPLY CONNECTIONS TO LIGHT FIXTURES. INSTALL PER NEC COLOR CODE.
 - 2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.
 - 2.4.3 SPLICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES. PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES W/ OVERALL NYLON INSULATORS FOR CONDUCTORS, CONNECTORS SHALL BE 3M "SCOTCHLOK", BUCHANAN SPLICE CAPS W/ INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL.
- 2.6 PANELBOARDS:
 - 2.6.1 BRANCH CIRCUIT PANELBOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANELBOARDS WITH THERMAL MAGNETIC, MOLDED CASE, GENERAL ELECTRIC TYPE NLAB OR APPROVED EQUAL. WITH PLUG-IN CIRCUIT BREAKERS, GENERAL ELECTRIC TYPE NLUOT OR APPROVED EQUAL. PROVIDE GROUNDING TERMINAL BLOCK IN EACH PANELBOARD. SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.
 - 2.6.1 ACCEPTABLE SUBSTITUTES: DISTRIBUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY IN ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY CUTLER-HAMMER, FEDERAL PACIFIC, ITE, SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES, WHEN APPROVED IN WRITING.

7 ELECTRICAL WORK - continued

PART 3 - EXECUTION

- 3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOK-UPS AND MISCELLANEOUS PROCEDURES WITH ALL OTHER TRADES THAT WILL BE INVOLVED TO EXPEDITE THE COMPLETION OF THE CONTRACT. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
- 3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR WIRING AND CONDUCTORS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 3.2.1 CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER/OWNER'S AGENT IN WRITING.
 - 3.2.2 ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED; CONDUITS AT TANKS SHALL NOT CROSS OVER TANKS. PLACE CONDUIT THROUGH EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.
 - 3.2.3 CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN.
 - 3.2.4 FLASH AND COUNTER FLASH CONDUITS WHICH PENETRATE THE CANOPY DECKING.
 - 3.2.5 PROVIDE SEAL-OFF FITTINGS WHERE CONDUIT RUNS ENTER OR LEAVE HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.
 - 3.2.6 FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM. FUEL PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON FUEL DRAWINGS. ADDITIONAL CONDUITS AND CONDUIT WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.
- 3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS BE REQUIRED, VERIFY THROUGH OWNER/OWNER'S AGENT AND PROVIDE AS REQUIRED.
- 3.4 WIRING AND LIGHTED FASCIA: PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS. FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.
- 3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM, OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANELBOARDS, SWITCHGEAR, ETC., TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER TRADES AND TRADES SO THE ELECTRICAL EQUIPMENT WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR INOPERABLE. PROVIDE WEATHERPROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.
- 3.6 ISOLATED GROUND: IT IS MANDATORY THAT FUEL EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE PROVIDED WITH SAME. MINIMUM CIRCUITS REQUIRED BUT NOT LIMITED TO SHALL BE: INTERCOM, FUEL CONSOLE AND UNDERGROUND FUEL TANK MONITORING SYSTEM. EXCAVATION AND BACKFILLING: ALL EXCAVATION AND BACKFILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.
- 3.8 OPERATING AND ACCEPTANCE TESTS:
 - 3.8.1 CONDUCT OPERATING TEST ON ENTIRE ELECTRICAL INSTALLATION; ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO START-UP AND FINAL CHECK-OUT OF SYSTEM COVERED ELSEWHERE.
 - DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER.
 - 3.8.2 INSPECT ALL PANELBOARDS, DOWNWARD EXISTING EQUIPMENT, ELECTRICAL INSTALLATION AND/OR OPERATION WITH THE RESPONSIBILITY OF THAT SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.
- 3.9 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.
- 3.8.3 TEST GROUND: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.
- 3.8.4 INSPECT ALL PANELBOARDS AND ALL SYSTEMS MUST BE TIGHT AND SECURE.
- 3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER/OWNER'S AGENT WITH ONE SET OF MARKED-UP PRINTS SHOWING "AS-BUILT" INSTALLATION.
- 3.10 FINAL ACCEPTANCE: UPON COMPLETION OF WORK, PRESENT CERTIFICATE OF APPROVAL OF LOCATION OF GOVERNING AUTHORITY.
- 3.11 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

8 PAINTING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETION OF ALL PAINTING OF SURFACES COMPLETE, INCLUDING PAINTING OF THE FOLLOWING SURFACES:
 - 1.1.1 METALLIC SURFACES: METAL, DOWNED W/ WHITE CROSS & WHITE BAND LINES, MANHOLE COVERS AND ELECTRICAL CONDUITS.
- 1.2 PAINTING DOES NOT INCLUDE:
 - 1.2.1 PAINTING MANHOLE COVERS.
 - 1.2.2 PAINTING LIGHT FIXTURES.
 - 1.2.3 PAINTING FASCIA SIGN FRAMES.
 - 1.2.4 PAINTING FUEL EQUIPMENT.
- 1.3 COLOR SCHEDULE: COLOR OF PAINTS SHALL BE AS LISTED IN COLOR SCHEDULE.

PART 2 - PRODUCTS

- 2.1 PAINT MANUFACTURERS AND PRODUCTS: PAINTING SYSTEM AS SPECIFIED HEREIN IS BASED ON PRODUCTS OF THE GLIDDEN COATING & RESINS COMPANY, A DIVISION OF SOM CORPORATION. HOWEVER, EQUAL PAINTING SYSTEMS OF PRATT & LAMBERT, PPG INDUSTRIES AND BENJAMIN MOORE WILL BE CONSIDERED.
- 2.2 PAINTING COATS AND PRODUCTS:
 - 2.2.1 FUEL ISLAND METALS AND VENT LINES: SHALL BE GLIDDEN SPREAD LUSTRE ALKYD SEMI-GLOSS PAINT #4656 ARCHITECTURAL BROWN.
 - 2.2.2 PAINT ALL MANHOLE COVERS AND 4" SURROUNDING CONCRETE, INSIDE AND OUT, IN ACCORDANCE WITH STANDARD INDUSTRY COLOR CODE AS SHOWN:
 - G.C. TO USE BLACK COLOR FOR ALL COLORS U.N.O. RE: FUEL DRAWINGS.
- 2.3 API COLOR CODES:

ETHANOL	SOLID PURPLE
ETHANOL UNLEADED REGULAR	SOLID PURPLE
LEADED PREMIUM	WHITE W/BLACK CROSS
LEADED REGULAR W/EXTENDER	RED W/WHITE CROSS
UNLEADED REGULAR W/EXTENDER	BLUE W/WHITE BAND
UNLEADED PREMIUM W/EXTENDER	WHITE W/BLACK CROSS & BLACK BAND
DIESEL	RED W/WHITE CROSS & WHITE BAND
VAPOR RECOVERY	SOLID YELLOW
	SOLID ORANGE.

PART 3 - EXECUTION

- 3.1 PROTECTION: COVER ENTIRE CONCRETE SURFACES. NO PAINT OR SOLVENT SHALL BE ALLOWED TO COME IN CONTACT WITH CONCRETE SURFACES. WHERE IT BECOMES NECESSARY, IN ORDER TO EXECUTE HIS OWN WORK, FOR PAINTER TO REMOVE COVERINGS, PLATES, ETC., PLACED BY OTHER CONTRACTORS AT ANY BRANCH OF THE WORK, HE SHALL REPLACE SAME IN PROPER MANNER. IN SITUATIONS WHERE SAID COVERINGS, PLATES, ETC., CANNOT BE READILY REMOVED, PAINTER SHALL PROTECT THE WORK IN SOME OTHER MANNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL EVERY NIGHT. UNDER NO CIRCUMSTANCES SHALL THEY BE ALLOWED TO ACCUMULATE. PAINTING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE WORK OF OTHER SUBCONTRACTORS AND SHALL REPAIR OR REPLACE AS NECESSARY TO THE SATISFACTION OF THE OWNER.
- 3.2 PREPARATION OF SURFACES: INSPECT ALL SURFACES TO BE PAINTED. REPORT ANY DISCREPANCIES TO THE CONTRACTOR PRIOR TO START OF WORK. STARTING OF PAINT APPLICATION SHALL CONSIST OF ACCEPTANCE OF SURFACES AS THEY BRANCH OF THE RECEPTION OF PAINT APPLICATION. ALL SURFACES SHALL BE CLEAN AND DRY, BETWEEN 50 AND 90 DEGREES FAHRENHEIT AT TIME OF PAINT APPLICATION. CLEAN METAL OF MILL SCALE, RUST, OIL, GREASE AND FOREIGN MATTER. CLEAN GALVANIZED METAL ACCORDING TO SSPC-SP 1-63 SOLVENT CLEANING. PROTECT ADJACENT AND FINISHED WORK FROM PAINT.
- 3.3 APPLICATION OF PAINT: DO NOT THIN, ADULTERATE OR CHANGE MATERIALS EXCEPT AS RECOMMENDED BY MANUFACTURER'S INSTRUCTIONS. ALL SURFACES TO BE PAINTED SHALL BE BRUSHED, SPRAYED OR ROLLED EVENLY FOR THOROUGH COATS WITHOUT RUNS, SAGS OR OTHER BLEMISHES. ALLOW EACH COAT TO DRY BEFORE APPLYING SUBSEQUENT COATS. ALL SURFACES TO RECEIVE A MINIMUM OF 2 COATS AS NECESSARY TO ACHIEVE AN APPROVED FINISH. APPLICATION OF PAINT, ETC., SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS.
- 3.4 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

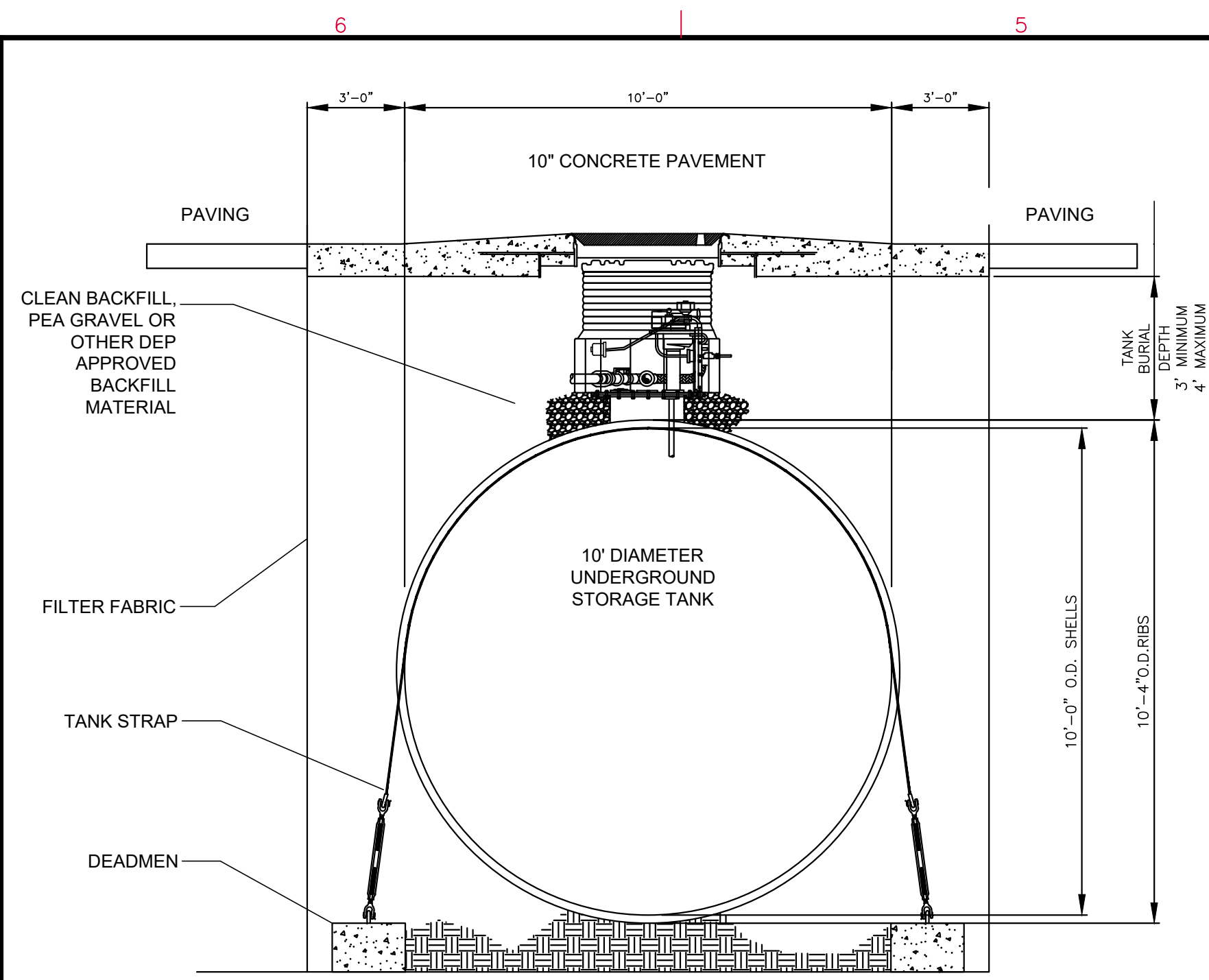


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-TFP10.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



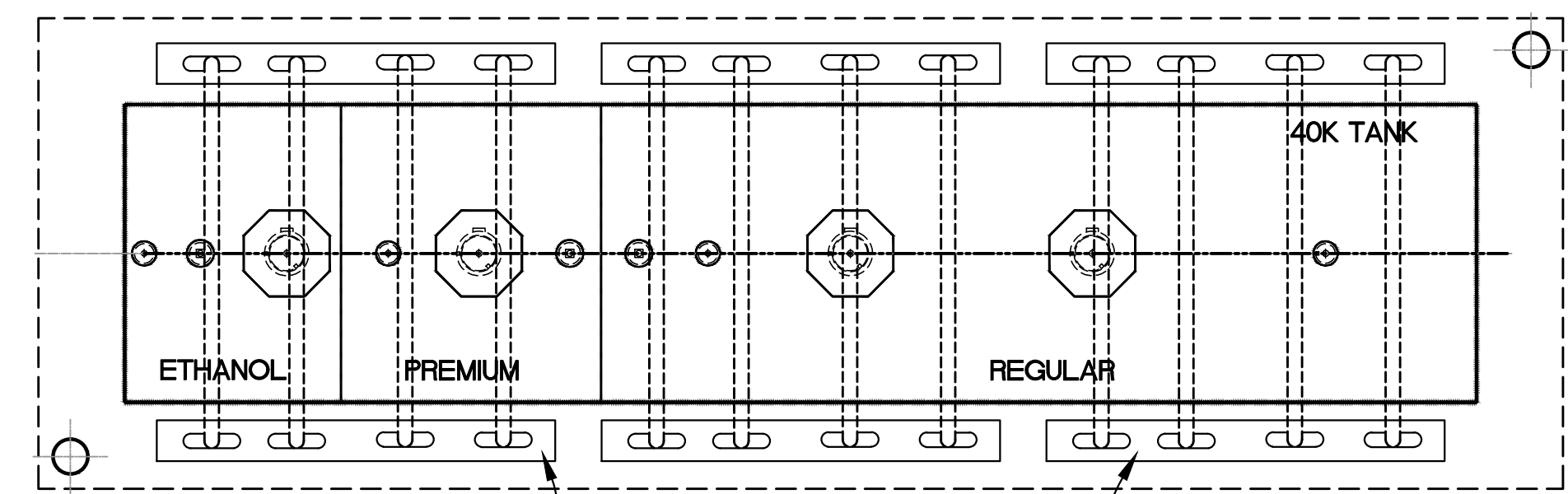
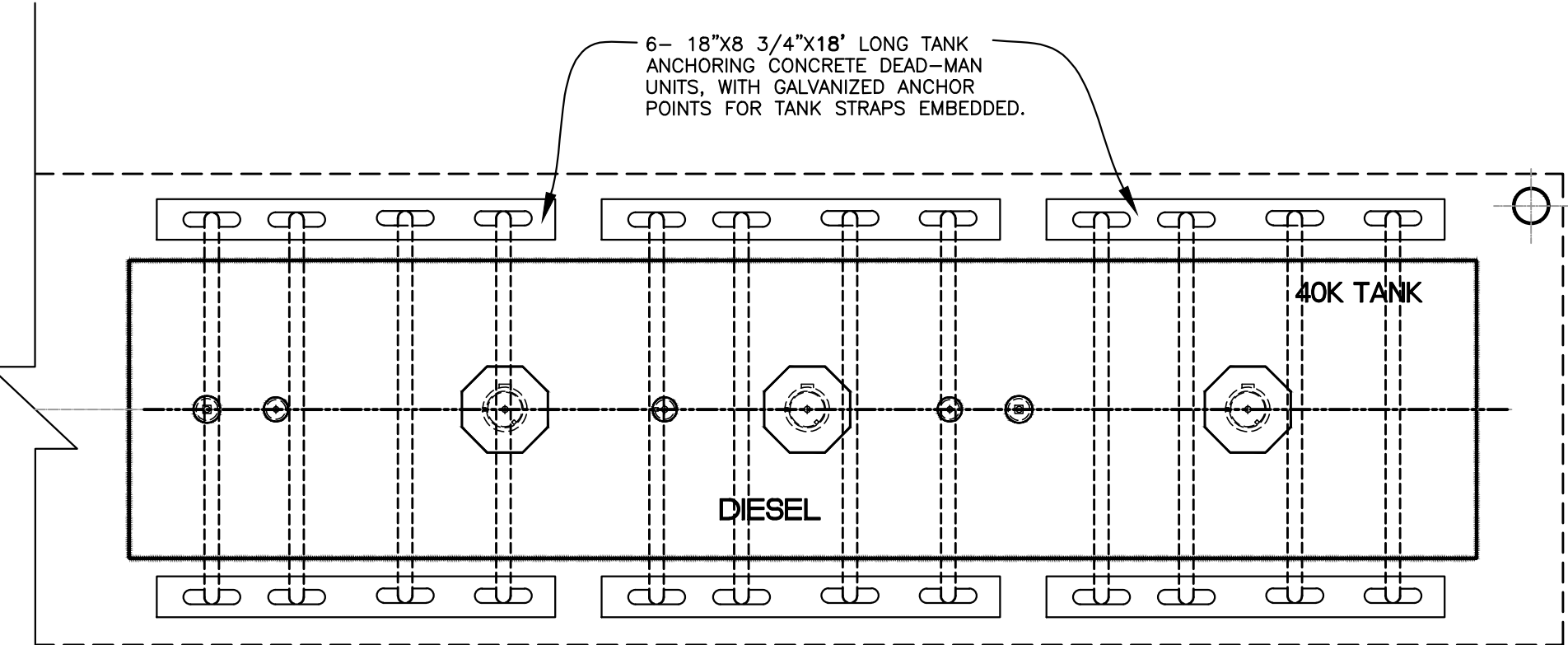
TANK DIMENSIONS NOTE:
 SOIL BORINGS SHALL BE REVIEWED FOR EACH INSTALLATION. CONTRACTORS SHALL CONSIDER THE USE OF 6" OR 10" DIAMETER TANKS AND/OR COMPARTMENTALIZED TANKS AND USE THEM WHENEVER FINANCIALLY JUSTIFIABLE. ALL TANK SIZE CHANGES SHALL BE APPROVED BY THE THE OWNER.

TANK BACKFILL AND FILTER FABRIC NOTE:
 USE MANUFACTURER APPROVED FILTER FABRIC TO LINE THE SIDES AND BOTTOM OF THE TANK HOLE EXCAVATION AT ANY SITE WHERE POOR SOIL CONDITIONS OR FLUCTUATING WATER TABLES ARE PRESENT (I.E. LOOSE SAND, TIDAL OR RAPIDLY CHANGING WATER TABLES, SILTY SOIL WITH WATER CONDITIONS, LOW STABILITY SOIL WITH LESS THAN 250 LBS/SQ. FT. COHESION OR AN ULTIMATE BEARING CAPACITY OF LESS THAN 500 LBS/SQ. FT. FOLLOW TANK AND FILTER FABRIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.

TANK ANCHORING NOTE:
 INSTALL TWO DEADMAN ANCHORS PER TANK PER TANK MANUFACTURER'S INSTRUCTIONS. TANK SLAB 8" MIN. THICKNESS

NOTE:
 TANK BURIAL DEPTH 36" BELOW CONCRETE AND NO DEEPER THAN 48" UNLESS APPROVED IN WRITING BY THE OWNER.

23 TANK BACKFILL AND DEADMAN DETAILS
 NOT TO SCALE
 RE:



21 TYPICAL FUEL TANK ACHORAGE LAYOUT
 NOT TO SCALE
 RE: FP3, TFP3, DEF3, FP4, TFP4 AND DEF4 FOR TANK DETAILS

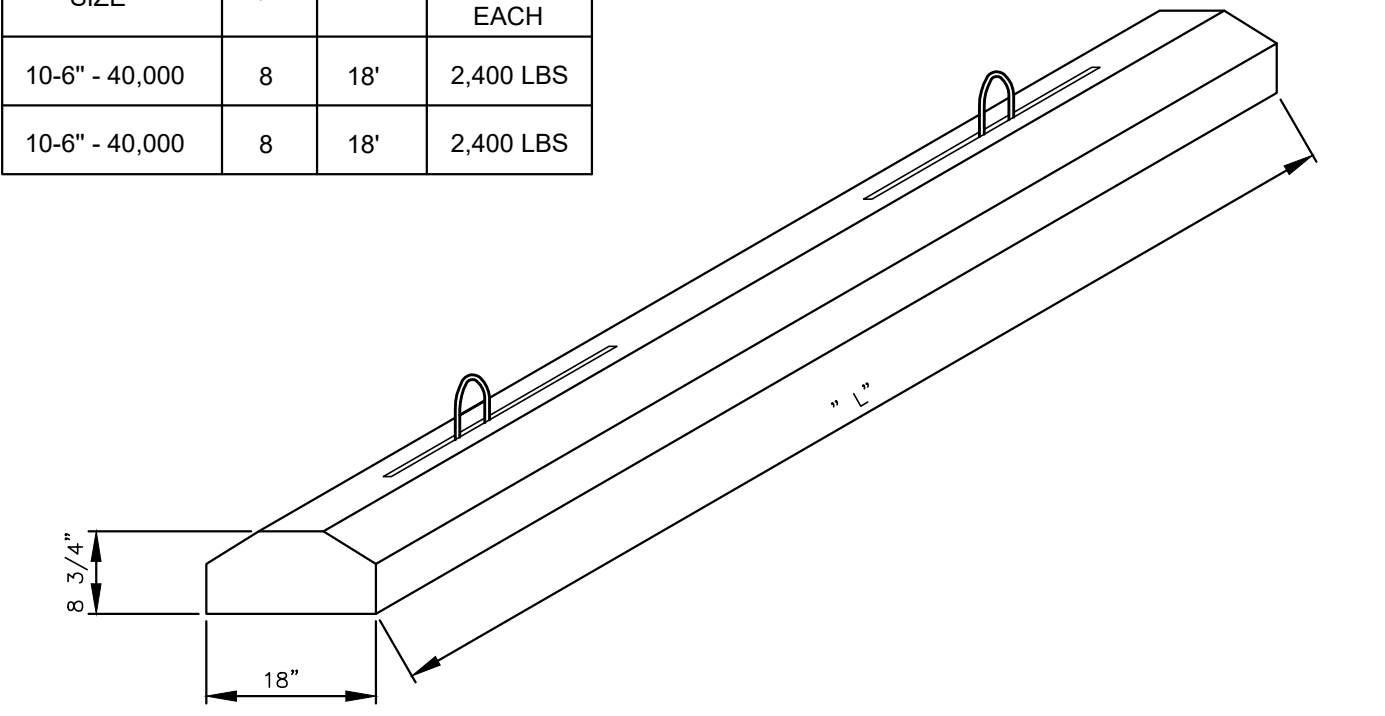
DISPENSER SUMP FITTING INSTALLATION

- GENERAL:**
- UPP BULKHEAD FITTINGS ARE ELECTRO-FUSED TO THE POLYETHYLENE SUMP WALL.
 - POLY OR FIBERGLASS SUMP UNITS ARE TO BE SEALED PER MANUFACTURER INSTALLATION INSTRUCTIONS. EACH SUMP SHALL BE FILLED WITH WATER FOR 24 HOURS BEFORE BACKFILL TO VERIFY WATER TIGHTNESS.
- INSTALLATION**
- LAY OUT THE BULKHEAD FITTING LOCATIONS ACCORDING TO THE APPLICABLE PIPING DIAGRAM FOR THE SITE. IN ORDER THAT THE REQUIRED SCOPE BACK TO THE TANK CAN BE ACCOMMODATED, IT IS RECOMMENDED THAT THE CALCULATIONS BE MADE AFTER THE TANKS HAVE BEEN SET TO HEIGHT. THERE IS NO NEED TO ACCOUNT FOR SLOPE WITHIN THE SUMPS THEMSELVES.
 - MARK A CENTERLINE ON THE SUMP FACE SUCH THAT FITTING FLANGES ALL NO INTERFERE. POSITION THE BULKHEAD FITTING SO THAT ITS EDGE WILL BE AT LEAST ONE INCH FROM ANY SUMP EDGE. NOW MARK VERTICAL CENTERLINE INTERSECTION
 - USING APPROPRIATE DIAMETER HOLE, SAW CUT THE HOLE FOR THE BULKHEAD FITTING USING A SHARP KNIFE, TRIM ANY BURRS FROM THE RESULTING WORK PIECE.
 - USING TOOL SKA, DE-GLAZE SUMP IN CONTACT AREA OF FITTING PIPE. WIPE DE-GLAZED AREA USING CLOTH MOISTENED WITH ACETONE.
 - ROUGHEN CONTACT AREA OF BULKHEAD FITTING USING EMERY CLOTH, NOT STEEL WOOL OR SAND PAPER. WIPE PREPARED AREA WITH ACETONE CLOTH.
 - POSITION BULKHEAD FITTING AND CLAMP TO SUMP WALL USING TOOL 305.
 - AUTO FORECOURT ONLY. ALL UPP PIPING SHALL BE 3/3 FT STICKS THAT SHOULD BE USED BETWEEN DISPENSER POINTS. THESE WILL HAVE TO BE SHORTENED, AS NEEDED.
- ENTRY BOOT WELD**
- WELD FITTING TO SUMP USING ELECTRO FUSION WELDER PER MANUFACTURER'S INSTRUCTIONS. MARK TIME OF WELD COMPLETION ON A SUMP ABOVE WELDING LEADS. DO NOT REMOVE CLAMP UNTIL TWENTY MINUTES HAVE PASSED.
- PIPE PREPARATION AND JOINT MAKING:**
- MEASURE SUMP-TO-SUMP CENTERLINE DISTANCE, ACCOUNTING FOR NECESSARY DETOURS AROUND INTERVENING OBJECTS, AND OTHER PIPES.
 - USING THE PIPES CUTTING TOOL, P. CUT. MAKE A BURR-FREE, AND SQUARE CUT ON THE PIPE.
- PIPE CUTS:**
- IF USING COAXIAL PIPE, USE CUTTING TOOL TO PREPARE CONTAINMENT SLEEVE. CUT SLEEVE BACK END OF THE PIPE.
 - DE-GLAZE SECONDARY PIPE SKIN IN PREPARATION FOR WELDING.
- PIPE SCRAPPERS:**
- AS AN ALTERNATE, A RAZOR EDGED SCRAPER, SCR. SKA CAN BE USED TO LONGITUDINALLY ROUGHEN THE SKIN OF THE PRIMARY PIPE, AND HOWEVER, CARE MUST BE TAKEN TO LEAVE NO UNSCRAPED AREAS.
- WIPE THE MATING SURFACES USING AN ACETONE MOISTENED LINT FREE CLOTH.
 - POSITION FITTINGS ON THE PIPE, INSERT PIPE THROUGH BULKHEAD FITTING. POSITION TEST FITTING.
 - INSERT THE PREPARED PIPE END(S) IN TO THE FITTING TO THE SPECIFIED DEPTH. CLAMP PIPES TOGETHER USING UPP TOOL CLAM(S) OR CLAMP (A) AS APPROPRIATED. IF COUPLING OCCURS IN CURVED RUN, LAY OUT JOINT STRAIGHT, WELD, ALLOW TO COOL, THEN BEND INTO POSITION. FAILURE TO PROPERLY MAINTAIN JOINT GEOMETRY FOR AT LEAST 20 MINUTES AFTER WELDING IS COMPLETE WILL RESULT IN AN UNSATISFACTORY JOINT.
 - COMPLETE THE JOINT WELDING AS SPECIFIED BY UPP. USING CHINA MARKER, NOTE TIME OF COMPLETION NEXT TO WELD. DO NOT REMOVE CLAMPS BEFORE TWENTY (20) MINUTES HAVE PASSES BEYOND THIS TIEM.
 - RECORD BATCH NUMBERS FROM PIPING MARKING INTO UPP INSTALLATION CHECKLIST.

- ENTRY BOOT WELD**
- WELD FITTING TO SUMP USING ELECTRO FUSION WELDER PER MANUFACTURER'S INSTRUCTIONS. MARK TIME OF WELD COMPLETION ON A SUMP ABOVE WELDING LEADS. DO NOT REMOVE CLAMP UNTIL TWENTY MINUTES HAVE PASSED.
- PIPE PREPARATION AND JOINT MAKING:**
- MEASURE SUMP-TO-SUMP CENTERLINE DISTANCE, ACCOUNTING FOR NECESSARY DETOURS AROUND INTERVENING OBJECTS, AND OTHER PIPES.
 - USING THE PIPES CUTTING TOOL, P. CUT. MAKE A BURR-FREE, AND SQUARE CUT ON THE PIPE.
- PIPE CUTS:**
- IF USING COAXIAL PIPE, USE CUTTING TOOL TO PREPARE CONTAINMENT SLEEVE. CUT SLEEVE BACK END OF THE PIPE.
 - DE-GLAZE SECONDARY PIPE SKIN IN PREPARATION FOR WELDING.
- PIPE SCRAPPERS:**
- AS AN ALTERNATE, A RAZOR EDGED SCRAPER, SCR. SKA CAN BE USED TO LONGITUDINALLY ROUGHEN THE SKIN OF THE PRIMARY PIPE, AND HOWEVER, CARE MUST BE TAKEN TO LEAVE NO UNSCRAPED AREAS.
- WIPE THE MATING SURFACES USING AN ACETONE MOISTENED LINT FREE CLOTH.
 - POSITION FITTINGS ON THE PIPE, INSERT PIPE THROUGH BULKHEAD FITTING. POSITION TEST FITTING.
 - INSERT THE PREPARED PIPE END(S) IN TO THE FITTING TO THE SPECIFIED DEPTH. CLAMP PIPES TOGETHER USING UPP TOOL CLAM(S) OR CLAMP (A) AS APPROPRIATED. IF COUPLING OCCURS IN CURVED RUN, LAY OUT JOINT STRAIGHT, WELD, ALLOW TO COOL, THEN BEND INTO POSITION. FAILURE TO PROPERLY MAINTAIN JOINT GEOMETRY FOR AT LEAST 20 MINUTES AFTER WELDING IS COMPLETE WILL RESULT IN AN UNSATISFACTORY JOINT.
 - COMPLETE THE JOINT WELDING AS SPECIFIED BY UPP. USING CHINA MARKER, NOTE TIME OF COMPLETION NEXT TO WELD. DO NOT REMOVE CLAMPS BEFORE TWENTY (20) MINUTES HAVE PASSES BEYOND THIS TIEM.
 - RECORD BATCH NUMBERS FROM PIPING MARKING INTO UPP INSTALLATION CHECKLIST.
- SPECIFICATIONS**

NOTE:
 UNDERGROUND FUEL TANKS ON THIS DOCUMENT ARE FOR ILLUSTRATION ONLY. VERIFY WITH MANUFACTURE INSTALLATION GUIDE FOR MORE INFORMATION. RE: SITE PLAN FOR THE EXACT LOCATION AND SIZE OF UNDERGROUND TANKS.

HALL TANK DEADMAN			
TANK SIZE	QTY	"L"	APPROX. WEIGHT EACH
10'-6" - 40,000	8	18"	2,400 LBS
10'-6" - 40,000	8	18"	2,400 LBS



- HALL TANK PRECAST DEADMAN**
- HALL TANK DEADMAN ARE ENGINEERED AND DESIGNED TO BE USED WITH HALL TANK TANKS.
 - IN MULTIPLE TANK INSTALLATIONS, EACH TANK REQUIRES ITS OWN SET OF DEADMAN.
 - FOR CAST IN PLACE OR DEADMAN CONSTRUCTED OFF SITE, REFER TO HALL TANK INSTALLATION MANUAL AND OPERATING GUIDELINES FOR PROPER SIZING AND ANCHOR POINT SPECIFICATIONS.

9 CONCRETE DEADMAN WEIGHT ACHOR DETAIL
 NOT TO SCALE
 RE:

- 3.1 TANK HOLD-DOWNS (TIE-DOWNS):**
- HOLD-DOWN, WHEN SPECIFIED THE HOLD-DOWN LOGS SHALL BE INSTALLED PRIOR TO THE BED MATERIAL.
 - CAUTION - DO NOT PLACE FRP TANKS ON CONCRETE SLABS, TIMBERS, BEAMS, CRADLES OR GROUT THE TANKS IN WET CEMENT. THE TANK, WHETHER TIED DOWN OR NOT, MUST NEVER BE LEFT ON THE BED WITHOUT A BACKFILL TO THE TOP OF THE TANK IF THERE IS ANY CHANCE OF WATER, 12" OR MORE ABOVE THE TANK BOTTOM, IN THE HOLE.
- 3.2 TANK HOLD-DOWN INSTALLATION**
- GENERAL REQUIREMENTS
 ANCHOR ALL UNDERGROUND STORAGE TANKS WITH CONCRETE HOLD-DOWNS ("LOGS" OR "DEADMAN") WHEN SPECIFIED IN THE SCOPE OF WORK.
 - TANK BEDDING, BALLASTING AND TANK HOLE BACKFILL PROCEDURE ARE DESCRIBED IN THESE SPECIFICATIONS.
 - THE TANK ANCHORAGE SYSTEM SHOWN ON THE DRAWINGS IS DESIGNED FOR A MAXIMUM LEVEL OF GROUND WATER EQUAL TO THE SUBGRADE LEVEL.
- 3.3 MATERIALS**
- CONCRETE HOLD-DOWNS: PRECAST. REINFORCED CONCRETE "LOGS", FURNISHED BY THE TANK MANUFACTURE WITH CHAMFERED EDGES. LENGTH, AS SHOWN ON THE DRAWINGS. 1/2" DIAMETER GALVANIZED STEEL ANCHOR LOOPS ARE TO BE CAST INTO "LOGS" AT LOCATIONS SHOWN. PRECAST MATERIAL SHALL HAVE ACHIEVED ITS ULTIMATE COMPRESSIVE STRENGTH OF 2500 PSI (28 DAYS) PRIOR TO INSTALLATION.
 NOTE: PRECAST CONCRETE FOUNDATION PILES WHICH MEET OR EXCEED ABOVE SPECIFICATIONS ARE ACCEPTABLE.
 - WIRE ROPE CABLE: HOT-DIP GALVANIZED STEEL WIRE ROPE, MINIMUM 1/2" DIAMETER, BREAKING STRENGTH, 20AK.
 - HARDWARE: CABLE CLAMPS, CABLE GUIDES, GUARDS, ETC., FURNISHED BY THE TANK MANUFACTURER, SHALL BE HOT-DIP GALVANIZED STEEL.
 - PROTECTIVE COATING: PRIOR TO BACKFILLING TANKS, APPLY A GENEROUS QUANTITY OF "ASPHALT COATING" BY BRUSH TO ALL EXPOSED STEEL CABLES, LOOPS AND HARDWARE.
- PREPARE THE TANK HOLE TO RECEIVE THE HOLD-DOWN LOGS. INSTALL SHORING (OR SIDE SLOPING) IN ACCORDANCE WITH SECTION 1.3.
 - PUMP THE WATER OUT OF THE TANK HOLE. KEEP WATER OUT OF THE TANK HOLE UNTIL TANKS HAVE BEEN SET, TIED DOWN, BALLASTED AND BACKFILLED.
 - INSERT EACH CABLE THROUGH ITS OWN ANCHOR LOOP IN THE "LOG" RESERVING SUFFICIENT CABLE SO THAT BOTH ENDS OF THE CABLE WILL BE KEPT AT THE TOP OF THE TANK HOLE AFTER THE "LOGS" ARE SET. LOWER AND POSITION THE "LOGS" IN THE TANK HOLE KEEPING BOTH ENDS OF THE CABLES AT THE TOP OF THE HOLE. INSTALL THE 12" MINIMUM THICK BEDDING MATERIAL IN TANK HOLE. SMOOTH AND SLOPE PER THE TANK BEDDING INSTRUCTIONS.
 - PROCEED WITH SETTING THE TANKS BY ADDING BALLAST AS NECESSARY TO SINK AND KEEP DOWN THE TANKS. USE ONLY ENOUGH BALLAST TO HOLD THE TANKS DOWN UNTIL THE BACKFILL IS EVEN WITH THE TOP OF THE TANKS. (REFER TO SECTION 1.1 FOR TANK SETTING REQUIREMENTS.) CAUTION: BALLAST LEVEL IN TANK MUST NEVER EXCEED WATER (OR BACKFILL) LEVEL IN TANK HOLE DURING INSTALLATION.
 - INSTALL THE CABLE GUARDS, GUIDES, ETC., FURNISHED BY THE TANK MANUFACTURER ON THE DESIGNATED RIBS OF THE TANK. (NOTE: "DESIGNATED RIBS" ARE MARKED BY ARROWS ON THE TANK SURFACE.) CAUTION: DO NOT PLACE STRAPS OR CABLES BETWEEN THE RIBS OF THE TANK.
 - PASS EACH SET OF CABLES (A SET OF CABLES ARE THOSE PASSING THROUGH THE MATCHING, OR OPPOSITE, LOOPS ON THE "LOGS") THROUGH THE GUIDES AND LOOPS AS SHOWN ON THE DRAWING.
- ONE END OF EACH CABLE IS TO BE CROSSED OVER THE TOP OF THE TANK IN THE RETAINER PORTION OF THE HOLD-DOWN STRAP. USING THREE CABLE CLAMPS ON EACH SET OF CABLES, CLAMP BOTH CABLES TOGETHER ON TOP OF THE TANK. PRIOR TO TIGHTENING THE CLAMPS, TENSION THE CABLES WITH "COME-A-LONGS" SECURED OUTSIDE THE TANK HOLE. USE ENOUGH TENSION TO TIGHTEN THE CABLES BUT NOT TO LIFT THE "LOGS" OR CRUSH THE TANK. CAUTION: ALL SETS OF CABLES ON A TANK MUST BE TIGHTENED EQUALLY TO AVOID TANK DEFORMATION.
 - THE CABLE MUST REST ON THE TOP OF THE HOLD-DOWN STRAP BETWEEN THE GUIDES PROVIDED. REPEAT THIS PROCESS FOR EACH SET OF TIE-DOWN CABLES.
 - AFTER ALL TIE-DOWNS ARE COMPLETED, COMMENCE THE BACKFILL PROCEDURES TO THE TOP OF THE TANKS.

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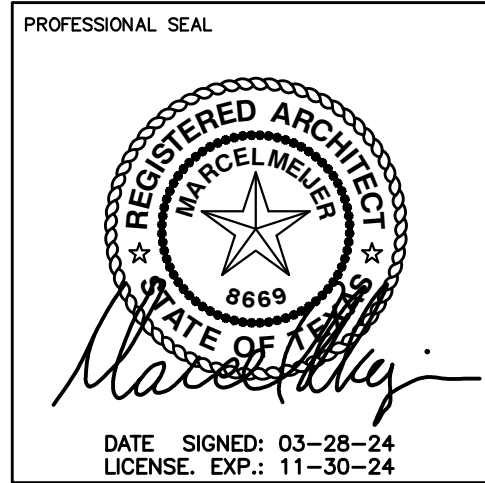


INTERPLAN ARCHITECTS INC.
 PLANNING ARCHITECTURE INTERIORS
 281-398-2020

PROJECT NUMBER
CEF22-TFP11.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
 I-35 FRONTAGE ROAD
 EDDY, TEXAS 76524
 BRUCEVILLE - EDDY CITY LIMITS
 McLENNAN COUNTY
 A PROJECT OF:
 FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

DATE	REVISION
09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
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03-28-24	100% SET
	FINAL PRINT

SCOPE OF THE DOCUMENT
 This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

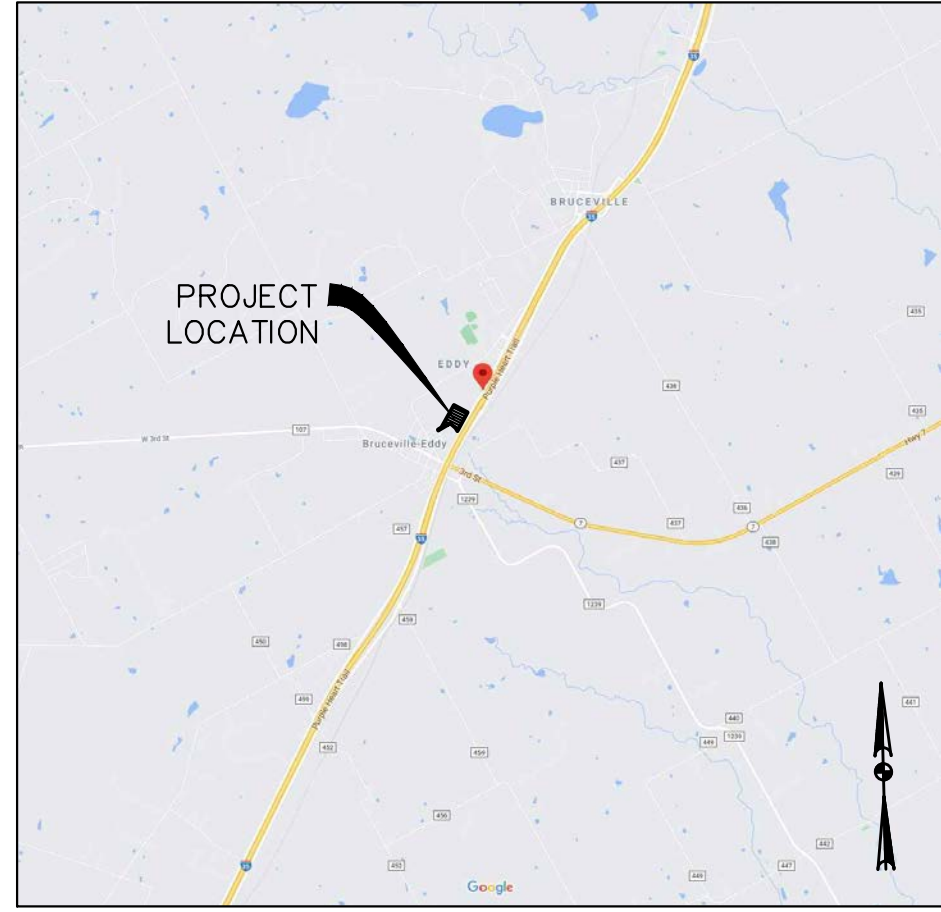
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: _____ CHECKED BY: _____ DATE: _____

SHEET TITLE
FUEL PRODUCT TANK ANCHORING/DEADMAN DETAILS

DRAWING NUMBER
TFP11



VICINITY MAP
N.T.S.

EPA TECHNICAL STANDARDS:

- LEAK DETECTION:**
APPROVED SUMP SENSORS ONLY FOR LEAK DETECTION.
- OVERFILL PREVENTION - SPILL CONTAINMENT:**
VEEDER-ROOT HIGH LEVEL ALARM
- CORROSION PROTECTION:**
TANKS: FIBERGLASS DOUBLE WALL - HALL TANK COMPANY
PIPING: COFLEX PIPE AND FITTINGS
ALL METALLIC COMPONENTS OF THE PIPING SYSTEM TO BE STAINLESS STEEL.
- FUEL ISLANDS**
- FUEL ISLANDS MUST BE MAINTAINED AND KEPT CLEAN AND FREE OF TRASH OR OTHER UNSIGHTLY ITEMS AT ALL TIMES.
 - FUEL ISLANDS MUST HAVE A CONCRETE PAD UNDER THE CANOPY.
 - DISTRIBUTOR MUST PROVIDE OWNER APPROVED TRASH CANS AND WINDSHIELD WASHER CABINETS ON ALL FUEL ISLANDS.
 - FUEL ISLANDS MUST HAVE WELL MAINTAINED, PAINTED CURBS REFLECTIVE OF THE OWNER BRAND IMAGE.

REGULATORY DECALS

DISTRIBUTORS ARE SOLELY RESPONSIBLE FOR PROVIDING PROPER NOTICE AND PLACEMENT OF WARNING/REGULATORY DECALS ON ALL DEF DISPENSERS USED TO NOTIFY THE PUBLIC ABOUT THE DANGERS ASSOCIATED WITH DISPENSING AND USING FUEL AND FUEL PRODUCTS.

FUELING FACILITIES

THE CANOPY MUST BE A MODERN HORIZONTAL STRUCTURE WITH VERTICAL, SMOOTH AND FLAT FASCIA CONSTRUCTED OF METAL, ACM, OR OTHER SIMILAR MATERIAL. THE CANOPY MUST HAVE A CANOPY PAN ON THE UNDERNEATH SIDE OF THE CANOPY AND MUST ALSO HAVE LIGHTING (NON FLUORESCENT) WORKING AND SUITABLE TO THE OVERALL SIZE OF THE CANOPY.

UNAUTHORIZED SIGNAGE ON COLUMNS

UNDER NO CIRCUMSTANCES IS IT ACCEPTABLE TO INSTALL OR DISPLAY SIGNAGE ON THE COLUMNS OF EITHER A TEMPORARY OR PERMANENT NATURE WITHOUT PRIOR, WRITTEN AUTHORIZATION FROM OWNER. THIS INCLUDES BANNERS, PROMOTIONAL SIGNS, POLE WRAP SIGNS, WARNING DECALS, HANDWRITTEN SIGNS AND NOTICES, ETC.

NOTE:
GENERAL CONTRACTOR TO AVOID CONTAMINATION OF DIESEL EXHAUST FLUID (DEF) EQUIPMENT, FOLLOW SPECIFICATIONS INSTALLATION BY MANUFACTURER AS WELL AS TCEQ REQUIREMENTS.

GENERAL CONTRACTOR TO VERIFY ELECTRICAL OUTPUT ADEQUATE FOR NEW SYSTEM.

QUALITY ASSURANCE/QUALITY CONTROL:
THE ISO SPECIFICATIONS FOR DEF ARE STRINGENT, AND PROPER STORAGE AND DISPENSING TECHNIQUES ARE KEY TO ENSURING THAT DEF DELIVERED TO VEHICLES IS ON-SPECIFICATION. TO ENSURE DEF QUALITY, KNOW YOUR SUPPLIER, PURCHASE DEF AND EQUIPMENT ONLY FROM SUPPLIERS WHO CAN PROVIDE DOCUMENTATION THAT THE PRODUCT MEETS ISO SPECIFICATIONS.

GAS PUMP DISCONNECT NEUTRAL

CIRCUIT DISCONNECTS: EACH CIRCUIT LEADING TO OR THROUGH A DISPENSING PUMP SHALL PROVIDE FOR THE SIMULTANEOUSLY DISCONNECTING FROM THE SOURCE OF SUPPLY ALL CONDUCTORS INCLUDING THE GROUNDED CONDUCTOR, IF ANY. NEC 514.11

XERXES GUIDE SPECIFICATIONS - DOUBLE-WALL FRP TANKS FOR DEF STORAGE

SHORT FORM
THE OWNER SHALL PROVIDE A DOUBLE-WALL FIBERGLASS REINFORCED PLASTIC (FRP) UNDERWRITERS LABORATORIES-LABELED UNDERGROUND STORAGE TANK AS SHOWN ON THE DRAWINGS. THE TANK SIZE, FITTINGS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS. THE FIBERGLASS DEF TANK SHALL BE MANUFACTURED BY XERXES CORPORATION.

THE TANK SHALL BE TESTED AND INSTALLED ACCORDING TO THE XERXES INSTALLATION MANUAL AND OPERATING GUIDELINES FOR DOUBLE-WALL FIBERGLASS UNDERGROUND DEF STORAGE TANKS IN EFFECT AT TIME OF INSTALLATION.

LONG FORM

- PART I: GENERAL**
1.01 QUALITY ASSURANCE
A. ACCEPTABLE MANUFACTURER: XERXES CORPORATION
B. GOVERNING STANDARDS, AS APPLICABLE:
1. UNDERWRITERS LABORATORIES (UL) STANDARD FOR SAFETY 1316, FILE MH 9061 FOR STORAGE OF FLAMMABLE LIQUIDS. A UL LABEL SHALL BE ATTACHED TO EACH TANK.
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS:
NFPA 30: FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
NFPA 30A: AUTOMOTIVE AND MARINE SERVICE STATION CODE
NFPA 31: INSTALLATION OF OIL-BURNING EQUIPMENT.
3. LOCAL FIRE DEPARTMENT REQUIREMENTS.

- PART II: PRODUCTS**
2.01 DOUBLE-WALL FIBERGLASS REINFORCED PLASTIC (FRP) UNDERGROUND STORAGE TANKS
A. LOADING CONDITIONS - TANK SHALL MEET THE FOLLOWING DESIGN CRITERIA:
4. INTERNAL LOAD - TANK SHALL WITHSTAND A 5-PSIG AIR-PRESSURE TEST WITH 5:1 SAFETY FACTOR. CONTRACTOR SHALL INDIVIDUALLY TEST TANKS FOR LEAKAGE PRIOR TO INSTALLATION. MAXIMUM TEST PRESSURE IS 5 PSIG.
5. VACUUM TEST - TO VERIFY STRUCTURAL INTEGRITY, EVERY STANDARD 10'-DIAMETER TANK AND SMALLER SHALL BE VACUUM TESTED BY THE MANUFACTURER AT THE FACTORY TO 11.5" OF MERCURY.
6. SURFACE LOADS - TANK SHALL WITHSTAND SURFACE H-20 AXLE LOADS WHEN PROPERLY INSTALLED ACCORDING TO MANUFACTURER'S CURRENT INSTALLATION MANUAL AND OPERATING GUIDELINES.
7. EXTERNAL HYDROSTATIC PRESSURE - TANK SHALL BE CAPABLE OF BEING BURIED IN GROUND WITH 7' OF OVERBURDEN OVER THE TOP OF THE TANK, THE HOLE FULLY FLOODED AND A SAFETY FACTOR OF 5:1 AGAINST GENERAL BUCKLING.
8. TANK SHALL SUPPORT ACCESSORY EQUIPMENT - SUCH AS HEATING COILS, DROP TUBES, SUBMERSIBLE PUMPS AND LADDERS - WHEN INSTALLED ACCORDING TO TANK MANUFACTURER'S CURRENT INSTALLATION MANUAL AND OPERATING GUIDELINES.
9. TANK SHALL BE CAPABLE OF STORING DEF & PETROLEUM PRODUCTS WITH SPECIFIC GRAVITY UP TO 1.1.
10. TANK SHALL BE VENTED TO ATMOSPHERIC PRESSURE.
11. TANK SHALL BE CAPABLE OF STORING PRODUCTS IDENTIFIED IN THE MANUFACTURER'S CURRENT STANDARD LIMITED WARRANTY.
B. PRODUCT STORAGE
12. TANK SHALL BE CAPABLE OF STORING DEF & PETROLEUM PRODUCTS WITH SPECIFIC GRAVITY UP TO 1.1.
13. TANK SHALL BE VENTED TO ATMOSPHERIC PRESSURE.
14. TANK SHALL HAVE NOMINAL CAPACITY OF 8,000 GALLONS.
15. TANK SHALL HAVE NOMINAL OUTSIDE DIAMETER OF 8'-0" FEET.
16. TANK SHALL HAVE A SPACE BETWEEN THE PRIMARY AND SECONDARY WALLS TO ALLOW FOR THE FREE FLOW AND CONTAINMENT OF LEAKED PRODUCT FROM THE PRIMARY TANK. THE SPACE ALSO ALLOWS THE INSERTION OF A MONITORING DEVICE THROUGH A MONITORING FITTING.
C. MATERIALS
17. TANK SHALL BE MANUFACTURED WITH 100% RESIN AND GLASS-FIBER REINFORCEMENT, NO SAND FILLERS.
D. TANK DIMENSIONS (REFER TO XERXES LITERATURE ON GALLONAGE)
18. TANK SHALL HAVE NOMINAL CAPACITY OF 8,000 GALLONS.
19. TANK SHALL HAVE NOMINAL OUTSIDE DIAMETER OF 8'-0" FEET.
E. INTERSTITIAL SPACE
20. TANK SHALL HAVE A SPACE BETWEEN THE PRIMARY AND SECONDARY WALLS TO ALLOW FOR THE FREE FLOW AND CONTAINMENT OF LEAKED PRODUCT FROM THE PRIMARY TANK. THE SPACE ALSO ALLOWS THE INSERTION OF A MONITORING DEVICE THROUGH A MONITORING FITTING.

- 2.02 ACCESSORIES**
A. OPTIONAL ANCHOR STRAPS
16. STRAPS SHALL BE FRP ANCHOR STRAPS AS SUPPLIED BY TANK MANUFACTURER.
17. NUMBER AND LOCATION OF STRAPS SHALL BE SPECIFIED IN CURRENT LITERATURE BY TANK MANUFACTURER.
B. MANWAYS
18. ALL MANWAYS SHALL BE FLANGED AND 22" I.D., COMPLETE WITH UL-LISTED GASKETS, BOLTS AND COVERS. (30" AND 36" I.D. MANWAYS ARE ALSO AVAILABLE ON CERTAIN LARGER TANKS).
19. LOCATION IS SHOWN ON TANK DRAWINGS.
20. OPTIONAL MANWAY EXTENSIONS SHALL BE FRP AND 24" LONG.
C. GAUGE PLATES
21. GAUGE PLATES SHALL BE INSTALLED UNDER EACH SERVICE FITTING AND MANWAY OPENING.
D. OPTIONAL HEATING COILS
22. OPTIONAL HEATING COILS SHALL BE INSTALLED IN A SEPARATE 22" MANWAY AND SHALL BE AS SUPPLIED BY TANK MANUFACTURER.
E. OPTIONAL LADDERS
23. LADDERS SHALL BE THE STANDARD LADDER AS SUPPLIED BY TANK MANUFACTURER (ALUMINUM, CARBON STEEL OR FIBERGLASS).
F. NPT THREADED FITTINGS
24. ALL STANDARD THREADED FITTINGS SHALL BE STAINLESS STEEL HALF-COUPPLINGS AND SHALL BE 4" OR 6" DIAMETER. REDUCERS ARE TO BE USED FOR SMALLER SIZES WHERE SHOWN AND PROVIDED BY CONTRACTOR.
25. STRENGTH - NPT FITTINGS SHALL WITHSTAND A MINIMUM OF 150 FOOT-POUNDS OF TORQUE AND 1,000 FOOT-POUNDS OF BENDING, BOTH WITH A 2:1 SAFETY FACTOR.
G. MONITOR FITTINGS
26. EACH MONITOR FITTING SHALL CONSIST OF A 4" NPT STAINLESS STEEL FITTING ON THE TANK. TANKS WITH A HYDROSTATIC MONITORING SYSTEM DO NOT HAVE A MONITOR FITTING.

PART III: TESTING AND INSTALLATION

- 3.01 TESTING**
A. TANK SHALL BE TESTED ACCORDING TO THE XERXES INSTALLATION MANUAL AND OPERATING GUIDELINES FOR DOUBLE-WALL DEF FIBERGLASS UNDERGROUND STORAGE TANKS IN EFFECT AT TIME OF INSTALLATION.
3.02 INSTALLATION
A. TANK SHALL BE INSTALLED ACCORDING TO THE XERXES INSTALLATION MANUAL AND OPERATING GUIDELINES FOR DOUBLE-WALL DEF FIBERGLASS UNDERGROUND STORAGE TANKS IN EFFECT AT TIME OF INSTALLATION.
B. CONTRACTOR SHALL BE TRAINED BY THE TANK MANUFACTURER, THE STATE OR OTHER APPROVED AGENCY.

PART IV: WARRANTY

- 4.01 WARRANTY**
A. WARRANTY SHALL BE MANUFACTURER'S LIMITED WARRANTY FOR DOUBLE-WALL DEF UNDERGROUND PETROLEUM TANKS IN EFFECT AT TIME OF PURCHASE.

LEGEND

- 1 UNDERGROUND FIBERGLASS FUEL STORAGE TANKS - BY WATCO TANKS INC. AND XERXES, (10'-6" DIA TYP.) OR APPROVED EQUAL.
2 40,000 GAL. TANK FOR DIESEL (WATCO)
3 40,000 GAL. TANK DIVIDED AT 26,000 REGULAR, 8,000 PREMIUM AND 6,000 ETHANOL (WATCO)
4 8,000 GAL. TANK FOR DEF (XERXES)

RE: TFP1-10 FOR TRUCK FUELING STATION INFORMATION ALL TANK INSTALLATIONS SHALL BE IN ACCORDANCE WITH 2021 IFC AND ALL TCEQ GUIDELINES AND RULES. (or latest issue)

NOTE:
ALL UNDERGROUND PIPING TO BE AP P-150-SC-MR (1 1/2" DOUBLE WALL PIPE, MASTER REAL), OR APPROVED EQUAL, VERIFY WITH OWNER. (VERIFY PIPING LAYOUT AS REQUIRED)

CONTRACTOR REQUIREMENTS:

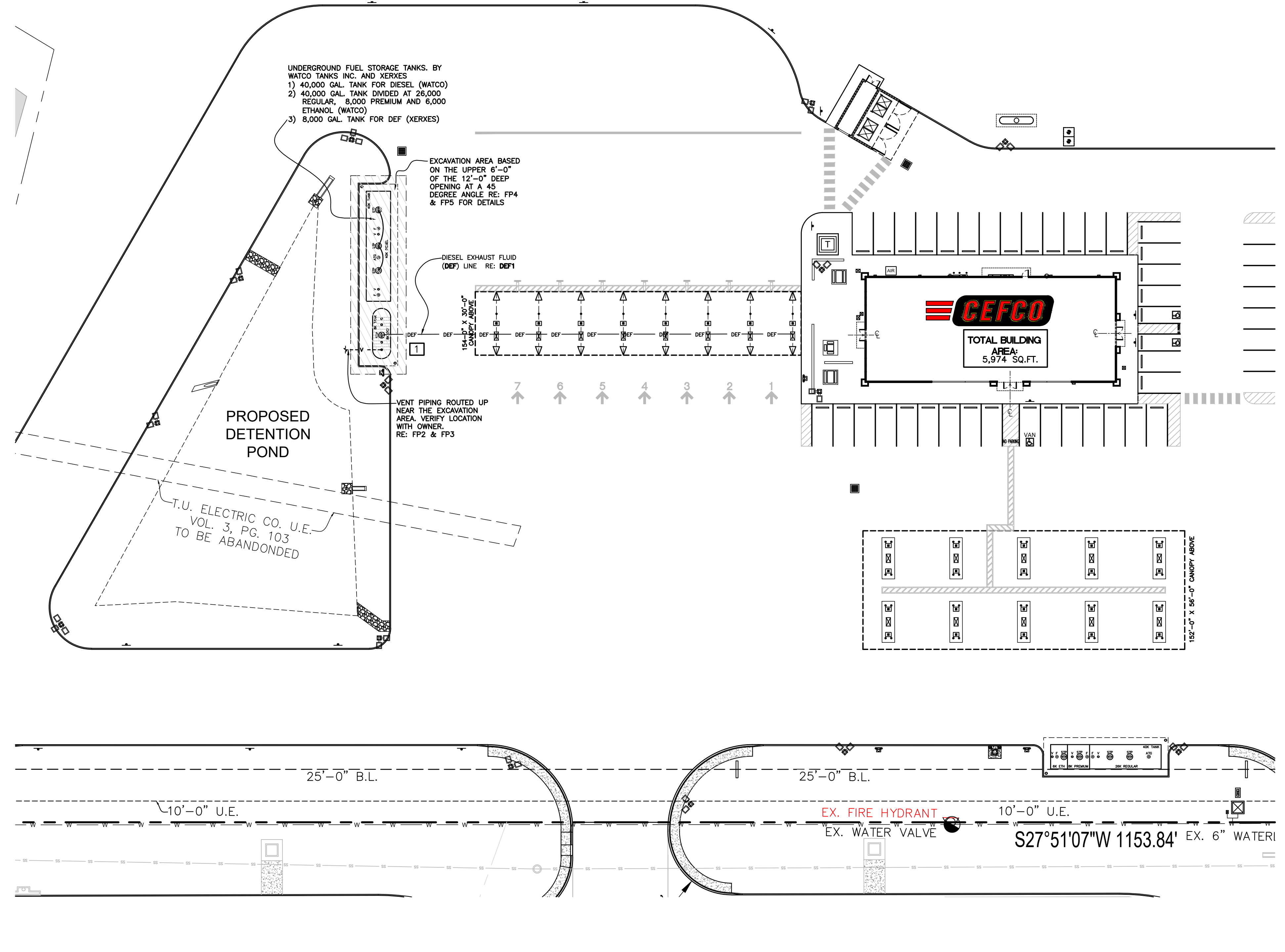
- OBTAIN PERMIT FOR TANK INSTALLATION
- EXCAVATE TANK PIT AND DISPOSE OF DIRT (VERIFY WITH CONTRACTOR PRIOR TO THE DISPOSAL OF DIRT).
- CONTRACTOR MUST BID SLOPE TOLL
- SET TANKS TO MANUFACTURERS REQUIREMENTS. FURNISH NECESSARY GRAVEL AND/OR SAND FOR TANKS AND TRENCHES FOR LINES.
- FURNISH AND INSTALL ALL PIPE AND FITTINGS.
- INSTALL ALL EPA COMPONENTS, VALVES, FITTINGS, MANHOLES AS REQUIRED AND SHOWN.
- FURNISH AND INSTALL ALL RISER PIPES.
- FURNISH AND INSTALL ALL OBSERVATION WELLS AS REQUIRED.
- INSTALL UNDER DISPENSER CONTAINMENT AND ISLANDS WHERE REQUIRED.
- INSTALL REMOTE PUMPS, LEAKS DETECTORS, AND DISPENSERS.
- PURGE LINES AND CALIBRATE DISPENSERS BEFORE SYSTEM IS SET INTO FULL OPERATION.
- PRECISION TEST TANKS AND LINES IN ACCORDANCE WITH EPA/TCEQ REGULATIONS AND THEIR RESPECTIVE LOCAL AGENCIES.

ELECTRICAL REQUIREMENTS: (WHERE APPLICABLE)

ELECTRICAL REQUIREMENTS: FOR THE EMERGENCY SHUT-OFF AT FUEL ISLANDS
THE CONTRACTOR SHALL COMPLIED WITH THE NEW NFPA 70 SECTION 514.11 CIRCUIT DISCONNECTS
514.11: REVISED TO IDENTIFY ALL OF THE TYPES OF CIRCUITS THAT ARE REQUIRED TO BE DISCONNECTED AND TO CHANGE "ACCEPTABLE" TO "APPROVED" IN REGARD TO OTHER TYPES OF DISCONNECTING MEANS.
(A) GENERAL. EACH CIRCUIT LEADING TO OR THROUGH DISPENSING EQUIPMENT, INCLUDING ALL ASSOCIATED POWER, COMMUNICATION, DATA, AND VIDEO CIRCUITS, AND EQUIPMENT FOR REMOTE PUMPING SYSTEMS, SHALL BE PROVIDED WITH A CLEARLY IDENTIFIED AND READILY ACCESSIBLE SWITCH OR OTHER APPROVED MEANS, LOCATED REMOTE FROM THE DISPENSING DEVICES, TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY, ALL CONDUCTORS OF THE CIRCUITS, INCLUDING GROUNDED CONDUCTOR, IF ANY.
SINGLE-POLE BREAKERS UTILIZING HANDLE TIES SHALL NOT BE PERMITTED.
(B) ATTENDED SELF SERVICE MOTOR FUEL DISPENSING FACILITIES. EMERGENCY CONTROLS AS SPECIFIED IN 514.11(A) SHALL BE INSTALLED AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, BUT CONTROLS SHALL NOT BE MORE THAN 30M (100FT) FROM DISPENSERS. [30A:6.7.1]

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2203.0 EMERGENCY DISCONNECT SWITCHES: (2021 IFC) (or latest issue)
AN APPROVED, CLEARLY IDENTIFIED READILY ACCESSIBLE EMERGENCY DISCONNECT SWITCH SHALL BE PROVIDED AT AN APPROVED LOCATION, TO STOP THE TRANSFER OF FUEL DISPENSERS IN THE EVENT OF A FUEL SPILL OR OTHER EMERGENCY. AN EMERGENCY DISCONNECT SWITCH FOR EXTERIOR FUEL DISPENSERS SHALL BE LOCATED WITHIN 100 FEET (30 480 mm) OF, BUT NOT FOR LESS THAN 20 FEET (6096 mm) FROM THE FUEL DISPENSERS.
FOR INTERIOR FUEL-DISPENSING OPERATIONS, THE EMERGENCY DISCONNECT SWITCH SHALL BE INSTALLED AT AN APPROVED LOCATION. SUCH DEVICES SHALL BE DISTINCTLY LABELED AS: EMERGENCY FUEL SHUTOFF. SIGNS SHALL BE PROVIDED IN APPROVED LOCATIONS.
EMERGENCY PROCEDURE SIGN WILL BE PLACED BY EMERGENCY DISCONNECT SWITCH AND SHALL READ:
IN CASE OF FIRE, SPILL, OR RELEASE USE EMERGENCY PUMP SHUTOFF REPORT THE ACCIDENT! FIRE DEPARTMENT TELEPHONE NO. 9-1-1 FACILITY ADDRESS: I-35 FRONTAGE ROAD EDDY TEXAS 76524
FIRE EXTINGUISHERS WITH A RATING OF 2-A-20-B-C SHALL BE REQUIRED AND INSTALLED IN A MANNER TO PROVIDE ONE WITHIN 75 FT. OF EACH MOTOR FUEL DISPENSING PUMP.



NOTE:
NO ABOVE GROUND REMOTE FILL BOXES, NO OVERFILL ALARM, NO VENT STACK OVERFILL ALARM.

SITE PLAN - DIESEL EXHAUSTED FLUID LAYOUT
SCALE: 1:30
RE: SURVEY
TOTAL LAND AREA: 10.124 ACRES (441,000 SQ. FT.)



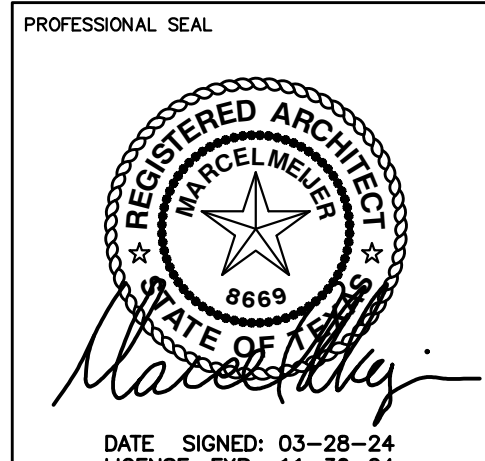
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEF1.DWG

PROJECT TITLE

CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
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SCOPE OF THE DOCUMENT
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REVISIONS

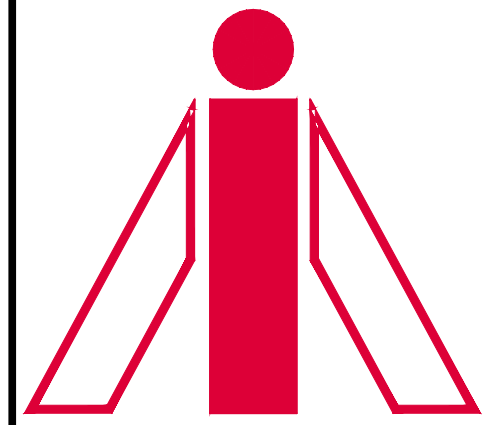
NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE

DIESEL EXHAUST FLUID (DEF) LAYOUT SITE PLAN

DRAWING NUMBER SHEET NO.
DEF1



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEF2.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



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REVISIONS

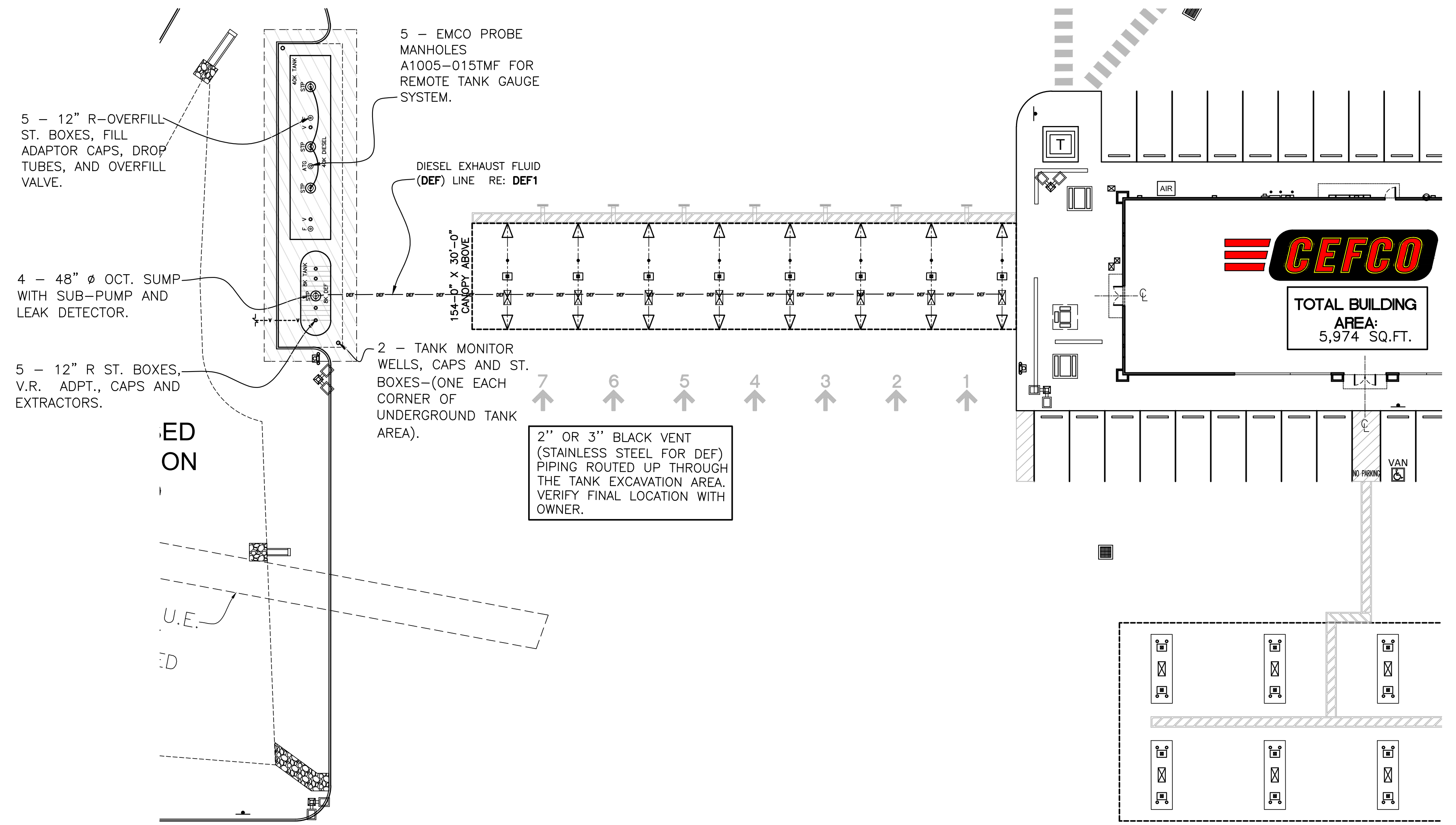
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SHEET TITLE
DIESEL EXHAUST FLUID (DEF) LINE LAYOUT DETAILS

DRAWING NUMBER
DEF2

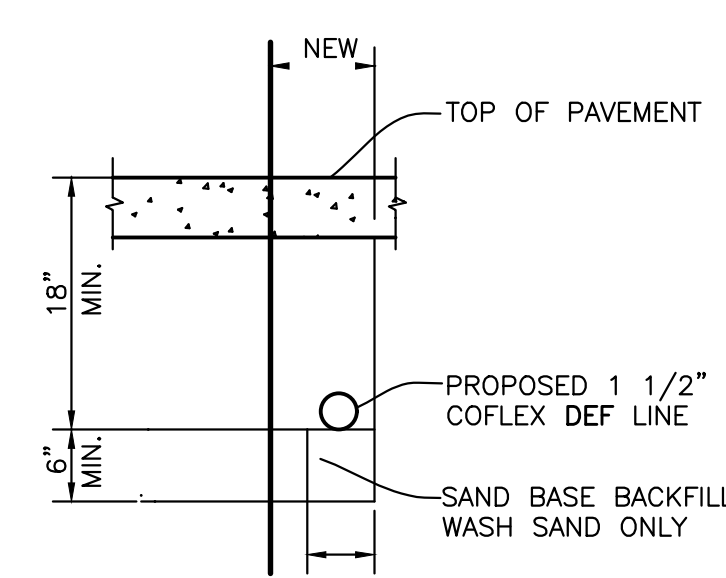
SHEET NO.



NOTE:
NO ABOVE GROUND REMOTE FILL BOXES, NO OVERFILL ALARM, NO VENT STACK OVERFILL ALARM.

NOTE:
MANIFOLD PHASE 2 V.R. LINE TO EACH UNDERGROUND TANK. LAYOUT IS DRAWN FOR DIAGRAMATIC PURPOSES ONLY. FLEX LINE DOES NOT REQUIRE TRENCH.

1 PRODUCT LINE LAYOUT
SCALE: N.T.S.



NOTE: PIPE TRENCHES MUST ALLOW ADEQUATE CLEARANCE AND COVER TO PROTECT PIPING AND COATINGS FROM PHYSICAL DAMAGE. BACKFILLING AND COMPACTION REQUIREMENTS ARE THE SAME AS FOR TANK EXCAVATIONS. FOR OTHER SIZE PIPE, USE TWICE THE PIPE DIAMETER BETWEEN PIPES. LINES WILL VARY WITH SLOPE REQUIRED. 1/8" PER LINEAR FOOT MIN. SLOPE.

PRODUCT LINE TRENCH DETAIL
NOT TO SCALE
RE:

FUEL NOTES

PIPING NOTES:
ALL BACKFILL TO BE COMPACTED TO 95% S.P.D. BACKFILL AND BEDDING MATERIAL TO BE:
GRAVEL: WASHED ROUNDED PEA GRAVEL WITH A MINIMUM DIAMETER 1/4" AND A MAXIMUM DIAMETER OF 1/2".
STONE CRUSHINGS: WASHED AND FREE FLOWING WITH ANGULAR PARTICLE SIZE BETWEEN 1/8" AND 1/2" AND MEET ASTM C-33 PARAGRAF 9.1.
NOTE: NO MORE THAN 3% OF BACKFILL MATERIAL SHALL PASS THROUGH A #8 SIEVE.

LINE TESTING:

GENERAL CONTRACTOR TO COMPLETE THE "INSTALLATION CHECKLIST" INCLUDED IN THE SPECIFICATIONS AND SUBMIT THE INFORMATION REQUESTED TO THE OWNER.
POST-INSTALLATION TESTING: ISOLATE LINES FROM UNDERGROUND STORAGE TANKS. PRESSURIZE LINES TO A MINIMUM OF 25 P.S.I. FOR A PERIOD LONG ENOUGH TO DETERMINE THAT THERE ARE NO LEAKS AS INDICATED BY SOAP BUBBLES OR A DROP IN THE PRESSURE OF THE LINE.
DURING SITE WORK TESTING: MAINTAIN A LINE PRESSURE OF 10 PSI IN THE PIPE DURING CONSTRUCTION OF THE REST OF THE FACILITY TO MONITOR THE INTEGRITY OF THE PIPING. CHECK GAUGES AT REGULAR INTERVALS.
POST-SITE WORK INSTALLATION TESTING: GENERAL CONTRACTOR TO HAVE A TESTING LABORATORY PERFORM A PRECISION LINE TEST AFTER ALL PAVING AND SITE WORK HAS BEEN DONE.

GUARDIAN SERIES™ FIXED SPEED PUMP CONTROLLER

The Guardian Series™ single-phase controller takes a major leap forward in fixed speed Submersible Turbine Pump (STP) control. Built upon the solid FE PETRO® brand smart controller platform, Guardian Series™ controllers feature an enhanced user interface, greater functionality, and higher performance compared to standard control boxes.

TECHNICAL ADVANTAGES

- Compatible with FE PETRO® single-phase 2 Hp, 1½ Hp, ¾ Hp, and ¾ Hp fixed speed STPs, as well as comparable competitive STPs.
- 3½ digit LCD provides readable running and fault status for quick troubleshooting.
- Separate "Reset" and "Silence/Calibrate" push buttons provide clear interaction with the controller.
- Automatically logs the last five abnormal conditions seen in the pumping system. This data is retained in non-volatile memory. Service technicians can quickly view a history of abnormal conditions, which is particularly useful when troubleshooting intermittent conditions.
- Over voltage protection and enhanced underload detection protects pumping system equipment.
- With a single press of the "Calibrate" button, the controller will automatically learn the electrical characteristics of the STP for easy setup or retrofit.

SPECIFICATIONS

- Dimensions: 8½" x 5" x 3" (215 mm x 127 mm x 76 mm)
- Motor contact rating: 2 Hp, 200-250 VAC, 50/60 Hz, Single Phase
- Switch hook rating: 120-240 VAC, 50/60 Hz
- An integrated RS-485 com port is provided to connect Guardian Series™ Controllers to EVOM™ Series Automatic Tank Gauges (ATGs) for enhanced functionality via Turbine Pump Interface (TPI).

Approvals & Certifications

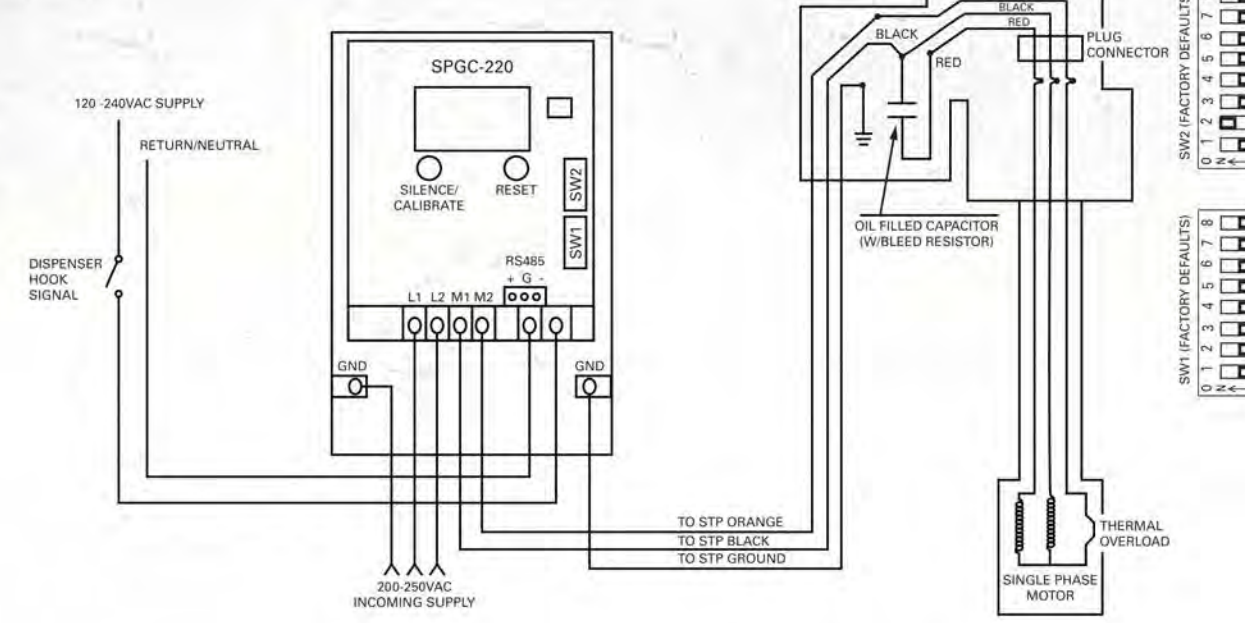
- ULc listed.
- CE certified.
- ISO 9001:2015 certified manufacturer.

Capabilities

Capability	Standard Body Box (STP-CSD)	Smart Controller (STP-SCD)	Guardian Series™ Controller (SPGC-220)
Pump Compatibility	up to 2 Hp	up to 2 Hp	up to 2 Hp
Horsepower Selection	Not Required	Not Required	Not Required
Standard THHN Wiring	YES	YES	YES
Primary/Secondary Pump Operation	NO	YES	YES
Alternating Pump Operation	NO	YES	YES
Communication Display	NO	YES, yellow flashing light	YES, yellow flashing light
Incoming Power Display	NO	YES, solid green light	YES, displays "GAL"
Pump Running Display	YES, red pilot light	YES, green flashing light	YES, flashes "run"
Fault History Readout	NO	YES, four led four faults	YES, displays last five faults
Fault Diagnostics	NO	YES, red flashing light	YES, red backlight display
Underload (dry run) Detection	NO	YES, 1 red flash	YES, flashes "UL"
Low Incoming Voltage Protection	NO	YES, 2 red flashes	YES, flashes "L1"
High Incoming Voltage Protection	NO	YES, surge protection	YES, flashes "H1"
Overhead (warning) Detection	NO	YES, 3 red flashes	YES, flashes "OL"
Overload (shutdown) Detection	NO	YES, 3 red flashes	YES, flashes "L1"
Open Circuit Detection	NO	YES, 4 red flashes	YES, flashes "OC"
Extended Run Protection	NO	YES, 9 red flashes	YES, flashes "Er"
Relay Failure Protection	NO	YES, 10 red flashes	YES, flashes "REL"
Audible Fault Alarm	NO	YES, restorable button	YES, separate silence button

SPECIFICATIONS

Wiring Diagram



Note: See product installation instructions for further details. Wiring must conform to all federal, state, and local codes. Control panels are for non-hazardous indoor use only.

ORDERING INFORMATION

Model	Description
5800100220	SPGC-220 Guardian Series™ Single-Phase Controller, 220 Volt
402312931	STP-DH1 + SPGC-220 Guardian Series™ Single-Phase Controller bundle (220 Volt supply, 110 Volt hook)
402312932	STP-DH1B + SPGC-220 Guardian Series™ Single-Phase Controller bundle (220 Volt supply, 240 Volt hook)

- Notes:
- Compatible with all single-phase FE PETRO® and competitive model STPs.
 - One controller required for each submersible (up to 2 Hp).
 - Compatible for use in primary/secondary configurations with STP-SD models.

Replacement Parts

Item	Model	Description
1	225005932	SPGC-220 upper user input replacement board
2	225005932	SPGC-220 lower (power, relay) replacement board

franklinfueling.com
3750 Marsh Rd • Madison, WI 53718, USA
Tel: USA & Canada +1 800 225 9787 • Fax: +1 608 838 6433
Tel: UK +44 (0) 1473 243300 • Tel: Mex (0) 800 738 7610
Tel: DE +49 (0) 71 105 380 • Tel: CH +46 10 8660 4566

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NOTES:

THE API COLOR CODE FOR THE E-85 PRODUCT IS "LIGHT BLUE". PAINT THE MANHOLE LIDS AND RINGS LIGHT BLUE.

DO NOT USE ANY SOFT METALS SUCH AS GALVANIZED, BRASS, COPPER, ETC. STAINLESS STEEL IS THE ONLY PRODUCT CAN BE USED FOR METAL CONNECTIONS. NEED TO BE USED STAINLESS STEEL PIPE, NIPPLES IN THE SUBMERSIBLE SUMP AREA AND UNDER THE DISPENSER AND USE STAINLESS STEEL PIPE FOR ALL THE TANK RISER AND USE STAINLESS STEEL PIPE FOR THE SUBMERSIBLE PUMP SUCTION TUBE.

MAKE SURE DISPENSER MANUFACTURE DOES THE PROPER DEF DECALING OF THE DISPENSER.

NOTE:

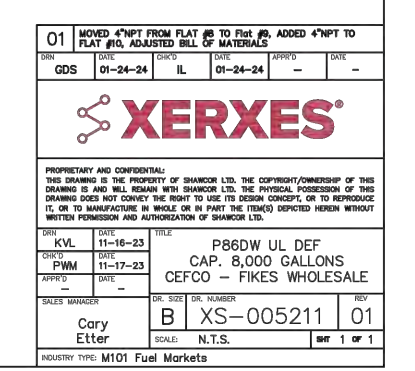
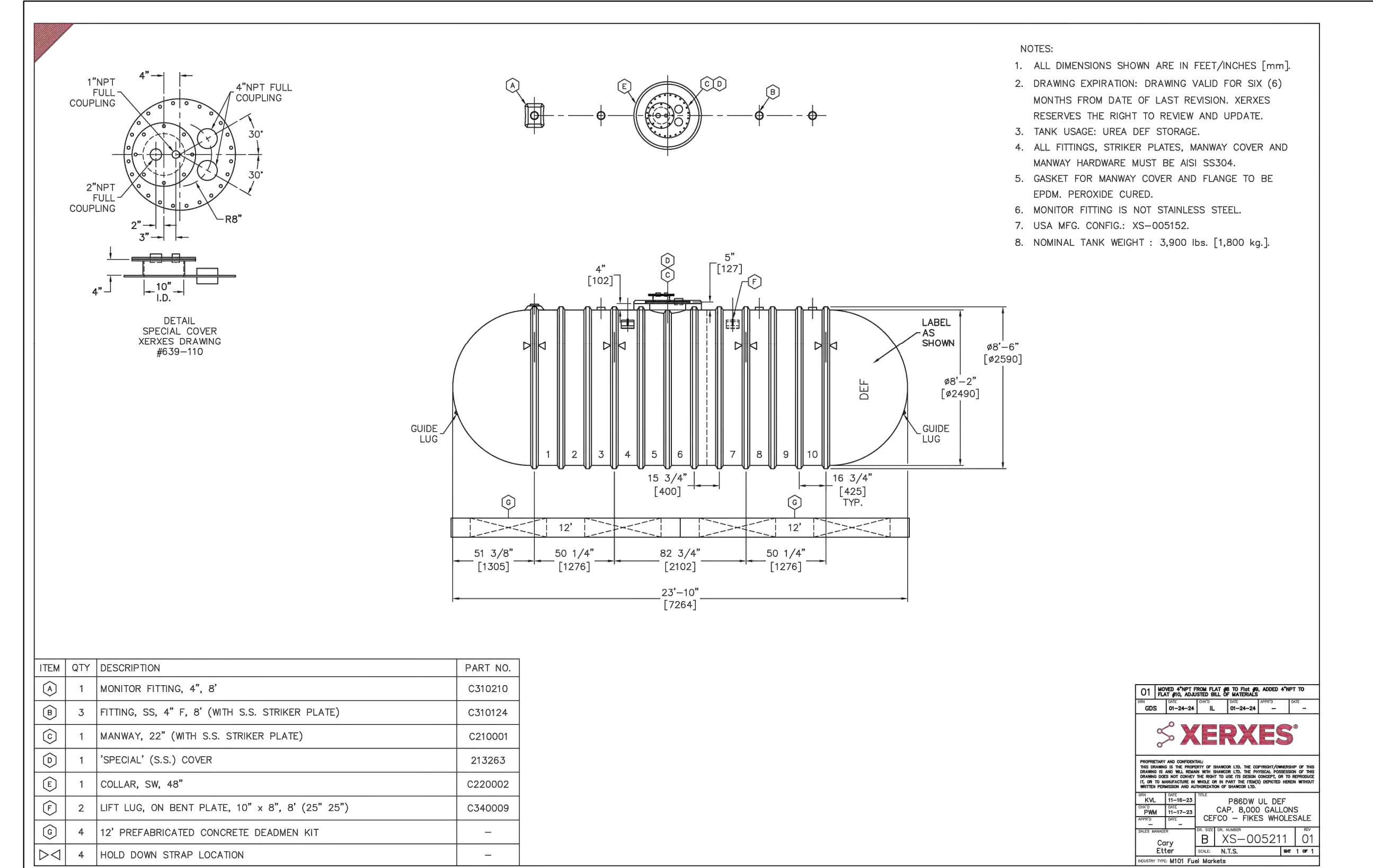
GENERAL CONTRACTOR TO AVOID CONTAMINATION OF DIESEL EXHAUST FLUID (DEF) EQUIPMENT, FOLLOW SPECIFICATIONS INSTALLATION BY MANUFACTURE AS WELL AS TCEQ. REQUIREMENTS.

NOTE:

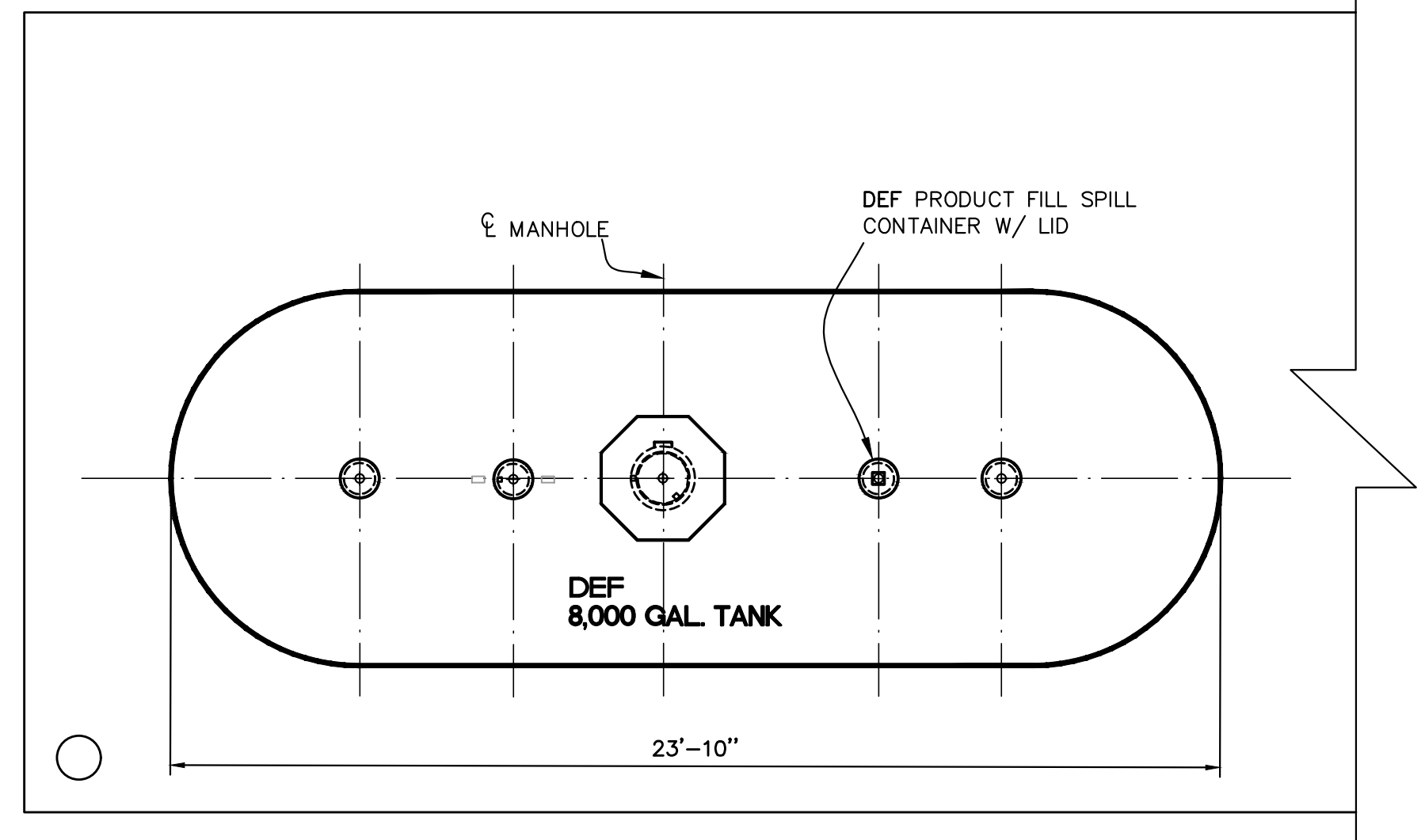
GENERAL CONTRACTOR TO VERIFY ELECTRICAL OUTPUT ADEQUATE FOR NEW SYSTEM.

QUALITY ASSURANCE/QUALITY CONTROL:
THE ISO SPECIFICATIONS FOR DEF ARE STRINGENT, AND PROPER STORAGE AND DISPENSING TECHNIQUES ARE KEY TO ENSURING THAT DEF DELIVERED TO VEHICLES IS ON-SPECIFICATION. TO ENSURE DEF QUALITY, KNOW YOUR SUPPLIER. PURCHASE DEF AND EQUIPMENT ONLY FROM SUPPLIERS WHO CAN PROVIDE DOCUMENTATION THAT THE PRODUCT MEETS ISO SPECIFICATIONS.

PLAN VIEW IS FOR INFORMATION SIMULATION ONLY. REFER TO DRAWING DEF4 FOR TYPES AND SIZES.



NOTE: XERXES SAMPLE TO BE USED AS REFERENCE.

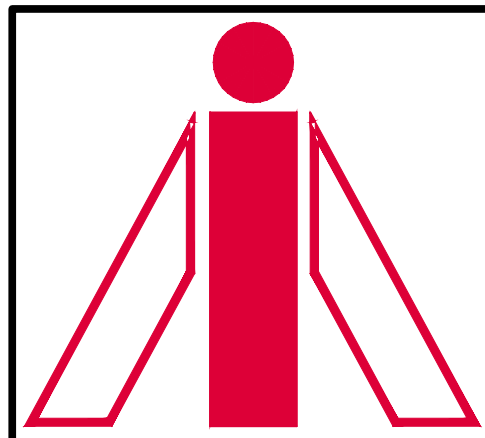


NOTE: LOCATION OF DEF ON UNDERGROUND TANK
RE: TFP1 FOR TANK LOCATION

13 UNDERGROUND TANK PLAN
SCALE: N.T.S.
RE: SITE PLAN DEF1
PLAN VIEW IS FOR INFORMATION SIMULATION ONLY. REFER TO DRAWING DEF4 FOR TYPE AND SIZES.

NOTE: DOUBLE WALL TANKS

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INTERPLAN ARCHITECTS, INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEF3.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

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09-09-20	MARCEL CAD
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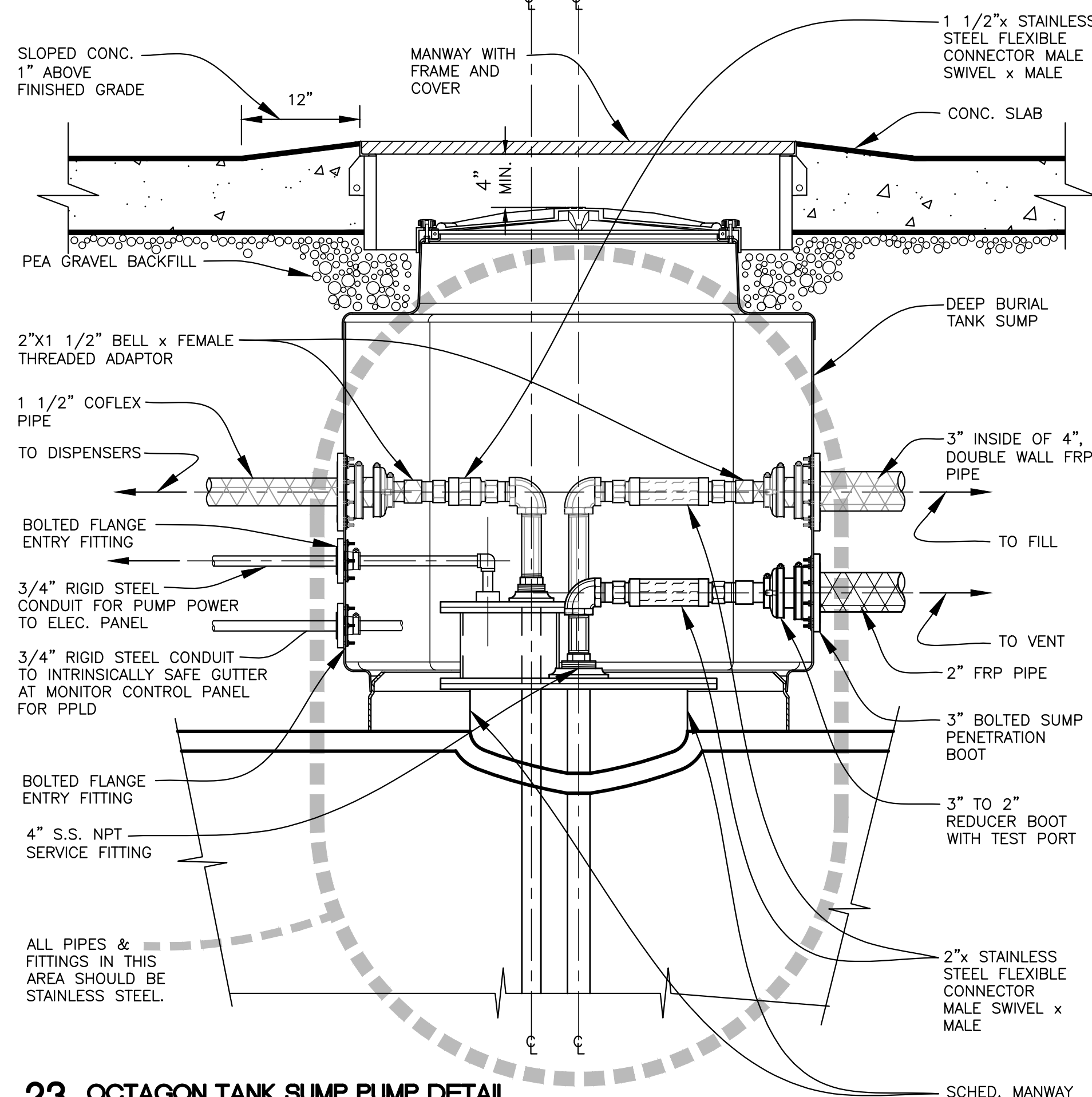
REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
DIESEL EXHAUST FLUID (DEF) UNDERGROUND TANK PLAN + DETAILS

DRAWING NUMBER SHEET NO.
DEF3



23 OCTAGON TANK SUMP PUMP DETAIL
NOT TO SCALE
RE: 4/DEF5

TANK NOTES:

A
ALL BACKFILL TO BE COMPACTED TO 95% S.P.D. BACKFILL AND BEDDING MATERIAL TO BE: SAND: 12" MINIMUM OF CLEAN SAND ON ALL SIDES AND BOTTOM, AND TOP TANK.
GRAVEL: ROUNDED PEA GRAVEL WITH A MINIMUM DIAMETER OF 1/8" AND A MAXIMUM DIAMETER OF 3/4".
STONE CRUSHINGS: WASHED AND FREE FLOWING WITH ANGULAR PARTICLE SIZE BETWEEN 1/8" AND 1/2" AND MEET ASTM C-33 PARAGRAF 9.1.
NOTE: NO MORE THAN 3% OF BACKFILL MATERIAL SHALL PASS THROUGH A #8 SIEVE.

B
FILL AND VENT MANWAYS TO BE PAINTED TO CONFORM WITH OWNER'S REQUIREMENTS PER THE FOLLOWING NOTES:
UNLEADED: WHITE WITH BLACK CROSS
UNLEADED PLUS: BLUE WITH WHITE CROSS
SUPER UNLEADED: RED WITH WHITE CROSS
DIESEL: YELLOW WITH BLACK "U"
MONITORING WELL: YELLOW WITH TWO DIAGONAL RED STRIPES
VAPOR RECOVERY: ORANGE
ALL OTHER STREETBOXES SHOWN SHALL BE BLACK COLOR.
DEF: LIGHT BLUE

C
TANK TESTING:
G.C. TO COMPLETE THE INSTALLATION CHECKLIST INCLUDED IN THE SPECIFICATIONS AND SUBMIT THE INFORMATION REQUESTED TO THE OWNER OR HIS ASSIGNED REPRESENTATIVE.
PRE-INSTALLATION TESTING:
TIGHTEN ALL FITTINGS, PRESSURIZE TANK TO 5 PSI(MAX.), THEN SOAP THE ENTIRE TANK FOR A PERIOD LONG ENOUGH TO DETERMINE THAT THERE ARE NO LEAKS AS INDICATED BY SOAP BUBBLES OR A DROP IN PRESSURE.
POST-INSTALLATION TESTING:
G.C. TO HAVE A TESTING LABORATORY PERFORM A PRECISION TANK TEST AFTER ALL PAVING AND SITE WORK HAS BEEN CONCLUDED.

D
MINIMUM DEPTH OF EXCAVATION DIMENSIONS:
DRY OR WET TANK HOLE WITH TRAFFIC CONDITION:
RE: 21/DEF5 & 23/DEF10

XERXES TANK OR APPROVED EQUAL

DEF STORAGE TANK SUPPLEMENTAL INSTRUCTIONS
7901 XERXES AVENUE SOUTH, MINNEAPOLIS, MN 55431-1288 L 952.887.1890 L
WWW.XERXES.COM ©2011 ZCL COMPOSITES INC. XDEF04/11H

1. GENERAL
1.1. THESE INSTRUCTIONS FOR INSTALLING DEF (DIESEL EXHAUST FUEL) UNDERGROUND STORAGE TANKS ARE A SUPPLEMENT TO THE INSTALLATION MANUAL AND OPERATING GUIDELINES (SUBSEQUENTLY REFERRED TO AS "INSTALLATION MANUAL").
1.2. BEFORE BEGINNING THE TANK INSTALLATION, READ THROUGH THE ENTIRE INSTALLATION MANUAL AND THE DEF STORAGE TANK SUPPLEMENTAL INSTRUCTIONS (BOTH SHIPPED WITH AND LAMINATED ON EACH TANK).
1.3. IT IS THE RESPONSIBILITY OF THE OWNER, INSTALLER AND OPERATOR TO UNDERSTAND AND FOLLOW ALL REQUIREMENTS CONTAINED IN THE INSTALLATION MANUAL AND THE DEF STORAGE TANK SUPPLEMENTAL INSTRUCTIONS IN ORDER TO SAFELY AND PROPERLY INSTALL A XERXES UNDERGROUND STORAGE TANK AND ACCESSORIES. FAILURE TO FOLLOW THOSE INSTRUCTIONS WILL VOID XERXES' OBLIGATIONS UNDER THE LIMITED WARRANTY, AND MAY RESULT IN TANK FAILURE, PROPERTY DAMAGE, MINOR OR MODERATE INJURY, OR COULD RESULT IN DEATH OR SERIOUS INJURY.
1.4. IT IS THE RESPONSIBILITY OF THE OWNER, INSTALLER AND OPERATOR TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND STANDARDS, INCLUDING ALL RELEVANT SAFETY PRECAUTIONS.
1.5. XERXES MUST AUTHORIZE-IN WRITING AND PRIOR TO TANK INSTALLATION-ANY VARIATION TO, OR DEVIATION FROM, THE INSTRUCTIONS IN THE INSTALLATION MANUAL AND THE DEF STORAGE TANK SUPPLEMENTAL INSTRUCTIONS.
1.6. ALL CORRESPONDENCE REGARDING VARIATIONS MUST BE RETAINED FOR ANY WARRANTY CLAIM TO BE VALID.
1.7. FOR ANY QUESTIONS REGARDING THE INTERPRETATION OF THESE INSTRUCTIONS OR FOR ANY OTHER TECHNICAL INQUIRIES, CONTACT TECHNICAL SUPPORT AT XERXES MINNEAPOLIS, MN, 952-887-1890.
1.8. IN ADDITION TO LABELS FOR THE INSTALLATION MANUAL AND THIS SUPPLEMENT AFFIXED TO THE TANK, XERXES TANKS THAT ARE DESIGNED FOR DEF STORAGE ALSO HAVE A LAMINATED LABEL OF CAUTIONS PERTAINING TO DEF TANKS. THIS LABEL MUST ALSO BE READ, UNDERSTOOD AND FOLLOWED.

2. TANK CONTAMINATION
2.1. XERXES DEF STORAGE TANKS ARE PROVIDED FACTORY-CLEANED ACCORDING TO THE REQUIREMENTS OF ISO 22241-3 PARAGRAPH 4.3 AND READY TO ACCEPT DEF.
2.2. XERXES DEF STORAGE TANKS ARE SHIPPED WITH ALL TANK FITTINGS SEALED TO PREVENT CONTAMINATION DURING SHIPMENT. ONE FITTING ON THE PRIMARY TANK IS EQUIPPED WITH A PRESSURE-RELIEF VALVE.

CAUTION
IF AT ANY TIME AFTER DELIVERY AND DURING INSTALLATION YOU HAVE CONCERNS ABOUT POSSIBLE CONTAMINATION OF THIS TANK AND ITS SUITABILITY FOR STORING DEF, CONSULT YOUR DEF PROVIDER AND/OR ISO 22241-3 PARAGRAPH 4.3 REGARDING THE NEED FOR FURTHER CLEANING AND FOR INFORMATION ON TANK CLEANING PROCEDURES. FAILURE TO FOLLOW THIS CAUTION AND CLEAN THE TANK, IF NEEDED, ACCORDING TO THE REQUIREMENTS OF ISO 22241-3 PARAGRAPH 4.3 MAY RESULT IN PROPERTY DAMAGE.

2.3. KEEP ALL FACTORY-INSTALLED FITTINGS, INCLUDING THE PRESSURE-RELIEF VALVE, IN PLACE UNTIL YOU BEGIN TESTING. CONSULT SECTION 4 OF THIS DOCUMENT FOR SPECIFIC TESTING INSTRUCTIONS.
2.4. IF THE TANK BECOMES CONTAMINATED DURING INSTALLATION, IT MUST BE CLEANED ACCORDING TO THE REQUIREMENTS OF ISO 22241-3, PARAGRAPH 4.3.
2.4.1. CONSULT YOUR DEF PROVIDER AND/OR ISO 22241-3 PARAGRAPH 4.3 FOR INFORMATION ON TANK CLEANING PROCEDURES.
2.5. IF THE TANK IS TO BE BALLASTED, CONSULT SECTION 5 OF THIS DOCUMENT.

3. TANK FITTINGS
3.1. DEF STORAGE TANKS ARE EQUIPPED WITH EITHER THREADED STAINLESS-STEEL FITTINGS OR FLANGED FIBERGLASS FITTINGS.
3.2. WHEN CONNECTING TO THE TANK FITTINGS, USE ONLY DEF-COMPATIBLE THREAD SEALANTS AND/OR GASKETS.
3.3. THE THREAD SEALANT USED BY XERXES IS POLYTETRAFLUOROETHYLENE(PTFE)-BASED PIPE THREAD SEALANT.

CAUTION
DO NOT USE POLYTETRAFLUOROETHYLENE (PTFE)-BASED TAPE AS A THREAD SEALANT. ONLY USE PTFE-BASED PIPE THREAD SEALANT. FAILURE TO FOLLOW THIS CAUTION MAY RESULT IN PROPERTY DAMAGE.

3.4. THE GASKETS USED BY XERXES ON DEF TANKS ARE COMPRISED OF PEROXIDE-CURED ETHYLENE PROPYLENE DIENE MONOMER (EPDM).
3.5. WHEN CONNECTING TO STAINLESS-STEEL TANK FITTINGS, USE ONLY NON-METALLIC OR STAINLESS-STEEL PIPING.

CAUTION
WHEN MAKING THREADED STAINLESS-STEEL PIPING CONNECTIONS, ALWAYS TAKE CARE TO AVOID OVER-TIGHTENING, SPALLING, AND/OR CROSS-THREADING THE CONNECTION. STAINLESS-STEEL NPT FITTINGS ARE MORE SUSCEPTIBLE TO SUCH THREAD DAMAGE THAN CARBON-STEEL FITTINGS. FAILURE TO FOLLOW THIS CAUTION MAY RESULT IN PROPERTY DAMAGE.

3.6. INSTALL PERMANENT PLUGS IN ALL OPENINGS WHERE PIPING WILL NOT BE INSTALLED.
3.6.1. THE THREADED POLYVINYL-CHLORIDE (PVC) PLUGS FACTORY-INSTALLED TO SEAL THE TANK DURING SHIPMENT MAY BE USED AS PERMANENT PLUGS.
3.6.1.1. IF THE FACTORY-SUPPLIED THREADED PVC PLUGS ARE USED AS PERMANENT PLUGS, TAKE EXTRA CARE TO ENSURE THAT THE PLUGS ARE WATERTIGHT.
3.6.2. IF THREADED PLUGS OTHER THAN PVC ARE USED FOR PERMANENT PLUGS, USE A STAINLESS-STEEL PLUG OR A PLUG MADE FROM OTHER DEF-COMPATIBLE MATERIAL.

4. TESTING
CAUTION
DURING TANK TESTING AND INSPECTION, TAKE CARE TO ENSURE THAT ALL DIRT, DUST AND DEBRIS THAT MAY CONTAMINATE THE TANK ARE NOT ALLOWED TO ENTER THE TANK. IF THE TANK BECOMES CONTAMINATED, IT MUST BE CLEANED ACCORDING TO THE REQUIREMENTS OF ISO 22241-3 PARAGRAPH 4.3. FAILURE TO FOLLOW THIS CAUTION MAY RESULT IN PROPERTY DAMAGE.

4.1. DEF TANKS ARE SHIPPED WITH ALL TANK OPENINGS SEALED TO PREVENT CONTAMINATION DURING SHIPMENT. KEEP ALL FACTORY-INSTALLED FITTINGS, INCLUDING THE PRESSURE RELIEF FITTING, IN PLACE WHENEVER POSSIBLE.
4.2. DOUBLE-WALL DEF TANKS DO NOT REQUIRE ADDITIONAL ON-SITE AIR TESTING, PROVIDED THAT THE TANK MEETS ONE OF THE FOLLOWING CRITERIA:
4.2.1. IF THE TANK IS SHIPPED WITH VACUUM IN THE INTERSTICE, IT ARRIVES ON THE JOBSITE WITH A VACUUM GAUGE READING OF 12 INCHES OF MERCURY OR MORE.
4.2.2. IF THE TANK IS SHIPPED WITH MONITORING FLUID IN THE INTERSTICE, NO MONITORING FLUID IS VISUALLY DETECTED INSIDE OR OUTSIDE THE TANK.
4.2.3. IF THE DOUBLE-WALL TANK DOES NOT MEET THE RELEVANT CRITERIA STATED ABOVE, CONTACT THE XERXES PLANT NEAREST YOU, OR TECHNICAL SUPPORT AT XERXES MINNEAPOLIS, MN, 952-887-1890.
4.3. SINGLE-WALL DEF TANKS REQUIRE THE PRE-INSTALLATION PRESSURE-TESTING PROCEDURES AS OUTLINED IN THE "TESTING A SINGLE-WALL TANK" SECTION OF THE INSTALLATION MANUAL.
4.3.1. IF PRESSURIZING THE PRIMARY TANK AS OUTLINED IN THE INSTALLATION MANUAL, TAKE SPECIAL CARE TO ENSURE THAT THE COMPRESSOR AIR DOES NOT INTRODUCE DIRT, DUST, OIL OR DEBRIS THAT MAY CONTAMINATE THE TANK. IF THE TANK BECOMES CONTAMINATED DURING INSTALLATION, IT SHOULD BE CLEANED ACCORDING TO THE REQUIREMENTS OF ISO 22241-3 PARAGRAPH 4.3.

5. TANK BALLASTING
CAUTION
IF THE TANK MUST BE BALLASTED DURING INSTALLATION, BALLAST THE TANK WITH DEF. FAILURE TO FOLLOW THIS CAUTION MAY RESULT IN PROPERTY DAMAGE.

5.1. IF THE TANK MUST BE BALLASTED DURING INSTALLATION, BALLAST THE TANK WITH DEF.
5.2. IF BALLAST OTHER THAN DEF IS USED (FOR EXAMPLE, POTABLE OR NONPOTABLE WATER), THE TANK SHOULD BE CLEANED ACCORDING TO THE REQUIREMENTS OF ISO 22241-3.

NOTE:

CEFCO WILL PROVIDE LIST OF FUEL SYSTEMS MATERIALS BEING PROVIDED.

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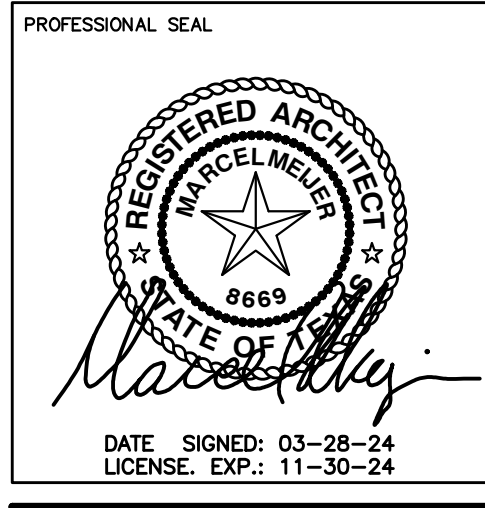
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEF4.DWG

PROJECT TITLE



CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
11-10-20	PROGRESS PRINT
02-16-23	60% REVIEW SET
03-14-24	90% REVIEW SET
03-28-24	100% SET
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SCOPE OF THE DOCUMENT
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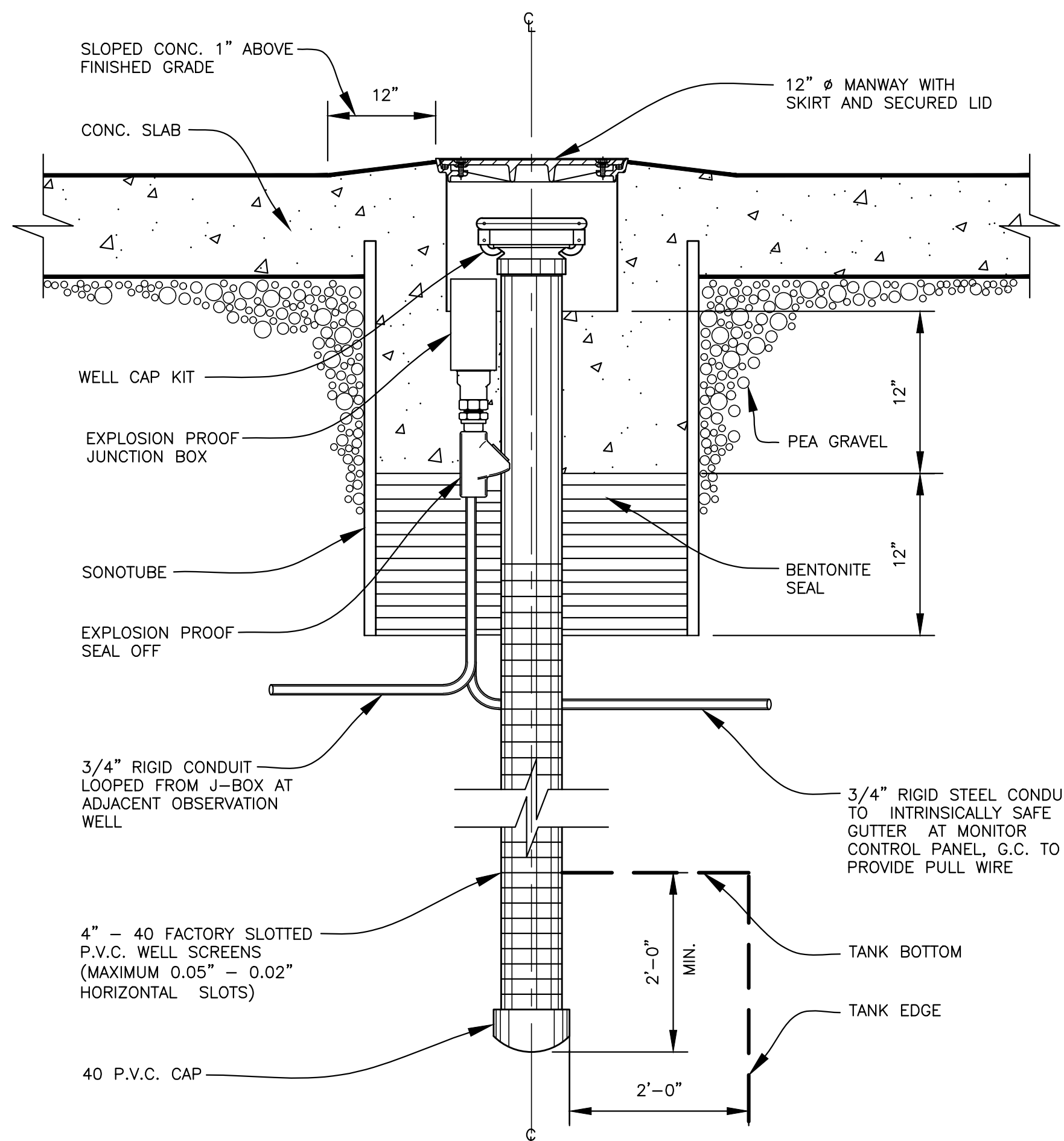
REVISIONS

NO.	DATE	DESCRIPTION

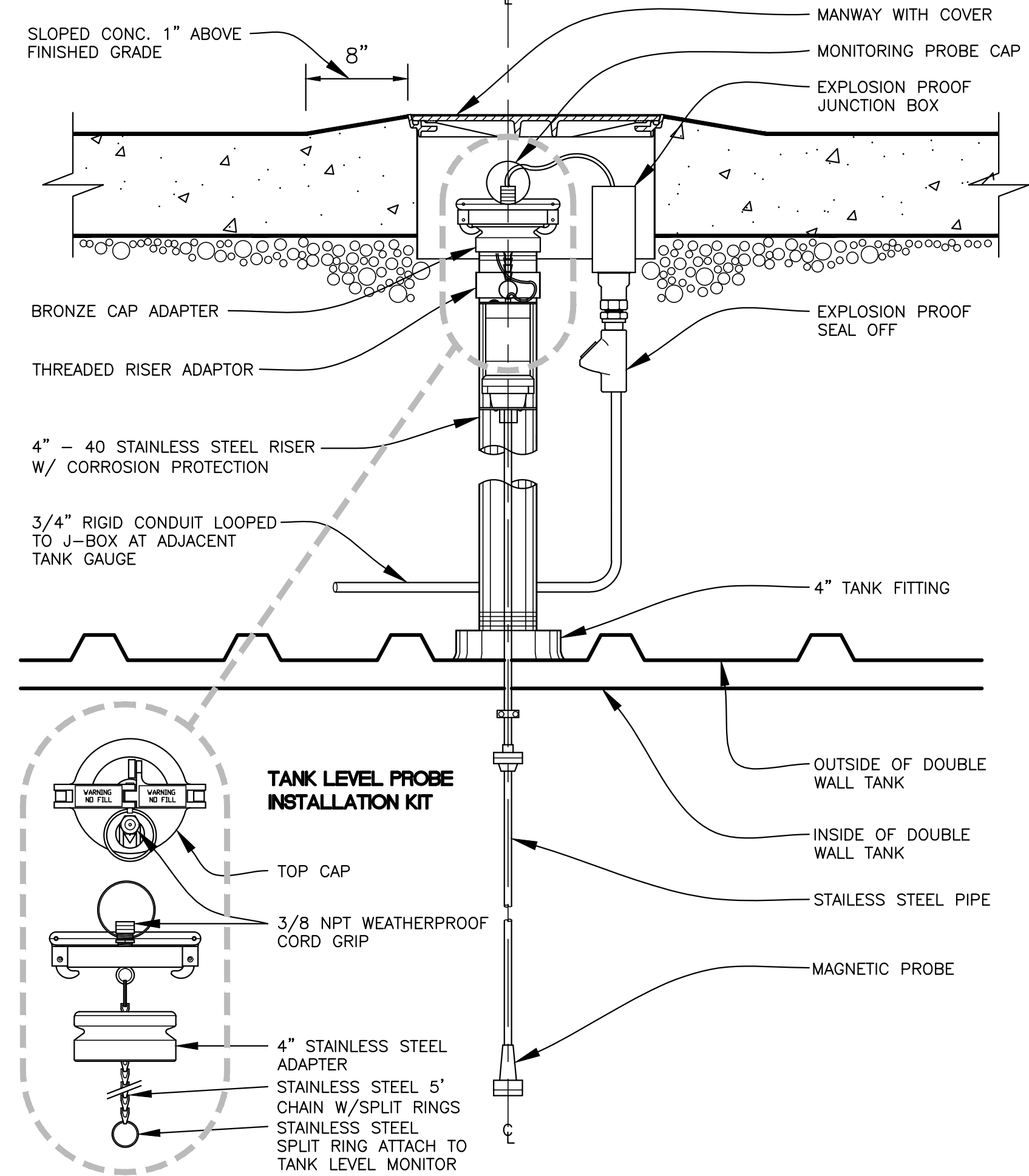
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SHEET TITLE
DIESEL EXHAUST FLUID (DEF) STORAGE TANK SECTION AND NOTES

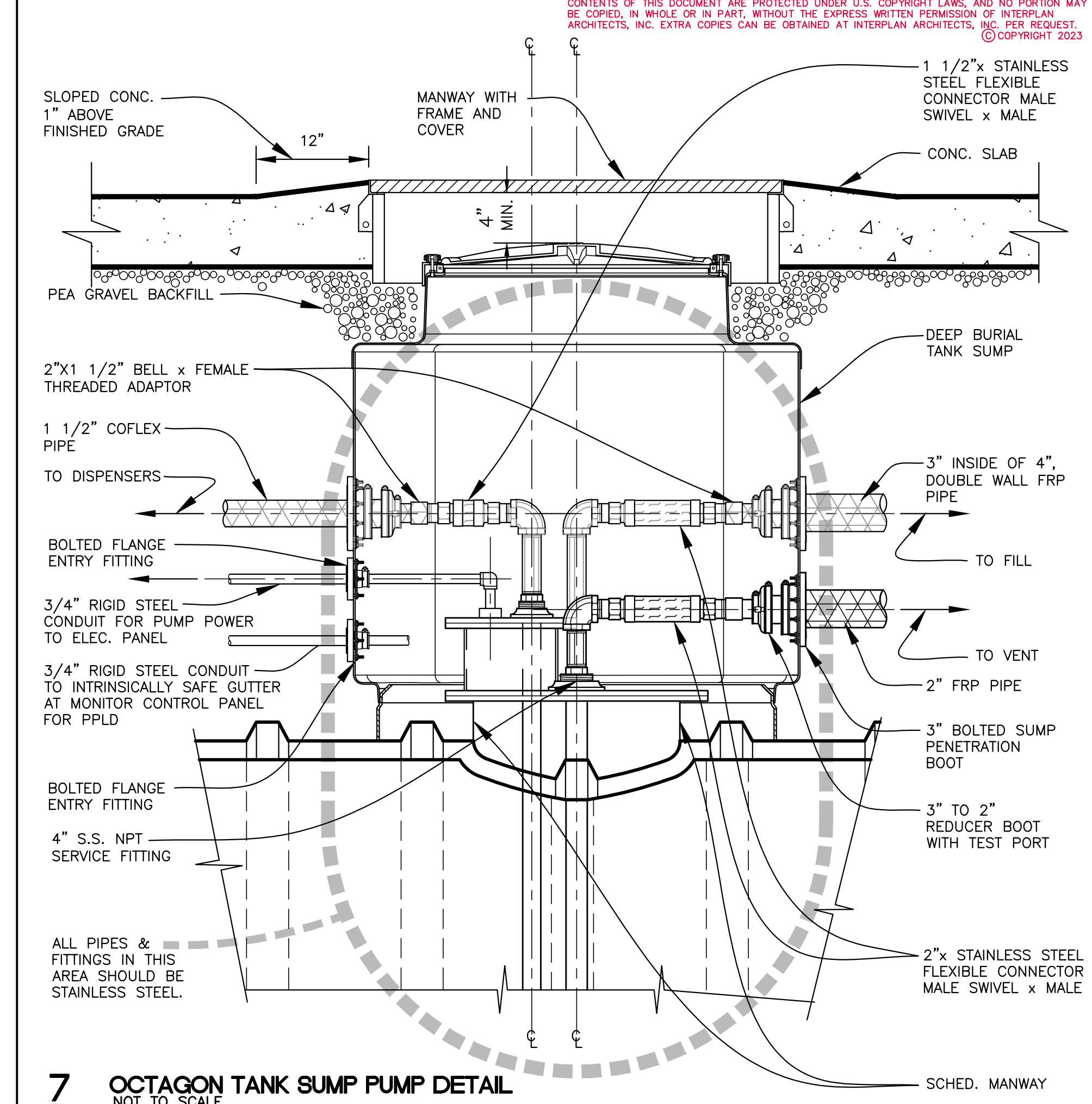
DRAWING NUMBER
DEF4 SHEET NO.



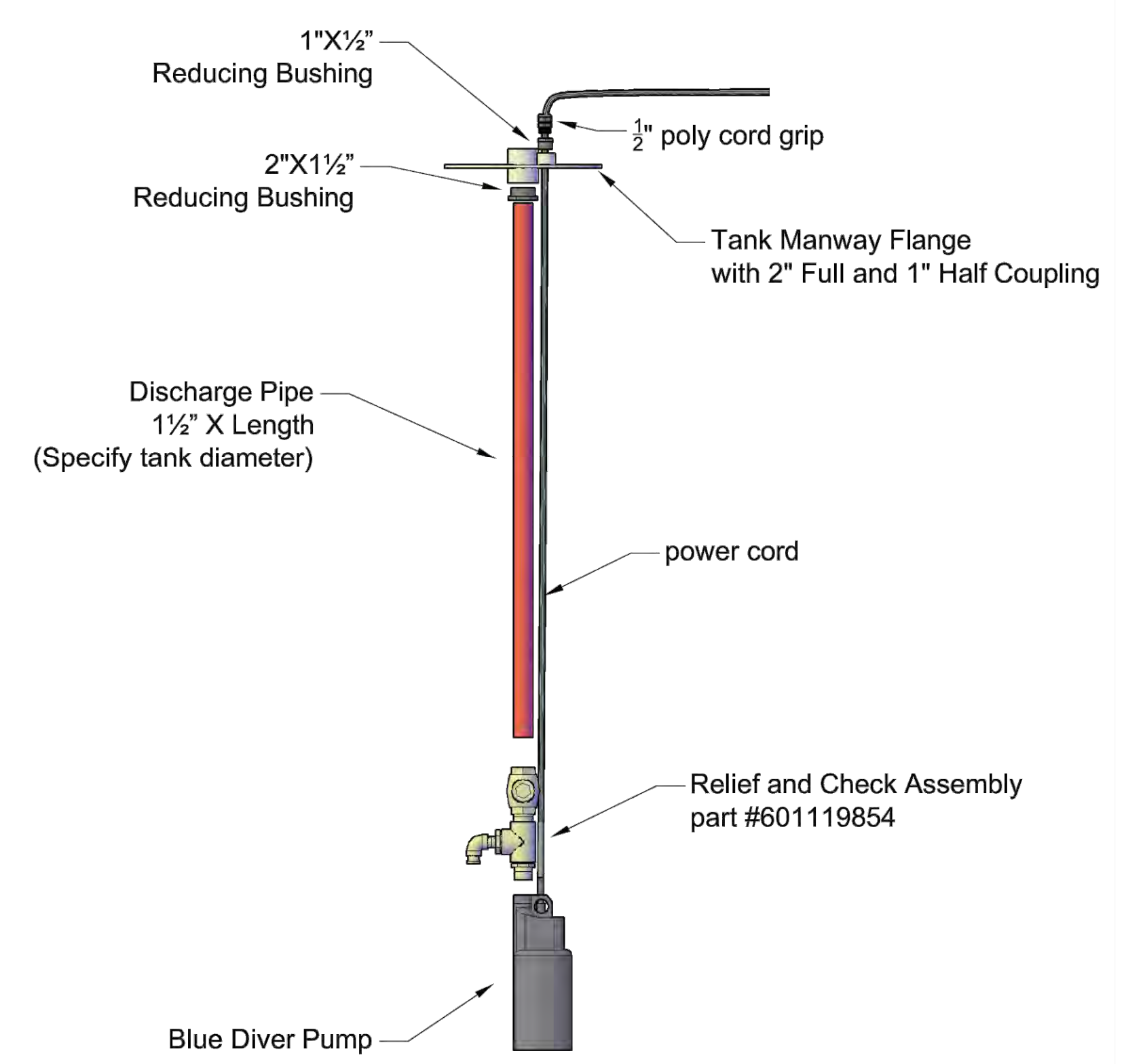
23 TANK MONITOR WELL DETAIL
NOT TO SCALE
RE:



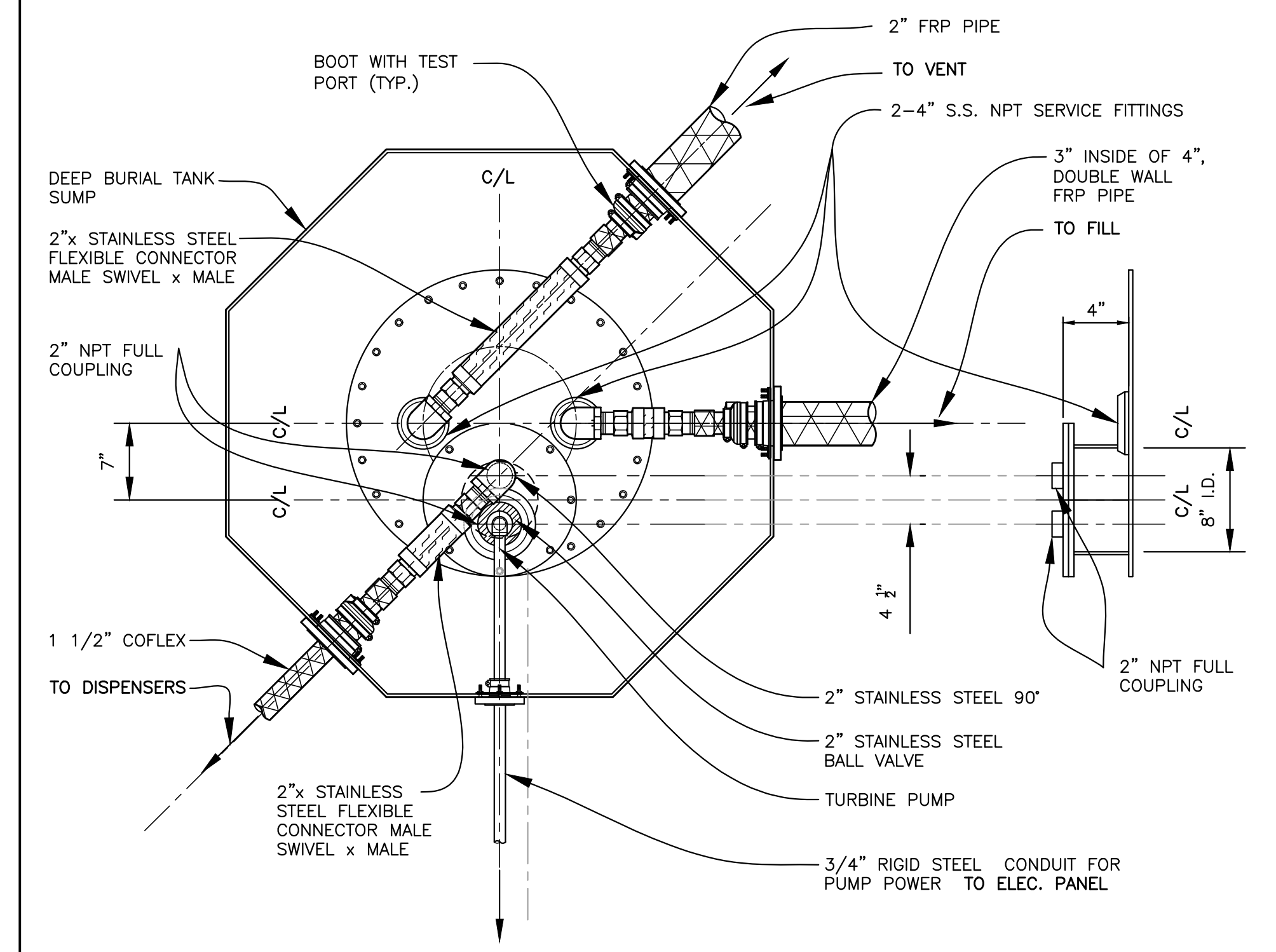
15 AUTOMATIC TANK GAUGE DETAIL
NOT TO SCALE
RE:



7 OCTAGON TANK SUMP PUMP DETAIL
NOT TO SCALE
RE: 4/DEF5



13 BLUE DIVER PUMP ASSEMBLY
NOT TO SCALE
RE: 7/DEF4



5 OCTAGON TANK SUMP PUMP PLAN /SPECIAL COVER
NOT TO SCALE
RE: 7/DEF5



INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY: DATE:

SHEET TITLE
DIESEL EXHAUST FLUID (DEF) EQUIPMENT DETAILS

DRAWING NUMBER SHEET NO.
DEF5

DISPENSER, PUMP, AND TANK FITTINGS AND EQUIPMENT LIST - AUTO & TRUCK FUELING			
EQUIPMENT	FURNISHED BY: (TO BE INSTALLED BY CONTRACTOR)		DESCRIPTION
	CEFCO	CONTR.	
DISPENSER PRODUCT CONTROL SYSTEM	X		VERIFONE COMMANDER
	X		GIBARCO D-BOX TRUCK SIDE DISPENSERS
	X		Comdata SmartDESQ Include Nexgen detail
V169-RUBY2/COM-TTERM	X		COMMAND SITE CONTROLLER, STANDARD, 1PCB, 1HDD, 1PWR M149-111-00-NAA
	X		FORECOURT FUEL CONTROLLER, FCI M149-901-01-R
OC-DISPENSER BOARD	X		KIT, (CLGB) SPP CURRENT LOOP 29721-01
	X		KIT, RS485 8-CHANNEL INTERFACE BOARD SFC 29376-01
	X		RUBY 2 M169-000-01-NAA
	X		CUSTOMER DISPLAY, TOPAZ 2X20 P050-01-101-R
	X		MEDIA DRAWER, PETRO SYSTEMS P050-01-200
	X		PRINTER, RECEIPT, THERMAL, RP-310 P040-02-020
	X		ROUTER, CYBERA ZONE ROUTER P039-09-001-NAA (6462)
	X		CABLE, SHLD RS232, RJ45-RJ45, GEM II 13836-01
	X		ADAPTER, NULL MODEM, DB25M-RJ45 13581-01
	X		CABLE, ETHERNET SAPPHIRE 7.62M 22278-25
	X		CABLE, ETHERNET SAPPHIRE 15.2M 22278-50
	X		CABLE, ETHERNET SAPPHIRE 100' 22278-100
	X		CABLE, SHLD RS232, RJ45-RJ45, 100FT 13836-100
	X		Onceac UPS - Conditioned 250VA PO40-07-050
	X		MX 915 PCI 3, X, 4.3" M132-409-01-R
	X		W/TAILGATE, ETH, US8 OTG, COM2 132-602-00-R
	X		PS-FERRITE, 120VAC/12VDC/1A, 5.5X2.1MM/C, USA PWR132-003-01-A
	X		STAND, MX915, LOW CONTOUR, LOCKING, ANTI-SKIMMING, DATA PORT BLOCKING MET132-019-01-A
	X		STAND, MX915/925 LOW CONTOUR MET132-009-01-A
	X		DATALOGIC GRYPHON GD440030 2D IMAGER GD440030-BC-B
	X		DATALOGIC CAB-327 SH3630 RUBY VERIFONE SERIAL CABLE, 8 90A051939
	X		20 STATION INTERCOM W/ COUNT BEING X 2 20 STATION (78-6911-4799-1) FOR AUTO AND 8 STATION (79-6911-4796-7) FOR TRUCK
	X		BRAVO EPOXY KIT PART NUMBER EP100
DISPENSERS	X		DRESSER WAYNE HELIX SERIES - 3+2 FUSION GATEWAY (X) PRODUCT NO. 000-920895
	X		WAYNE OVATION 2 ULTRA HIGH FOR DIESEL PLUS DEF (SEE SITE PLAN FOR LAYOUT WITH ALPHA NUMERIC KEYPAD)
	X		VERSION 4 FLINT LOC'S SHOULD BE PRESENT BOTH MANUFACTURERS PETROCLEAR ETHANOL 40510AAD & FOR DIESEL IT WILL BE THE PETROCLEAR 40530WAD
	X		DRESSER WAYNE OVATION 2 SERIES - HI SPEED W/ALPHA FUSION GATEWAY (X) PRODUCT NO. 000-920895
DISPENSER CONTAINMENT BOX, VALVES & FITTINGS	X		UPP SUMP FOR ENCORE OR HELIX POLY DISPENSOR SUMP
	X		2" UPP ENTRY FOR FIBERGLASS SUMPS PART NUMBER FEB-075
DISPENSER HOSE, NOZZLE & FITTINGS	X		AUTO MPD
	X		006310 SWIVEL/STB COMBO 3/4" AND 159504 N, 105 UNL W CP UL HUSKY 3/4" FOR UNLEADED AND 159503 N, 105 LDD W/CP UL HUSKY 3/4" DSL NOZZLE FOR DIESEL HI FLOW
	X		HUSKY 005969 SWIVEL/STB 1" COMBO ASSEMBLY AND HUSKY 173310N, 8 W/CP PHG NL HUSKY 1" DSL NOZZLE AND UPDATE THE CURB HOSE TO THE FLEXING HOSE, FLHFR301000BLK, ASSY HW 1" X 10" BLK, FIXED ENDS
TANKS	X		HALL TANK COMPANY CORPORATION -10'DIA. AS PER LOCATION. RE: A01 DOUBLE WALL FIBERGLASS TANKS - SEE SITE PLAN FOR TANK CONFIGURATION
	X		ADD OR BLACK PIPE ON DIESEL BESIDE STAINLESS UNLESS ON A STP THEN ITS STAINLESS (VERIFY WITH OWNER)
	X		HALL TANK COMPANY CORPORATION -10'DIA. AS PER LOCATION. RE:A01.
SUBMERSIBLE MANHOLE COVER	X		14U-RT4210 STP 42" COMPOSITE STANDARD
SUBMERSIBLE PUMP TURBINE ENCLOSURE & FITTINGS	X		602402922 42" FRP SUMP
	X		ADHESIVE KIT: 602366924 SEAL KIT: 602366901
	X		CABLE TIGHT FLEXIBLE 1" CONDUIT, 000-100-1000-EC.
	X		2" DOUBLE WALL ELECTROFUSION, 303-075-EIF-U
SUBMERSIBLE PUMPS & FITTINGS (ADVANCE PROTECTION PUMPS)	X		WITH MECHANICAL LEAK DIRECTOR
	X		REGULAR x2, PREMIUM x 1, AUTO DIESEL x 1, (4 HP VARIABLE) TRUCK DIESEL x2 (5 HP MAG FLO, 6" OPENINGS)(4 HP VARIABLE STP) DEF MOTOR 403479901 AND ADD ROW BELOW/FOR DEF STP, PUMP CONTROL BOX, 401220903 1.5 HP
	X		BRAVO ENTRY FITTING PART NUMBER F-10-F VFC CONTROLLER 4H.P
	X		FFS, STP-MLD+G (GASOLINE), 403168901 MECHANICAL LINE LEAK DIRECTOR
	X		FFS, STP-MLD+D (DIESEL), 403170901 MECHANICAL LINE LEAK DIRECTOR
	X		UNIVERSAL 213 FP
	X		JEFFERSON 1731 - 300 2" STAINLESS STEEL UNION
VAPOR RECOVERY/VENT	X		FFS 4" PLUG CAP GALV. STEEL

DESCRIPTION	CEFCO	CONTR.	DESCRIPTION
REMOTE DIRECT VAPOR RECOVERY	X		FFS DEFENDER SERIES SPILL BUCKETS #70545012CI-GKT SINGLE WALL SPILL BUCKET
DIRECT FILL/GAUGE	X		EMCO SPILL BUCKET A1004EVR-31755101 5 GAL DOUBLE WALL NPT, ND
	X		EMCO A 1100 EOR 056T 4" FILL TUBE W/OVERFILL PREVENTION VALVE
	X		FFS; SWIVEL ADAPTOR (SWF-100-SS), VENT CAP
	X		FFS; VAPOR CAP (777-201-02) FILL CAP
	X		FFS; FILL CAP (4" EVR 304-301-01) PRESSURE VENT
	X		FFS; 2" PRESS VAC. VENT EVR 80020702
	X		FFS; SWIVEL ADAPTOR (SWV-100-SS) RU-REGULAR UNLEADED KIT
	X		FFS; 78710009 SU-SUPER UNLEADED KIT
	X		FFS; 78710006 D-DIESEL KIT
	X		FFS; 78710003 4" RISER 4" GALV. STEEL RISER W/ "3M" SCOTCHRAP51 PROTECTION TAPE OVER "3M-SCOTCHRAP" PIPE PRIMER (GALV. FOR UNLEADED PRODUCTS AND STAINLESS STL FOR DEF)
INVENTORY SENSOR MANHOLE/COVER	X		EMCO EMCO PROBE MANHOLE PART NUMBER A1005-015TMF
	X		FFS EQUIVALENT DIAMETER MANHOLES TWO WITH 24" MANHOLES
MONITORING WELL & MANHOLE/COVER	X		FFS EQUIVALENT 12" DIA MANHOLE
	X		FFS EQUIVALENT MONITORING WELL WITH BOTTOM 4"X15"
	X		FFS EQUIVALENT 4" WATERTIGHT LOCKING TEST WELL CAP
PRODUCT PIPING, SECONDARY CONTAINMENT			
SYSTEM AND FITTINGS	X		UPP ELECTRO PIPING UL971 UPP PIPING, FITTINGS, ADHESIVE, ETC. (USE ALL PRODUCTS OF A SINGLE MANUFACTURER)
	X		UPP PIPING UL971 ALCOHOL RESISTANT ADHESIVE
FFS TANK MONITORING SYSTEM	X		TS5000EPP TS-5000 EVO FUEL MANAGEMENT SYSTEM W/PRINTER
NOTE: ALL STP TANK RISERS MUST BE STAINLESS STEEL, PER FFS ADVANCED PROTECTION STPS	X		TS-TT (24HR) SCALD TANK TESTING SOFTWARE
	X		TS-TRAC DISPENSER RECONCILIATION SOFTWARE
ATG WIRING REQUIREMENT: FFSATG WIRING BY CONTR	X		TS-PRB 12 INPUT PROBE MODULE
THHN, TFFN OR THWN, 18 AWG, WHITE & BLACK, OR ALPHA CABLE #58411, 0.114 O.D. - 1,500 FEET (457 METERS) MAX. LENGTH ALPHA CABLE #58411 MUST BE USED WITH NONMETALLIC CONDUIT.	X		TS-2WSNS 12 INPUT 2-WIRE SENSOR MODULE
	X		TS-3WSNS 8 INPUT 2-WIRE SENSOR MODULE
	X		4" GALV. STEEL RISER W/ "3M" SCOTCHRAP51 PROTECTION TAPE OVER "3M-SCOTCHRAP" PIPE PRIMER (GALV. FOR UNLEADED PRODUCTS AND BLACK FOR DIESEL)
INTERSTITIAL WIRING REQUIREMENT:	X		TSP-IGF4P 4" FLOAT SET FOR GASOLINE AND ETHANOL BLENDED TANKS
THHN, TFFN OR THWN, 18 AWG: RED, WHITE & BLACK OR ALPHA CABLE #58113, 0.131 O.D. - 1,500 FEET (457 METERS) MAX. LENGTH. ALPHA CABLE #58113 (INCON P/N 600-0063) MUST BE USED WHEN USING NONMETALLIC (PVC) CONDUIT.	X		TSP-IDF4 4" FLOAT SET FOR DIESEL/FUEL OIL TANKS
	X		TSP-C4A MAG PROBE INSTALL KIT FOR 4" RISER PIPES - BOTTOM MOUNT
	X		FMP-LL3-125 MAGNETOSTRICTIVE PROBE FOR 10 FOOT (3.05 M) DIAMETER TANKS
	X		TSP-ULS UNIVERSAL LIQUID SUMP SENSOR
	X		TSP-EIS ELECTRO-OPTIC INTERSTITIAL SENSOR
	X		TSP-KI2 INTERSTITIAL 2" RISER INSTALL KIT
TANK HOLD-DOWN HARDWARE*	X		HALL TANK COMPANY HOLD-DOWN STRAP
TANK AND HOLD-DOWN HARDWARE PROVIDE BY THE FIKES COMPANY	X		BREWER-TICHENER #444-G OR "CROSBY" #G277 1" DIA 12" TAKE-UP JAW AND JAW TURNBUCKLE (SAFE WORKING LOAD LIMIT 10,000 LBS)
	X		BRODERICK & BASCOM - "YELLOW STRAND" 5/8" DIA DRAWN GALV WIRE ROPE 6 X 19 CLASS IWRC IMP. PLOW STEEL - (MIN BREAKING STRENGTH 17.9 TONS, SAFE WORKING LOAD = 7,160 LBS)
	X		BREWER-TICHENER #755G OR "CROSBY" #G408 STANDARD WIRE ROPE THIMBLE (OPEN PATTERN) HOT DIP GALV
	X		COVERT #3300 OR "CROSBY" #450 FIBERGLASS 5/8" WIRE ROPE CLIPS, HOT DIP GALV
TESTING	X		CERTIFIED CONTRACTOR TO PERFORM CARB TP-201.3 HYDROSTATIC TESTING FOR SPILL BUCKETS AND SUMPS PRECISION PRESSURE TESTING OF TANKS AND LINES
"U" POLE BUMPERS -STAINLESS STEEL 3.5 O.D. STRAIGHT POLE BUMPERS-PAINTED STEEL BIO			OPW 6PGR35S-4350 SEE SITE PLAN FOR TYPE & SIZES
			OPW SPG4-63 SEE SITE PLAN FOR TYPE & SIZES
			TSBB1M1A-RT CONTROLLER - TRUCK STOP BIO BLENDER, 1 MAIN FLOW, 1 ADDITIVE FLOW, REAL-TIME RATIO BLENDING
			BP-CFCO-1N30 PRE-ASSEMBLED BLENDING PLATFORM, CEFCO EDITION, 1 IN TO 3 OUT
			BRAVO SUMP 5x5 BRAVO SUMP, 5FT X 5FT
			140-020-000 2" CLASS 150 RAISED FACE THREADED STEEL FLANGE FOR OUTBOUND LINES, THREE INCLUDED

DESCRIPTION	CEFCO	CONTR.	DESCRIPTION
			140-030-000 3" CLASS 150 RAISED FACE THREADED STEEL FLANGE FOR INBOUND LINE, ONE INCLUDED
			VF-515 TOSHIBA VF-515 7.5 HP VARIABLE FREQUENCY DRIVE FOR BIO PUMP MOTOR
FILTER FABRIC	X		MANUFACTURE ANY SITE WHERE POOR SOIL CONDITIONS OR FLUCTUATING WATER TABLES ARE PRESENT (I.E. LOOSE SAND, TIDAL OR RAPIDLY CHANGING WATER, SLT SOIL WITH WATER CONDITIONS, LOW STABILITY SOIL WITH LESS THAN 250 LBS/SQ.FT COHESION OR AN ULTIMATE BEARING CAPACITY OF LESS THAN 500 LBS/SQ.FT FOLLOW TANK AND FILTER FABRIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.
ELECTRIC WIRING			Bravo F-10-F
	X		
	X		
	X		Flexible conduit 000-100-1000-EC
	X		Flexible conduit 000-100-1500-EC
	X		Coupler 02-033
	X		Spigotted rigid metal conduit 000-100-06-ERMC
*DEADMEN FURNISHED BY HALL TANK COMPANY (DELIVERED WITH TANKS TO JOBSITE)			
MANUFACTURERS OF CONTRACTOR-FURNISHED PRODUCTS			
AMERON			"VERIFONE", PHONE 800/837-4366; 402-232-7800
"BREWER-TICHENER" (COOPER TOOLS), PHONE 919/362-7510			"HALL TANK COMPANY", PHONE 919/362-7510
"BRODERICK & BASCOM", PHONE 908/964-4477			"BELDEN", PHONE 800/235-3361
"COVERT" (COOPER TOOLS), PHONE 919/362-7510			"RED JACKET", PHONE 800/777-2480; 913/831-5700
"CROSBY", PHONE 918/834-4611			"VEEGER-ROOT", PHONE 860/651-2753; 860/651-2700
"FFS"; FRANKLIN FUELING SYSTEMS, PHONE 608/838-8786			"WATTS", PHONE 603/934-1107
"MORRISON BROS. CO." PHONE 800/553-4840			"OPW", PHONE 800/422-2525
			"BIO" PHONE 217/224-9725 EXT 102

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PLANNING ARCHITECTURE INTERIORS
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This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

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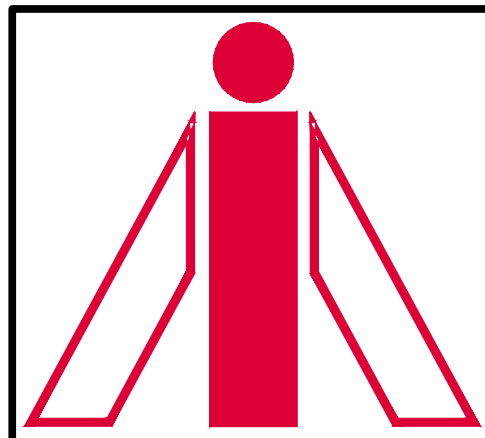
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SHEET TITLE
DIESEL EXHAUST FLUID (DEF) EQUIPMENT SCHEDULE

DRAWING NUMBER SHEET NO.
DEF6

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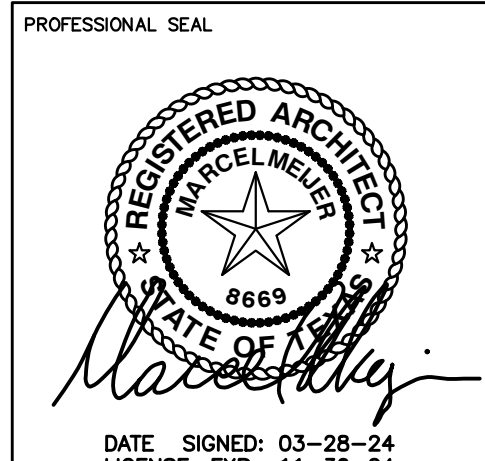
INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEF7.DWG

PROJECT TITLE

CEFCO CONVENIENCE STORES #0047
CEFCO
F2501-B SERIES
RIGHT FACING

CEFCO CONVENIENCE STORES #0047
I-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



DATE SIGNED: 03-28-24
LICENSE EXP.: 11-30-24

DRAWINGS ISSUED FOR:

09-09-20	MARCEL CAD
10-08-20	PROGRESS PRINT
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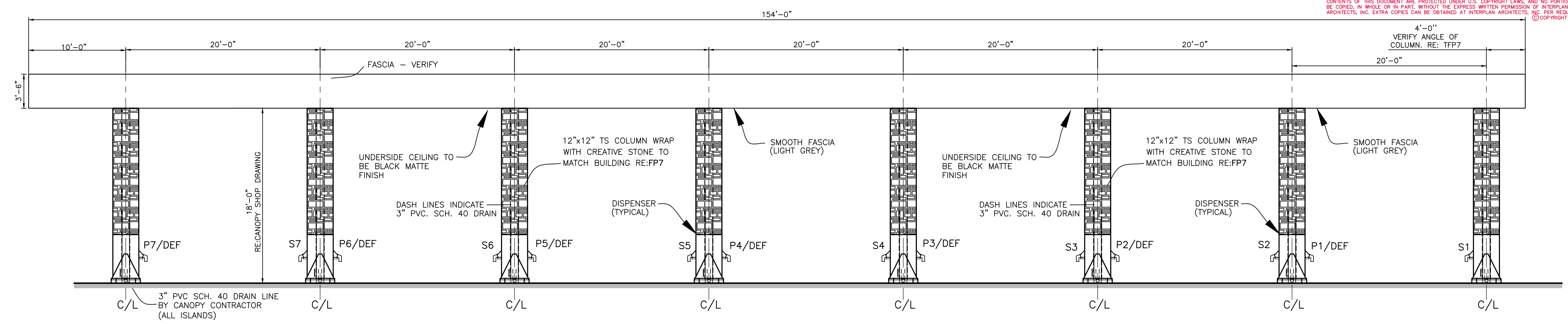
REVISIONS

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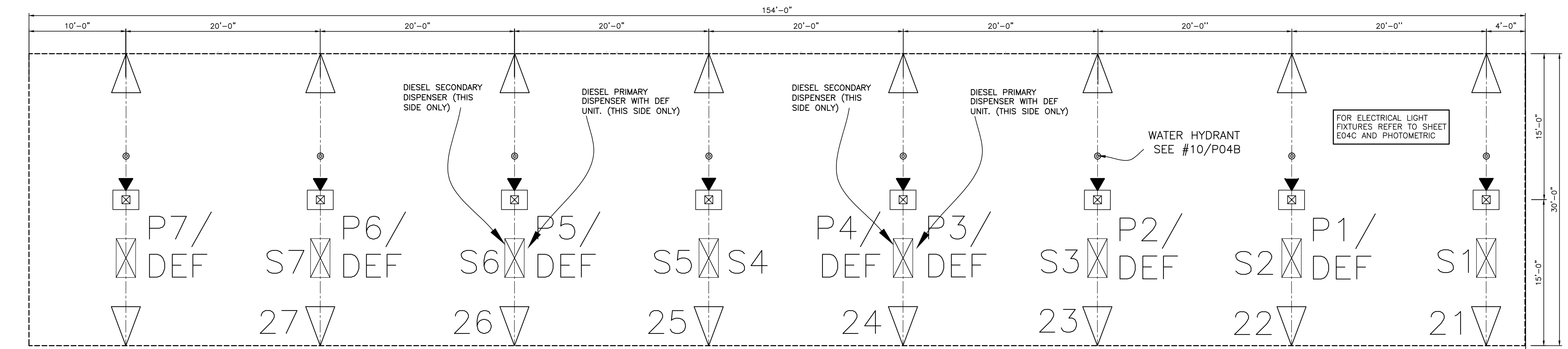
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SHEET TITLE
DIESEL EXHAUST FLUID (DEF) CANOPY ELEVATIONS AND ISLAND DETAILS

DRAWING NUMBER
DEF7



24 ELEVATION OF CANOPY (LOOKING FROM ENTRY SIDE)
SCALE: 3/16" = 1'-0"
RE: SITE PLAN

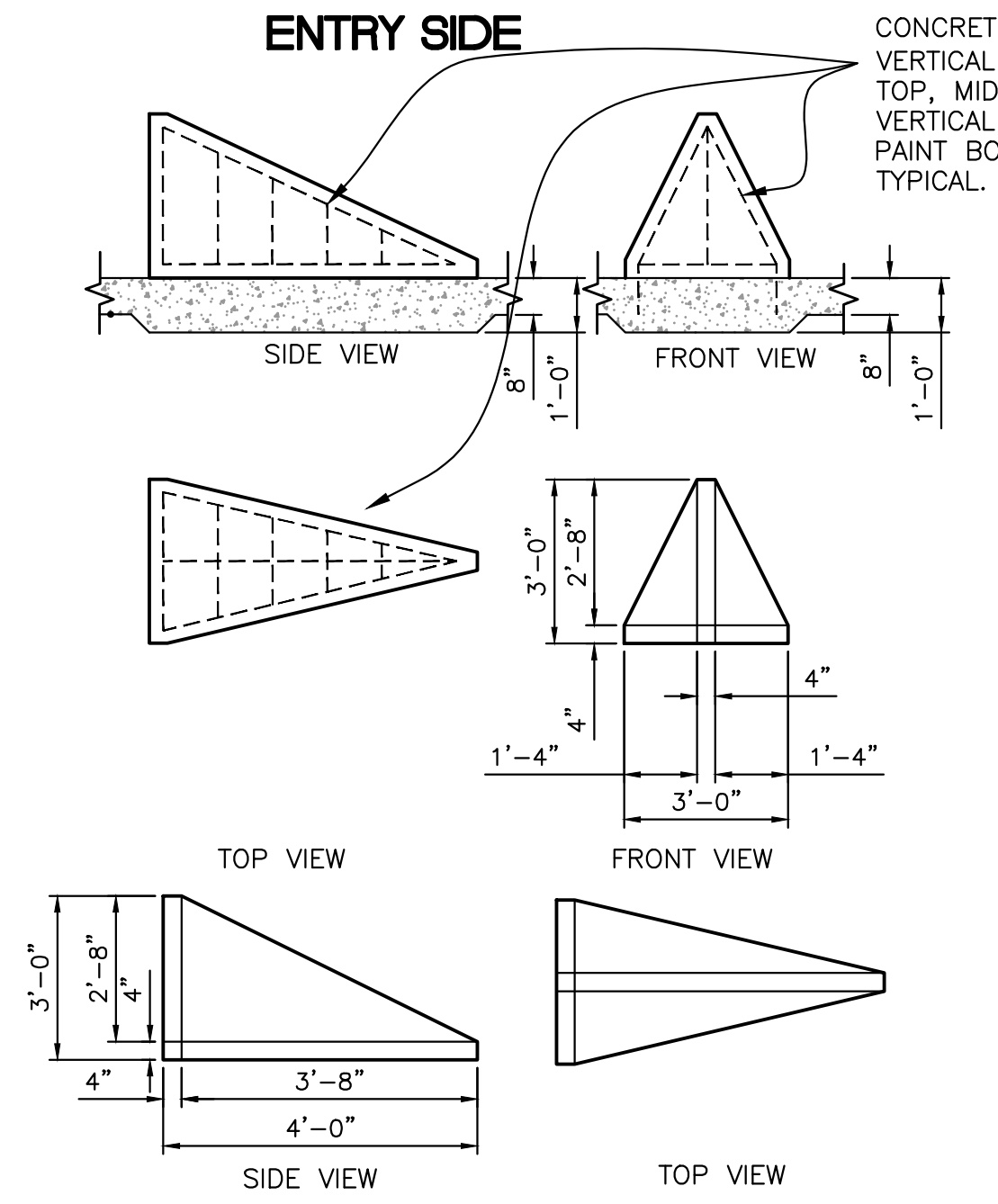


22 PLAN - CANOPY
SCALE: 3/16" = 1'-0"
RE: SITE PLAN

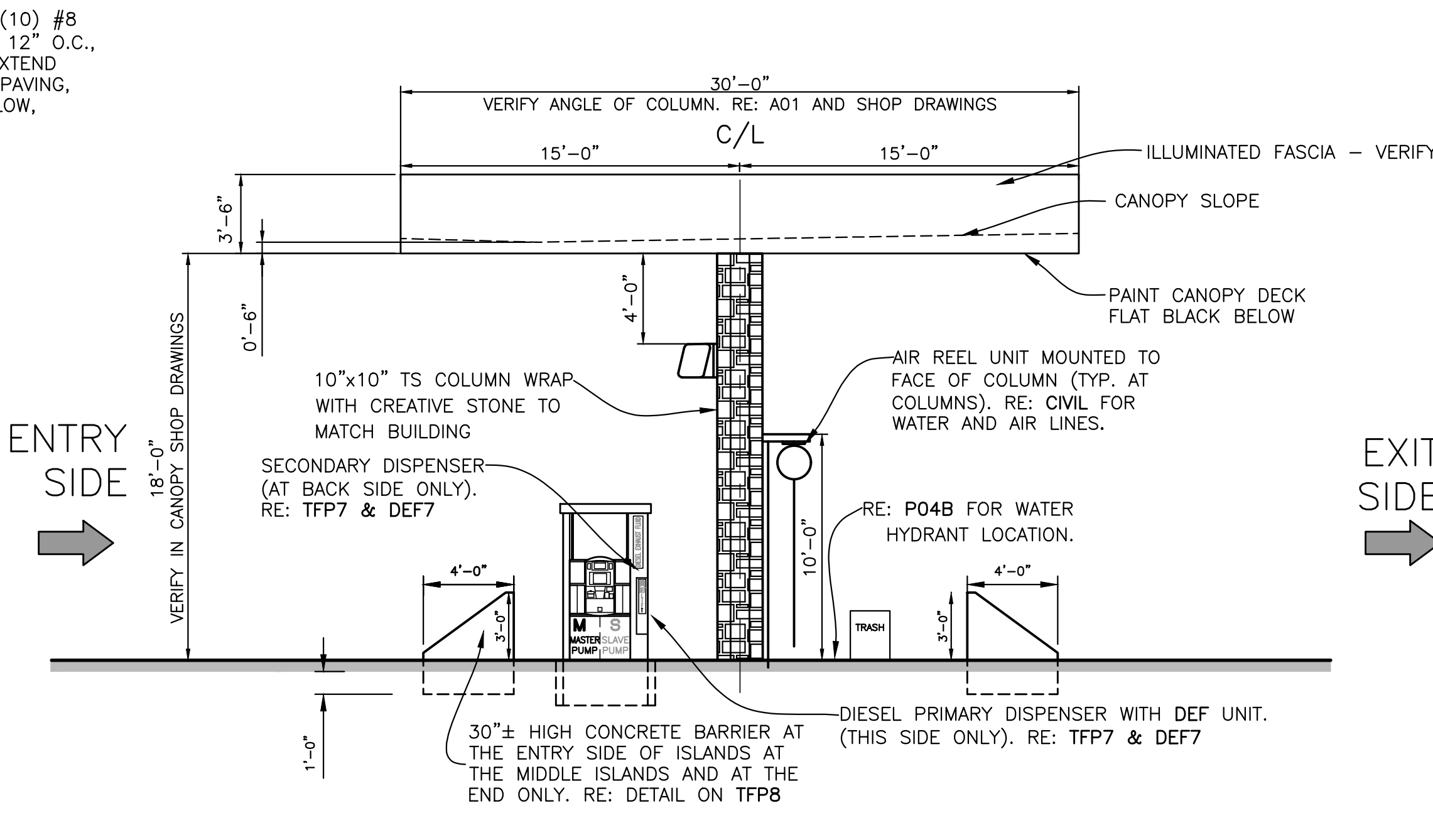
NOTE:
CANOPY ON THIS DOCUMENT ARE FOR ILLUSTRATION ONLY. VERIFY WITH OWNER FOR THE LOCATION OF PRODUCT DISPENSER UNITS.

CEFCO WILL PROVIDE LIST OF FUEL SYSTEMS MATERIALS BEING PROVIDED.

NOTES:
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL BEFORE COMMENCEMENT OF WORK
VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE



21 DIESEL CANOPY - CONCRETE BOLLARD DETAIL
SCALE: N.T.S.
RE: TFP8



9 SIDE ELEVATION OF TRUCK ISLAND CANOPY
SCALE: 3/16" = 1'-0"
RE: SITE PLANS VERIFY WITH OWNER ALL ITEMS WHICH ARE APPLICABLE. CANOPY CONTRACTOR REFER TO SHEET TFP1 FOR SIZE AND OVERALL SCOPE OF WORK.

PERFORMANCE SPECIFICATIONS

4 TANK INSTALLATION

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE INSTALLATION OF UNDERGROUND DEF STORAGE TANKS.

PART 2 - PRODUCTS

- 2.1 TANKS: SHALL BE DESIGNED AND MANUFACTURED SO AS TO BE CORROSION PROTECTED PER EPA REQUIREMENTS.
- 2.2 HOLD DOWN STRAPS: STRAPS AS REQUIRED BY SOILS/WATER CONDITION SHALL BE SUPPLIED BY TANK MANUFACTURER ONLY. FIELD FABRICATED UNITS ARE NOT ACCEPTABLE.

PART 3 - INSTALLATION

- 3.1 MANUFACTURING: REFER TO TANK MANUFACTURER'S CRITERIA AND SPECIFICATIONS FOR TANK INSTALLATION AND ADHERE TO AS REQUIRED.
- 3.2 CLEARANCES: MINIMUM CLEARANCE FOR TANKS SHALL BE AS FOLLOWS: SHOULD REQUIREMENTS OF TANK MANUFACTURER OR SOIL CONDITIONS DICTATE GREATER CLEARANCE, ADHERE TO ACCORDINGLY.
- 3.2.1 BOTTOM: PROVIDE MINIMUM OF 12" BEDDING MATERIAL BETWEEN BOTTOM OF EXCAVATION OR PAD AND BOTTOM OF TANK.
- 3.2.2 SIDES: PROVIDE MINIMUM OF 2'0" BETWEEN TANKS AND 2'0" FROM SIDE/END OF TANK TO WALL OF EXCAVATION.
- 3.2.3 TOP: PROVIDE 36" FILL MATERIAL OVER TANK PLUS 8" OF CONCRETE.
- 3.3 TESTING: PRIOR TO INSTALLATION OF TANKS, TEST PER MANUFACTURER'S SPECIFICATIONS SHALL BE PERFORMED ON TANK. ON DUAL WALL TANKS, CONSULT TANK MANUFACTURER FOR TESTING CRITERIA, BUT MINIMUM 4" HG VACUUM MUST BE HELD ON INTERSTITIAL SPACE FOR AT LEAST ONE (1) HOUR.
- 3.4 PLACING CONCRETE:
- 3.4.1 REFER TO SITE PLAN FOR TANK PLACEMENT AND PRODUCT ROTATION.
- 3.4.2 PRIOR TO SETTING OF TANKS, REMOVE ALL FOREIGN DEBRIS, ROCKS, CLODS, CARBAGE, ETC. FROM EXCAVATION.
- 3.4.3 PLACE TANKS ONLY ON APPROVED FILL. DO NOT SET ON CONCRETE OR WOOD.
- 3.4.4 SLOPE TANKS 2" MINIMUM AND 4" MAXIMUM TOWARDS END WITH FILL OPENING.
- 3.4.5 TANKS SHALL BE BURIED AS PER ABOVE AND AS SHOWN ON DRAWINGS. TANKS MAY REQUIRE GREATER BURIAL DEPTH IF INSTALLED IN REMOTE POSITION TO ALLOW FOR PROPER SLOPE ON VENT LINES. VERIFY DEPTH AS REQ.
- 3.5 PLUGS: ALL UNUSED PLUGS SHALL BE REMOVED. ANY COMPATIBLE NON-HARDENING PIPE SEALANT TO INTERNAL BUSHING HEADS. PERMANENT METAL PLUGS SHALL BE INSTALLED AT ALL INTERNAL OPENINGS.
- 3.6 N/A

- 3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT IN TANK EXCAVATIONS, ANCHORING SHALL BE REQUIRED.
- 3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT BY WELL POINT SYSTEM(S) AND PROPERLY SIZED PUMP(S).
- 3.7.2 ANCHORS: DEADMAN SHALL BE CONSTRUCTED OF CONCRETE AS DETAILED IN DRAWINGS AND AS PER TANK MANUFACTURER'S RECOMMENDATIONS. PLACE 12" FROM ONE END OF TANK(S) AS SHOWN ON DRAWINGS.
- 3.7.3 TIE DOWNS: STRAPPING MATERIAL SHALL BE AS PER TANK MANUFACTURER'S REQUIREMENTS.
- 3.7.4 TURNBUCKLES: TO REMOVE CABLE SLACK, UTILIZE 5/8" JAW TIE TURNBUCKLES, ONE EACH SIDE OF TANK (2 PER STRAP).
- 3.7.5 STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS.
- 3.7.6 INSULATION: TANKS SHALL BE INSULATED FROM TIEDOWNS BY PLACEMENT OF APPROVED DI-ELECTRIC MATERIAL BETWEEN STRAP AND TANK. MATERIAL SHALL BE PETROLEUM RESISTANT MATERIAL AS APPROVED BY TANK MANUFACTURER.
- 3.7.7 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF ASPHALT IMPREGNATED WITH WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL.
- 3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S RECOMMENDATIONS, UTILIZING LIFTING LUGS PROVIDED ON TANKS. TANKS SHALL NOT BE ROLLED, DROPPED OR WRAPPED WITH CHAINS. EQUIPMENT OF SUFFICIENT SIZE, DESIGN AND LIFT CAPACITY SHALL BE UTILIZED FOR SETTING OF TANKS. SHOULD TANKS BE BUMPED, DENTED, DROPPED OR MISHANDLED IN ANY WAY, INSTALLATION SHALL BE HALTED AND TANK MANUFACTURER'S REPRESENTATIVE IMMEDIATELY CONTACTED FOR RECERTIFICATION OF TANKS. CONTACT LOCAL CONSTRUCTION OFFICE OR SITE MANAGER IMMEDIATELY UPON NOTICE OF QUESTIONABLE HANDLING OF TANKS OR NOTABLE DAMAGE THERETO.
- 3.9 BACKFILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE, CAREFULLY BACKFILL ENTIRE EXCAVATION, HAND SHOVELING AND TAMPING ALONG BOTTOM OF TANK(S) SO THEY ARE EVENLY SUPPORTED AROUND BOTTOM. SPECIAL ATTENTION SHALL BE PAID TO BOTTOM QUARTER POINTS ELIMINATING ANY VOIDS IN FILL AT THESE POINTS. DO NOT DROP BACKFILL FROM HIGH DISTANCE ONTO TANKS. TAMP AS REQUIRED TO ACHIEVE ACCEPTABLE DENSITY.
- 3.10 BALLASTING: IF GROUND WATER IS PRESENT TANKS MAY BE FILLED WITH BALLAST (PRODUCT TO BE STORED IN TANK OR WATER) TO AVOID SHIFTING MOVEMENT. IF WATER IS UTILIZED, COST OF WATER AND REMOVAL SHALL BE CONTRACTOR COST. DO NOT INSTALL SUBMERGIBLE PUMPS IN TANKS. TANKS SHALL BE FILLED TO BALLAST TANKS ABOVE LEVEL OF BACKFILL. BALLAST DEF TANKS WITH DEF ONLY. DO NOT USE WATER.
- 3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE VEHICLES WITH DAMS, BERMS, OR OTHER MEANS PREVENTING COMPLETION OF INSTALLATION. EXCAVATION SHALL BE MARKED AT ALL TIMES WITH LIGHTED BARRICADES UNTIL INSTALLATION IS COMPLETE. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATION. DEWATER AS REQUIRED TO MAINTAIN EXCAVATION DRY AS POSSIBLE.

5 CONCRETE

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

PART 2 - PRODUCTS

- 2.1 MATERIALS:
- 2.1.1 AIR ENTRAINING AGENT: ASTM C 260-60-T. "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL.
- 2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT.
- 2.1.3 AGGREGATES: CONFORM TO ASTM C-33.
- 2.1.4 WATER: SHALL BE CLEAN AND POTABLE.
- 2.1.5 SAND: CONFORM TO ASTM C-144.
- 2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHERWISE) YIELD STRENGTH 60,000 PSI.
- 2.1.7 WELDED WIRE FABRIC: CONFORM TO ASTM A-185.
- 2.1.8 ACCESSORIES INCLUDING BAR SUPPORTS, CHAIRS, ETC., SHALL BE MANUFACTURED BY THE SAME MANUFACTURER AS THE REINFORCING.
- 2.1.9 FORMS: CLEAN, STRAIGHT LUMBER OR MOISTURE RESISTANT PLYWOOD. KNOT HOLES, DEFORMATIONS, ETC., SHALL NOT BE ALLOWED.
- 2.1.10 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-60-T. USE 1/2" THICK OR AS INDICATED ON DRAWINGS.
- 2.1.11 CALCIUM CHLORIDE: NOT PERMITTED.
- 2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH, UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN 4" SLUMP. AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

5 CONCRETE - continued

PART 3 - EXECUTION

- 3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.
- 3.2 FORM WORK: BUILT FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS. BRACE AND SECURE TO WITHSTAND PLACING OF CONCRETE AND MAINTAIN THEIR SHAPES AND POSITIONS. MAKE FORMS SUFFICIENTLY TIGHT AND SUBSTANTIALLY ASSEMBLED TO PREVENT BULGING OR LEAKAGE. ASSEMBLE FORMS IN SUCH A MANNER TO FACILITATE THEIR REMOVAL WITHOUT DAMAGE TO CONCRETE. FORMS SHALL BE IN OR NEAR NEAR NEAR CONDITION; CLEAN, SMOOTH AND WITHOUT INDENTATIONS OR BENDS. INSTALL SLEEVES, MANHOLES, CAPS, BOXES AND POSTS IN PROPER LOCATIONS AND HEIGHTS. EXPANSION JOINTS SHALL CONSIST OF FILLER STRIPS INSTALLED WITH TOP AT ELEVATIONS OF FINISHED CONCRETE. NEATLY FINISH EDGES OF EXPOSED CONCRETE ALONG JOINTS WITH A SLIGHTLY ROUNDED EDGING TOOL.
- 3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL INDICATED ON DRAWINGS. METAL REINFORCEMENT, AT THE TIME CONCRETE IS PLACED, SHALL BE FREE FROM COATINGS WHICH WILL DESTROY OR REDUCE THE BOND. METAL REINFORCEMENT SHALL BE STORED SO AS TO PREVENT FREEZING FOR A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT. ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH STANDARDS OF ACI. METAL REINFORCEMENT SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. SPLICES IN ADJACENT BARS SHALL BE LAPPED 36 DIAMETERS AT CORNERS AND SPLICES. ADJACENT SHEETS OF WIRE MESH SHALL BE LAPPED AT LEAST 6" AND SECURELY WIRED. SUPPORT ALL REINFORCEMENT WITH BAR SUPPORTS/CHAIRS. ALL JOINTS WITH EXISTING CONCRETE SHALL HAVE #4 DOWELS 18" O/C INSERTED AT LEAST 10" INTO EXISTING CONCRETE AND EPOXED TO EXISTING CONCRETE.
- 3.4 MIXING AND TRANSPORTING CONCRETE: CONCRETE SHALL BE READY MIXED AND SHALL MEET REQUIREMENTS OF ASTM C-94 FOR MIXING AND DELIVERY. FURNISH DUPLICATE REFERENCES MADE AS PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.
- 3.5 PLACING CONCRETE:
- 3.5.1 NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S AGENT AT LEAST 48 HOURS BEFORE PLACING ANY CONCRETE. THE CONTRACTOR SHALL NOTIFY ALL TRADES AFFECTED BY CONCRETE PLACEMENT AT LEAST 24 HOURS PRIOR TO SETTING OF FORMS IN ORDER THAT TRADES AFFECTED MAY INSTALL REQUIRED BLOCKING, SLEEVES, POCKETS, ETC.
- 3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED.
- 3.5.3 SETTING: THOROUGHLY WET FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE.
- 3.5.4 PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614. MINIMUM CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO ACI 318. USE HANDLING EQUIPMENT AND METHOD FLOW FROM MIXER TO PLACE OF DEPOSIT. SPACE, TAMP AND MECHANICALLY VIBRATE FRESHLY PLACED CONCRETE TO COMPACT THOROUGHLY AND ELIMINATE VOIDS. DO NOT ALLOW FREE FALL OF CONCRETE TO EXCEED 5'.
- 3.6 FINISHING CONCRETE:
- 3.6.1 SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION IN EXCESS OF 1/4" WHEN TESTED WITH A 10' STRAIGHTEDGE AT 3' INTERVALS IN BOTH DIRECTIONS. SCREED AND FLOAT CONCRETE FOR SLAB WITH STRAIGHTEDGES TO BRING SURFACE TO REQUIRED FINISH LEVEL. WOOD FLOAT CONCRETE WHILE STILL GREEN TO A TRUE, EVEN SURFACE WITH NO COARSE AGGREGATE VISIBLE. AFTER SURFACE MOISTURE HAS DISAPPEARED, STROK TROWEL SURFACE TO A SMOOTH, EVEN FINISH, FREE FROM IMPRESSIONS AND BROUSE MARKS. AFTER TROWELING, BRUSH SURFACE OF CONCRETE WITH A BRISTLE BROOM TO RESULT IN A MEDIUM, UNIFORM, NONSLIP TEXTURED SURFACE. STROKE CROSSWISE TO LENGTH.
- 3.7 CURING: CURING CEMENT SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTIVE CURE FOR ALL SLABS. DO NOT USE CALCIUM CHLORIDE. CURING METHODS SHALL CONFORM TO ACI STANDARD 605-99 AND ACI STANDARD 306-86.
- 3.8 REMOVAL OF FORMS: DO NOT REMOVE FORMS UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS.
- 3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER/OWNER'S AGENT.
- 3.10 TEMPERATURE:
- 3.10.1 COLD WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 DEGREES FAHRENHEIT, MAINTAIN TEMPERATURE OF CONCRETE BETWEEN 50 AND 70 DEGREES FAHRENHEIT FOR MINIMUM OF 72 HOURS.
- 3.10.2 HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKS, SHADING, FOG SPRAY, SPRINKLING, PONDING OR WET COVERING IN ADVANCE OF PLACEMENT. TAKE SUCH PROTECTIVE MEASURES AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.
- 3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER/OWNER'S AGENT OR CONSTRUCTION MANAGER. THE OWNER SHALL PAY FOR ALL CONCRETE TESTING. COMPACTION TESTS SHALL BE REQUIRED PRIOR TO PLACEMENT OF ANY CONCRETE ON GRADE. CONTACT OWNER'S ENGINEERING SERVICES FOR COMPACTION TESTS. TESTS PAID BY OWNER.
- 3.12 THICKNESS:
- 3.12.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH #3 REINFORCING BARS AT 18" O.C. EACH WAY ON 2 1/2" SUPPORT CHAIRS.
- 3.12.2 WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR BY THE ELECTRICAL SUBCONTRACTOR.
- 3.13 CANOPY FOOTINGS: CANOPY FOOTINGS SHALL BE INSTALLED BY CANOPY CONTRACTOR AS PER SHOP DRAWINGS SUPPLIED BY CANOPY VENDOR. ALL MATERIALS SHALL BE EQUAL TO OR BETTER THAN SPECIFIED ELSEWHERE IN THIS SECTION.
- 3.14 PROTECTION OF ALL CONCRETE SURFACES: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT ALL CONCRETE SURFACES FROM DAMAGE WHATSOEVER, INCLUDING EXCESSIVE LOADING, SHIPPING, CRACKING, STAINING, PAINT SPLATTERS, ETC. THE OWNER EXPECTS EXPOSED CONCRETE SURFACES TO BE CLEAN AND OF UNIFORM COLOR AND TEXTURE AT COMPLETION OF THE PROJECT. REPLACE ANY CONCRETE DAMAGE DURING CONSTRUCTION.
- 3.15 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

6 DEF PIPING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR INCIDENTAL TO A COMPLETE PLUMBING SYSTEM FOR A UNDERGROUND FUEL INSTALLATION.

PART 2 - PRODUCTS

- 2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE CO-FLEX DOUBLE WALL FRANKLIN UPP. TANK MANUFACTURE BY FRANKLIN PUMP/RISERS AND DISPENSERS SHALL BE UTILIZED SO AS TO PROVIDE ACCESS TO ALL PRIMARY AND SECONDARY PIPE FITTINGS.
- 2.2 VENT PIPING: PIPING SHALL BE SCHEDULE 40, 2" BLACK IRON FOR GASOLINE AND DIESEL AND STAINLESS STEEL FOR DEF WITH 150 PSI FITTINGS. VENT LINE RISERS SHALL BE GALVANIZED PIPE AND EXTEND 4 FEET ABOVE ADJACENT STRUCTURE OR 12 FEET ABOVE FINISHED GRADE. VENT LINE RISERS SHALL NOT BE INSTALLED ON BUILDING UNLESS APPROVED IN WRITING.
- 2.3 N/A
- 2.4 BACKFILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S SPECIFICATIONS.

PART 3 - INSTALLATION

- 3.1 ALL DEF PIPING AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH TANK MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES.
- 3.2 THE DRAWINGS ARE DIAGRAMMATIC AND THE FINAL ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS, THE CHARACTERISTICS OF THE MATERIALS USED, AND THE INSTRUCTIONS OF THE DESIGNATION CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS ACCESS AND CLEARANCES MUST BE PROVIDED AND MAINTAINED FOR THE PROPER OPERATION, MAINTENANCE, SERVICE AND REPAIR OF THE WORK.
- 3.3 LOCATE, IDENTIFY AND EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK PROCEDURES.
- 3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH THE OWNER/OWNER'S AGENT AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES IN SATISFACTORY CONDITION.
- 3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, AND AUTO GAUGING ADAPTATIONS SHALL STAINLESS STEEL PIPE.
- 3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER. AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- 3.7 CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA. DO NOT USE TRENCH EXCAVATIONS FOR SITE UTILITIES AS TEMPORARY DRAINAGE DITCHES. REMOVE ALL TRASH, DEBRIS AND FOREIGN MATERIAL FROM TRENCHES PRIOR TO PLACING PIPING MATERIAL.
- 3.8 ALL PRODUCT AND VENT LINES SHALL SLOPE UP FROM TANKS A MINIMUM OF 2" IN 8' (1/4" PER FT) WITH NO SAG OR TRAPS. LINES SHALL BE IN TRENCHES WITH A MINIMUM OF 6" OF BACKFILL MATERIAL ON ALL SIDES, HORIZONTAL AND VERTICAL.

6 PIPING - continued

PART 3 - INSTALLATION

- 3.9 SUBMERGED PUMP, FILL PIPE, AUTO GAUGING ADAPTORS AND VAPOR RECOVERY ADAPTOR SHALL BE LOCATED AT TANK OPENINGS AS SHOWN ON DRAWINGS.
- 3.10 FILL PIPE SHALL HAVE OVERSPLIP CONTAINMENT SYSTEM INSTALLED AS SHOWN ON DWGS.
- 3.11 FILL PIPE SHALL HAVE SUBMERGED FILL TUBE. FILL PIPE AND VAPOR RECOVERY RISERS SHALL BE CUT TO THE PROPER LENGTH SO THAT FINISHED HUB HEIGHT WILL BE WITHIN 8" (+ OR -) OF THE TOP OF THE MANHOLE.
- 3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED AS SHOWN IN DRAWINGS. SHUT-OFF VALVES SHALL BE INSTALLED ON THE PRODUCT LINES UNDER EACH DISPENSER AND SECURELY LOCKED. THESE VALVES MUST BE INSTALLED WITH THE SHEAR SECTION AT THE SAME LEVEL OR A MAXIMUM OF 1/2" ABOVE OR BELOW THE TOP OF THE ISLAND.
- 3.14 AFTER ALL PIPING IS COMPLETE AND PRIOR TO BACKFILLING, ALL PIPING INCLUDING VENT LINES SHALL BE ISOLATED FROM THE TANK AND TESTED PER MANUFACTURER'S TESTING INSTRUCTIONS.
- 3.15 N/A
- 3.16 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST. REFER TO LIST OF MATERIALS SUPPLIED BY OWNER/OWNER'S AGENT.
- 3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED. WELLS ARE TO BE POSITIONED IN EXCAVATION HOLE PRIOR TO PLACING BEDDING MATERIAL AND SUPPORTED TO REMAIN VERTICAL DURING BACKFILL OPERATIONS. BOTTOM OF OBSERVATION WELLS(S) SHALL BE 12" MINIMUM BELOW THE BOTTOM OF TANK EXCAVATION PIT. TOP OF PIPE TO TERMINATE IN 12" DIAMETER OBSERVATION BOX. SLOTTED SAMPLE WELL MATERIAL SHALL BE FURNISHED BY CONTRACTOR.
- 3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, LATEST EDITION, IS BY REFERENCE MADE PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE.
- 3.19 START-UP: PRIOR TO START-UP AND CHECK-OUT OF SYSTEM, PRODUCT LINES SHALL PASS HYDROSTATIC LEAK TEST. ALL SITE IMPROVEMENTS, INCLUDING PAVEMENTS AND UTILITIES, SHALL BE COMPLETED.
- 3.20 INSPECTIONS: PLUMBING INSPECTION SHALL BE PERFORMED BY **FIKES WHOLESALE, INC.**
- 3.21 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

7 ELECTRICAL WORK

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:
- 1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANELBOARDS, OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC.
- 1.1.2 CONDUIT AND WIRING SYSTEM FOR INTERCOM.
- 1.1.3 WIRING SYSTEM TO SERVE GAS-FIRED USING DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT.
- 1.1.4 POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT.
- 1.1.5 ALL CONDUITS, CONNECTIONS, WIRE AND STUB-OUTS FOR FASCIA SIGN(S)
- 1.1.6 CANOPY LIGHTS, CANOPY LIGHTS, PRICE SIGN(S) AND CANOPY ILLUMINATED FLOOD LIGHTS.
- 1.1.6 CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS.
- 1.1.7 ALL TRENCHING, EXCAVATIONS AND BACKFILL AS REQ. IN CONJUNCTION W/ ELEC. WORK.
- 1.1.8 INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRICAL CODE.
- 1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA, NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY. REPORT TO OWNER/OWNER'S AGENT IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES OR TO BE HELD RESPONSIBLE FOR COMPLIANCE TO THESE CODES AND REGULATIONS. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
- 1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.
- 1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO ENTIRE INSTALLATION SO THAT THE ENTIRE PROJECT CAN BE COMPLETED PER SCHEDULE. CUTTING AND REPAIRING: PROVIDE ALL CUTTING, CHANNELING, PATCHING, ETC., AS NECESSARY FOR ELECTRICAL WORK. IF ELECTRICAL DIRECTION OF GENERAL CONTRACTOR FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER/OWNER'S AGENT AT NO ADDITIONAL COST TO THE OWNER. REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR BY THE ELECTRICAL SUBCONTRACTOR.

PART 2 - PRODUCTS

- 2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION W/ DYMO TAPE OR EQUAL OR SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCHGEAR, PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.
- 2.2 LIGHT FIXTURES: TO BE PROVIDED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS.
- 2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE W/ THE SPECIFIC APPLICATION OF LOCATION INDICATED.
- 2.3.1 RIGID GALVANIZED STEEL: WHERE EXPOSED TO THE WEATHER, FOR ENCLOSING MAIN GROUNDING CONDUCTORS; WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED. MATERIAL SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, REPUBLIC STEEL, YOUNGSTOWN STEEL AND TUBE, OR EQUAL. PROTECT WITH ASPHALTIC PROTECTIVE COATING WHEN BELOW FINISH GRADE.
- 2.3.2 SEALOFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, SUBMERGIBLE PUMPS, AND INTERIOR DISTRIBUTION PANEL.
- 2.3.3 PVC CONDUITS: ALL WIRING RUNS BELOW UNDERGROUND UNLESS OTHERWISE INDICATED. MATERIAL SHALL BE HEAVY WALL, TYPE II RIGID, SCHEDULE 40 AS MANUFACTURED BY CARLON, BALDWIN, TRIANGLE, OR EQUAL. PVC CONDUITS SHALL BE U.L. LISTED AND APPROVED.
- 2.4 CONDUCTORS:
- 2.4.1 FINISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (60 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING, TYPE THN (90° CENTIGRADE) FOR SUPPLY CONNECTIONS TO LIGHT FIXTURES. INSTALL PER NEC COLOR CODE.
- 2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.
- 2.4.3 SPICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES. PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES W/ OVERALL NYLON INSULATORS FOR CONDUCTORS. CONNECTORS SHALL BE 3M "SCOTCHLOK", CHUBBANNAN SPLICE CAPS W/ INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL.
- 2.6 PANELBOARDS:
- 2.6.1 BRANCH CIRCUIT PANELBOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANELBOARDS WITH THERMAL MAGNETIC, MOLDED CASE, GENERAL ELECTRIC TYPE NL4B OR APPROVED EQUAL. WITH PLUG-IN CIRCUIT BREAKERS, GENERAL ELECTRIC TYPE N10T OR APPROVED EQUAL. PROVIDE GROUNDING TERMINAL BLOCK IN EACH PANELBOARD. SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.
- 2.6.1 ACCEPTABLE SUBSTITUTES: DISTRIBUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY BY ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY CUTLER-HAMMER, FEDERAL PACIFIC, INC., SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES, WHEN APPROVED IN WRITING.

7 ELECTRICAL WORK - continued

PART 3 - EXECUTION

- 3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOK-UPS AND MISCELLANEOUS PROJECTS WITH ALL OTHER SERVICES AS SHOWN ON DRAWINGS. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
- 3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR ALL WIRING AND CONDUITS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- 3.2.1 CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER/OWNER'S AGENT IN WRITING.
- 3.2.2 ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED; CONDUITS AT TANKS SHALL NOT CROSS OVER TANKS. PLACE CONDUIT THROUGHOUT EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.
- 3.2.3 CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN.
- 3.2.4 FLASH AND COUNTER FLASH CONDUITS WHICH PENETRATE THE CANOPY DECKING. HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.
- 3.2.6 FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM. DEF PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON DEF DRAWINGS. ADDITIONAL CONDUITS AND CIRCUITS WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.
- 3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS BE REQUIRED, VERIFY THROUGH OWNER/OWNER'S AGENT AND PROVIDE AS REQUIRED.
- 3.4 SIGNS AND LIGHTED FASCIA: LOCATE AND PROVIDE ALL SIGNS AND LIGHTS. PROVIDE FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.
- 3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM, OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANELBOARDS, SWITCHGEAR, ETC. TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER CRAFTS AND TRADES SO THAT ELECTRICAL EQUIPMENT WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR INOPERABLE. PROVIDE THEIR PROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.
- 3.6 ISOLATED GROUND: IT IS MANDATORY THAT FUEL EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE COMPLETED WITH SAME MINIMUM CIRCUITS REQUIRED, BUT LIMITED TO SHALL BE INTERCOM, DEF CONSOLE AND UNDERGROUND DEF TANK MONITORING SYSTEM. EXCAVATION AND BACKFILLING: ALL EXCAVATION AND BACKFILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.
- 3.8 OPERATING AND ACCEPTANCE TESTS:
- 3.8.1 CONDUCT OPERATING TEST ON ENTIRE ELECTRICAL INSTALLATION: ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO START-UP AND FINAL CHECK-OUT OF SYSTEM COVERED ELSEWHERE.
- DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER.
- 3.8.2 INSPECT ALL PANELBOARDS, SWITCHGEAR, AND ALL ELECTRICAL WORK FOR DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.
- 3.8.3 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.
- 3.8.3 TEST GROUND: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.
- 3.8.4 INSPECT ALL PANELBOARDS, SWITCHGEAR, AND ALL ELECTRICAL WORK FOR DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.
- 3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER/OWNER'S AGENT WITH ONE SET OF MARKED-UP PRINTS SHOWING "AS-BUILT" INSTALLATION.
- 3.10 FINAL ACCEPTANCE: UPON COMPLETION OF WORK, PRESENT CERTIFICATE OF APPROVAL OF LOCATION OR GOVERNING INSPECTION AUTHORITY.
- 3.11 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

8 PAINTING

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETION OF ALL PAINTING OF SURFACES COMPLETE, INCLUDING PAINTING OF THE FOLLOWING SURFACES:
- 1.1.1 MISCELLANEOUS METAL, DOWNSPUTS, COLUMNS, POSTS, ISLAND FORMS, VENT LINES, MANHOLE COVERS AND ELECTRICAL CONDUITS.
- 1.2 PAINTING DOES NOT INCLUDE:
- 1.2.1 PAINTING CANOPY LIGHT FIXTURES.
- 1.2.2 PAINTING LIGHT FIXTURES.
- 1.2.3 PAINTING FASCIA SIGN FRAMES.
- 1.2.4 PAINTING FUEL EQUIPMENT.
- 1.3 COLOR SCHEDULE: COLOR OF PAINTS SHALL BE AS LISTED IN COLOR SCHEDULE.

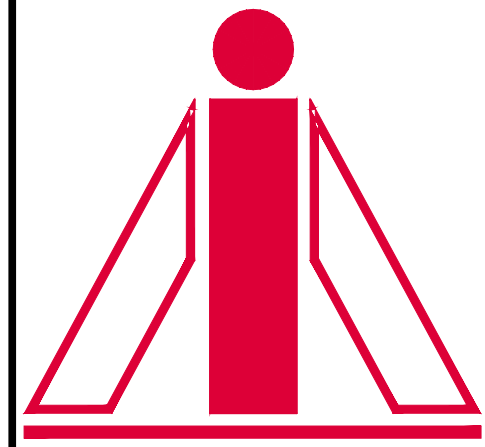
PART 2 - PRODUCTS

- 2.1 PAINT MANUFACTURERS AND PRODUCTS: PAINTING SYSTEM AS SPECIFIED HEREIN IS BASED ON PRODUCTS OF THE GLIDDEN COATING & RESINS COMPANY, A DIVISION OF SCM CORPORATION. HOWEVER, EQUAL PAINTING SYSTEMS OF PRATT & LAMBERT, PPG INDUSTRIES AND BENJAMIN MOORE WILL BE CONSIDERED.
- 2.2 PAINTING COATS AND PRODUCTS:
- 2.2.1 FUEL ISLAND METALS AND VENT LINES: SHALL BE GLIDDEN SPREAD LUSTRE ALKYD SEMI-GLOSS PAINT #4656 ARCHITECTURAL BROWN.
- 2.2.2 PAINT ALL MANHOLE COVERS AND 4" SURROUNDING CONCRETE, INSIDE AND OUT, IN ACCORDANCE WITH STANDARD INDUSTRY COLOR CODE AS SHOWN:
- G.C. TO USE BLACK COLOR FOR ALL COVERS U.N.O. RE: FUEL DRAWINGS.
- | | |
|-----------------------------|----------------------------------|
| API COLOR CODES | |
| ETHANOL | PURPLE |
| ETHANOL UNLEADED REGULAR | PURPLE |
| UNLEADED PREMIUM | WHITE W/BLACK CROSS |
| LEADED REGULAR W/EXTENDER | BLUE W/WHITE BAND |
| UNLEADED REGULAR W/EXTENDER | WHITE W/BLACK CROSS & BLACK BAND |
| UNLEADED PREMIUM W/EXTENDER | RED W/WHITE CROSS & WHITE BAND |
| DIESEL VAPOR RECOVERY | SOLID YELLOW |
| | SOLID ORANGE. |

PART 3 - EXECUTION

- 3.1 PROTECTION: COVER ENTIRE CONCRETE SURFACES. NO PAINT OR SOLVENT SHALL BE ALLOWED TO COME IN CONTACT WITH CONCRETE SURFACES. WHERE IT BECOMES NECESSARY, IN ORDER TO EXECUTE HIS OWN WORK, FOR PAINTER TO REMOVE COVERINGS, PLATES, ETC., PLACED BY OTHER CONTRACTORS AT ANY BRANCH OF THE WORK, HE SHALL REPLACE SAME IN PROPER MANNER. IN SITUATIONS WHERE SAID COVERINGS, PLATES, ETC. CANNOT BE READILY REMOVED, PAINTER SHALL PROTECT THE WORK IN SOME OTHER MANNER. ONLY COVERINGS AND WASTE MUST BE REMOVED EVERY NIGHT. UNDER NO CIRCUMSTANCES SHALL THEY BE ALLOWED TO ACCUMULATE. PAINTING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE WORK OF OTHER SUBCONTRACTORS AND SHALL REPAIR OR REPLACE AS NECESSARY TO THE SATISFACTION OF THE OWNER.
- 3.2 PREPARATION OF SURFACES: INSPECT ALL SURFACES TO BE PAINTED. REPORT ANY DISCREPANCIES TO THE CONTRACTOR PRIOR TO START OF WORK. STARTING OF PAINT APPLICATION SHALL CONSTITUTE ACCEPTANCE OF SURFACES AS SHOWN AND THE RECEPTION OF PAINT APPLICATION. ALL SURFACES SHALL BE CLEAN AND DRY, BETWEEN 50 AND 90 DEGREES FAHRENHEIT AT TIME OF PAINT APPLICATION. CLEAN METAL OF MILL SCALE, RUST, OIL, GRAPE, AND FOREIGN MATTER. CLEAN GALVANIZED METAL ACCORDING TO SSPC-SP 1-63 SOLVENT CLEANING. PROTECT ADJACENT AND FINISHED WORK FROM PAINT.
- 3.3 APPLICATION OF PAINT: DO NOT THIN, ADULTERATE OR CHANGE MATERIALS EXCEPT AS RECOMMENDED BY MANUFACTURER. APPLY PAINT BY BRUSH OR ROLLER FOR WORK. ALL PAINTING SHALL BE BRUSHED, SPRAYED OR ROLLED EVENLY FOR THOROUGH COATS WITHOUT RUNS, SAGS OR OTHER BLEMISHES. ALLOW EACH COAT TO DRY BEFORE APPLYING SUBSEQUENT COATS. ALL SURFACES TO RECEIVE A MINIMUM OF 2 COATS AS NECESSARY TO ACHIEVE AN APPROVED FINISH. APPLICATION OF PAINT, ETC., SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS.
- 3.4 CLEAN-UP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

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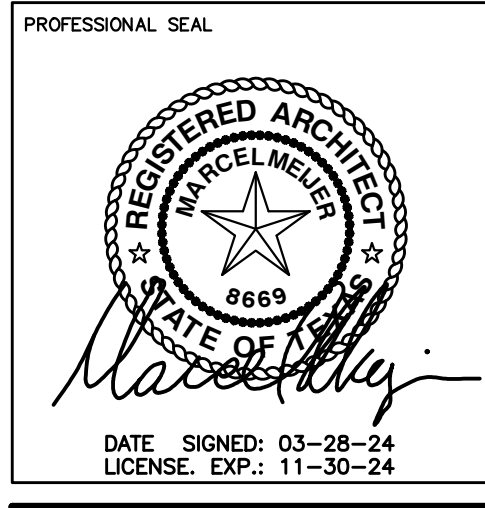


INTERPLAN ARCHITECTS INC.
PLANNING ARCHITECTURE INTERIORS
281-398-2020

PROJECT NUMBER
CEF22-DEF10.DWG

PROJECT TITLE

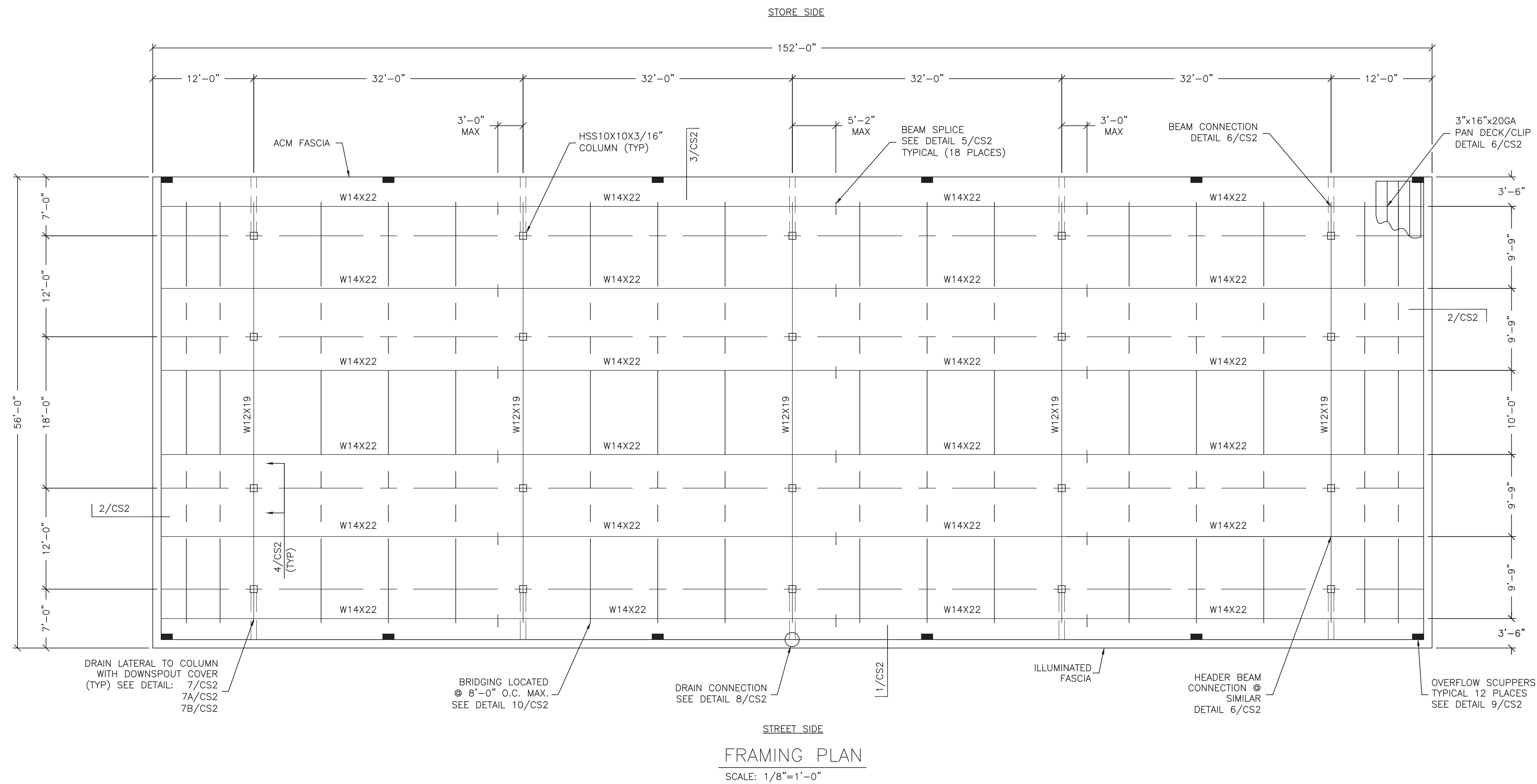
CEFCO CONVENIENCE STORES #0047
1-35 FRONTAGE ROAD
EDDY, TEXAS 76524
BRUCEVILLE - EDDY CITY LIMITS
MCLENNAN COUNTY
A PROJECT OF:
FIKES WHOLESALE, INC.



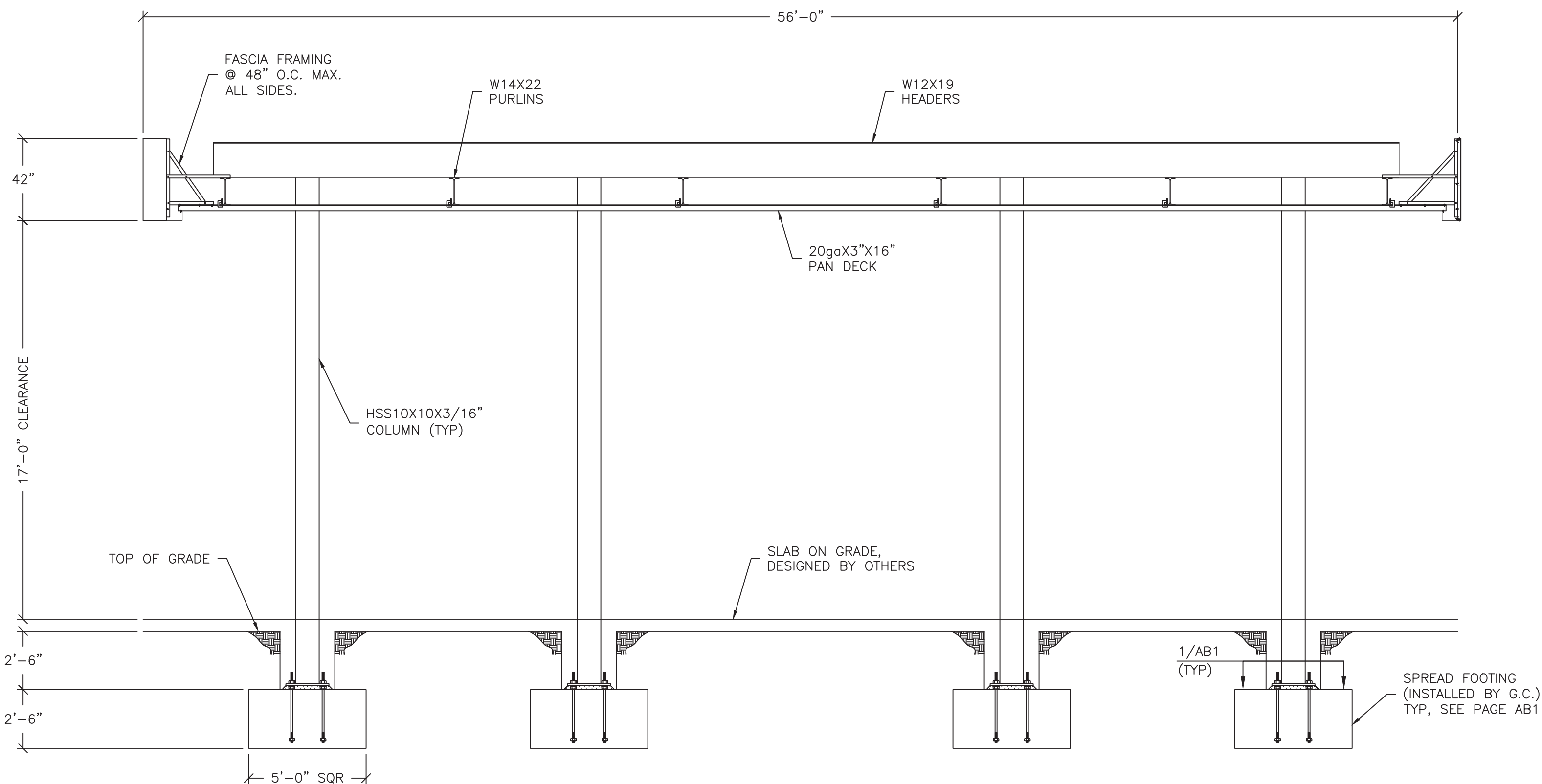
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02-16-23	60% REVIEW SET
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SCOPE OF THE DOCUMENT
This drawing indicates the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical electrical systems. As scope documents, the drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract Documents. On the basis of the general scope indicated or described, the contractor shall furnish all items required for the proper execution and completion of the work. These drawings shall not be used for construction unless DATED and noted as ISSUED FOR CONSTRUCTION WORK. The information, details and drawings shown by this document can not be reproduced, copied or photocopied in a similar manner without the expressed written consent from the owner, INTERPLAN ARCHITECTS, INC.

REVISIONS		
NO.	DATE	DESCRIPTION



FRAMING PLAN
SCALE: 1/8"=1'-0"



SECTION/ELEVATION
SCALE: 1/4"=1'-0"

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CANOPY NOTES

GENERAL NOTES:
 A. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE.
 B. OBSERVATION VISITS TO THE SITE BY THE DESIGN ENGINEER SHALL NEITHER BE CONSIDERED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
 C. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN LIMITS OF DESIGN LOADS.
 D. TYPICAL DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.

1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE
 2. USE GROUP: M, CONSTRUCTION TYPE - IIB
 3. DESIGN LOADS:
 A. ROOF LIVE LOAD: 20 PSF (REDUCIBLE)
 B. CANOPY DEAD LOAD: 9.08 PSF
 C. GROUND SNOW LOAD Pg: 5 PSF
 FLAT ROOF SNOW LOAD Pf: 4.2 PSF
 RAIN ON SNOW SURCHARGE: 5 PSF IF Pg<20
 EXPOSURE FACTOR Ce: 1.0
 IMPORTANCE FACTOR Is: 1.0
 THERMAL FACTOR Ct: 1.2
 D. BASIC WIND SPEED: V=106 MPH, Vahd=82 MPH
 BUILDING RISK CATEGORY: C
 EXPOSURE: C
 COMPONENT & CLADDING: ASCE 7-16 CHAPTER 30
 E. EARTHQUAKE DESIGN:
 IMPORTANCE FACTOR: 1.0
 Ss=0.084g
 S1=0.035g
 SITE CLASS: D
 SEISMIC DESIGN CATEGORY: A
 SEISMIC FORCE RESISTING SYSTEM: G.2 STEEL ORDINARY CANTILEVERED COLUMN SYSTEM
 DESIGN BASE SHEAR: 4.15k
 SEISMIC RESPONSE COEFFICIENT: Cs = 0.05
 RESPONSE MODIFICATION FACTOR: R=1.25
 SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

4. FOUNDATION DESIGN:
 ALLOWABLE BEARING PRESSURE: 4500 PSF
 PER GEOTECHNICAL REPORT BY: PSI,
 DATED: 23 FEBRUARY 2012 (PROJECT NO. 0303382).
 LATERAL EARTH PRESSURE: 260 PSF/FT
 * SITE SOILS SHALL BE PREPARED FOR THE FOUNDATION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT REFERENCED ABOVE.

5. CONCRETE AND REINFORCEMENT:
 A. CONCRETE FOOTINGS (EXPOSURE CLASSES F0, SO, W0, CO) TYPE II CEMENT COMPRESSION STRENGTH OF f'c = 3000 p.s.i.
 B. SLAB ON GRADE (BY OTHERS)
 C. CONCRETE DESIGNED USING f'c = 2500 p.s.i. OR ABOVE SHALL HAVE SPECIAL INSPECTIONS PERFORMED, UNLESS ISOLATED SPREAD FOOTINGS ARE UTILIZED. SEE SPECIAL INSPECTIONS FOR THE CANOPY CONCRETE NOTE.
 D. REBAR: ASTM A615 GRADE 60
 E. STIRRUPS AND TIES SHALL HAVE MINIMUM 4" HOOKS.
 F. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT:
 CONCRETE EXPOSED TO GROUND --- 3"
 FORMED CONCRETE EXPOSED TO GROUND --- 2"
 FORMED CONCRETE NOT EXPOSED TO GROUND --- 1 1/2"
 G. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-SHRINK GROUT COMPLYING WITH ASTM C1107, f'c=5000p.s.i. AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 H. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING TOP OF FOOTING ELEVATIONS AS REQUIRED FOR UNDERGROUND PLUMBING AND ELECTRICAL.

6. STRUCTURAL STEEL:
 A. ALL STRUCTURAL STEEL SHALL COMPLY WITH AISC "SPECIFICATION FOR THE DESIGN OF STRUCTURAL STEEL FOR BUILDINGS" 15TH EDITION.
 B. AISC "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, 4.4.2, AND 7.15.
 C. AISC "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS".
 D. STRUCTURAL STEEL GRADES:
 STEEL BEAMS ASTM A992 GRADE 50 Fy = 50,000 psi
 HSS SQUARE & RECTANGLES ASTM50 GRADE C Fy = 50,000 psi
 HSS ROUND COLUMNS: Fy = 48,000 psi
 PIPE ASTM A53 GRADE B Fy = 35,000 psi
 BASE PLATES, CAP PLATES AND CAP PLATE STIFFENERS: Fy = 50,000 psi
 ASTM A572 GRADE 50 Fy = 50,000 psi
 ANGLES ASTM A36 Fy = 36,000 psi
 E. ALL BOLTED CONNECTIONS SHALL BE ASTM A307 BOLTS UNLESS OTHERWISE SPECIFIED (NO SPECIAL INSPECTION REQUIRED).
 F. ALL BOLTED CONNECTIONS SHALL BE "SNUG-TIGHT", UNLESS NOTED OTHERWISE IN ACCORDANCE WITH RCSC.
 G. METAL PAN DECK SHALL BE 20ga ASTM A653 GRADE 40.

SPECIAL INSPECTIONS FOR THE CANOPY

SPECIAL INSPECTIONS FOR THE CANOPY SHALL BE PROVIDED BY THE OWNER PER CHAPTER 17 OF THE IBC.

THE FOLLOWING SYSTEMS ARE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF THE IBC CHAPTER 17:

A. COLUMNS
 B. COLUMN BASE PLATE
 C. FOOTINGS UNLESS EXEMPT

D. PURLIN BEAMS
 E. BEAMS

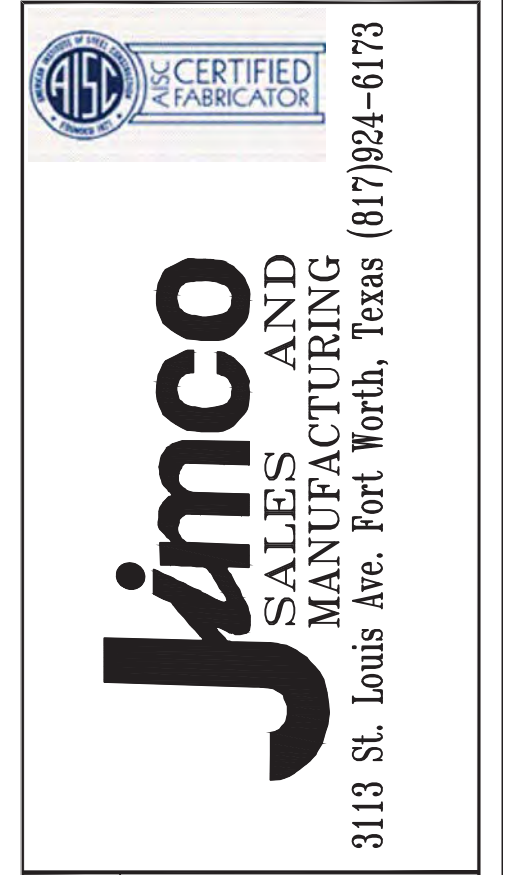
SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

- WELDING - PRIOR TO WELDING (TABLE N5.4-1, 360-16)
 2. DURING WELDING (TABLE N5.4-2, 360-16)
 3. AFTER WELDING (TABLE N5.4-3, 360-16)
 4. NONDESTRUCTIVE TESTING (SECTION N5, 360-16)
 PER IBC 1705.2, SPECIAL INSPECTION IS NOT REQUIRED WHERE WELDING IS PERFORMED IN AN APPROVED SHOP. JIMCO SALES AND MANUFACTURING IS AN AISC APPROVED FABRICATOR (218031061-10NWT).
- BOLTING - PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16): NOT REQUIRED IF ONLY SNUG TIGHT JOINTS ARE SPECIFIED.
- FOUNDATIONS - PER IBC 1705.3, EXCEPTION 1 - SPECIAL INSPECTION IS NOT REQUIRED FOR ISOLATED SPREAD CONCRETE FOOTINGS FULLY SUPPORTED ON EARTH OR ROCK. *THIS EXCEPTION DOES NOT APPLY IN THE STATE OF NEVADA.*
 -SPECIAL INSPECTIONS SHALL BE PERFORMED DURING INSTALLATION AND TESTING OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS AS REQUIRED BY TABLE 1705.8.
- ANCHOR BOLTS - PERIODIC SPECIAL INSPECTION OF ANCHORS CAST IN CONCRETE REQUIRED PER IBC TABLE 1705.3, ITEM 3
- STRUCTURAL OBSERVATIONS: NONE REQUIRED

SEISMIC FORCE RESISTING SYSTEM (SFRS)

A. REFER TO AISC 341-16 SECTION A4 AND ASCE 7-16.
 B. DESIGNATION OF SFRS: G.2, STEEL ORDINARY CANTILEVER COLUMN SYSTEMS (ASCE 7-16 TABLE 12.2-1) SEE AISC 341-16 SECTION E5 (OCCS).
 C. R = 1.25, CS = 0.05
 D. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
 E. MEMBERS AND CONNECTIONS THAT ARE PART OF THE SFRS:
 1. COLUMNS
 2. COLUMN BASE CONNECTION
 3. FOOTINGS

F. PROTECTED ZONES: N/A
 G. SEE DETAILS AND NOTE FOR CONNECTION CONFIGURATIONS, MATERIALS SPECIFICATIONS AND SIZES.
 H. WELD FILLER MATERIALS FOR WELDS PART OF THE SFRS:
 1. YIELD STRENGTH - 58 KSI MIN
 2. TENSILE STRENGTH - 70 KSI MIN
 3. ELONGATION - 22% MIN
 4. C/W TOUGHNESS - 20 FT-LB MIN @ 0°F
 SEE DETAILS AND NOTES FOR OTHER WELDING REQUIREMENTS
 J. DEMAND CRITICAL WELDS - N/A
 K. LOWEST ANTICIPATED SERVICE TEMPERATURE - 0°F



DRAWING DESCRIPTION
CANOPY STRUCTURAL NOTES AND PLANS

JOB LOCATION
CEFCO #47
1-35 SOUTH BOUND FRONTAGE RD
EDDY, TX

Digitally signed by Victor M Herrera
 Date: 2023.02.24
 04:34:06-00

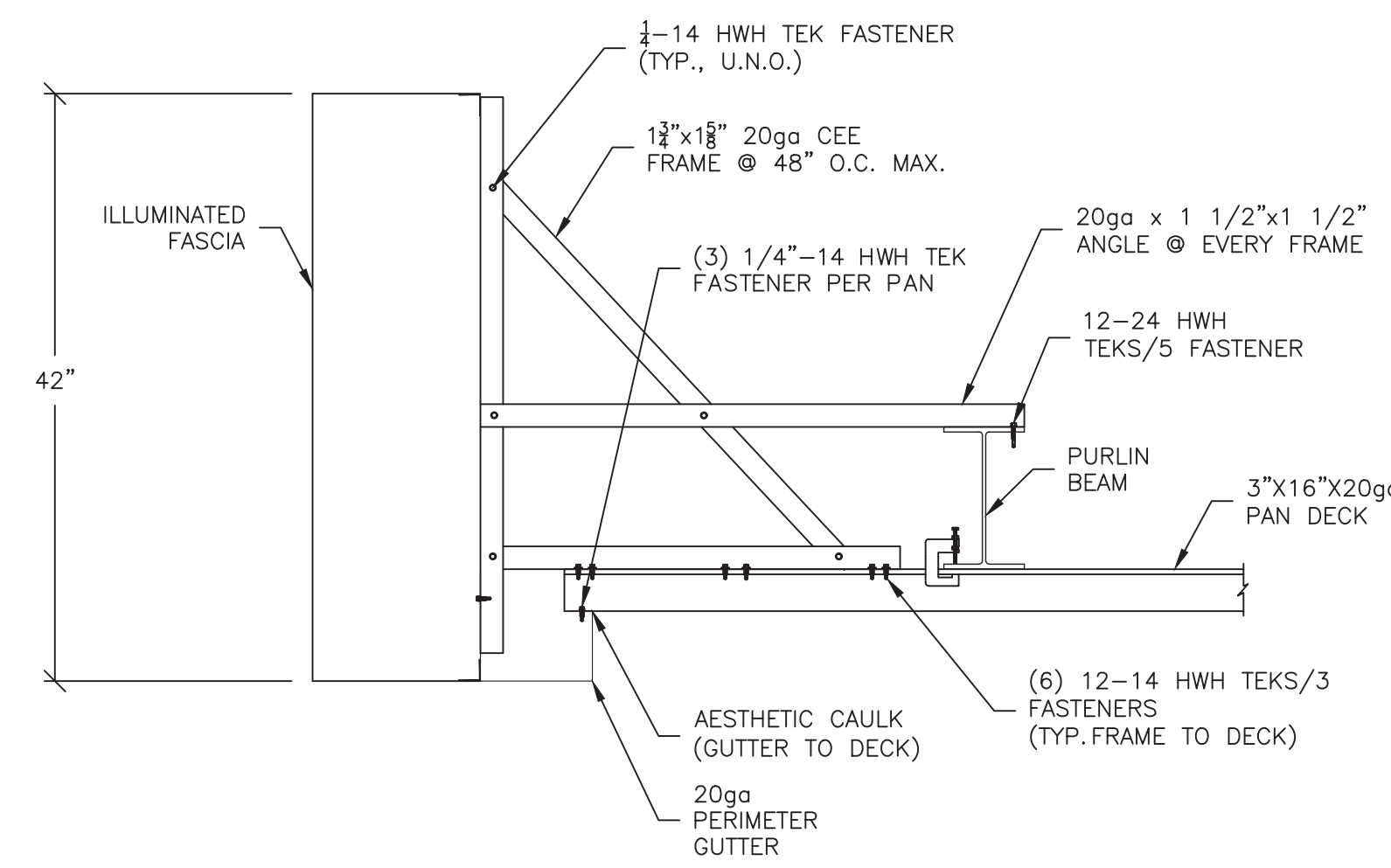
CUSTOMER
FIKES WHOLESALE, INC

NO. DESCRIPTION
REVISIONS

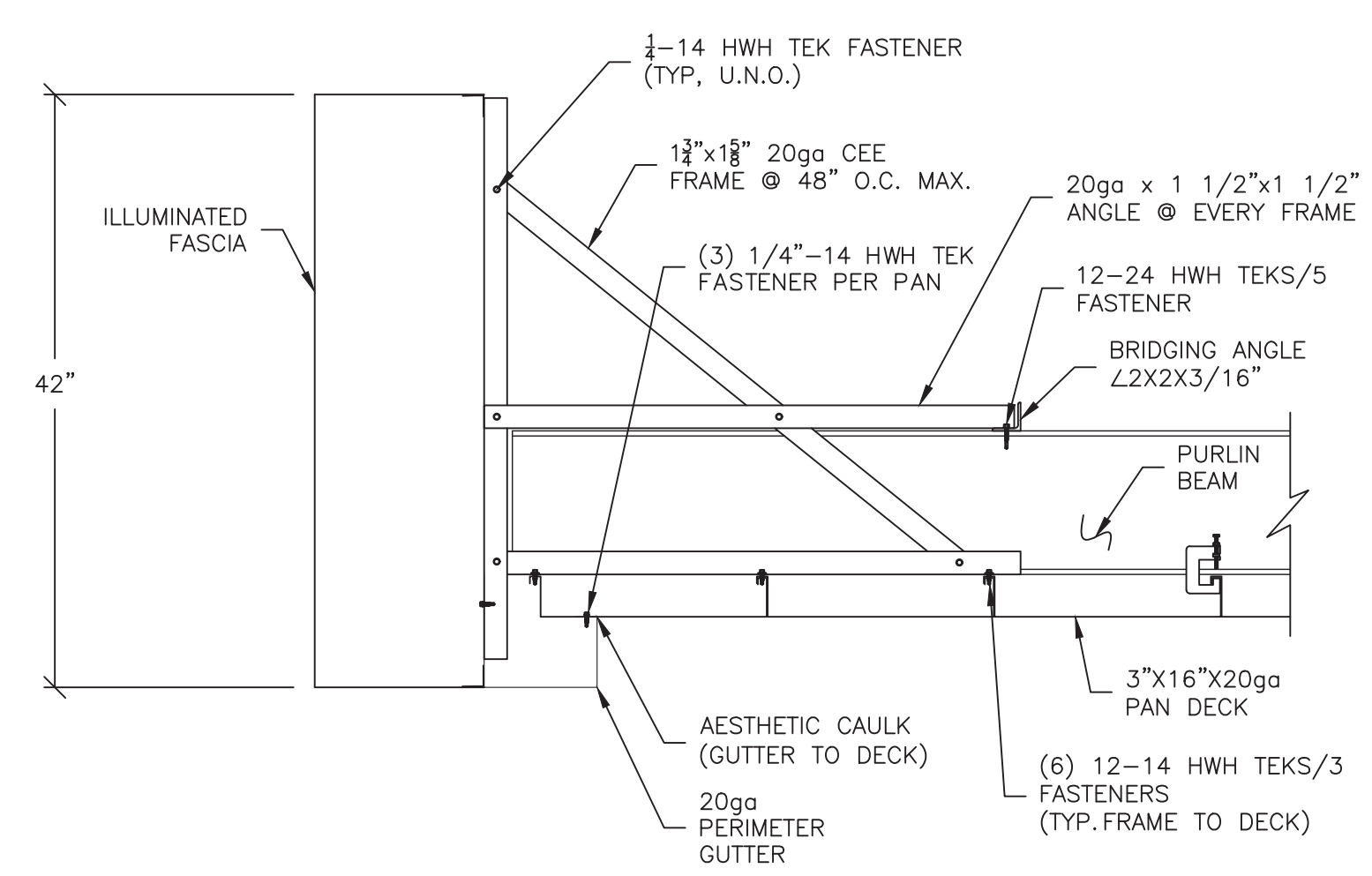
DATE
BY:

D. CYPHERS DRAWN BY:
V. HERRERA, PE
CHECKED BY:
2-20-2023
DATE:

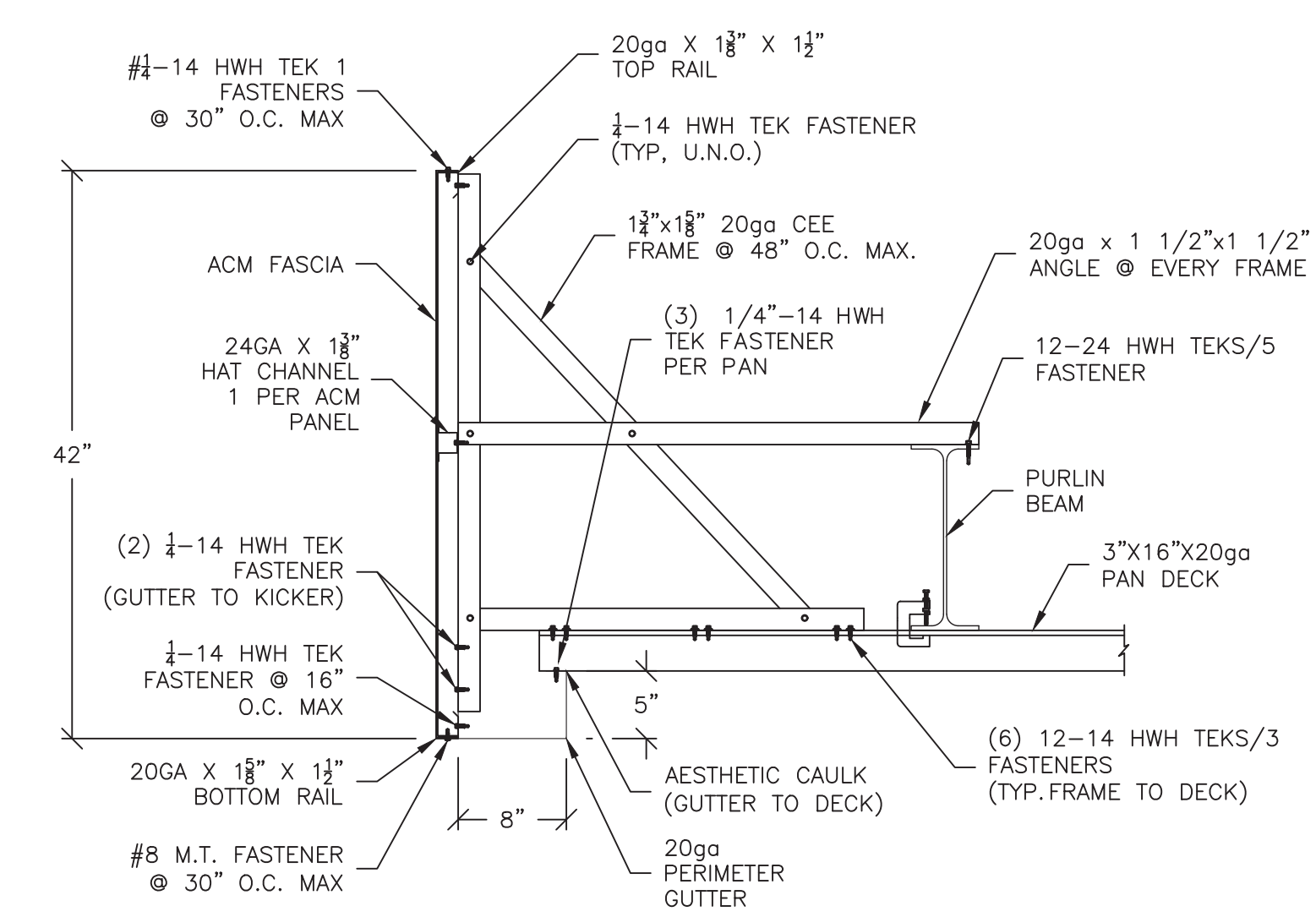
JOB NO.
23-1310R0
DWG. NO.
CS1
 OF 3 SHEETS



1 SIDE FASCIA DETAIL
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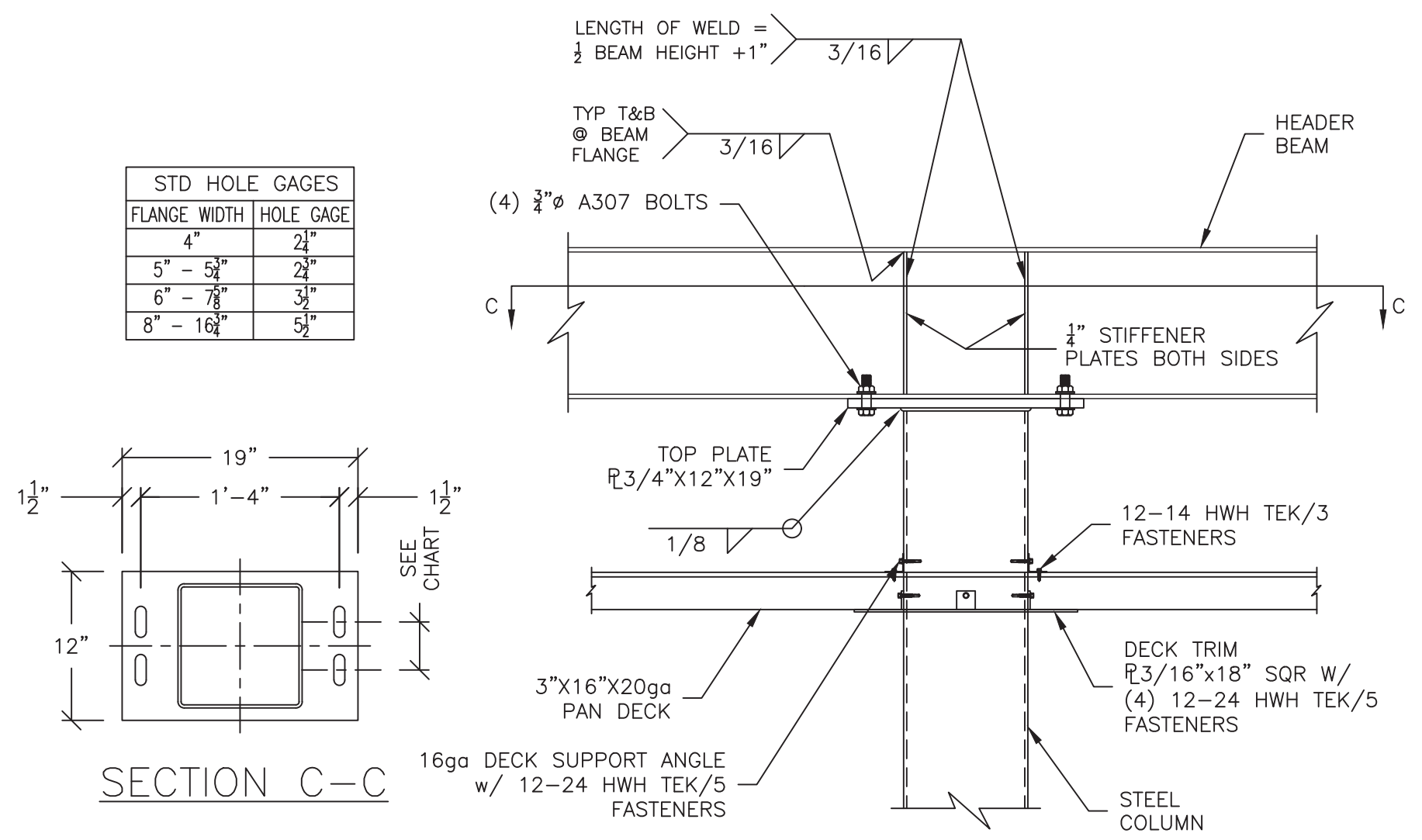


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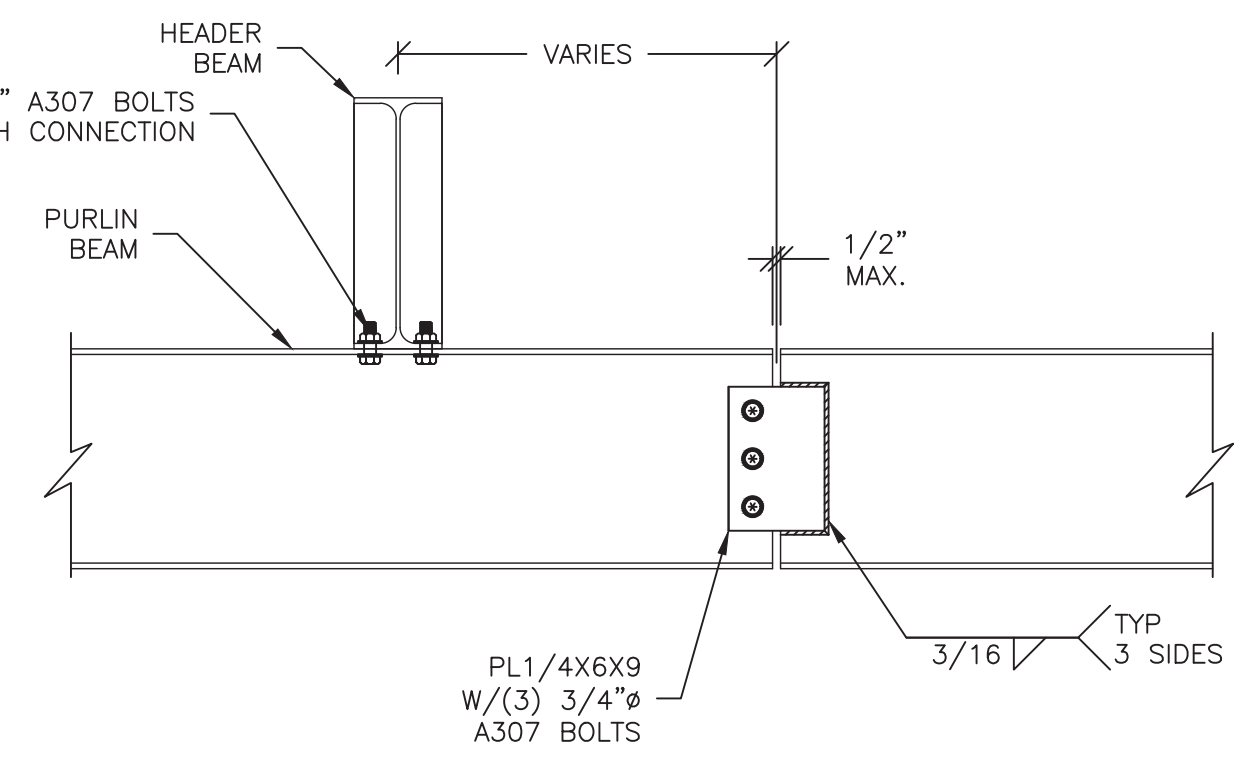


3 SIDE FASCIA DETAIL
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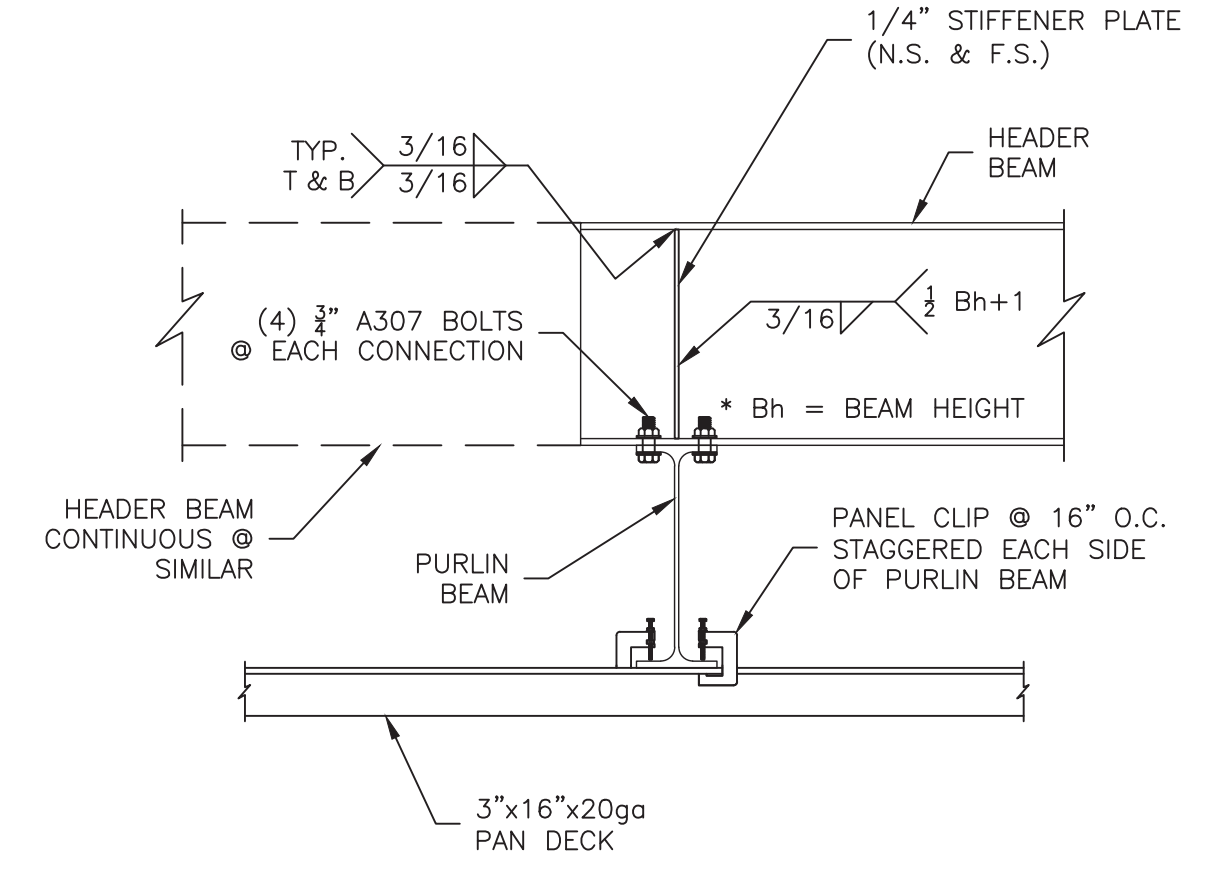
STD HOLE GAGES	
FLANGE WIDTH	HOLE GAGE
4"	2 1/4"
5" - 5 1/2"	2 1/2"
6" - 7 1/2"	3"
8" - 10 1/2"	3 1/2"



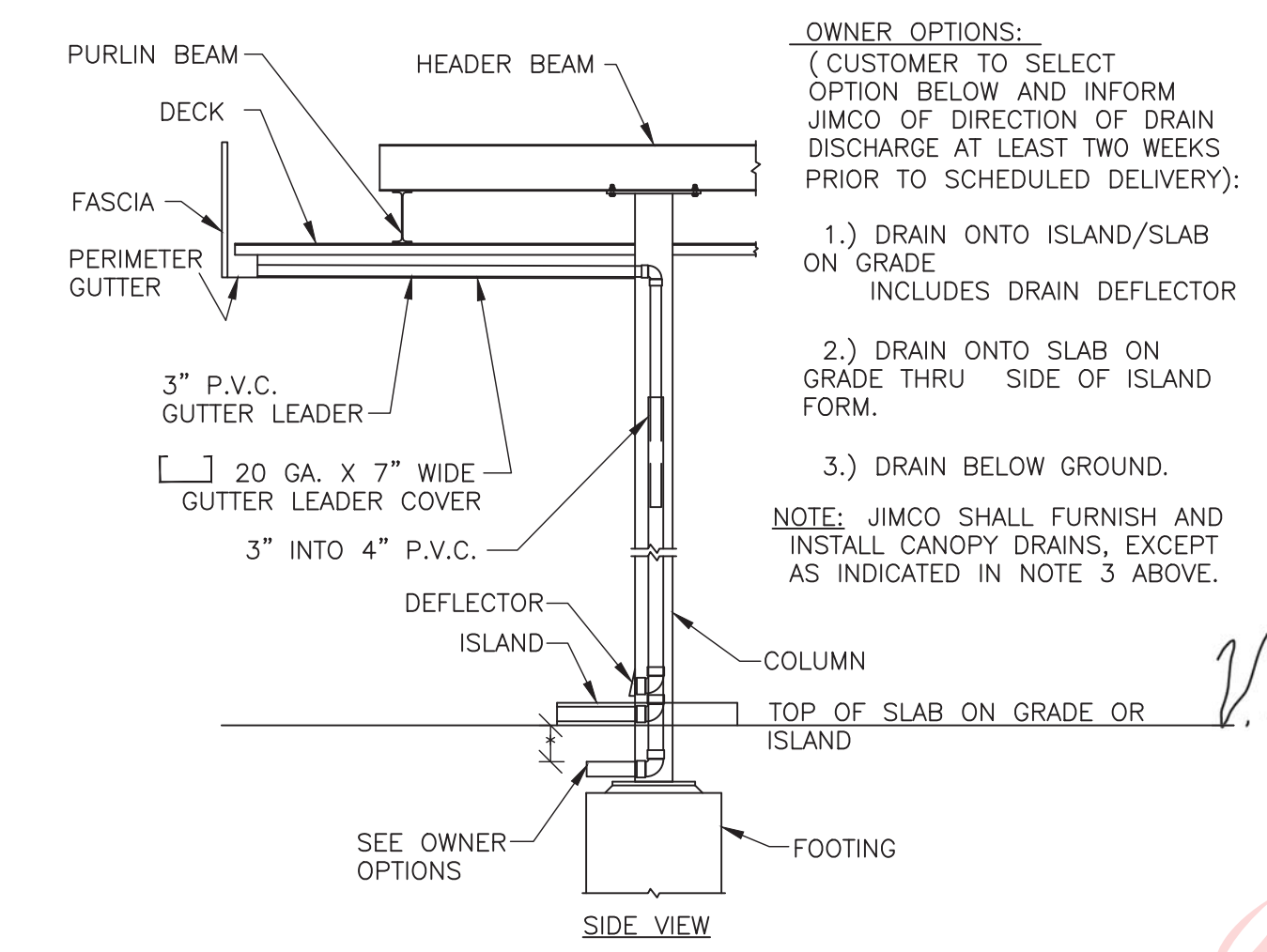
4 COLUMN/B EAM CONNECTION DETAIL
SCALE: 1"=1'-0"



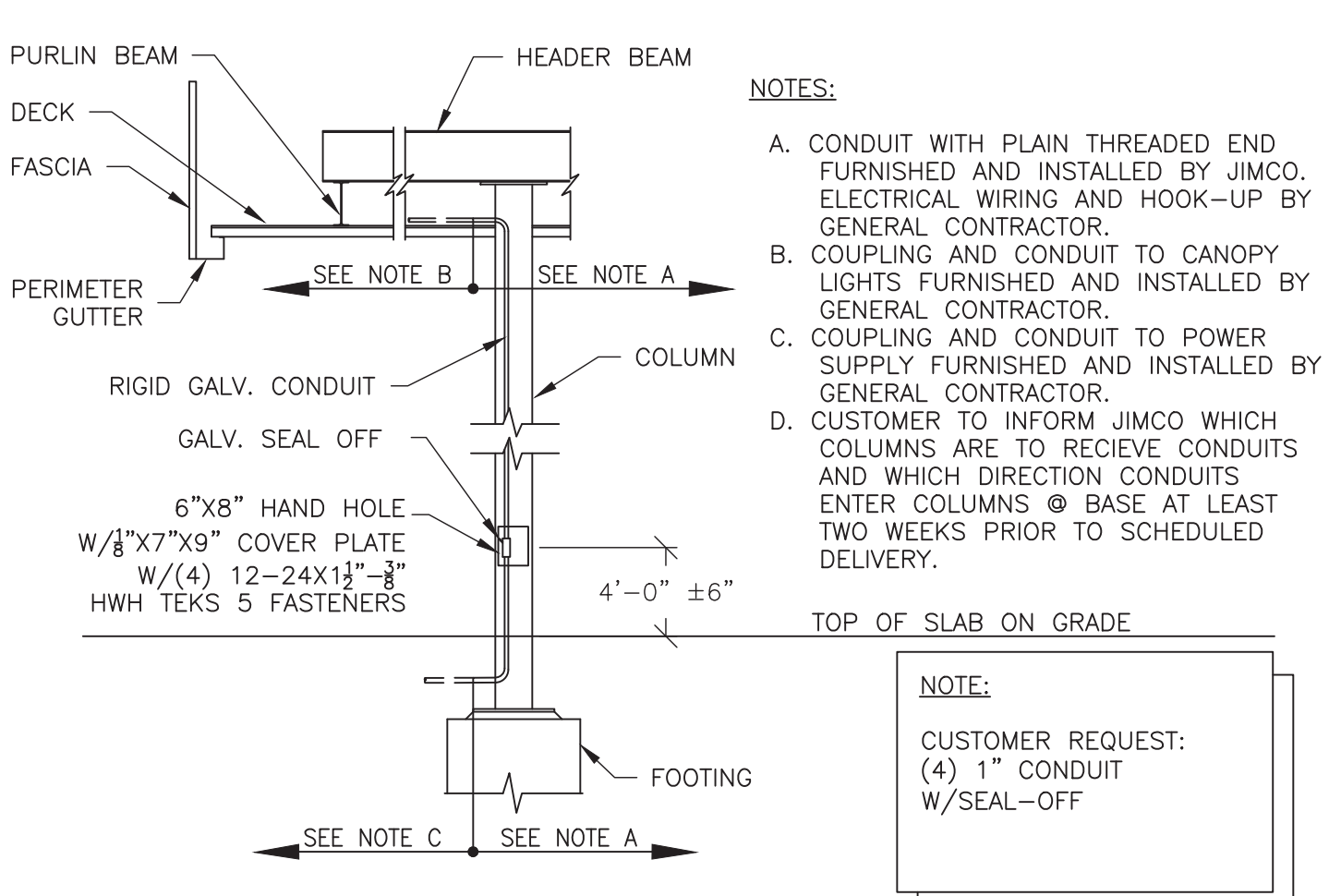
5 BEAM SPLICE DETAIL
SCALE: 1"=1'-0"



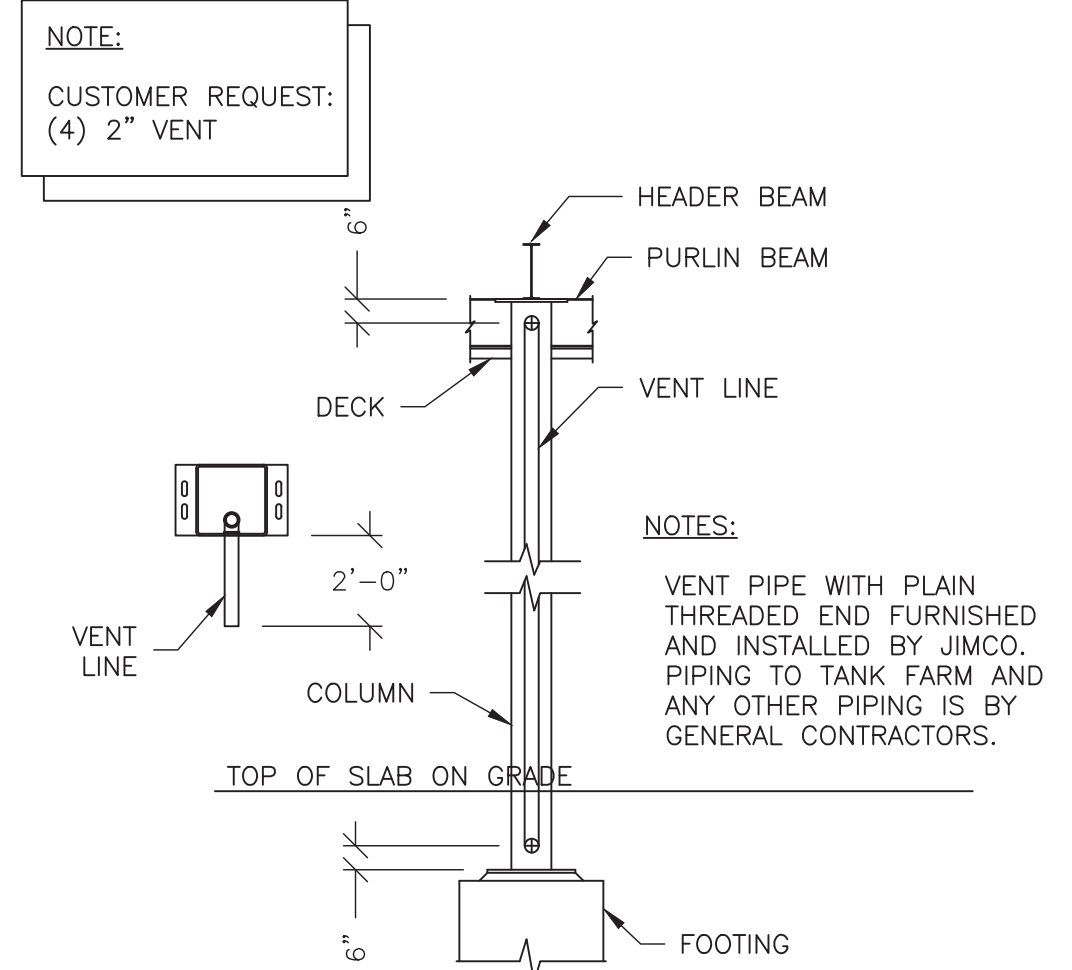
6 BEAM CONNECTION DETAIL
SCALE: 1"=1'-0"



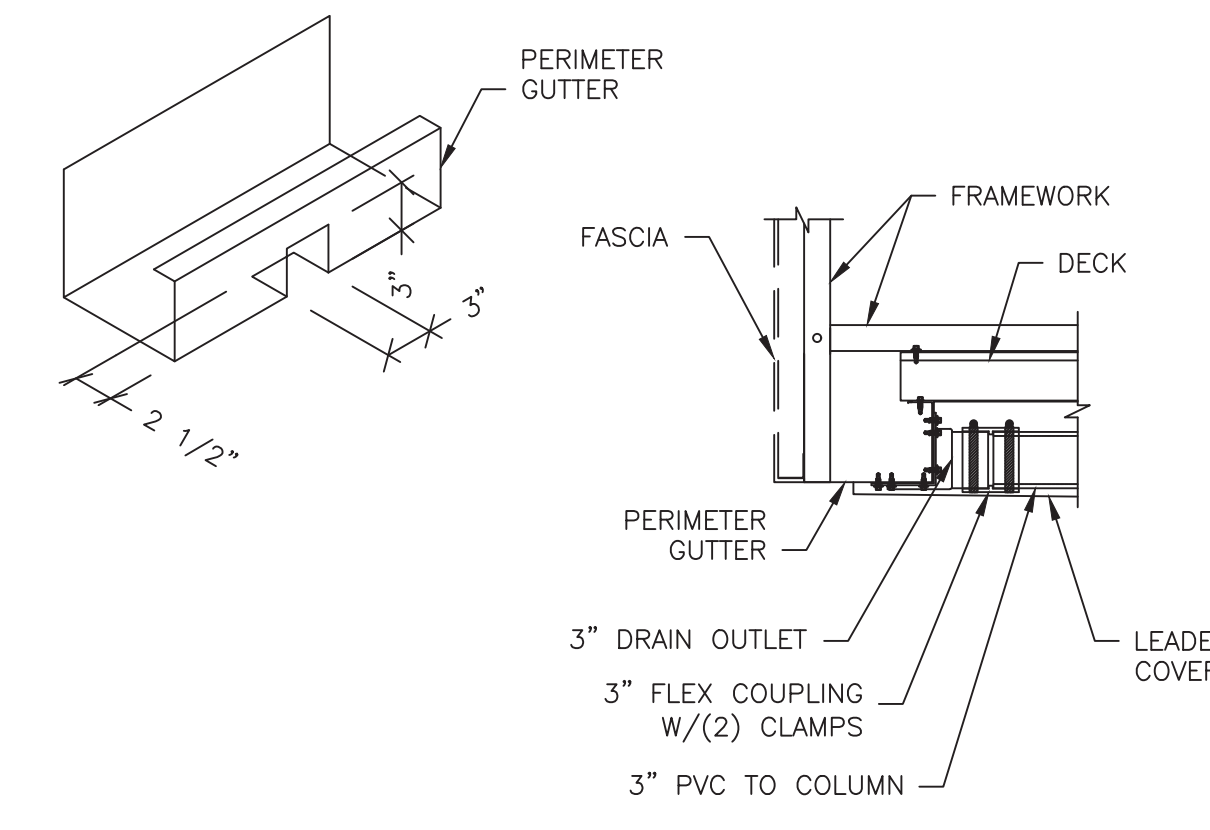
7 COLUMN DRAIN DETAIL
SCALE: 3"=1'-0"



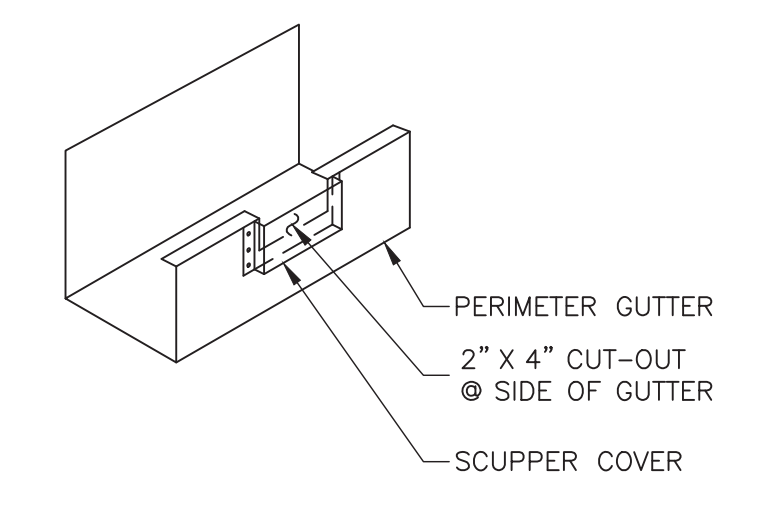
7A INTERNAL CONDUIT DETAIL
SCALE: 3"=1'-0"



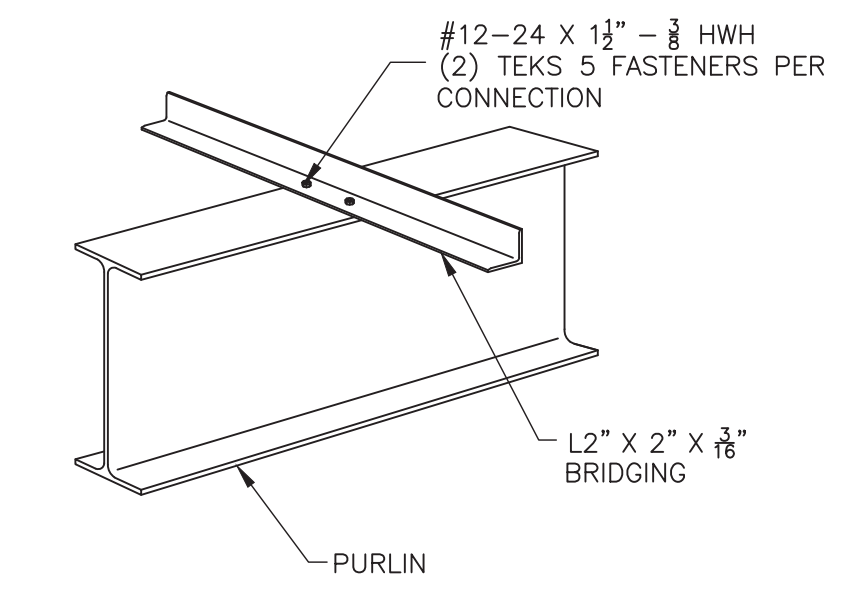
7B INTERNAL PIPE VENT DETAIL
SCALE: 3"=1'-0"



8 LEADER CONNECTION DETAIL
SCALE: 1"=1'-0"



9 OVERFLOW SCUPPER DETAIL
SCALE: 1"=1'-0"



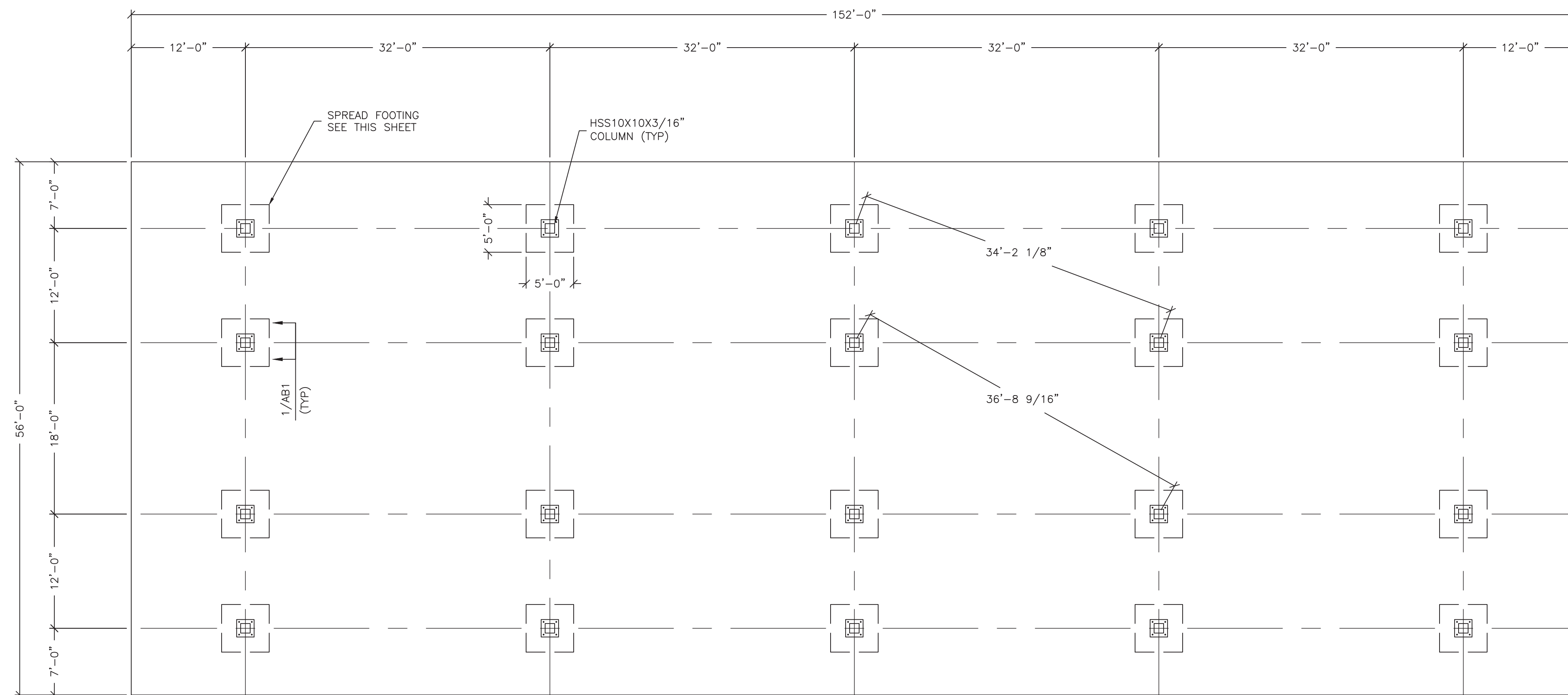
10 PURLIN BRIDGING DETAIL
SCALE: 1"=1'-0"

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OWNER OPTIONS:
(CUSTOMER TO SELECT OPTION BELOW AND INFORM JIMCO OF DIRECTION OF DRAIN DISCHARGE AT LEAST TWO WEEKS PRIOR TO SCHEDULED DELIVERY):
1.) DRAIN ONTO ISLAND/SLAB ON GRADE INCLUDES DRAIN DEFLECTOR
2.) DRAIN ONTO SLAB ON GRADE THRU SIDE OF ISLAND FORM.
3.) DRAIN BELOW GROUND.
NOTE: JIMCO SHALL FURNISH AND INSTALL CANOPY DRAINS, EXCEPT AS INDICATED IN NOTE 3 ABOVE.

Digitally signed by Victor M. Herrera
Date: 2023.02.24
04:34:54 -06'00

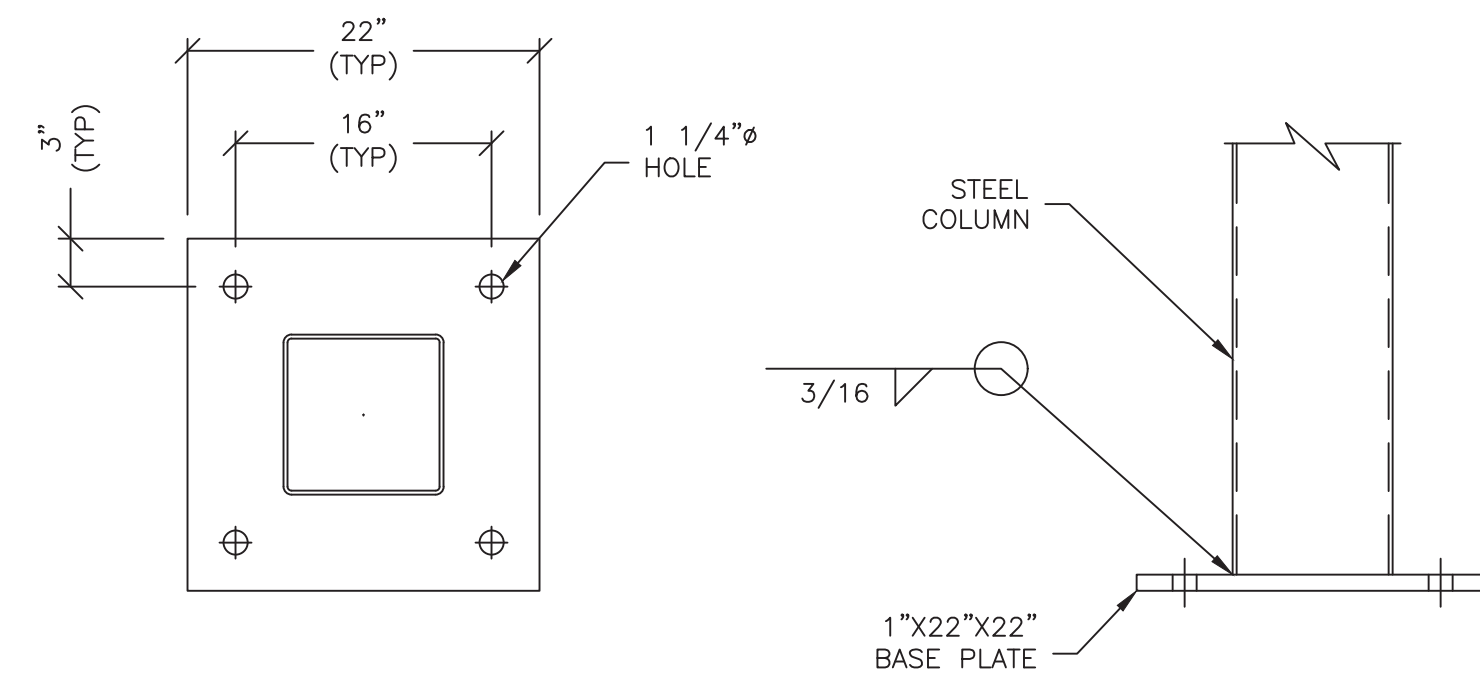
DRAWING DESCRIPTION	CANOPY STRUCTURAL SECTIONS AND DETAILS
JOB LOCATION	CEFCO #47 1-35 SOUTH BOUND FRONTAGE RD EDDY, TX
CUSTOMER	FIKES WHOLESALE, INC
NO. DESCRIPTION	REVISIONS
D. CYPHERS DRAWN BY:	V. HERRERA, PE CHECKED BY:
DATE:	2-20-2023
DATE:	DATE:



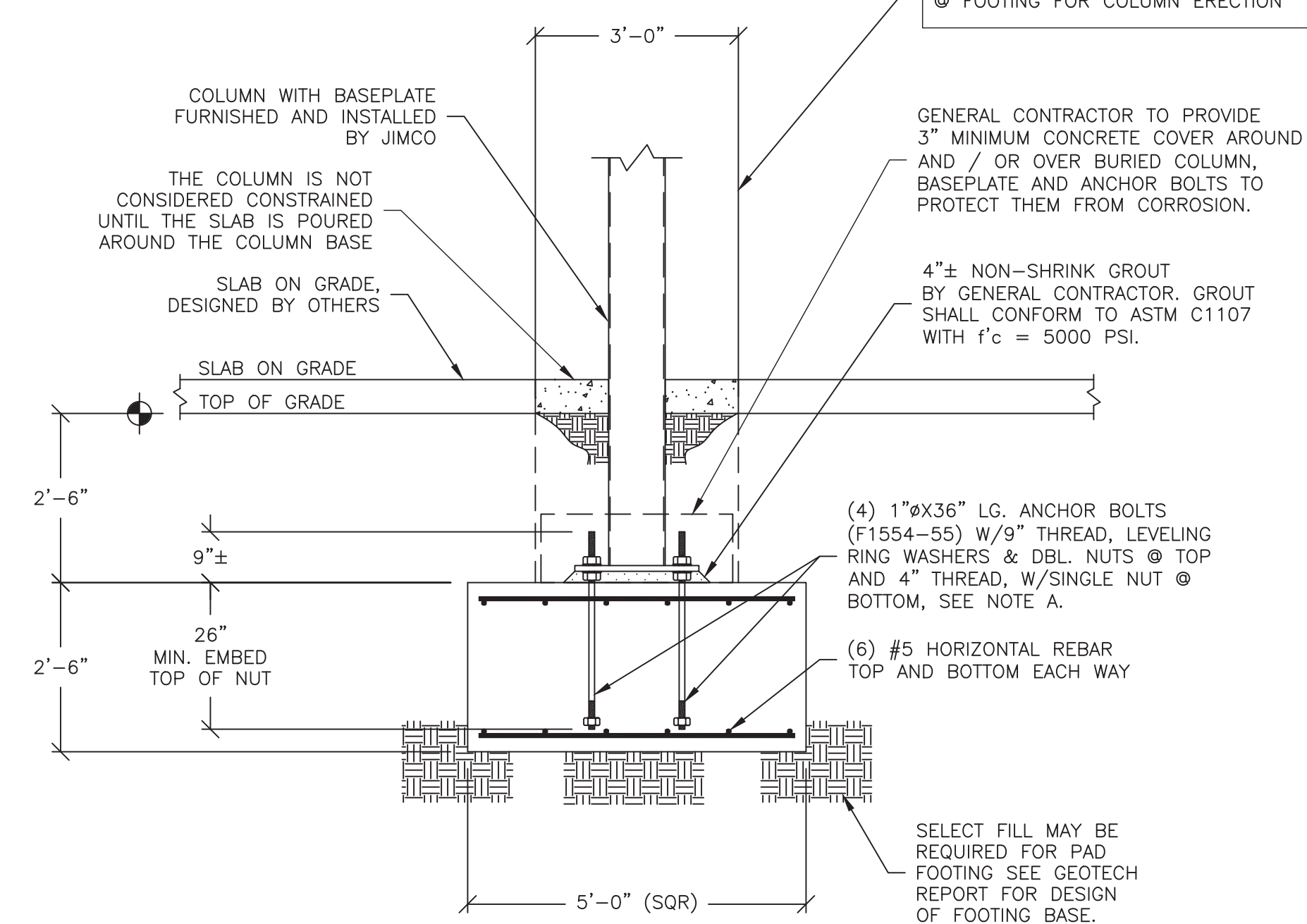
FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NOTE:
A) FOOTINGS INCLUDING CONCRETE, REBAR, FORMWORK AND ASSOCIATED EARTHWORK SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR EXCEPT ANCHOR BOLTS SHALL BE FURNISHED BY JIMCO AND INSTALLED BY GENERAL CONTRACTOR.
B) SEE FOUNDATION, CONCRETE NOTES ON DWG CS1.

FIELD NOTE:
LEAVE A 36" MIN. BLOCKOUT/CLEARANCE
⊙ FOOTING FOR COLUMN ERECTION



1 BASE PLATE DETAIL
SCALE: 1"=1'-0"



SPREAD FOOTING DETAIL
SCALE: 1/2"=1'-0"

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Jimco
SALES AND
MANUFACTURING

3113 St. Louis Ave. Fort Worth, Texas (817)924-6173

DRAWING DESCRIPTION
CANOPY FOUNDATION
SECTIONS AND DETAILS

JOB LOCATION
CEFCO #47
1-35 SOUTH BOUND FRONTAGE RD
EDDY, TX

Digitally
signed by
Victor M
Herrera
Date:
2023.02.24
04:35:07
'-0600



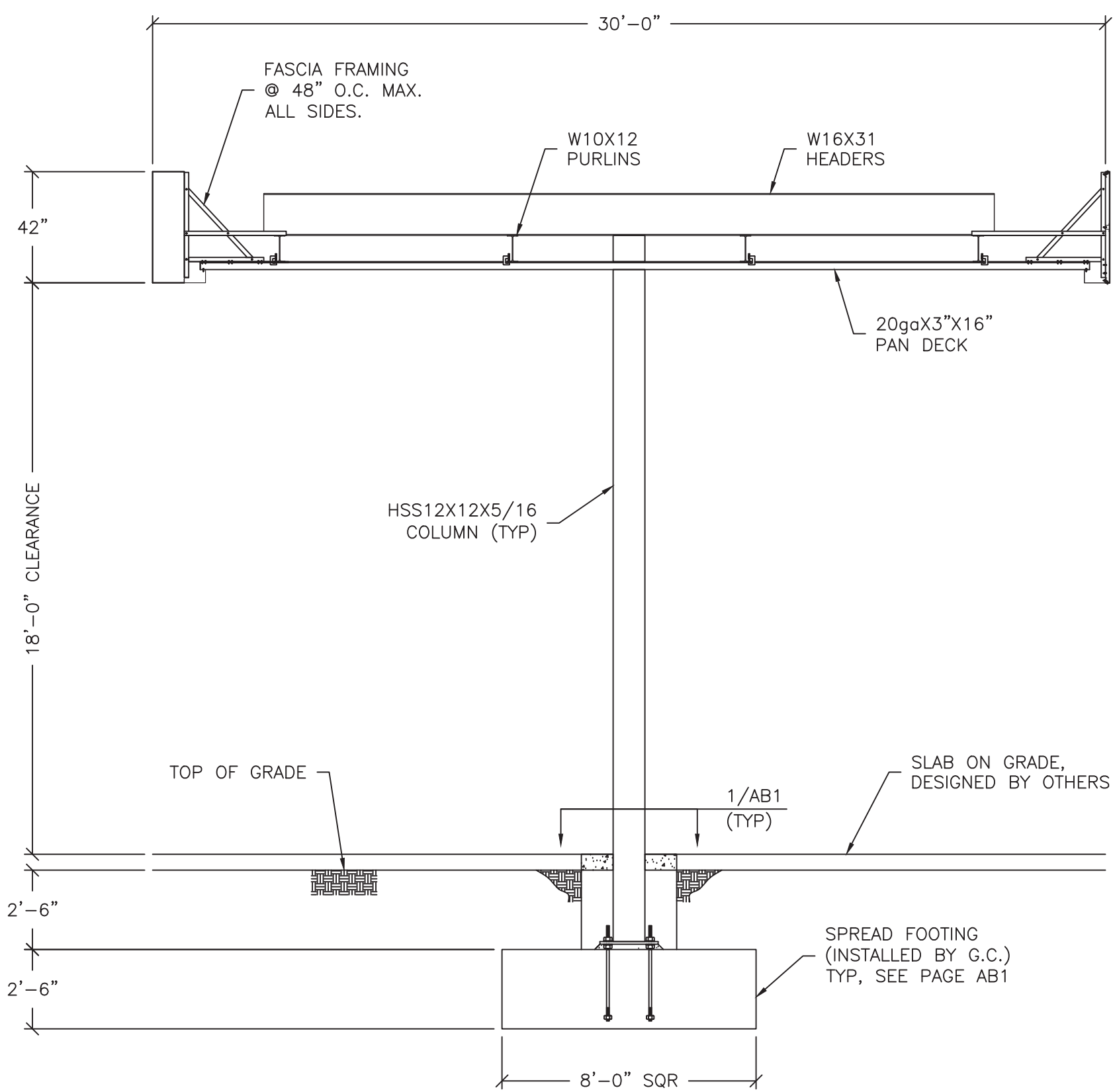
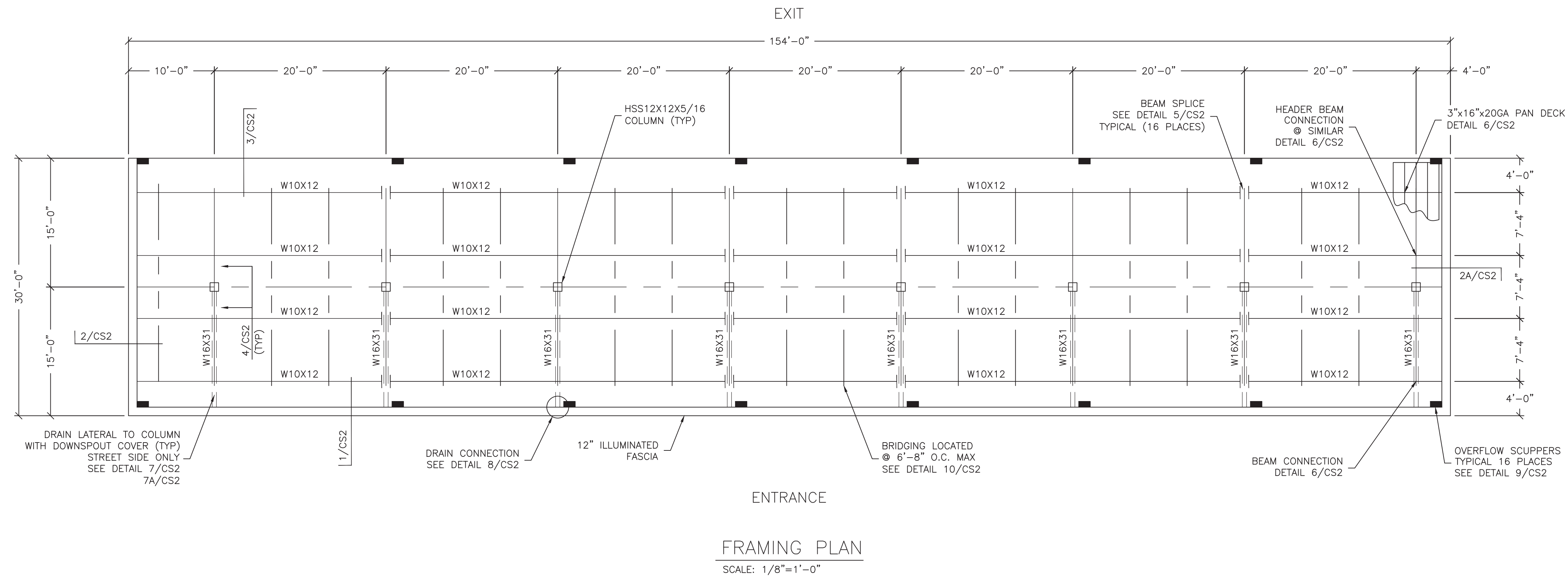
CUSTOMER
FIKES WHOLESALE, INC

NO. DESCRIPTION:
REVISIONS

DATE: BY:
DATE: BY:

D. CYPHERS
DRAWN BY:
V. HERRERA, PE
CHECKED BY:
2-20-2023
DATE:

JOB NO.
23-1310R0
DWG. NO.
AB1
OF 3 SHEETS



CANOPY NOTES

GENERAL NOTES:
 A. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE.
 B. OBSERVATION VISITS TO THE SITE BY THE DESIGN ENGINEER SHALL NEITHER BE CONSIDERED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
 C. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN LIMITS OF DESIGN LOADS.
 D. TYPICAL DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.

1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE
 2. USE GROUP: M, CONSTRUCTION TYPE - IIB
 3. DESIGN LOADS:
 A. ROOF LIVE LOAD: 20 PSF (REDUCIBLE)
 B. CANOPY DEAD LOAD: 9.86 PSF
 C. GROUND SNOW LOAD P_g: 5 PSF
 FLAT ROOF SNOW LOAD P_f: 4.2 PSF
 RAIN ON SNOW SURCHARGE: 5 PSF IF P_g<20
 EXPOSURE FACTOR C_e: 1.0
 IMPORTANCE FACTOR I_s: 1.0
 THERMAL FACTOR C_t: 1.2
 D. BASIC WIND SPEED: V=106 MPH, V_{sd}=82 MPH
 BUILDING RISK CATEGORY: II
 EXPOSURE: C
 COMPONENT & CLADDING: ASCE 7-16 CHAPTER 30
 E. EARTHQUAKE DESIGN:
 IMPORTANCE FACTOR: 1.0
 S_s=0.084g
 S₁=0.038g
 SITE CLASS: D
 SEISMIC DESIGN CATEGORY: A
 SEISMIC FORCE RESISTING SYSTEM: G.2 STEEL ORDINARY CANTILEVERED COLUMN SYSTEM
 DESIGN BASE SHEAR: 2.45k
 SEISMIC RESPONSE COEFFICIENT: C_s = 0.05
 RESPONSE MODIFICATION FACTOR: R=1.25
 SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

4. FOUNDATION DESIGN:
 ALLOWABLE BEARING PRESSURE: 4500 PSF
 PER GEOTECHNICAL REPORT BY: FSI,
 DATED: 29 FEBRUARY 2012 (PROJECT NO. 0303382).
 LATERAL EARTH PRESSURE: 260 PSF/FT
 * SITE SOILS SHALL BE PREPARED FOR THE FOUNDATION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT REFERENCED ABOVE.

5. CONCRETE AND REINFORCEMENT:
 A. CONCRETE FOOTINGS (EXPOSURE CLASSES F0, S0, W0, CO) TYPE II
 CEMENT COMPRESSIVE STRENGTH OF F_c = 3000 p.s.i.
 B. SLAB ON GRADE (BY OTHERS)
 C. CONCRETE DESIGNED USING F_c = 2500 p.s.i. OR ABOVE SHALL HAVE SPECIAL INSPECTIONS PERFORMED, UNLESS ISOLATED SPREAD FOOTINGS ARE UTILIZED. SEE SPECIAL INSPECTIONS FOR THE CANOPY CONCRETE NOTE.
 D. REBAR: ASTM A615 GRADE 60
 E. STIRRUPS AND TIES SHALL HAVE MINIMUM 4" HOOKS.
 F. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT:
 CONCRETE EXPOSED TO GROUND-----3"
 FORMED CONCRETE EXPOSED TO GROUND-----2"
 FORMED CONCRETE NOT EXPOSED TO GROUND-1 1/2"
 G. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-SHRINK GROUT COMPLYING WITH ASTM C1107, F_c=5000p.s.i. AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 H. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING TOP OF FOOTING ELEVATIONS AS REQUIRED FOR UNDERGROUND PLUMBING AND ELECTRICAL.

6. STRUCTURAL STEEL:
 A. ALL STRUCTURAL STEEL SHALL COMPLY WITH AISC "SPECIFICATION FOR THE DESIGN OF STRUCTURAL STEEL FOR BUILDINGS" 15TH EDITION.
 B. AISC "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, 4.4.2, AND 7.15.
 C. AISC "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS".
 D. STRUCTURAL STEEL GRADES:
 STEEL BEAMS ASTM A992 GRADE 50 F_y = 50,000 psi
 HSS SQUARE & RECTANGLES ASTM500 GRADE C F_y = 50,000 psi
 HSS ROUND COLUMNS: F_y = 46,000 psi
 PIPE ASTM A53 GRADE B F_y = 35,000 psi
 BASE PLATES, CAP PLATES AND CAP PLATE STIFFENERS
 ASTM A572 GRADE 50 F_y = 50,000 psi
 ANGLES ASTM A36 F_y = 36,000 psi
 E. ALL BOLTED CONNECTIONS SHALL BE ASTM A307 BOLTS UNLESS OTHERWISE SPECIFIED (NO SPECIAL INSPECTION REQUIRED).
 F. ALL BOLTED CONNECTIONS SHALL BE "SNUG-TIGHT", UNLESS NOTED OTHERWISE IN ACCORDANCE WITH RCSC.
 G. METAL PAN DECK SHALL BE 20ga ASTM A653 GRADE 40.

SPECIAL INSPECTIONS FOR THE CANOPY

SPECIAL INSPECTIONS FOR THE CANOPY SHALL BE PROVIDED BY THE OWNER PER CHAPTER 17 OF THE IBC.

THE FOLLOWING SYSTEMS ARE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF THE IBC CHAPTER 17.

A. COLUMNS
 B. COLUMN BASE PLATE
 C. FOOTINGS UNLESS EXEMPT
 D. PURLIN BEAMS
 E. BEAMS

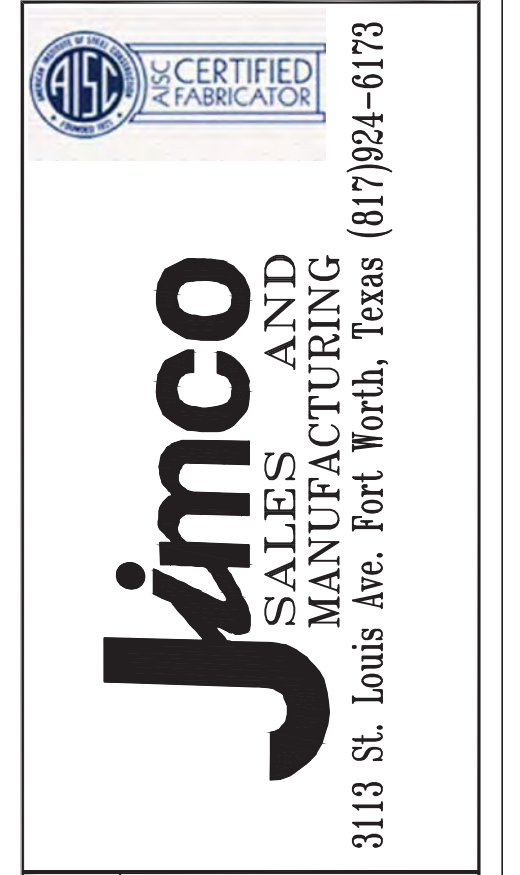
SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK.

- WELDING - 1. PRIOR TO WELDING (TABLE N5.4-1, 360-16)
 2. DURING WELDING (TABLE N5.4-2, 360-16)
 3. AFTER WELDING (TABLE N5.4-3, 360-16)
 4. NONDESTRUCTIVE TESTING (SECTION N5, 360-16)
- PER IBC 1705.2, SPECIAL INSPECTION IS NOT REQUIRED WHERE WELDING IS PERFORMED IN AN APPROVED SHOP. JIMCO SALES AND MANUFACTURING IS AN AISC APPROVED FABRICATOR (218031061-10NIT).
- BOLTING - PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16): NOT REQUIRED IF ONLY SNUG TIGHT JOINTS ARE SPECIFIED.
- FOUNDATIONS - PER IBC 1705.3; EXCEPTION 1 - SPECIAL INSPECTION IS NOT REQUIRED FOR ISOLATED SPREAD CONCRETE FOOTINGS FULLY SUPPORTED ON EARTH OR ROCK. *THIS EXCEPTION DOES NOT APPLY IN THE STATE OF NEVADA.*
 -SPECIAL INSPECTIONS SHALL BE PERFORMED DURING INSTALLATION AND TESTING OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS AS REQUIRED BY TABLE 1705.8.
- ANCHOR BOLTS - PERIODIC SPECIAL INSPECTION OF ANCHORS CAST IN CONCRETE REQUIRED PER IBC TABLE 1705.3, ITEM 3
- STRUCTURAL OBSERVATIONS: NONE REQUIRED

SEISMIC FORCE RESISTING SYSTEM (SFRS)

A. REFER TO AISC 341-16 SECTION A4 AND ASCE 7-16.
 B. DESIGNATION OF SFRS: G.2 STEEL ORDINARY CANTILEVER COLUMN SYSTEMS (ASCE 7-16 TABLE 12.2-1) SEE AISC 341-16 SECTION E5 (OCCS).
 C. R = 1.25, C_s = 0.05
 D. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
 E. MEMBERS AND CONNECTIONS THAT ARE PART OF THE SFRS:
 1. COLUMNS
 2. COLUMN BASE CONNECTION
 3. FOOTINGS
 F. PROTECTED ZONES: N/A
 G. SEE DETAILS AND NOTE FOR CONNECTION CONFIGURATIONS, MATERIALS SPECIFICATIONS AND SIZES.
 H. WELD FILLER MATERIALS FOR WELDS PART OF THE SFRS:
 1. YIELD STRENGTH - 58 KSI MIN
 2. TENSILE STRENGTH - 70 KSI MIN
 3. ELONGATION - 22% MIN
 4. CVN TOUGHNESS - 20 FT-LB MIN @ 0° F
 SEE DETAILS AND NOTES FOR OTHER WELDING REQUIREMENTS
 J. DEMAND CRITICAL WELDS - N/A
 K. LOWEST ANTICIPATED SERVICE TEMPERATURE - 0° F

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DRAWING DESCRIPTION: CANOPY STRUCTURAL NOTES AND PLANS

JOB LOCATION: CEFCO #47 - DIESEL BOUND FRONTAGE RD EDDY, TX

Digitally signed by Victor M. Herrera
 Date: 2024.05.14 11:48:02 -05'00'

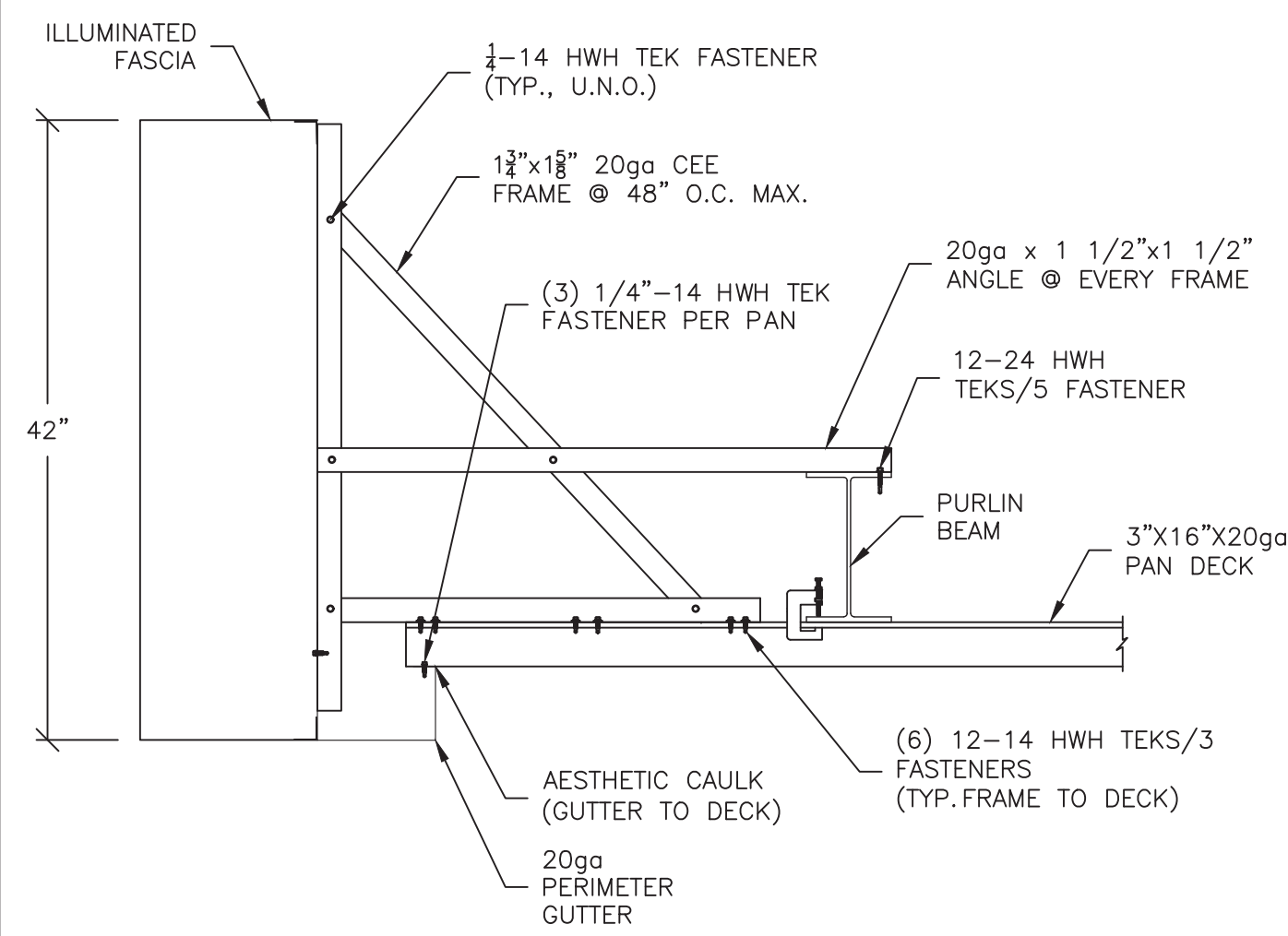
CUSTOMER: FIKES WHOLESALE, INC

NO. DESCRIPTION: REVISIONS

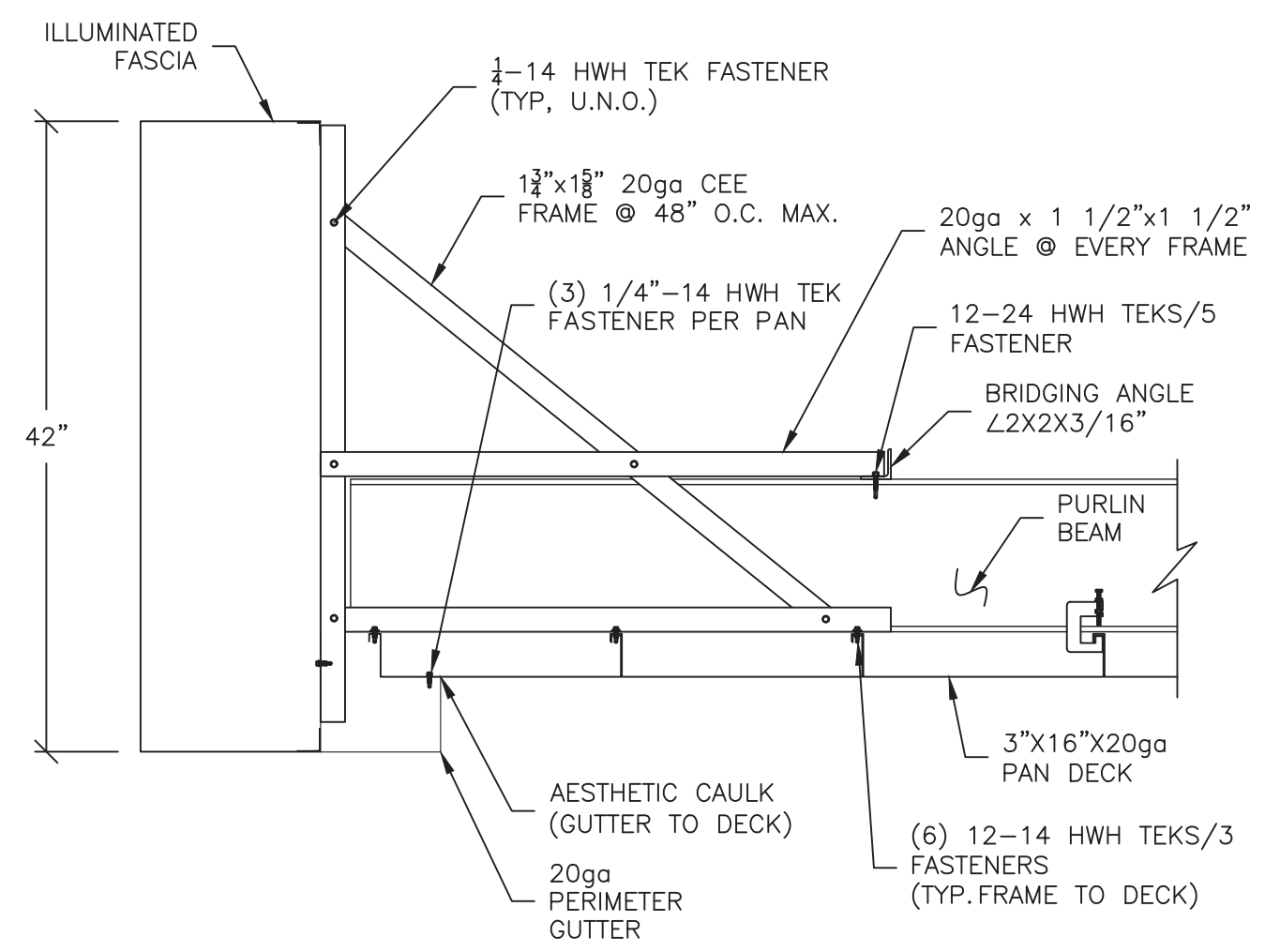
DATE: BY:

D. CYPHERS DRAWN BY: V. HERRERA, PE
 CHECKED BY: 3-7-2024
 DATE:

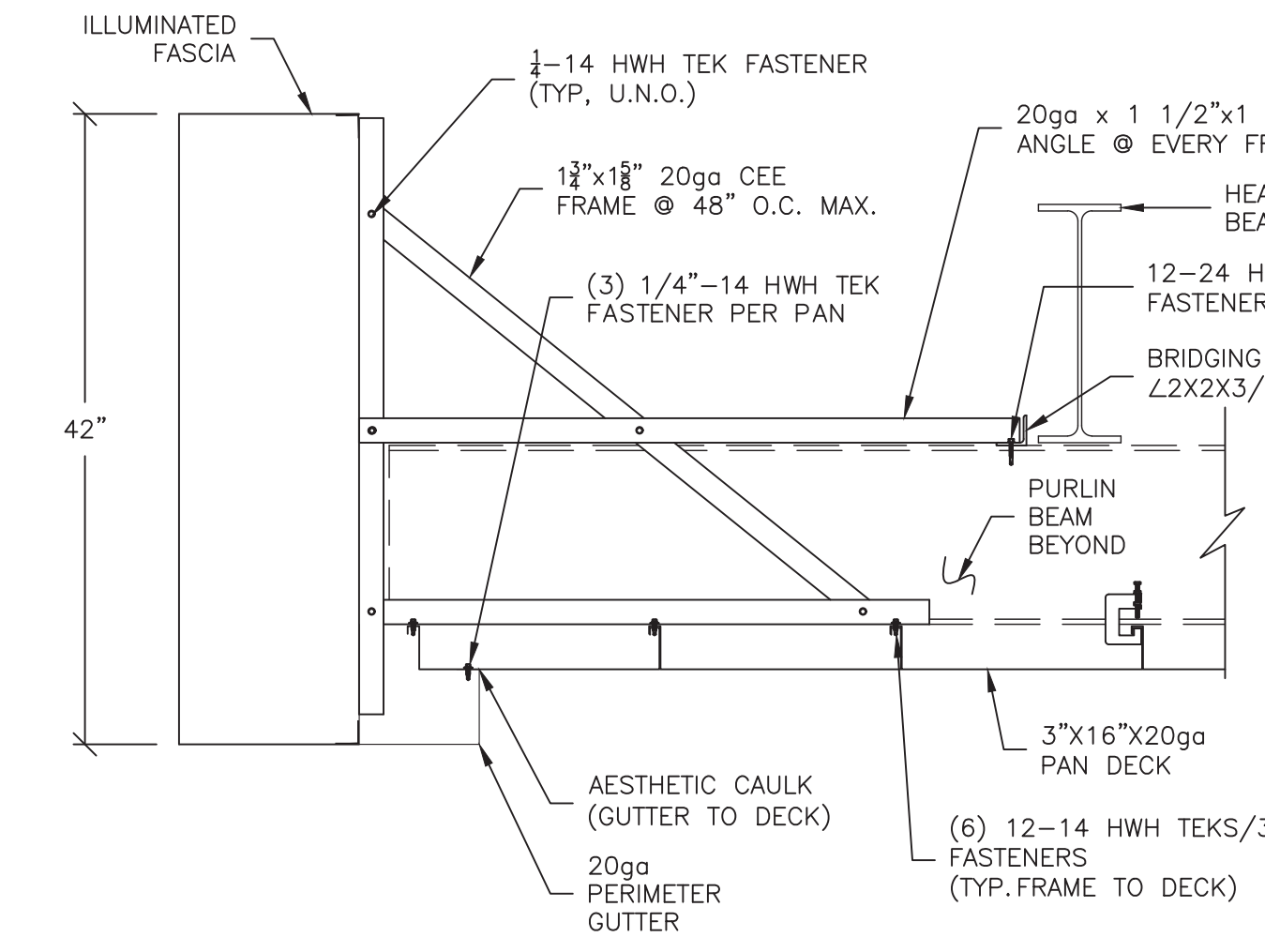
JOB NO. 23-1393R01
 DWG. NO. CS1
 OF 3 SHEETS



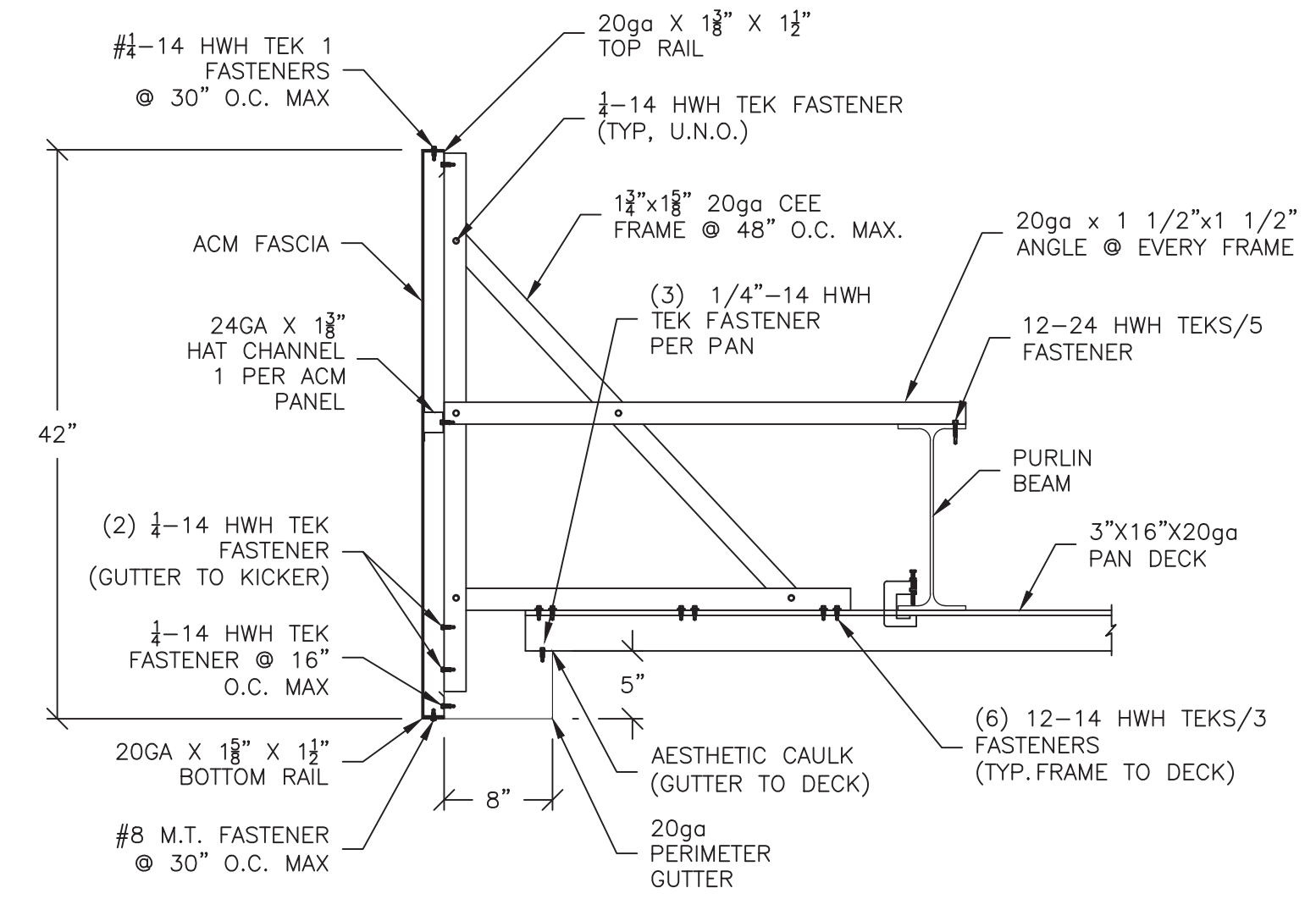
1 SIDE FASCIA DETAIL
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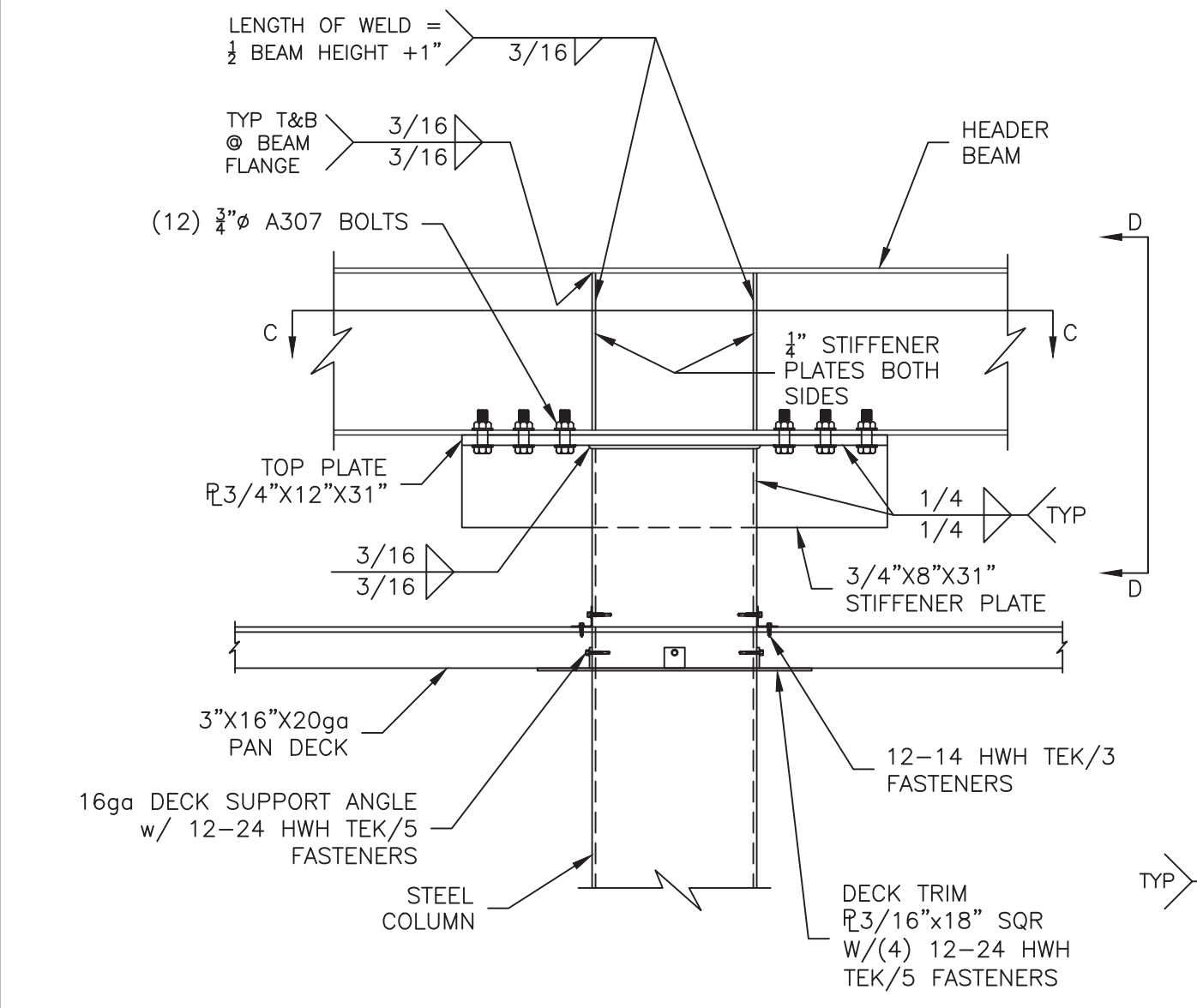
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SCALE: 1"=1'-0"



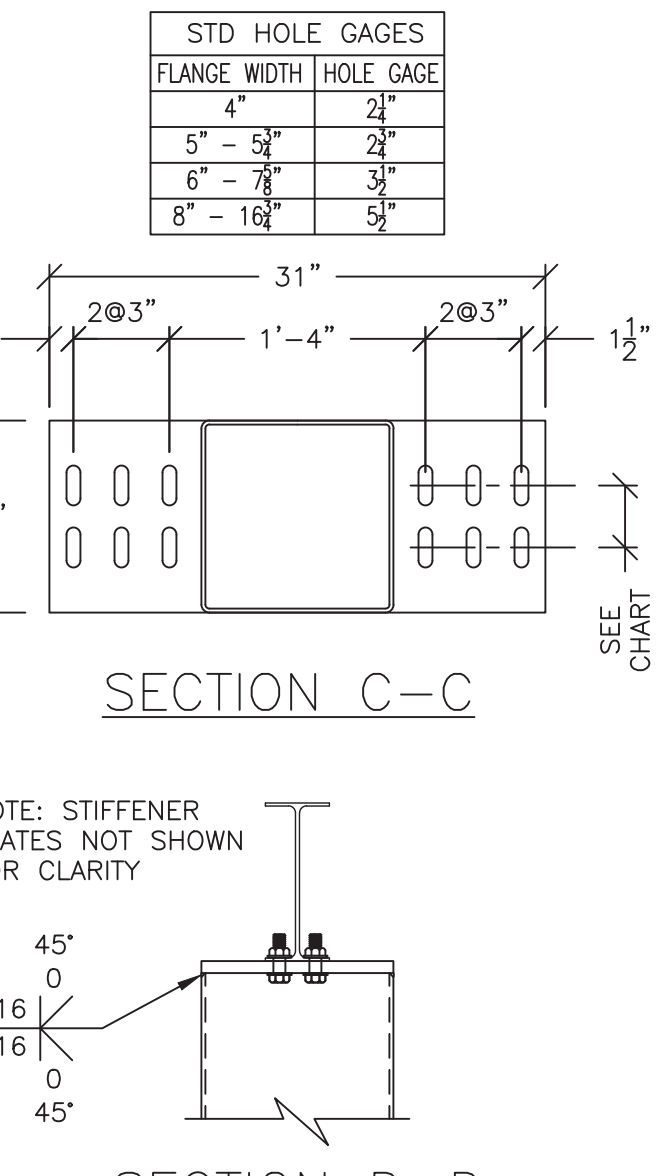
2A END FASCIA DETAIL
SCALE: 1"=1'-0"



3 SIDE FASCIA DETAIL
SCALE: 1"=1'-0"

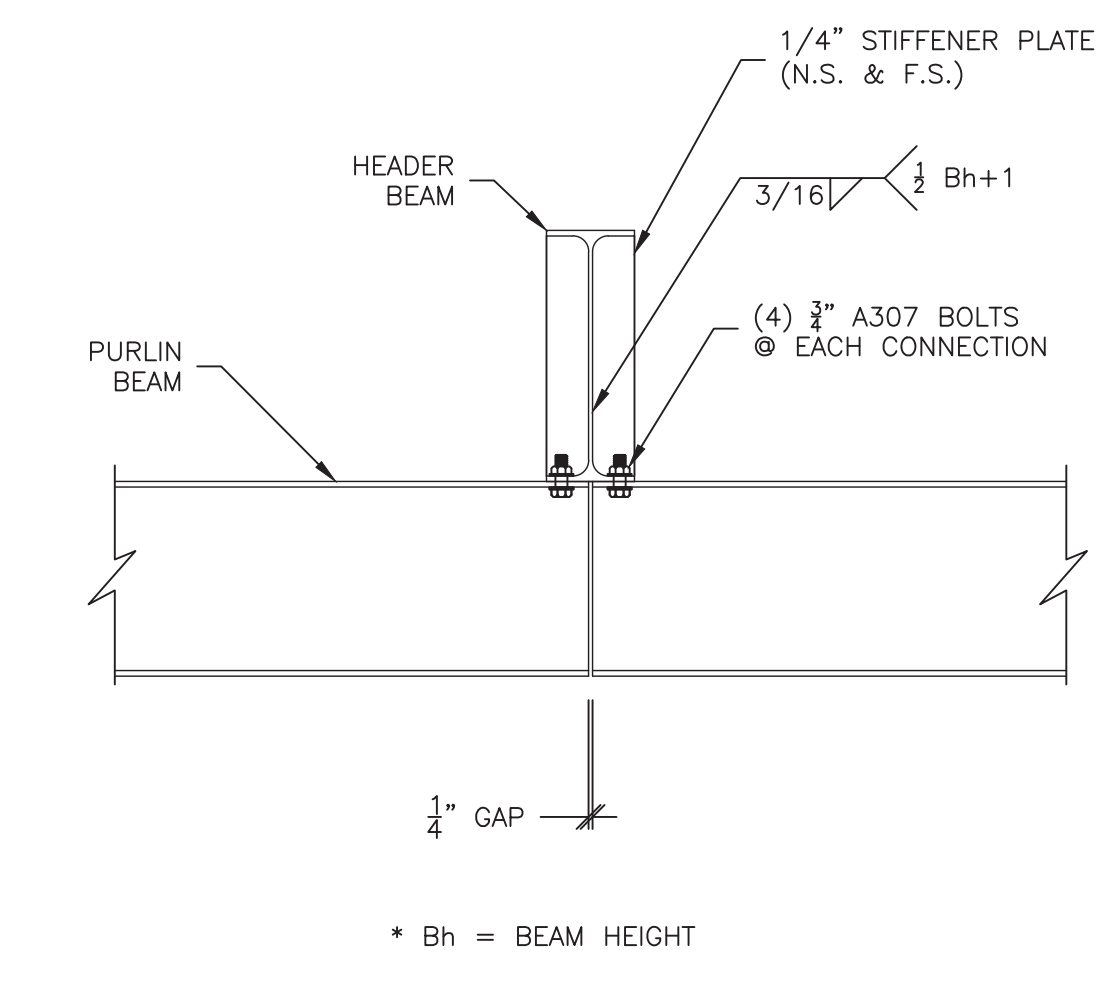


4 COLUMN/BEAM CONNECTION DETAIL
SCALE: 1"=1'-0"

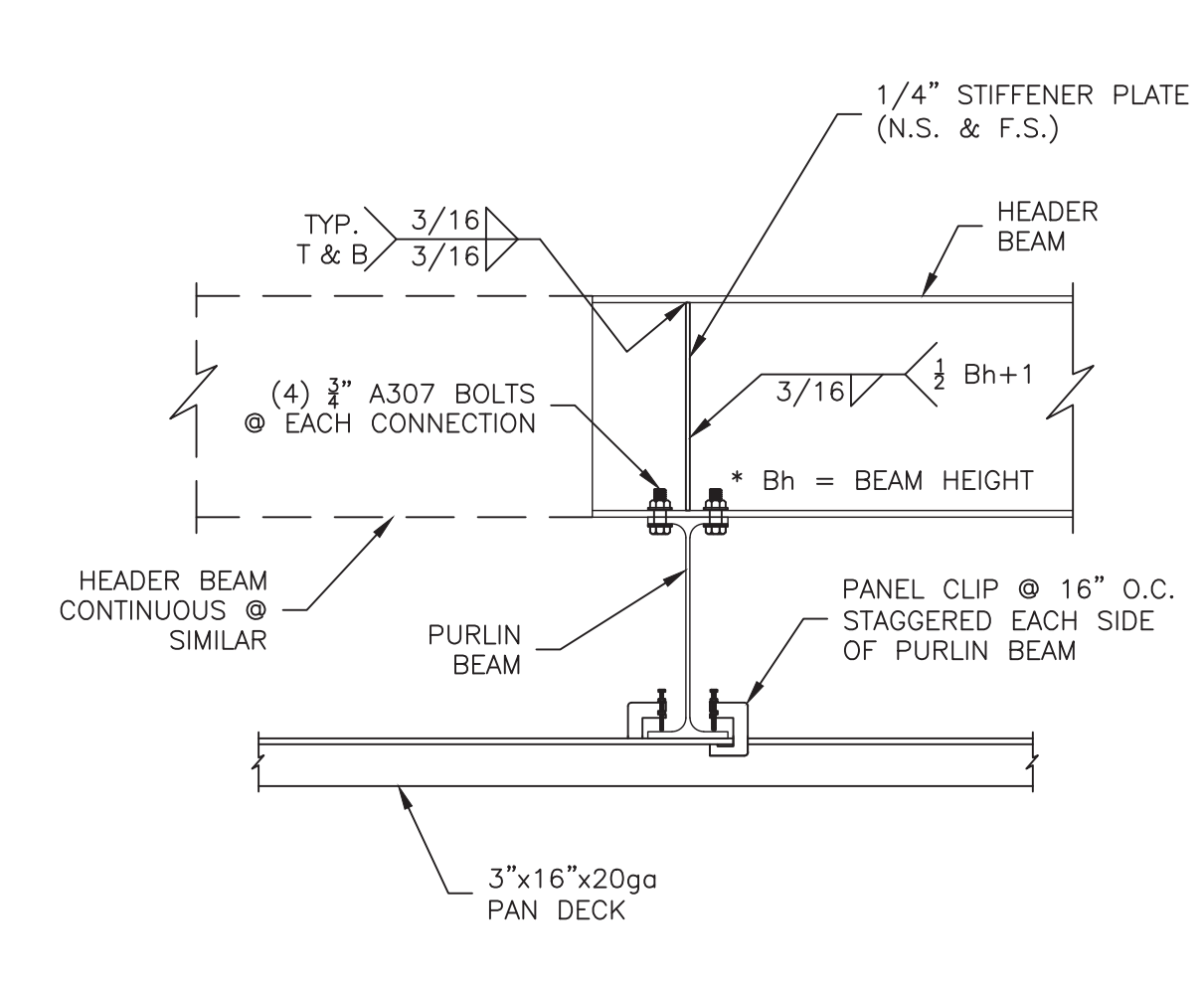


SECTION C-C

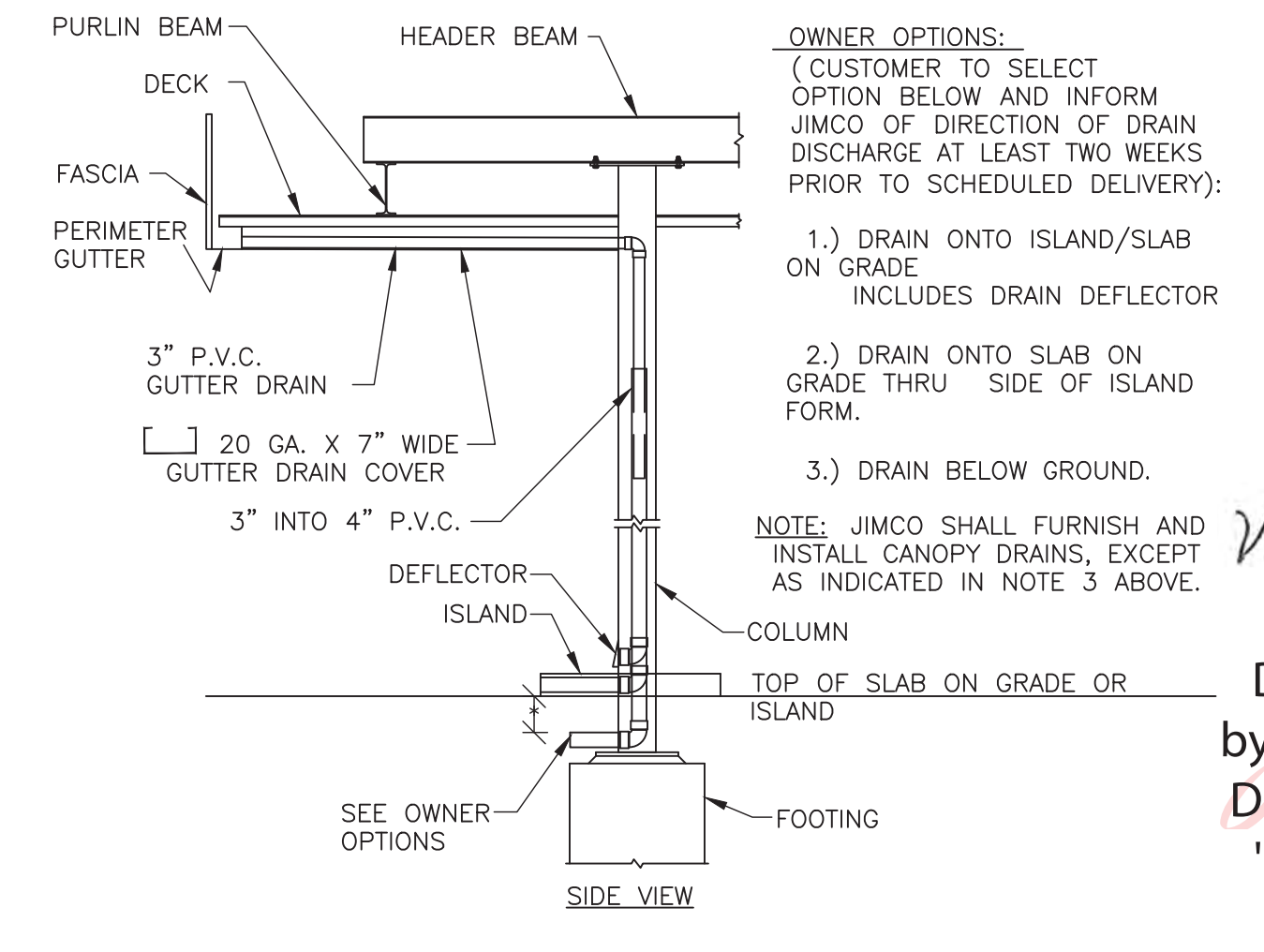
SECTION D-D



5 BEAM SPLICE DETAIL
SCALE: 1"=1'-0"



6 BEAM CONNECTION DETAIL
SCALE: 1"=1'-0"



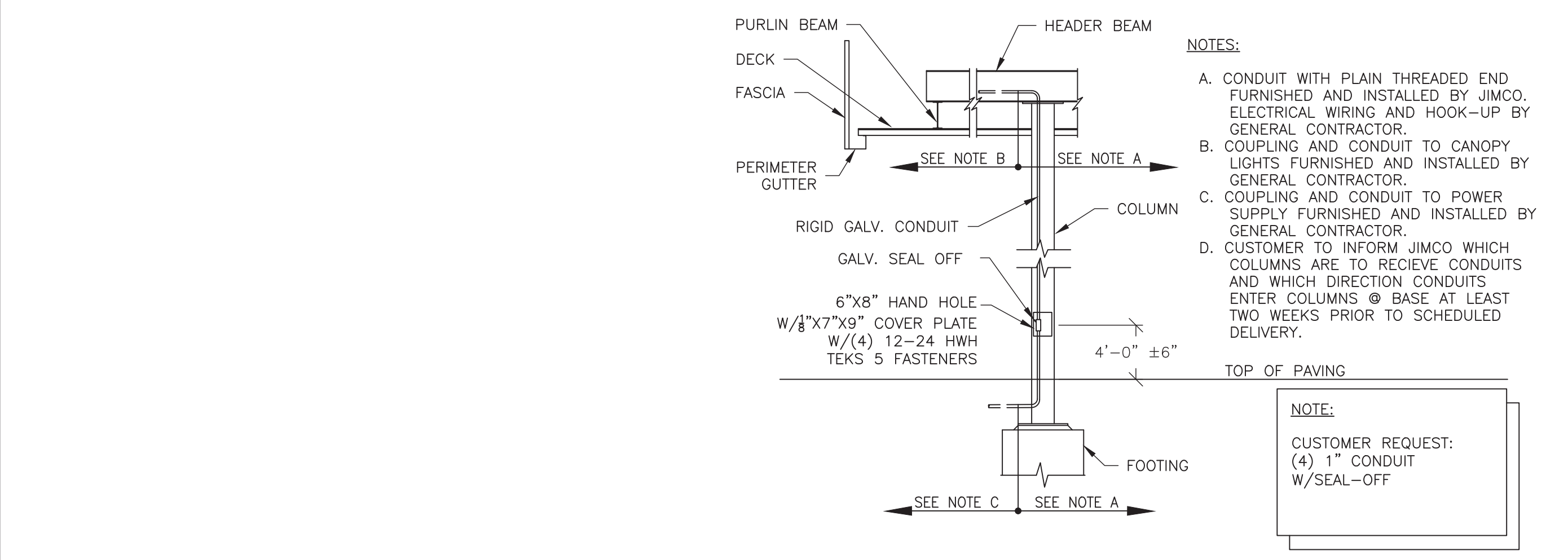
7 COLUMN DRAIN DETAIL
SCALE: 3"=1'-0"

OWNER OPTIONS:
(CUSTOMER TO SELECT OPTION BELOW AND INFORM JIMCO OF DIRECTION OF DRAIN DISCHARGE AT LEAST TWO WEEKS PRIOR TO SCHEDULED DELIVERY):

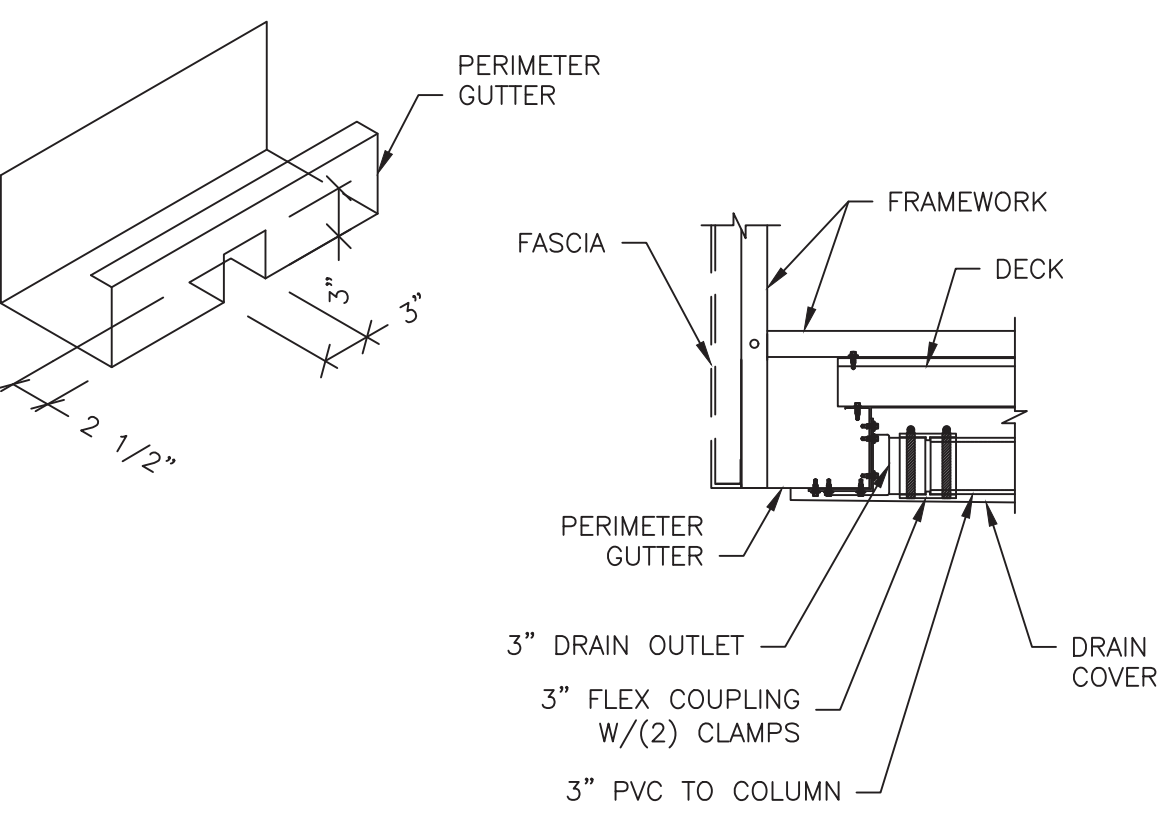
- 1.) DRAIN ONTO ISLAND/SLAB ON GRADE. INCLUDES DRAIN DEFLECTOR.
- 2.) DRAIN ONTO SLAB ON GRADE THRU SIDE OF ISLAND FORM.
- 3.) DRAIN BELOW GROUND.

NOTE: JIMCO SHALL FURNISH AND INSTALL CANOPY DRAINS, EXCEPT AS INDICATED IN NOTE 3 ABOVE.

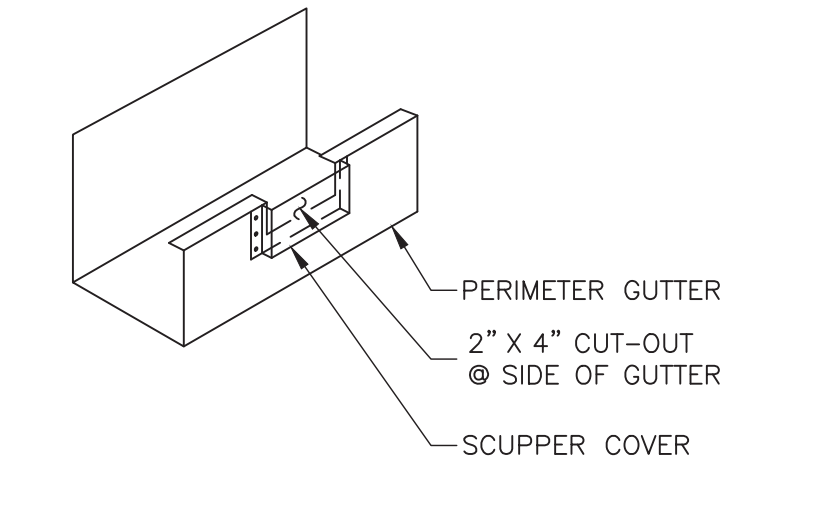
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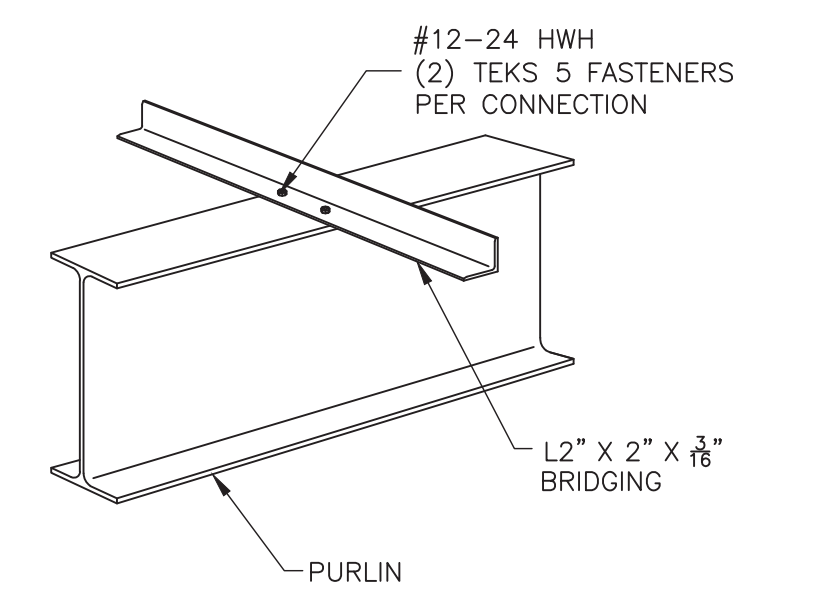
7A INTERNAL CONDUIT DETAIL
SCALE: 3"=1'-0"



8 DRAIN CONNECTION DETAIL
SCALE: 1"=1'-0"



9 OVERFLOW SCUPPER DETAIL
SCALE: 1"=1'-0"



10 PURLIN BRIDGING DETAIL
SCALE: 1"=1'-0"

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DRAWING DESCRIPTION
CANOPY STRUCTURAL SECTIONS AND DETAILS

JOB LOCATION
CEFCO #47 - DIESEL BOUND FRONTAGE RD
I-35 SOUTH FRONTAGE EDDY, TX

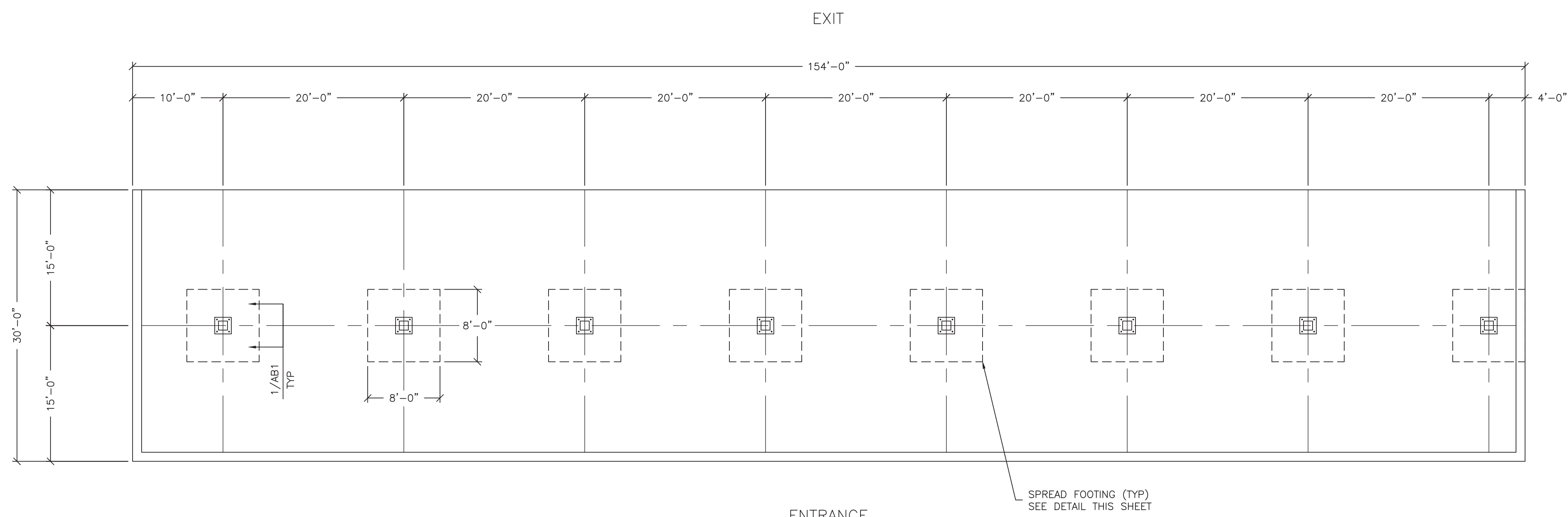
CUSTOMER: FIKES WHOLESALE, INC
NO. DESCRIPTION: REVISIONS
DATE: _____

D. CYPHERS DRAWN BY:
V. HERRERA, PE CHECKED BY:
3-7-2024 DATE:
JOB NO. 23-1393R01
DWG. NO. CS2
OF 3 SHEETS



Jimco
SALES AND
MANUFACTURING

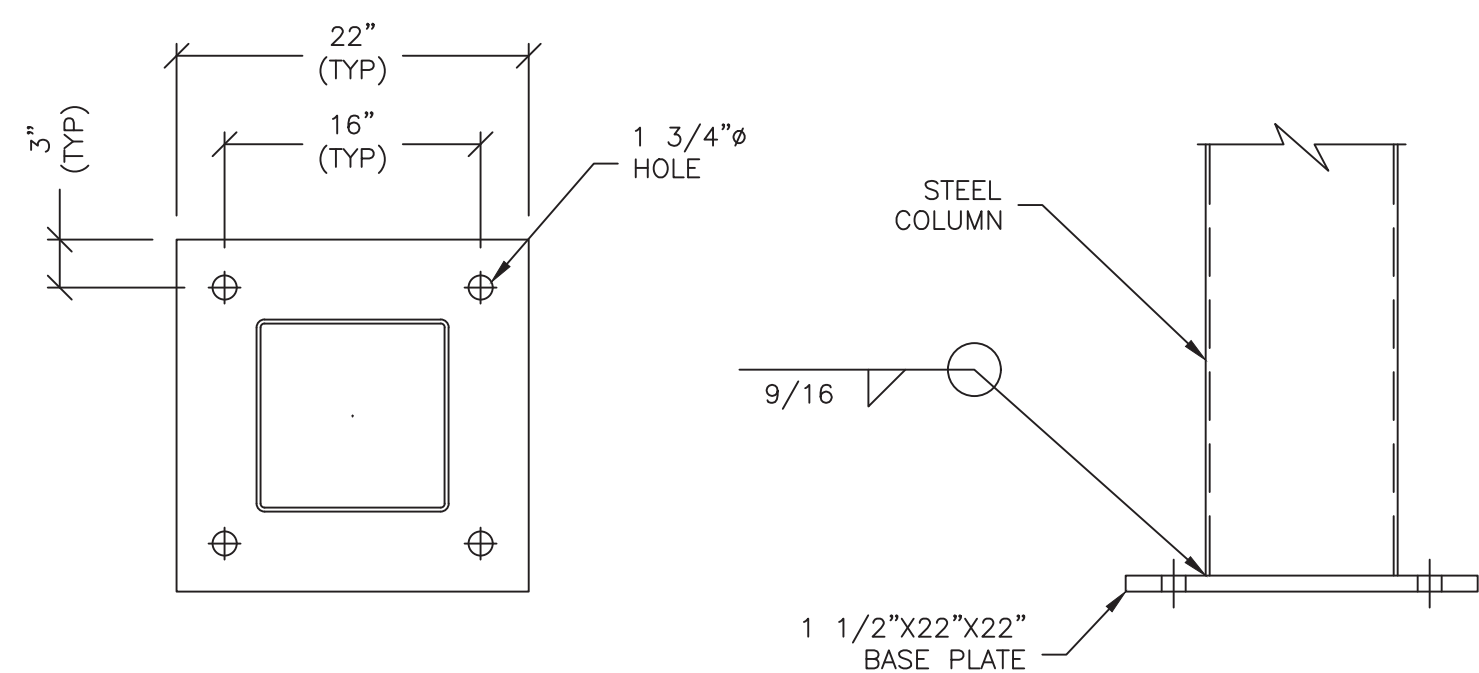
3113 St. Louis Ave. Fort Worth, Texas (817)924-6173



FOUNDATION PLAN

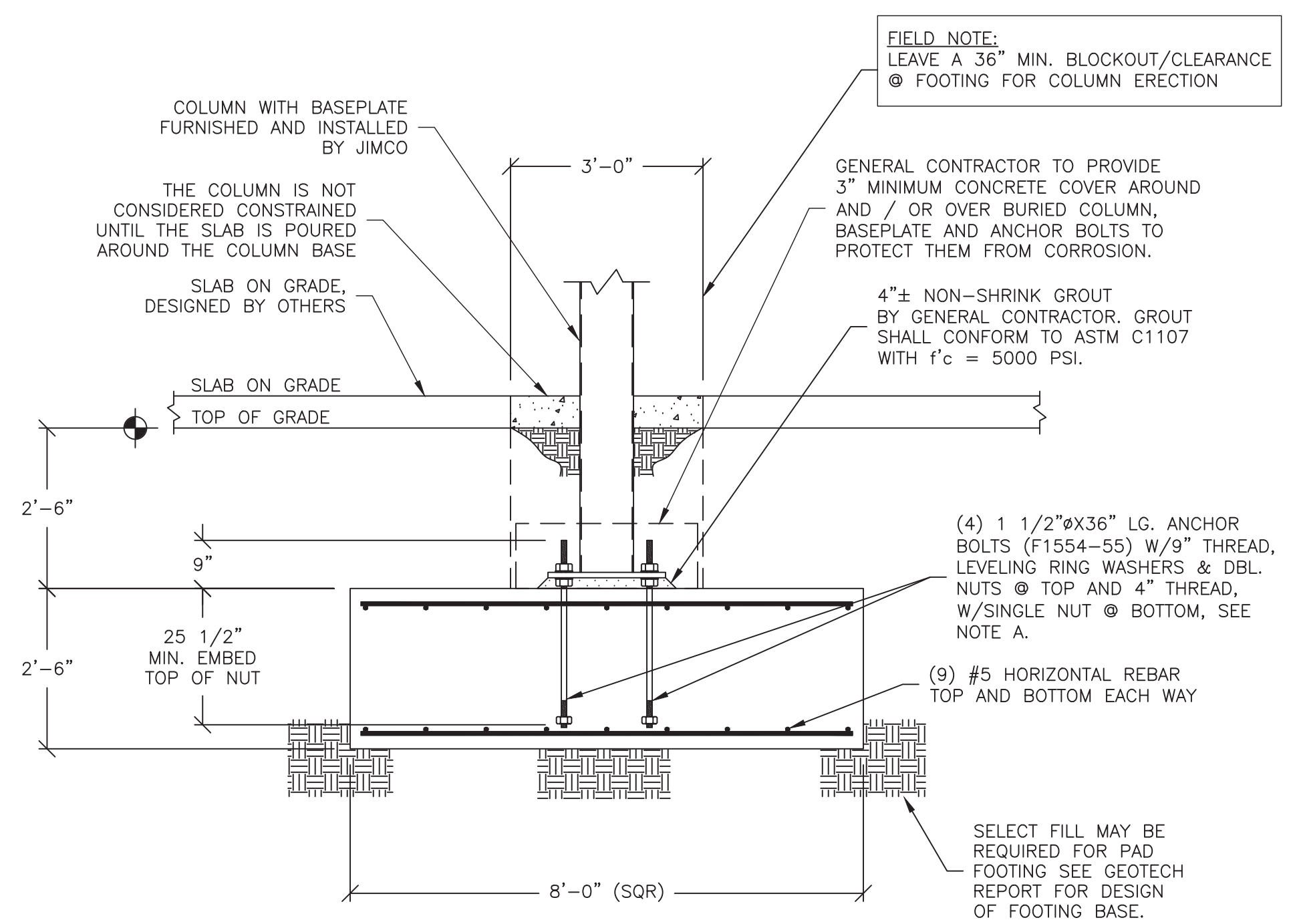
SCALE: 1/8"=1'-0"

NOTE:
A) FOOTINGS INCLUDING CONCRETE, REBAR, FORMWORK AND ASSOCIATED EARTHWORK SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR EXCEPT ANCHOR BOLTS SHALL BE FURNISHED BY JIMCO AND INSTALLED BY GENERAL CONTRACTOR.
B) SEE FOUNDATION, CONCRETE NOTES ON DWG CS1.



1 BASE PLATE DETAIL

SCALE: 1"=1'-0"



SPREAD FOOTING DETAIL

SCALE: 1/2"=1'-0"

NOTICE: THIS DOCUMENT IS THE PROPERTY OF JIMCO SALES & MFG. NEITHER THIS DOCUMENT NOR ANY DATA OR INFORMATION HEREIN SHALL BE COPIED OR REPRODUCED IN ANY MANNER, LOANED OR OTHERWISE DISPOSED OF, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF JIMCO SALES & MFG. IF THIS DOCUMENT IS LOANED BY OR WITH THE AUTHORITY OF JIMCO SALES & MFG, THE BORROWER, IN CONSIDERATION OF SUCH LOAN, AGREES TO THE FOREGOING CONDITIONS AND TO RETURN THIS DOCUMENT ON REQUEST OR UPON COMPLETION OF THE SPECIFICALLY AUTHORIZED WORK FOR WHICH IT WAS USED.

Digitally signed by Victor M. Herrera
Date: 2024.03.14 11:47:42 -0500

DRAWING DESCRIPTION
CANOPY FOUNDATION
SECTIONS AND DETAILS

JOB LOCATION
CEFCO #47 - DIESEL
BOUND FRONTAGE RD
EDDY, TX

Customer: FIKES WHOLESALE, INC
Revisions: [Blank]

CUSTOMER: FIKES WHOLESALE, INC
NO. DESCRIPTION: [Blank]

D. CYPHERS DRAWN BY:
V. HERRERA, PE CHECKED BY:
3-7-2024 DATE:

JOB NO.
23-1393R01
DWG. NO.
AB1
OF 3 SHEETS

2024012537 EASEMENT
04/29/2024 10:14:24 AM Total Pages: 11 Fees: \$51.00
J. A. "Andy" Harwell, County Clerk - McLennan County, TX

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

DECLARATION OF PRIVATE ACCESS EASEMENT
("Declaration")

Date: April 12, 2024

Declarant (whether one or more): FIKES WHOLESale, INC.
a Texas corporation

Declarant's Mailing Address: FIKES WHOLESale, INC.
PO Box 1287
Temple, Texas 76503 (Bell County)

Dominant Estate Property: a 7.681 acre tract of land situated in the LEVI PREWITT SURVEY, ABSTRACT NO. 723, McLennan County, Texas and being more particularly described on metes and bounds attached as **Exhibit A** and incorporated for all purposes and shown as Lot 3, CEFCO +0047 Addition, situated in the City of Bruceville-Eddy, McLennan County, Texas, said plat attached hereto as **Exhibit B** and to be recorded in the McLennan County real estate records.

Easement Property: a 0.070 acre tract of land situated in the LEVI PREWITT SURVEY, ABSTRACT NO. 723, McLennan County, Texas and being more particularly described on metes and bounds attached as **Exhibit C** and incorporated for all purposes and shown as "0.070 AC ACCESS EASEMENT", CEFCO +0047 Addition, situated in the City of Bruceville-Eddy, McLennan County, Texas, said plat attached hereto as **Exhibit B** and to be recorded in the McLennan County real estate records.

Easement Purpose: Vehicular and pedestrian ingress and egress between the Dominant Estate Property and the Interstate Highway 35 access road along the Easement Property, and the installation, construction, operation, maintenance, replacement, repair, and removal of a driveway for vehicular and pedestrian ingress and egress over, across, and through the Easement Property.

Consideration: The benefit derived by Declarant, the receipt and sufficiency of which are acknowledged by Declarant.

Reservations from Conveyance: None

Exceptions to Warranty: All easements, rights-of-way and prescriptive rights; all presently recorded restrictions, reservations, covenants, conditions, oil and gas leases, mineral severances, agreements and maintenance charges, and other instruments, other than liens and conveyances, that affect the Easement Property; any discrepancies, conflicts or shortages in area or boundary lines; any encroachments or overlapping of improvements; all rights, obligations and other matters emanating from and existing by reason of the creation, establishment, maintenance and operation of any County Water Improvement District, Municipal Utility District or similar governmental or quasi-governmental agency; all laws, ordinances, rules, and regulations applicable to the owner of the Dominant Estate, the Easement Purpose or the easement; and existing building and zoning ordinances and environmental regulations. This provision is not intended to, and does not, validate or reinstate a terminated or otherwise invalid instrument or right.

Grant of Easement: Declarant, for the Consideration and subject to the Reservations from Conveyance and Exceptions to Warranty, creates and grants, for the limited purposes and use set forth herein, a non-exclusive easement over, on, and across the Easement Property for the Easement Purpose, together with all and singular the rights of ingress and egress over the Easement Property, and such other rights and appurtenances thereto in any way belonging (collectively the "Easement"). Except as provided herein, the Easement will run with and burden the Easement Property and will run with and be an appurtenance to and benefit the Dominant Estate Property.

Terms and Conditions: The following terms and conditions apply to the Easement granted by this Declaration:

1. Character of Easement. The Easement is appurtenant to, runs with, and inures to the benefit of all or any portion of the Dominant Estate Property, whether or not the Easement is referenced or described in any conveyance of all or such portion of the Dominant Estate Property (the owner of all or a portion of the Dominant Estate Property being an "Owner", whether one or more). The Easement is nonexclusive.
2. Duration of Easement. The duration of the Easement is perpetual.
3. Reservation of Rights. Declarant's right to use the Easement Property is nonexclusive, and Declarant reserves for Declarant and Declarant's heirs, successors, and assigns (A) the right to use all or part of the Easement Property in conjunction with Owner, as long as such use by Declarant does not interfere with the use of the Easement Property by Owner for the Easement Purpose and does not materially increase the cost of the maintenance of the Easement Property, and (B) the right to convey to others the right to use all or part of the Easement Property in conjunction with Owner, as long as such further conveyance is subject to the terms of this Declaration and each conveyance reflects the same terms, including the duty to maintain the Easement Property. Declarant declares that this Declaration expressly prohibits the stacking, queuing, or parking of vehicles in the Easement Property in a manner that impedes or obstructs the free flow of traffic through or use of the Easement Property, the entrance onto the Easement Property, or the entrance onto Lot 2 or Lot 3.
4. Improvement and Maintenance of Easement Property. Improvements to and maintenance of the Easement Property will be the expense of the owner of the Easement Property, except for repairs or

maintenance resulting from an Owner's use of the Easement Property, or any damage to the Easement Property, as set forth in Paragraph 5. The term "maintenance" (or "maintain", as applicable in the context of the Easement) means all work, labor, materials and equipment reasonably required to maintain (including the costs of concrete and asphalt repairs and replacement, sealing, crack filling, directional signage, and other necessary repairs and maintenance), repair, replace, and reconstruct the improvements (including any culverts, curbs, aprons, pavement, drainage ditches, and similar or related facilities) located on, over, and across the Easement Property and to keep the Easement in a neat, clean, safe, and functional condition, consistent with the level of quality of the other improvements in the area.

5. Damage. Owner will refrain from causing any damage to the Easement and any improvements thereon and will, regardless of any language in this Declaration to the contrary, at its sole cost and expense, immediately repair any such damage to the Easement Property caused by such Owner or its tenants, licensees, customers, employees, agents, and invitees.
6. Remedy for Non-Performance of Maintenance. If an Owner defaults in the performance of its maintenance obligations as set forth in paragraph 4 above ("Defaulting Owner"), then a non-defaulting Owner ("Non-Defaulting Owner"), in addition to all remedies it may have at law or in equity, after thirty (30) days prior written notice to the Defaulting Owner, or immediately in situations involving potential danger to users of the Easement Property, will have the right to perform and complete such maintenance obligations on behalf of the Defaulting Owner. In such event, the Defaulting Owner will promptly reimburse the Non-Defaulting Owner performing such maintenance the reasonable cost thereof.
7. Equitable Rights of Enforcement. This Easement may be enforced by restraining orders and injunctions (temporary or permanent) prohibiting interference and commanding compliance. Restraining orders and injunctions will be obtainable on proof of the existence of interference or threatened interference, without the necessity of proof of inadequacy of legal remedies or irreparable harm, and will be obtainable only by the parties to or those benefited by this Declaration; provided, however, that the act of obtaining an injunction or restraining order will not be deemed to be an election of remedies or a waiver of any other rights or remedies available at law or in equity.
8. Termination of Liability. Whenever a transfer or ownership of any property takes place, the transferor will not be liable for a breach of this Declaration occurring after a transfer.
9. No Public Dedication. Nothing contained herein will be deemed to be a gift or dedication of any portion of the properties herein described to the general public or for any public purposes whatsoever, it being the intention of Declarant that the transaction evidenced by this Declaration will be strictly limited to and for the purposes herein expressed and that this Declaration is for the exclusive benefit of Declarant, Owner, and their respective successors, assigns, and mortgagees. Notwithstanding the foregoing, Declarant may dedicate the Easement Property to a governing entity in the future, so long as such dedication does not limit or impede an Owner's rights.
10. Attorney's Fees. If any party retains an attorney to enforce this Declaration, the party prevailing in litigation is entitled to recover reasonable attorney's fees and court and other costs, to the extent permitted by law.
11. Binding Effect. This Declaration binds, benefits, and may be enforced by Declarant, Owner, or their respective heirs, successors, and permitted assigns.
12. Choice of Law. This Declaration will be construed under the laws of the state of Texas, without regard to choice-of-law rules of any jurisdiction. Venue is in the county in which the Easement Property is located.
13. Counterparts. This Declaration may be executed in multiple counterparts. All counterparts taken together constitute this Declaration.

14. Waiver of Default. A default is not waived if the Non-Defaulting Owner fails to declare default immediately or delays in taking any action with respect to the default. Pursuit of any remedies set forth in this Declaration does not preclude pursuit of other remedies in this Declaration or provided by law.

15. Further Assurances. Each signatory party agrees to execute and deliver any additional documents and instruments and to perform any additional acts necessary or appropriate to perform the terms, provisions, and conditions of this Declaration and all transactions contemplated by this Declaration.

16. Entire Agreement. This Declaration and any exhibits are the entire agreement of the parties concerning the Easement Property and the grant of the Easement. There are no representations, agreements, warranties or promises, and neither party is relying on any statements or representations of the other party or any agent of the other party, that are not expressly set forth in this Declaration and any exhibits.

17. Legal Construction. If any provision in this Declaration is unenforceable, to the extent the unenforceability does not destroy the basis of the bargain among the parties, the unenforceability will not affect any other provision hereof, and this Declaration will be construed as if the unenforceable provision had never been a part of the Declaration. Whenever context requires, the singular will include the plural and neuter include the masculine or feminine gender, and vice versa. This Declaration will not be construed more or less favorably between the parties by reason of authorship or origin of language.

18. Headings. The headings used in this Declaration are inserted only as a matter of convenience and for reference and in no way define, limit, or describe the scope of intent of this Declaration nor in any way affect the terms and provisions of this Declaration.

19. Notices. Any notice required or permitted under this Declaration must be in writing. Any notice required by this Declaration will be deemed to be given (whether received or not) the earlier of receipt or three (3) business days after being deposited with the United States Postal Service, postage prepaid, certified mail, return receipt requested, and addressed to the intended recipient at the address shown on the records of the Bell County Tax Appraisal District Office for such intended recipient. Notice may also be given by regular mail, personal delivery, courier delivery, or e-mail and will be effective when received. Any address for notice may be changed by written notice given as provided herein.

20. No Merger. It is Declarant's intent that, in no event, will there be a merger of the dominant and servient tenements in the properties by virtue of the present or future ownership of any portion of said tenements being vested in the same person(s) or entity, but instead it is Declarant's intent that the easement servitudes will not be extinguished by the common ownership of the dominant and servient tenements and the dominant and servient tenements will be kept separate.

21. No Partnership. The declaration of the Easement as provided herein will not create an association, partnership, joint venture or a principal and agency relationship between Declarant and Owner.

EXECUTED to be effective on the date first above written.

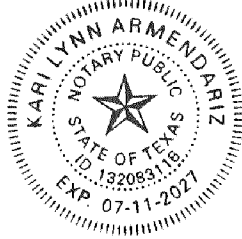
FIKES WHOLESALE, INC.,
A Texas Corporation


By: 
Raymond W. Smith, President

ACKNOWLEDGMENT

STATE OF TEXAS §
COUNTY OF BELL §

This instrument was acknowledged before me on April 12, 2024, by Raymond W. Smith, in his capacity as President of FIKES WHOLESAL, INC., A Texas Corporation, on behalf of such corporation.




Notary Public/State of Texas

PREPARED IN THE LAW OFFICE OF:
BAIRD, CREWS, SCHILLER & WHITAKER, P.C.
15 North Main Street
Temple, Texas 76501
www.bcswwlaw.com

EXHIBIT A

23-132

BEING a 7.681 acre tract of land situated in the LEVI PREWITT SURVEY, ABSTRACT NO. 723, McLennan County, Texas and being a part or portion of that certain 15.041 acre tract of land described in a Special Warranty Deed dated March 28, 2012 from Nancy Cecile Deviney and Elizabeth Jane Miracle to Fikes Wholesale, Inc., a Texas corporation and being of record in Document No. 2012009501, Official Public Records of McLennan County, Texas and being all of that certain 0.951 acre tract of land described in a Special Warranty Deed dated August 26, 2015 from Nancy Cecile Deviney, a widow to Fikes Wholesale, Inc., a Texas corporation and being of record in Document No. 2015027332, Official Public Records of McLennan County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a 1/2" iron rod with cap stamped "RPLS 2475" set being southwest corner of the said 0.951 acre tract and being the northwest corner of that certain called 2.0 acre tract of land described in a Deed dated March 24, 1960 from Cecil Miracle and wife, Josephine Miracle to Bruceville-Eddy County Line Rural High School District and being of record in Volume 871, Page 67, Deed Records of McLennan County, Texas (description in said Volume 871, Page 67 does not form a mathematically closed figure) and being an exterior angle point on the northerly boundary line of the said 15.041 acre tract for corner;

THENCE S. 31° 24' 29" E., 422.28 feet departing the said 0.951 acre tract and with the northeast boundary line of the said 15.041 acre tract and with the southwest boundary line of the said called 2.0 acre tract to a Texas Department of Transportation brass cap monument found being in the northwest right-of-way line of Interstate Highway No. 35 as described in a Deed to the State of Texas and being of record in Document No. 2013009471, Official Public Records of McLennan County, Texas and being at the beginning of a curve to the left having a radius equals 24740.28 feet, chord bearing equals S. 27° 35' 47" W., 224.93 feet for corner;

THENCE 224.93 feet along the arc of said curve to the left departing the said called 2.0 acre tract and the said northeast boundary line and with the said northwest right-of-way line and over and across the said 15.041 acre tract to a Texas Department of Transportation brass cap monument found for corner;

THENCE S. 27° 51' 07" W., 168.35 feet continuing over and across the said 15.041 acre tract and continuing with the said northwest right-of-way line of Interstate Highway No. 35 to a 1/2" iron rod with cap stamped "RPLS 2475" set for corner;

THENCE N. 62° 08' 53" W., 576.70 feet departing the said northwest right-of-way line and continuing over and across the said 15.041 acre tract to a 1/2" iron rod with cap stamped "RPLS 2475" set in the northwest boundary line of the said 15.041 acre tract and being in the southeast boundary line of that certain remainder 54.449 acre tract of land (TRACT TWO) described in a Special Warranty Deed Reserving Enhanced Life Estate dated March 17, 2017 from Nancy Deviney to Phyllis Fisk and Karen Wortham and being of record in Document No. 2017008683, Official Public Records of McLennan County, Texas for corner;

THENCE with the northwest boundary line of the said 15.041 acre tract and with the said southeast boundary line the following two (2) calls:

- 1) N. 28° 27' 10" E., 446.62 feet (calls N. 28° 27' 21" E., 1388.24 feet) to a 1/2" iron rod with cap stamped "RPLS 2475" found for corner;
- 2) N. 79° 51' 28" E., 69.35 feet (calls N. 79° 50' 44" E., 264.69 feet) to a 1/2" iron rod with cap stamped "RPLS 2475" found being the most westerly corner of the said 0.951 acre tract for corner;

THENCE departing the said 15.041 acre tract and with the northwest boundary line of the said 0.951 acre tract and continuing with the southeast boundary line of the said remainder 54.449 acre tract the following four (4) calls:



EXHIBIT A

23-132

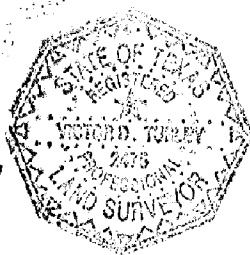
- 1) N. 58° 46' 35" E., 478.07 feet (calls N. 58° 46' 18" E., 478.08 feet) to a 1/2" iron rod with cap stamped "RPLS 2475" found being at the beginning of a curve to the left having a radius equals 145.00 feet (calls 145.00 feet), chord bearing equals N. 49° 10' 39" E., 48.33 feet (calls N. 49° 10' 39" E., 48.33 feet) for corner;
- 2) 48.56 feet along the arc of said curve to the left (calls 48.56 feet) to a 1/2" iron rod with cap stamped "RPLS 2475" found being at the beginning of a curve to the right having a radius equals 215.00 feet (calls 215.00 feet), chord bearing equals N. 49° 10' 39" E., 71.67 feet (calls N. 49° 10' 39" E., 71.67 feet) for corner;
- 3) 72.00 feet along the arc of said curve to the right (calls 72.00 feet) to a 1/2" iron rod with cap stamped "RPLS 2475" found for corner;
- 4) N. 58° 46' 18" E., 53.34 feet (calls N. 58° 46' 18" E., 53.34 feet) to a 1/2" iron rod found being the southeast corner of the said remainder 54.449 acre tract and being the northeast corner of the said 0.951 acre tract and being in the southwest boundary line of the said called 2.0 acre tract and being in the apparent southwest boundary line of Miracle Lane (a private roadway) for corner;

THENCE S. 31° 10' 08" E., 90.38 feet departing the said remainder 54.449 acre tract and with the northeast boundary line of the said 0.951 acre tract and with the said southwest boundary line and with the apparent southwest boundary line of Miracle Lane to a 1/2" iron rod found being the southeast corner of the said 0.951 acre tract and being an interior ell corner of the said called 2.0 acre tract for corner;

THENCE S. 58° 49' 05" W., 467.99 feet departing the apparent southwest boundary line of Miracle Lane and with the southeast boundary line of the said 0.951 acre tract and with the northwesterly boundary line of the said called 2.0 acre tract to the Point of BEGINNING and containing 7.681 acres of land.

I, Victor D. Turley, a Registered Professional Land Surveyor in the State of Texas, do hereby certify that these field notes are a correct representation of a survey made on the ground.

Victor D. Turley
 Victor D. Turley, R.P.L.S. #2475
 March 7, 2024



Bearing Base: Texas State Plane Coordinate System, NAD 1983, Central Zone as determined by GPS observation.



TURLEY ASSOCIATES, INC.
 ENGINEERING SURVEYING PLANNING
 301 N. 3RD ST. TEMPLE, TEXAS 76501 (254) 773-2400
 ENGINEERING FIRM NO. 1558 SURVEYING FIRM NO. 10194868

MARSHALL F
ARLET
VOL. 1862,

EVERGREEN STREET
ASPHALT, APPROX. 17.6' WIDE

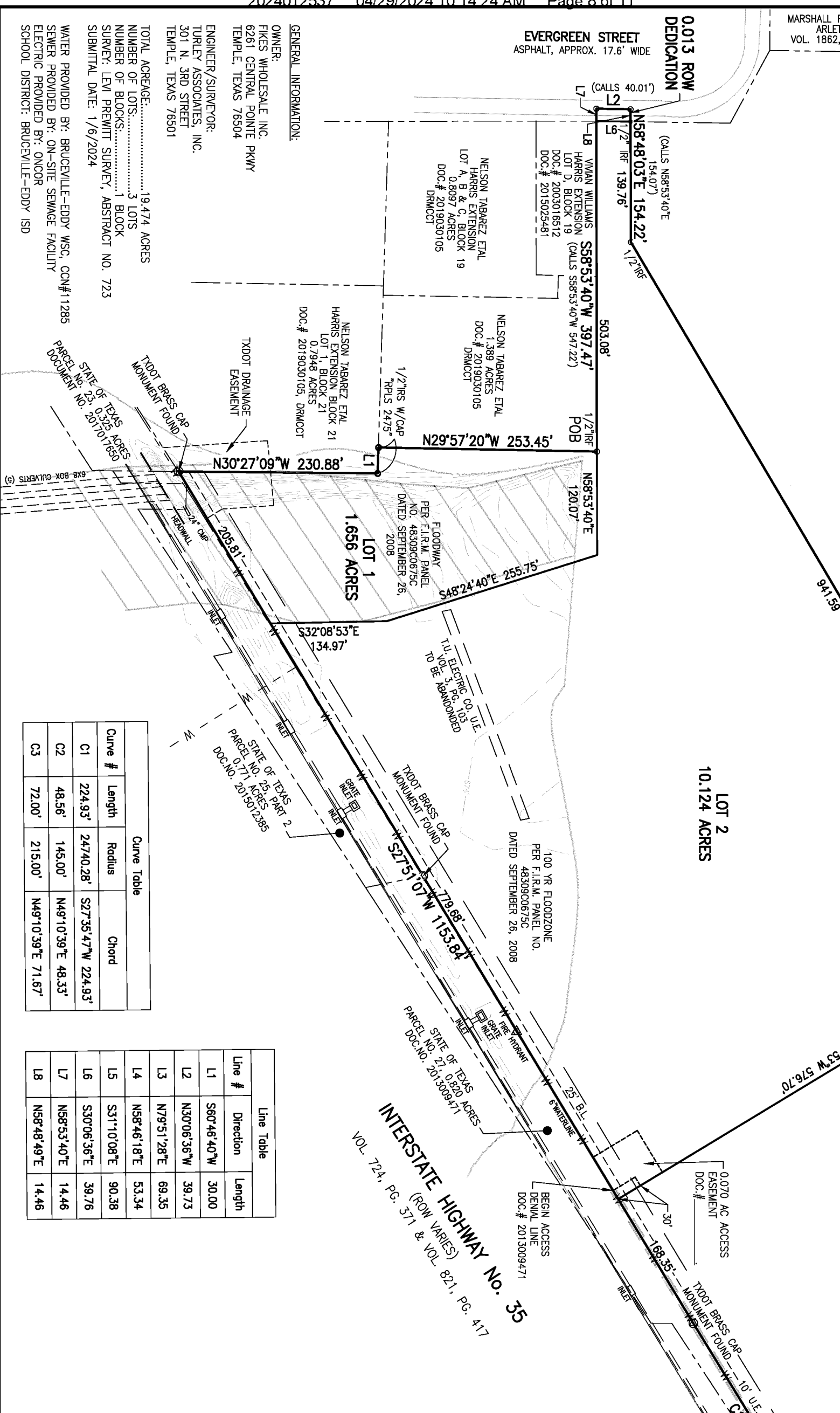
0.013 ROW
DEDICATION

OWNER:
FIKES WHOLESALE INC.
6261 CENTRAL POINTE PKWY
TEMPLE, TEXAS 76504

ENGINEER/SURVEYOR:
TURLEY ASSOCIATES, INC.
301 N. 3RD STREET
TEMPLE, TEXAS 76501

GENERAL INFORMATION:
TOTAL ACREAGE:.....19.474 ACRES
NUMBER OF LOTS:.....3 LOTS
NUMBER OF BLOCKS:.....1 BLOCK
SURVEY: LEVI PREWITT SURVEY, ABSTRACT NO. 723
SUBMITTAL DATE: 1/6/2024

WATER PROVIDED BY: BRUCEVILLE-EDDY WSC, CCN#11285
SEWER PROVIDED BY: ON-SITE SEWAGE FACILITY
ELECTRIC PROVIDED BY: ONCOR
SCHOOL DISTRICT: BRUCEVILLE-EDDY ISD



LOT 2
10.124 ACRES

LOT 1
1.656 ACRES

Curve #	Length	Radius	Chord
C1	224.93'	24740.28'	S27°35'47"W 224.93'
C2	48.56'	145.00'	N49°10'39"E 48.33'
C3	72.00'	215.00'	N49°10'39"E 71.67'

Line #	Direction	Length
L1	S60°46'40"W	30.00
L2	N30°06'36"W	39.73
L3	N79°51'28"E	69.35
L4	N58°46'18"E	53.34
L5	S31°10'08"E	90.38
L6	S30°06'36"E	39.76
L7	N58°53'40"E	14.46
L8	N58°48'49"E	14.46

INTERSTATE HIGHWAY No. 35
(ROW VARIES)
VOL. 724, PG. 371 & VOL. 821, PG. 417

EXHIBIT C

23-132

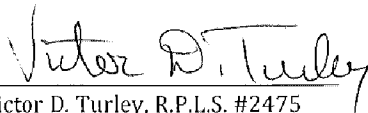
BEING a 0.070 acre tract of land situated in the LEVI PREWITT SURVEY, ABSTRACT NO. 723, McLennan County, Texas and being a part or portion of that certain 15.041 acre tract of land described in a Special Warranty Deed dated March 28, 2012 from Nancy Cecile Deviney and Elizabeth Jane Miracle to Fikes Wholesale, Inc., a Texas corporation and being of record in Document No. 2012009501, Official Public Records of McLennan County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a point in the interior of the said 15.041 acre tract and being in the northwest right-of-way line of Interstate Highway No. 35 as described in a Deed to the State of Texas and being of record in Document No. 2013009471, Official Public Records of McLennan County, Texas bearing S. 27° 51' 07" W., 179.85 feet from a Texas Department of Transportation brass cap monument found being in the said northwest right-of-way line for corner;

THENCE over and across the said 15.041 acre tract the following six (6) calls:

- 1) S. 27° 51' 07" W., 45.00 feet with the said northwest right-of-way line to a point for corner;
- 2) N. 62° 08' 53" W., 60.00 feet departing the said northwest right-of-way line to a point for corner;
- 3) N. 27° 51' 07" E., 56.50 feet to a point for corner;
- 4) S. 62° 08' 53" E., 30.00 feet to a point for corner;
- 5) S. 27° 51' 07" W., 11.50 feet to a point for corner;
- 6) S. 62° 08' 53" E., 30.00 feet to the Point of BEGINNING and containing 0.070 acres of land.

I, Victor D. Turley, a Registered Professional Land Surveyor in the State of Texas, do hereby certify that these field notes are a correct representation of a survey made on the ground.


 Victor D. Turley, R.P.L.S. #2475
 March 6, 2024



Bearing Base: Texas State Plane Coordinate System, NAD 1983, Central Zone as determined by GPS observation.



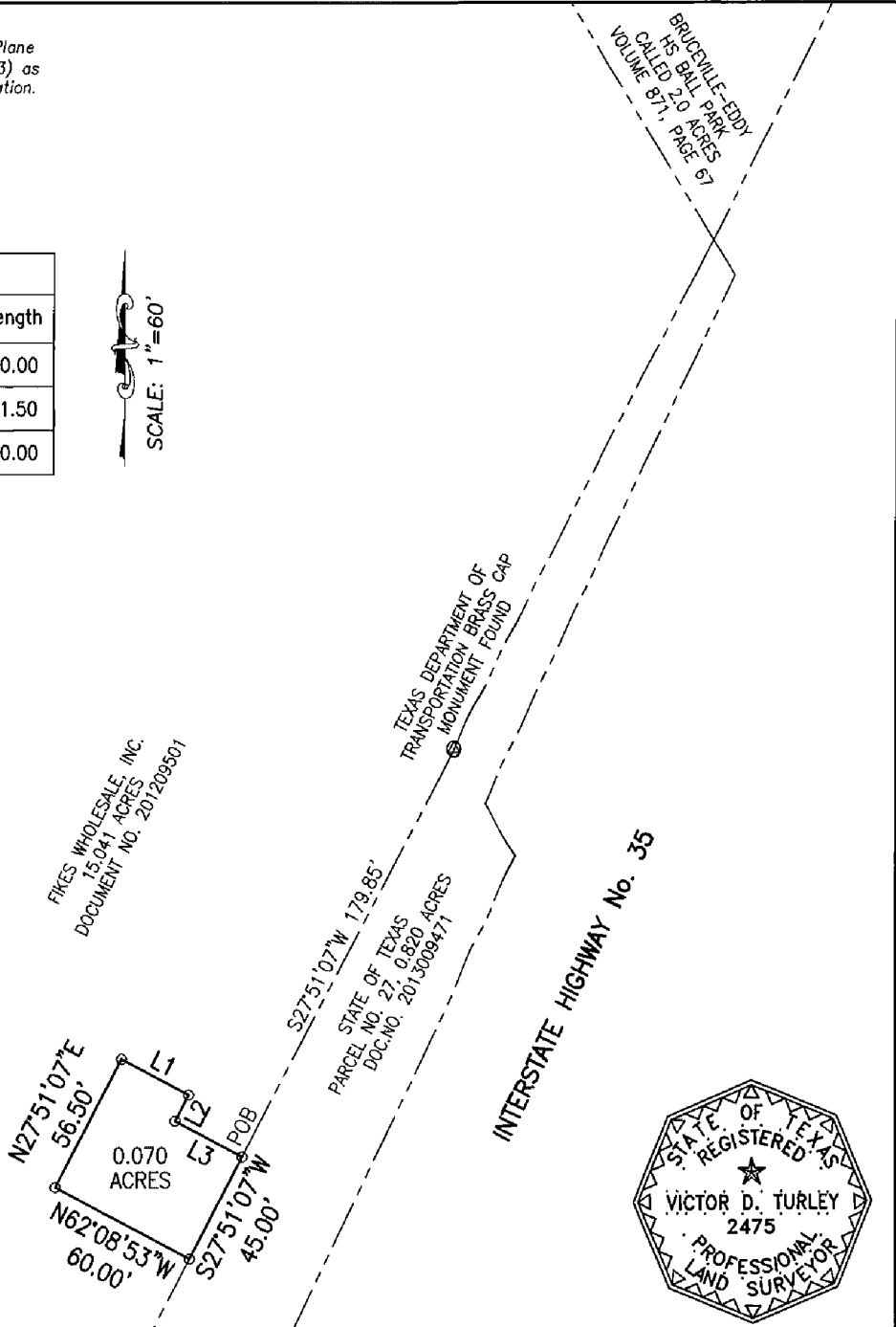
TURLEY ASSOCIATES, INC.
 ENGINEERING SURVEYING PLANNING
 301 N. 3RD ST. TEMPLE, TEXAS 76501 (254) 773-2400
 ENGINEERING FIRM NO. 155B SURVEYING FIRM NO. 10194859

EXHIBIT C

Bearing Base: Texas State Plane
Coordinate System (NAD 1983) as
determined by G.P.S. observation.

Line Table		
Line #	Direction	Length
L1	S62°08'53"E	30.00
L2	S27°51'07"W	11.50
L3	S62°08'53"E	30.00

SCALE: 1"=60'



TURLEY
ENGINEERING & SURVEYING
TURLEY ASSOCIATES, INC.
301 N. 3RD ST.
TEMPLE, TEXAS 76501
WWW.TURLEY-INC.COM
254-773-2400
ENGINEERING FIRM NO. 1558
SURVEY FIRM NO. 10194689

STATE OF TEXAS }
COUNTY OF BELL } KNOW ALL MEN BY THESE PRESENTS, that I, Victor D. Turley,
do hereby certify that this survey was this day made
on the ground of the property described herein and
is correct.

IN WITNESS THEREOF, my hand and seal, this the 6th day of March, 2024.

Victor D. Turley

Victor D. Turley, R.P.L.S. No. 2475

23-132
AMJ

FILED AND RECORDED

Instrument Number: 2024012537

Filing and Recording Date: 04/29/2024 10:14:24 AM Pages: 11 Recording Fee: \$51.00

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of McLennan County, Texas.



J. A. "Andy" Harwell, County Clerk
McLennan County, Texas

greenl

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
COUNTIES OF BELL, MILAM & §
MCLENNAN §

KNOW ALL MEN BY THESE PRESENTS

THAT STAR MARKETERS ACCEPTANCE CORP, a Delaware non-stock corporation ("Grantor"), for (i) TEN AND NO/100 DOLLARS (\$10 00) and other good and valuable consideration paid to Grantor by FIKES WHOLESale, INC, a Texas corporation, with a mailing address at P O Box 1287, Temple, Texas 76503-1287 ("Grantee"), and (ii) the further consideration of that one certain promissory note (the "Note") executed by Grantee in the original principal sum of THREE MILLION FOUR HUNDRED SIXTY-SEVEN THOUSAND TWO HUNDRED FIFTY AND NO/100 DOLLARS (\$3,467,250 00), payable to the order of Grantor (in such capacity, "Beneficiary"), bearing interest and being due and payable as therein specified, the payment of which Note is secured, inter alia, by the Vendor's Lien herein retained and is additionally secured by a certain Deed of Trust of even date herewith from Grantee to Caroline H Creeden, Trustee, for the benefit of Beneficiary, to which reference is hereby made for all purposes, the receipt and sufficiency of which consideration are hereby acknowledged and confessed by Grantor, has GRANTED, BARGAINED, SOLD, and CONVEYED, and by these presents does GRANT, BARGAIN, SELL, and CONVEY unto Grantee those certain tracts or parcels of real property situated in Bell, Milam and McLennan Counties, Texas, being more particularly described on Exhibit A attached hereto and made a part hereof for all purposes, together with all and singular the rights, benefits, privileges, easements, tenements, hereditaments and appurtenances thereon or in anywise appertaining thereto, and together with any and all improvements situated thereon and any right, title and interest of Grantor in and to adjacent streets, alleys and rights-of-way (all of the foregoing being hereinafter referred to collectively as the "Property")

This Special Warranty Deed (this "Deed") is expressly made subject to all recorded and validly existing restrictions, covenants, conditions, rights-of-way, easements, ordinances, maintenance charges and liens securing said charges, mineral reservations, and royalty reservations, if any, affecting all or any part of the Property

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, Grantee's successors and assigns, forever, and Grantor does hereby bind Grantor, Grantor's successors, assigns and legal representatives, to WARRANT and FOREVER DEFEND all and singular the Property unto Grantee, Grantee's successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Grantor, but not otherwise, subject, however, to the matters set forth herein

But it is expressly agreed and stipulated that the Vendor's Lien and Superior Title is hereby reserved and retained against the Property, in favor of Grantor, until the Note and all interest thereon and sums due and owing and to become due and owing in connection therewith are fully paid according to the face, tenor, effect and reading thereof, when this Deed shall become absolute

For and in consideration of the advancement of funds by Beneficiary to enable Grantee to purchase the Property and to secure payment of the Note, the Vendor's Lien and Superior Title herein retained are transferred, assigned, sold and conveyed without recourse to Beneficiary, its successors and assigns

EXECUTED THIS 19th DAY OF DECEMBER, 2000 TO BE EFFECTIVE DECEMBER 20, 2000

STAR MARKETERS ACCEPTANCE CORP

By The Chase Manhattan Bank, as Master Servicer

By David R. Robinson
Name David R Robinson
Title Vice President

HOUSTON 015747/00002 591952v2

McLennan

MCC 2000039327 12 PPS Vol. 737 Page 149

Unofficial Copy

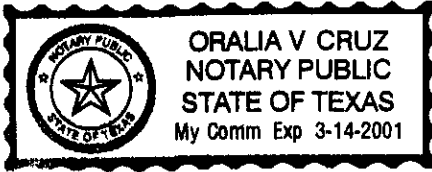
THE STATE OF TEXAS

§
§
§

COUNTY OF HARRIS

This instrument was acknowledged before me on the 19th day of December, 2000, by DAVID R. ROBINSON, Vice President of STAR MARKETERS ACCEPTANCE CORP, a Delaware non-stock corporation, on behalf of said corporation

[SEAL]



Oralia V. Cruz
Notary Public in and for
the State of Texas

Printed Name of Notary

My Commission Expires

Unofficial COOP

EXHIBIT "A" LEGAL DESCRIPTION TO GF #C0029210

TRACT 1: **PARCEL A:** Being 0.413 acre of land, more or less, out of the Redding Roberts Survey, Abstract 692, Bell County, Texas, described by metes and bounds in fieldnotes attached hereto.

TRACT 1: **PARCEL B:** Being a PASSAGE EASEMENT containing 0.105 acre of land, more or less, out of the Redding Roberts Survey, Abstract 692, Bell County, Texas, described by metes and bounds in fieldnotes attached hereto.

TRACT 2: All of Block Fourteen (14), TEMPLE HEIGHTS ADDITION, an addition to the City of Temple, Bell County, Texas, according to the map or plat of record in Volume 195, Page 634, Deed Records of Bell County, Texas, **SAVE AND EXCEPT THEREFROM THAT PORTION SOLD TO THE STATE OF TEXAS IN VOLUME 615, PAGE 582, DEED RECORDS OF BELL COUNTY, TEXAS.**

Tract 3: Being 0.235 acre of land, more or less, out of the C. S. Masters Survey, Abstract 550, Bell County, Texas, described by metes and bounds in fieldnotes attached hereto.

Tract 4: Being 1.752 acres of land, more or less, and also known as Lot One (1), Block One (1), GUMMELT PROPERTIES, LTD. SUBDIVISION, in the City of Belton, Bell County, Texas, according to the plat in Cabinet C, Slide 108-C, Plat Records of Bell County, Texas, described by metes and bounds in fieldnotes attached hereto.

Tract 5: Being 0.943 acre of land, more or less, out of the William Allen Survey, Abstract #72, Milam County, Texas, described by metes and bounds in fieldnotes attached hereto.

Tract 6: TRACT ONE being 1.23 acre, more or less, out of the Levi Prewitt Survey, McLennan County, Texas, described by metes and bounds in fieldnotes attached hereto. **TRACT TWO** being 2.06 acres, more or less, out of the Levi Prewitt Survey, McLennan County, Texas, described by metes and bounds in fieldnotes attached hereto. **TRACT THREE** being 1.156 acre, more or less, out of the Levi Prewitt Survey, McLennan County, Texas, described by metes and bounds in fieldnotes attached hereto.

BEING a 0.413 acre tract of land situated in the REDDING ROBERTS SURVEY ABSTRACT NO. 692, Bell County, Texas and being a part or portion of that certain 0.438 acre tract of land (Exhibit "A") described in a Special Warranty Deed from Petro Producing and Realty Company, Inc. to Elaine Whitley dated December 22, 1986 and being of record in Volume 2258, Page 103, Deed Records of Bell County, Texas and being more particularly described by metes and bounds as follows.

BEGINNING at a brass cap highway monument in concrete found at the southeast corner of said 0.438 acre tract and being at the intersection of the north right-of-way line of Thornton Lane and a cut back line of H.K. Dodgen Loop (Loop 363):

THENCE N 71° 41' 48" W (calls N 71° 41' 50" W), 154.50 feet with the south boundary line of said 0.438 acre tract and the said north right-of-way line to a chiseled "v" set in concrete at the southwest corner of the said 0.438 acre tract for corner;


THENCE departing from the said north right-of-way line and with the west boundary line of said 0.438 acre tract, and being the east boundary line of that certain 0.108 acre tract of land describing a passage easement being of record in said Volume 2258, Page 103, Deed Records of Bell County, Texas the following five (5) calls:

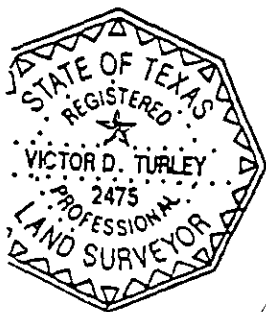
- (1) N 17° 24' 02" E. (calls N. 17° 24' 00" E.), 15.30 feet to a p/k nail with shiner set at the beginning of a curve to the right for corner;
- (2) THENCE with the said curve to the right, radius equals 245.06 feet, arc length equals 49.82 feet and the long chord bearing equals N. 23° 13' 29" E., 49.73 feet to a p/k nail with shiner set for corner;
- (3) N 29° 03' 02" E. (calls N. 29° 03' 00" E.), 21.50 feet to a p/k nail with shiner set at the beginning of a curve to the left for corner;
- (4) THENCE with the said curve to the left, radius equals 153.37 feet, arc length equals 49.57 feet and the long chord bearing equals N. 19° 47' 36" E., 49.35 feet to a chiseled "v" set in curb for corner;
- (5) N. 10° 32' 02" E. (calls N. 10° 32' 00" E.), 15.36 feet to a 1/2" iron rod set in the south right-of-way line of H.K. Dodgen Loop (Loop 363) at the beginning of a curve to the left for corner;

THENCE with the said curve to the left, radius equals 2020.00 feet, arc length equals 194.89 feet and the long chord bearing equals S. 45° 47' 09" E., 194.81 feet to a brass cap highway monument in concrete found at the northeast corner of said 0.438 acre tract for corner;

THENCE S 41° 27' 40" W, (bearing base) 71.12 feet (calls 71.20 feet) to the point of BEGINNING and containing 0.413 acres of land.

I, Victor D. Turley, a Registered Professional Land Surveyor in the State of Texas do hereby certify that these field notes are a correct representation of a survey made on the ground.


Victor D. Turley, R.P.L.S.
February 3, 1995



TRACT 7
PARCEL A
(178)
C0029210

PASSAGE EASEMENT

BEING a 0.105 acre tract of land situated in the REDDING ROBERTS SURVEY ABSTRACT NO. 692, Bell County, Texas and being a part or portion of that certain 0.108 acre tract of land (Exhibit "A") described in a Special Warranty Deed from Petro Producing and Realty Company, Inc. to Elaine Whitley dated December 22, 1986 and being of record in Volume 2258, Page 103, Deed Records of Bell County, Texas and being more particularly described by metes and bounds as follows

Commencing at a brass cap highway monument in concrete found at the southeast corner of that certain 0.438 acre tract also being of record in said Volume 2258, Page 103, Deed Records of Bell County, Texas and being at the intersection of the north right-of-way line of Thornton Lane and a cut back line of H.K. Dodgen Loop (Loop 363); THENCE N. 71° 41' 48" W. (calls N. 71° 41' 50" W.), 154.50 feet with the south boundary line of said 0.438 acre tract and the said north right-of-way line to a chiseled "v" set in concrete at the southwest corner of the said 0.438 acre tract for the point of BEGINNING.

THENCE departing from the said north right-of-way line and with the west boundary line of said 0.438 acre tract; and being the east boundary line of said 0.108 acre tract the following five (5) calls:

- (1) N 17° 24' 02" E. (calls N. 17° 24' 00" E.), 15.30 feet to a p/k nail with shiner set at the beginning of a curve to the right for corner;
- (2) THENCE with the said curve to the right, radius equals 245.06 feet, arc length equals 49.82 feet and the long chord bearing equals N. 23° 13' 29" E., 49.73 feet to a p/k nail with shiner set for corner;
- (3) N 29° 03' 02" E. (calls N. 29° 03' 00" E.), 21.50 feet to a p/k nail with shiner set at the beginning of a curve to the left for corner,
- (4) THENCE with the said curve to the left, radius equals 153.37 feet, arc length equals 49.57 feet and the long chord bearing equals N. 19° 47' 36" E., 49.35 feet to a chiseled "v" set in curb for corner,
- (5) N 10° 32' 02" E. (calls N. 10° 32' 00" E.), 15.36 feet to a 1/2" iron rod set in the south right-of-way line of H.K. Dodgen Loop (Loop 363) at the beginning of a curve to the right for corner;

THENCE with the said curve to the right, radius equals 2020.00 feet, arc length equals 17.89 feet and the long chord bearing equals N. 42° 48' 18" W., 17.89 feet to a p/k nail with shiner set in the east boundary line of TRACT 1, THE SAVINGS CENTER COMMERCIAL SUBDIVISION, an Addition to the City of Temple, Bell County, Texas being of record in Cabinet A, Slide 294-A, Plat Records of Bell County, Texas for corner;

TRACT 1
Parcel B
(172)
©
P.A. 29210

THENCE departing from said south right-of-way line and with the west boundary line of said 0.108 acre tract and being the east boundary line of said TRACT 1 the following five (5) calls:

- (1) S 11° 43' 02" W (calls S. 11° 43' 00" W.), 5.18 feet departing from said south right-of-way line to a p/k nail with shiner set at the beginning of a curve to the right for corner;
- (2) THENCE with the said curve to the right, radius equals 110.93 feet, arc length equals 58.59 feet, and the long chord bearing equals S. 26° 51' 11" W., 57.91 feet to a 1/2" iron rod set for corner;
- (3) S 41° 59' 02" W. (calls S 41° 59' 00" W.), 29.80 feet to a 1/2" iron rod set at the beginning of a curve to the left for corner;
- (4) THENCE with the said curve to the right, radius equals 139.34 feet, arc length equals 59.09 feet and the long chord bearing equals S. 29° 49' 57" W., 58.65 feet to a 1/2" iron rod set for corner;
- (5) S 17° 41' 02" W (calls S 17° 41' 00" W.), 12.00 feet to a 1/2" iron rod set (calls iron pipe) in the north right-of-way line of Thornton Lane for corner;

THENCE S. 71° 41' 48" E (calls S. 71° 41' 50" E.), 40.00 feet with said north right-of-way line to the point of BEGINNING and containing 0.105 acres of land.

.....

I, Victor D. Turley, a Registered Professional Land Surveyor in the State of Texas do hereby certify that these field notes are a correct representation of a survey made on the ground.

Victor D. Turley
Victor D. Turley, R.P.L.S.
February 3, 1995

TRACT 1
Parcel B
(272)
A. 12.717

BEING a 0.235 acre tract of land situated in the C S MASTERS SURVEY, ABSTRACT NO 550, Bell County, Texas and being all of that certain 0.17 acre tract (Exhibit "A") described in a Warranty Deed from Monterrey Valley Corporation to Edwin Gummelt, Jr., dated September 11, 1990 and being all of that certain 688 749 square feet or 0.016 acre tract described as right-of-way abandonment of a portion of Chadel Road by action of the Temple City Council, City of Temple, Bell County, Texas on June 16, 1994, said 0.016-acre tract described in a Quit-Claim Deed from the City of Temple, Texas to Centroplex Marketing, Inc, dated June 17, 1994 and being of record in Volume 3172, Page 401, Deed Records of Bell County, Texas and the said 0.235 acre tract being more particularly described by metes and bounds as follows:

BEGINNING at a flush brass cap highway monument in concrete found at the intersection of the north right-of-way line of F M Highway No. 2305 (West Adams Avenue) and the east right-of-way line of Apache Way,

THENCE N 17° 37' 00" E, 11.44 feet departing from said north right-of-way line and with the east right-of-way line to a flush brass cap highway monument in concrete found for corner,

THENCE continuing with the east right-of-way line of Apache Way, and with the west boundary line of said 0.17 acre tract, N 18° 26' 58" E (calls N 13° 20' 30" E), at 84.57 feet (calls 83.0 feet) a 1/2" iron rod set in concrete at the northwest corner of said 0.17 acre tract and the southwest corner of said 0.016 acre tract and at 90.86 feet in all to a 1/2" iron rod set in concrete at the northwest corner of said 0.016 acre tract for corner;

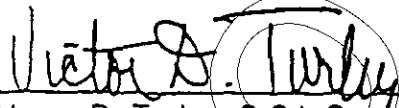
THENCE S. 73° 13' 29" E., 219.11 feet with the north boundary line of that certain 0.016 acre tract abandoned to a concrete nail with shiner set in asphalt at the intersection of said existing right-of-way line of Chadel Road and with the north right-of-way line of F.M. Highway No. 2305 (West Adams Avenue) and being the most easterly corner of said 0.17 acre tract as re-constructed at the beginning of a curve to the left for corner;

THENCE with the said north right-of-way line said curve to the left, radius equals 995.37 feet; arc length equals 173.18 feet; and the long chord bearing and distance equals S. 83° 29' 46" W, 172.96 feet to a chiseled "x" in concrete set for corner;

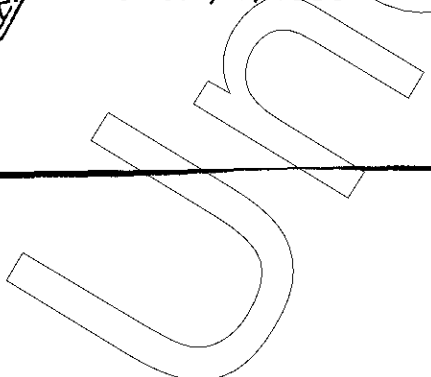
THENCE S 78° 30' 45" W, 71.59 feet continuing with the said north right-of-way line to the point of BEGINNING and containing 0.235 acres of land

.....

I, Victor D. Turley, a Registered Professional Land Surveyor in the State of Texas do hereby certify that these field notes are a correct representation of a survey made on the ground.


Victor D. Turley, R.P.L.S.
February 1, 1995

TRACT 3
191 E
P.O. 29310



Bell County
1702 Taylors Valley Rd., Belton, Texas

Being all that certain tract of land situated in the O.T. Tyler Survey, Abstract 20, Bell County, Texas, being a part of a 10.78 acre tract of land described in a deed to Aubrey Slough, et ux, recorded in Volume 1063, Page 5, deed records of said county, and being more particularly described as follows:

Beginning at a 1/2" iron rod found at the south corner of the herein described tract, the southwest corner of a tract of land described in a deed to R & R Equipment Company, Inc., recorded in Volume 1655, Page 85, deed records of said county, and on the northerly right of way of F.M. Highway 93 as described in Volume 1363, Page 285, deed records of said county:

Thence N 04 deg. 19 min. 28 sec. E - 447.16 feet (record 446.74), along the west line of said R & R Equipment tract, to a 1/2" iron rod found at the north corner of the herein described tract

Thence S 68 deg. 24 min. 03 sec. W - 352.10 feet, along the east line of a tract of land described in a deed to Belton Service Center, recorded in Volume 1716, Page 839, deed records of said county, to a 1/2" iron rod set on said right of way:

Thence along said right of way and a curve to the left having a radius of 1223.25 feet, a central angle of 20 deg. 19 min. 17 sec., and a long chord which bears S 42 deg. 52 min. 35 sec. E - 451.59 feet, an arc distance of 433.86 feet to the Point of beginning and containing 1.752 acres of land.

TRACT 4

EXHIBIT "A"

Being 0.943 acres, more or less, out of the William Allen Survey, A-72, Milam County, Texas, more particularly described by metes and bounds

BEING 0.943 acres of land situated in the WILLIAM ALLEN SURVEY, ABSTRACT No. 72, Milam County, Texas and being a part or portion of that certain 1.0176 acre tract of land described in a Warranty Deed with Vendor's Lien from Wayne Brinkley and Gunnick Properties, Ltd., to B & G Properties dated October 12, 1995 and being of record in Volume 715, Page 708, Deed Records of Milam County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a 1/2" iron rod found at the called southwest corner of said 1.0176 acre tract and being in the north right-of-way line of the Missouri Pacific Railroad for corner;

THENCE N. 25° 59' 01" W., 271.95 feet (calls N. 26° 00' 00" W.) with the west boundary line of said 1.0176 acre tract to a chiseled "x" found in concrete at the apparent southwest corner of that certain 0.0734 acre tract of land described in a right-of-way Deed (PARCEL No. 89) from Robert W. Rielly, et ux to State of Texas being of record in Volume 675, Page 194, Deed Records of Milam County, Texas and being in the south right-of-way line of U.S. Highway No. 79 (West Cameron Avenue) for corner;

THENCE N. 64° 13' 18" E., 159.87 feet (calls N. 60° 31' 25" E., 158.67 feet in said Volume 675, Page 194) with the said south right-of-way line to a 1/2" iron rod found in the east boundary line of said 1.0176 acre tract for corner;

THENCE S. 22° 12' 32" E., 273.33 feet (calls S. 22° 16' 00" E.) departing from said south right-of-way line and with the said east boundary line to a 1/2" iron rod found at the southwest corner of said 1.0176 acre tract and being in the said north right-of-way line of the Missouri Pacific Railroad for corner;

THENCE S. 64° 34' 00" W., (bearing base) 141.88 feet (calls 141.86 feet) with the south boundary line of said 1.0176 acre tract and said north right-of-way line to the Point of BEGINNING and containing 41,096.329 square feet or 0.943 acres of land.

TRACT 5

Unofficial

Tract One:

BEING 1.23 acres of land out of the Levi Prewitt Survey in McLennan County, Texas and being a part of that certain 83.1 acre tract of land;

BEGINNING at an iron stake in the West line of Interstate Highway No. 35 at its intersection with the south line of the said 83.1 acre tract for the Southeast corner of this;

THENCE N 40 deg 59' W 210 ft. with the South line of the said 83.1 acre tract and as evidenced on the ground to an iron stake for the Southwest corner of this;

THENCE N 27 deg 36' E 275 ft. to an iron stake for the Northwest corner of this;

THENCE S 40 deg 59' E 210 ft. to an iron stake for the Northeast corner of this in the West line of the said Highway;

THENCE S 27 deg 36' W 275 ft. to the West line of the said Highway to the place of beginning.

Tract Two

BEING 2.06 acres of land out of the Levi Prewitt Survey in McLennan County Texas and being a part of that certain 4.32 acre tract of land;

BEGINNING at an iron stake in the West line of Interstate 35 at its intersection with the Northeast line of said 4.3 acre tract;

THENCE S 27 deg 36' W at 4.1 ft. pass a concrete highway monument, in all 202.25 ft. along the Northwest line of Interstate 35 to an iron stake in the Northeast line of a 30 ft. drainage channel; said drainage channel described in Deed recorded in Vol. 429, Pg. 637, McLennan county Deed Records, said drainage channel conveyed to McLennan County Texas;

THENCE N 27 deg 38' 30" W 55.2 ft. to an iron stake at the North or Northeast corner of said 30 ft. drainage channel;

THENCE S 62 deg 21' 30" W 30 ft. to an iron stake at the West or Northwest corner of said 30 ft. drainage channel;

THENCE S 27 deg 38' 30" E 76 ft. to an iron stake in the Northwest line of Interstate 35;

THENCE S 27 deg. 36' W 17 ft. along the Northwest line of Interstate 35 to a concrete monument for the South corner of this;

THENCE N 27 deg. 38' 30" W 307.16 ft. along the Southwest line of said 4.3 acre tract, a fence line to an iron stake at an inside corner of same;

THENCE S 63 deg. 19' W 30 ft. along the South line of said 4.3 acre tract to an iron stake;

THENCE N 27 deg 25' W 253.45 ft. to an iron stake in the Northwest line of said 4.3 acre tract;

THENCE N 61 deg 26' E 149.75 ft. along the Northwest line of said 4.3 acre tract, an old fence line to an iron stake at its North or Northwest corner;

THENCE S 39 deg 39' E 426.95 ft. along the Northeast line of

TRACT 4
Page 1 of 3

said 4.3 acre tract to the place of beginning.

Tract Three:

BEING a 1.156 acre tract of land, more or less, situated in the Levi Prewitt Survey in McLennan County, Texas, and a part or portion of that certain 83.1 acre tract of land described in a deed to Cecil Miracle and wife, Josephine Miracle dated June 26, 1942 and being of record in Volume 499, page 548, Deed Records of McLennan County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a 1/2" iron rod set in the south boundary line of said 83.1 acre tract and being the southwest corner of that certain 1.23 acre tract of land described in a Warranty Deed from Texas Cooper Corp., to Gummelt Properties, Ltd., dated November 1, 1995 and being of record in Volume 1855, page 71, Deed Records of McLennan County, Texas;

THENCE N 39 deg. 29' 12" W., (calls N. 41-1/2" W.) 237.23 feet with the said south boundary line of said 83.1 acre tract to a 3/8" iron rod found at the called North or Northwest corner of that certain 2.06 acre tract (Tract Three) described in a Warranty Deed with Vendor's Lien from Poweram Oil Company, Inc. to Away Marketing, Inc. dated January 19, 1983 and being of record in Volume 1439, page 560, Deed Records of McLennan County, Texas, for corner;

THENCE N. 45 deg. 34' 36" E., 255.56 feet departing from said called North or Northwest corner to a 1/2" iron rod set for corner;

THENCE S. 39 deg. 39' 47" E., 158.00 feet to a 1/2" iron rod found at the called Northwest corner of said 1.23 acre tract for corner;

THENCE S. 28 deg. 52' 16" W., (calls S. 27 deg. 36' W.) 274.44 feet (calls 275.0 feet) with the west boundary line of said 1.23 acre tract to the point of beginning and containing 50,376.727 square feet or 1.156 acres of land, more or less.

Tract Four:

BEING a 0.603 acre tract of land situated in the Levi Prewitt Survey in McLennan County, Texas and being a part or portion of that certain 83.1 acre tract of land described in a deed to Cecil Miracle and wife Josephine Miracle dated June 26, 1942 and being of record in Volume 499, Page 548, Deed Records of McLennan County, Texas and being more particularly described by metes and bounds and follows:

BEGINNING at a 3/8" iron rod found at the called north or northwest corner of that certain 2.06 acre tract (TRACT THREE) described in a Warranty Deed with Vendor's Lien from Poweram Oil Company, Inc. to Away Marketing, Inc. dated January 19, 1983 and being of record in Volume 1439, Page 560, Deed Records of McLennan County, Texas for corner;

THENCE N. 45 deg 34' 36" E., 255.56 feet departing from said called north or northwest corner to a 1/2" iron rod set for corner;

TRACT SIX
Page 2 of 3

THENCE S. 39 deg 39' 47" E., 158.00 feet to a 1/2" iron rod found at the called northwest corner of that certain 1.23 acre tract of land described in a Warranty Deed from Texas Cooper Corp., to Gummelt Properties, Ltd. dated November 1, 1995 and being of record in Volume 1855, Page 71, Deed Records of McLennan County, Texas;

THENCE S. 39 deg 39' 47" E., (calls S. 40 deg 59' E.) 210.62 feet (calls 210.00 feet) with the north boundary line of said 1.23 acre tract to a 1/2" iron rod found at the northeast corner of said 1.23 acre tract and being in the west right-of-way line of Interstate Highway No. 35 for corner;

THENCE N. 29 deg 01' 51" E., 42.93 feet departing from said northeast corner and with said west right-of-way line to 1/2" iron rod set for corner;

THENCE N. 39 deg 39' 47" W., 396.49 feet departing from said west right-of-way line to a 1/2" iron rod set for corner;

THENCE S. 45 deg 34' 36" W., 293.46 feet to a 1/2" iron rod set for corner;

THENCE S. 36 deg 29' 42" E., 40.39 feet to the Point of BEGINNING and containing 26,282.493 square feet or 0.603 acres of land.

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

J.A. "Andy" Harwell

2000 DEC 29 08:59 AM 2000039327

INGE \$31.00

J.A. "ANDY" HARWELL, COUNTY CLERK
MCLENNAN COUNTY, TEXAS

TRACT 6
Page 3 of 3

#117167 FTC



DEED

2012009501

7 PGS

AFTER RECORDING RETURN TO:
CENTRALAND TITLE COMPANY
Post Office Box 2125
Temple, Texas 76503-2125

FTC 117167

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED

Date: MARCH 28, 2012

Grantor (whether one or more): NANCY CECILE DEVINEY and ELIZABETH JANE MIRACLE, each dealing with her sole and separate property and estate, not joined herein by their respective spouses, if any, as the below described property is not now, nor has it ever been used, claimed, or occupied as our homestead

Grantor's Mailing Address (including county): Nancy Cecile Deviney, 902 Eagle Drive, Eddy, Texas 76524 (McLennan County); and Elizabeth Jane Miracle, P. O. Box 190, Eddy, Texas 76524 (McLennan County)

Grantee (whether one or more): FIKES WHOLESAL, INC. a Texas corporation

Grantee's Mailing Address (including county): P. O. Box 1287, Temple, Texas 76503-1287 (Bell County)

Consideration: TEN AND NO/100 DOLLARS (\$10.00) and other valuable consideration paid to Grantor by Grantee and for which no lien, either express or implied, is retained.

Property (including any improvements): Being 15.041 acre tract out of that certain 83.1 acre tract out of the Levi Prewitt Survey, in McLennan County, Texas as shown in that certain Deed dated June 26, 1942 and recorded in Volume 499, Page 548 of the Deed Records of McLennan County, Texas, and being more particularly described in metes and bounds in field notes in Exhibit "A" attached hereto and incorporated herein.

together with, without covenant or warranty, express or implied (whether under Section 5.023 of the Texas Property Code or otherwise) all right, title and interest, if any, of Grantor as owner of the Property, but not as owner of any other property, in and to: (i) any and all appurtenances belonging or appertaining thereto; (ii) any and all improvements located thereon; (iii) any and all appurtenant easements or rights of way affecting said real property and any of Grantor's rights to use same; (iv) any and all rights of ingress and egress to and from said real property and any of Grantor's rights to use same; (v) any and all mineral rights and interests of Grantor relating to said real

SPECIAL WARRANTY DEED

153312 / 46516 / GP#C1162430

property (present or reversionary); and (vi) any and all rights to the present or future use of wastewater, wastewater capacity, drainage, water or other utility facilities to the extent same pertain to or benefit said real property or the improvements located thereon, including without limitation, all reservations of or commitments or letters covering any such use in the future, whether now owned or hereafter acquired; (vii) any and all rights and interests of Grantor in and to any leases covering all or any portion of said real property; and (viii) all right, title, and interest of Grantor, if any, in and to (a) any and all roads, streets, alleys and ways (open or proposed) affecting, crossing, fronting or bounding said real property, including any awards made or to be made relating thereto including, without limitation, any unpaid awards or damages payable by reason of damages thereto or by reason of a widening of or changing of the grade with respect to same; (b) any and all strips, gores or pieces of property abutting, bounding or which are adjacent or contiguous to said real property (whether owned or claimed by deed, limitations or otherwise); (c) any and all air rights relating to said real property and (d) any and all reversionary interests in and to said real property (said real property together with any and all of the related improvements, appurtenances, rights and interests referenced in items (i) through (viii) above are herein collectively referred to as the "Property").

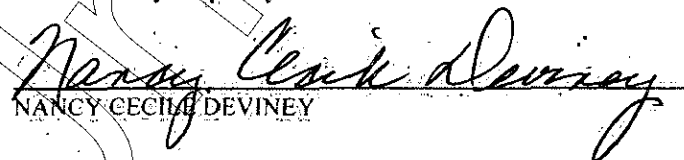
Reservations from and Exceptions to Conveyance and Warranty: *Exceptions:* Liens described as part of the Consideration and any other liens described in this deed as being either assumed or subject to which title is taken, if any; all easements, rights-of-way, restrictions, reservations, covenants, conditions, oil and gas leases, mineral interests, and water interests outstanding in persons other than Grantor, and other instruments, other than conveyances of the surface fee estate, that affect the Property, but only to the extent that any of the foregoing are validly existing and shown of record in the hereinabove mentioned county and state; all zoning laws, regulations and ordinances of applicable governmental authorities, but only to the extent that they are still in effect and relate to the Property; any discrepancies, conflicts or shortages in area or boundary lines; any encroachments or overlapping of improvements; all rights, obligations and other matters emanating from and existing by reason of the creation, establishment, maintenance and operation of any County Water Improvement District, Municipal Utility District or similar governmental or quasi-governmental agency; taxes for the year 2012, the payment of which Grantee assumes; existing building and zoning ordinances and environmental regulations; and rights of parties in possession.

Grantee agrees to furnish, install, and maintain a solid screen, which at Grantee's discretion may be a fence or earthen berm, with a minimum height of six feet (6') along the common boundary line of the Property and the Grantor's remainder acreage to the extent shown on Exhibit "B", attached hereto and incorporated herein.

Grantor, for the Consideration and subject to the Reservations from and Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever. Grantor binds Grantor and Grantor's heirs, executors, administrators, and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, executors, administrators, successors, and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from and Exceptions to Conveyance and Warranty, when the claim is by, through, or under Grantor but not otherwise.

When the context requires, singular nouns and pronouns include the plural.

By acceptance of this deed, Grantor and Grantee acknowledge that Baird, Crews, Schiller & Whitaker, P.C. ("BCSW") (1) has not ordered or examined title to the Property, (2) has made no other independent investigation of the title to the Property but has prepared this deed based on information and documents furnished to BCSW, and (3) makes no representation or warranty, express or implied, regarding the Property or the validity or quality of its title.


NANCY CECILE DEVINEY

SPECIAL WARRANTY DEED

153312/46516 / GF#C1162430

Elizabeth Jane Miracle
ELIZABETH JANE MIRACLE

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF Bell

This instrument was acknowledged before me on MARCH 28, 2012, by NANCY CECILE DEVINEY.

Cathy Thomas
NOTARY PUBLIC

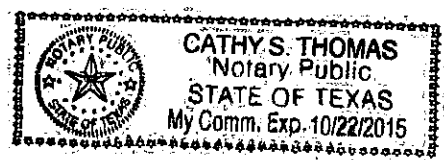


ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF Bell

This instrument was acknowledged before me on MARCH 28, 2012, by ELIZABETH JANE MIRACLE.

Cathy Thomas
NOTARY PUBLIC



PREPARED IN THE LAW OFFICE OF:
pls / crm
BAIRD, CREWS, SCHILLER & WHITAKER, P.C.
ATTN: THOMAS C. BAIRD
15 North Main Street
Temple, Texas 76501
www.bcswlaw.com

SPECIAL WARRANTY DEED

153312746516 / GF#CH162430

EXHIBIT "A"

BEING a 15.041 acre tract of land situated in the LEVI PREWITT SURVEY, McLennan County, Texas and being a part or portion of that certain called 83.1 acre tract of land described in a Deed dated June 26, 1942 from H. L. Dickson and wife, Carrie R. Dickson, C. E. Dickson, a widower, and Drew Dickson and wife, Nellie Dickson, and C. C. Dickson and wife, Lee Anne Dickson to Cecil Miracle and wife, Josephine Miracle and being of record in Volume 499, Page 548, Deed Records of McLennan County, Texas and being all of that certain called 2.0 acre tract of land described in a Warranty Deed dated March 24, 1960 from Bruceville-Eddy County Line Rural High School District to Cecil Miracle and wife, Josephine Miracle and being of record in Volume 871, Page 68, Deed Records of McLennan County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a 1/2" iron rod found being an interior point of the said 83.1 acre tract and being the most westerly corner of that certain 0.603 acre tract of land (TRACT SIX - Tract Four) described in a Special Warranty Deed dated December 19, 2000 from That Star Marketers Acceptance Corp., a Delaware non-stock corporation to Fikes Wholesale, Inc., a Texas corporation and being of record in Document No. 2000039327, Official Public Records of McLennan County, Texas for corner;

THENCE S. 39° 12' 13" E., 40.38 feet with a southwesterly boundary line of the said 0.603 acre tract (calls S. 36° 29' 42" E., 40.39 feet) and over and across the said 83.1 acre tract to a 1/2" iron rod with cap stamped "RPLS 2475" set being the most southerly southwest corner of the said 0.603 acre tract and being the southwesterly corner of that certain 1.156 acre tract of land (TRACT SIX - Tract Three) described in said Document No. 2000039327 and being the northeasterly corner of that certain 2.06 acre tract of land (TRACT SIX - Tract Two) described in said Document No. 2000039327 and being in the southerly boundary line of the said 83.1 acre tract for corner;

THENCE S. 58° 53' 40" W., 547.22 feet departing the said 0.603 acre tract and the said 1.156 acre tract and with the said southerly boundary line (calls S. 60° W., 197 varas) and the northwesterly boundary line of the said 2.06 acre tract (calls N. 61° 26' E., 149.75 feet) and continuing with the northwest boundary line of that certain 2.849 acre tract of land described in a Warranty Deed dated May 5, 1997 from Marsha Ann Redwine to Ray Douglas Williams and being of record in Volume 139, Page 354 (also referenced on document as McLennan County Clerk Document No. 9712302), Official Public Records of McLennan County, Texas and continuing with the northwest boundary line of that certain tract of land described in a Gift Warranty Deed dated January 21, 2003 from Juanita Lafrentz to Marvin Lafrentz, Trustee and being of record in Document No. 2003016512, Official Public Records of McLennan County, Texas to a 1/2" iron rod with cap stamped "RPLS 2475" set being the apparent southwest corner of the said Lafrentz tract and being in the easterly right-of-way line of Evergreen Street as monumented, fenced and further evidenced on the ground and being an exterior ell corner in the southerly boundary line of the said 83.1 acre tract for corner;

THENCE N. 30° 06' 36" W., 40.01 feet departing the said Lafrentz tract and with the said east right-of-way line and continuing with the southerly boundary line of the said 83.1 acre tract (calls N. 29 1/2° W., 54 1/2 varas) to a 1/2" iron rod with cap stamped "RPLS 2475" set for corner;

EXHIBIT "A"

THENCE departing the said southerly boundary line and the said right-of-way line and across the said 83.1 acre tract the following five (5) calls:

- 1) N. 58° 53' 40" E., 154.07 feet to a ½" iron rod with cap stamped "RPLS 2475" set for corner;
- 2) N. 28° 27' 21" E., 1388.24 feet to a ½" iron rod with cap stamped "RPLS 2475" set for corner;
- 3) N. 79° 50' 44" E., 264.09 feet to a ½" iron rod with cap stamped "RPLS 2475" set being the occupied most northerly corner of the aforementioned 2.0 acre tract and being the occupied most westerly corner of that certain called 2.0 acre tract of land described in a Deed dated March 24, 1960 from Cecil Miracle and wife, Josephine Miracle to Bruceville-Eddy County Line Rural High School District (description does not form a mathematically closed figure) and being of record in Volume 871, Page 67, Deed Records of McLennan County, Texas for corner;
- 4) S. 31° 24' 29" E., with the occupied northeasterly boundary line of the said 2.0 acre tract (volume 871, Page 68) (calls S. 28° 39' E., 443.87 feet) and with the occupied southwesterly boundary line of the said 2.0 acre tract (Volume 871, Page 67) (calls N. 28° 39' W., 329.1 feet) at 422.28 feet pass a Texas Department of Transportation aluminum cap right-of-way monument found being the northwesterly corner of that certain 0.820 acre tract of land described as proposed Interstate Highway No. 35 right-of-way Tract No. 27 according to Interstate Highway No. 35 proposed right-of-way plans provided by Texas Department of Transportation on or about December 20, 2011 and at 438.47 feet in all to a ½" iron rod with cap stamped "RPLS 2475" set being the northeasterly corner of the said Tract No. 27 and being the occupied southerly corner of the said 2.0 acre tract (Volume 871, page 67) and being the occupied easterly corner of the said 2.0 acre tract (volume 871, Page 68) and being in the westerly right-of-way line of Interstate Highway No. 35 as monumented, fenced and further evidenced on the ground and as described in a Deed to the State of Texas being of record in Volume 821, Page 417, Deed Records of McLennan County, Texas for corner;

THENCE departing the said 2.0 acre tract (Volume 871, page 67) and with the easterly boundary line of the said Tract No. 27 and with the said westerly right-of-way line of Interstate Highway No. 35 and continuing over and across the said 83.1 acre tract the following three (3) calls:

- 1) S. 25° 45' 09" W., 229.70 feet with the southeast boundary line of the said 2.0 acre tract (Volume 871, Page 68) (calls S. 27° 36' W., 229.6 feet) to a broken concrete Texas Department of Transportation right-of-way monument found being the occupied southerly corner of the said 2.0 acre tract (Volume 871, page 68) for corner;
- 2) S. 30° 59' 51" E., 23.92 feet departing the said 2.0 acre tract (Volume 871, Page 68) to a ½" iron rod with cap stamped "RPLS 2475" set for corner;

EXHIBIT "A"

- 3) S. 25° 45' 10" W., 604.11 feet to a ½" iron rod found being the southeasterly corner of the aforementioned 0.603 acre tract and being the southeasterly corner of the said Tract No. 27 for corner;

THENCE departing the said westerly right-of-way line of Interstate Highway No. 35 and with the northeasterly and northwesterly boundary lines of the said 0.603 acre tract and continuing over and across the said 83.1 acre tract the following two (2) calls:

- 1) N. 42° 31' 13" W. (calls N. 39° 39' 47" W.), at 67.85 feet pass a Texas Department of Transportation aluminum cap right-of-way monument found being the southwesterly corner of the said Tract No. 27 and departing the said Tract No. 27 at 398.20 feet in all (calls 396.49 feet) to a ½" iron rod with cap stamped "RPLS 2475" set being the northerly corner of the said 0.603 acre tract for corner;
- 2) S. 42° 52' 32" W., 293.46 feet (calls S. 45° 34' 36" W., 293.46 feet) to the Point of BEGINNING and containing 15.041 acres of land.

March 15, 2012

Bearing Base: Texas State Plane Coordinate System, NAD 1983, Central Zone as determined by GPS observation.

EXHIBIT "B"

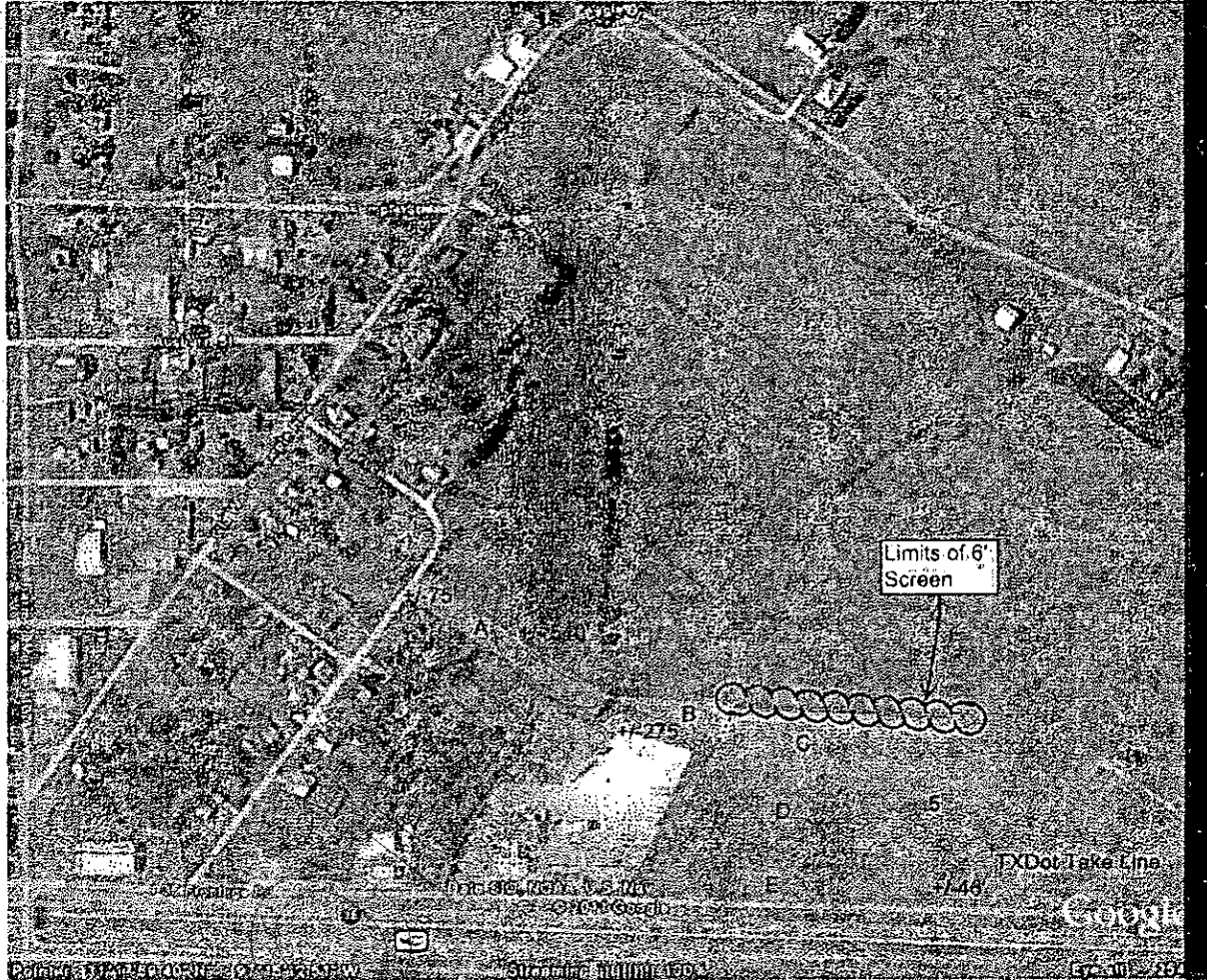


Exhibit "B" Page 1 of 1

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

J.A. Andy Harwell

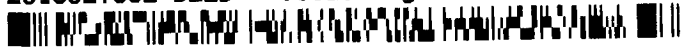
March 30, 2012 02:35:51 PM

2012009501

FEE: \$35.00

J.A. "Andy" Harwell County Clerk

McLennan County TEXAS



SPECIAL WARRANTY DEED

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED

STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

§

COUNTY OF MCLENNAN

§

THAT Nancy Cecile Deviney, a widow conveying as my sole and separate property ("**Grantor**"), for and in consideration of the sum of Ten Dollars (\$10.00) cash and other good and valuable consideration paid by Fikes Wholesale, Inc., a Texas corporation ("**Grantee**"), whose mailing address is P.O. Box 1287, Temple, Texas 76503, HAS GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents DOES GRANT, BARGAIN, SELL and CONVEY unto Grantee all that certain land situated in McLennan County, Texas, and described on **Exhibit "A"** which is attached hereto and incorporated herein by reference for all purposes, together with all appurtenances thereon or in anywise appertaining thereto and all buildings, structures, fixtures and improvements located thereon (said land, improvements and appurtenances being herein together referred to as the "Property").

This conveyance is made subject to the Permitted Exceptions set forth in **Exhibit "B"** hereto, to the extent the same are valid and subsisting and affect the Property, and except for ad valorem taxes assessed against the Property for the calendar year in which this conveyance becomes effective (which are hereby assumed by Grantee), Grantee does not assume or in any manner agree to pay or indemnify Grantor for any indebtedness secured by any lien against, or interest in, the Property or any portion thereof.

TO HAVE AND TO HOLD the Property unto Grantee, and Grantee's heirs, legal representatives, successors and assigns forever, and Grantor does hereby bind Grantor, and Grantor's heirs, legal representatives, successors and assigns to WARRANT and FOREVER DEFEND, all and singular the Property unto Grantee and Grantee's heirs, legal representatives, successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through or under Grantor but not otherwise.

For the same consideration, Grantor hereby GRANTS, BARGAINS, SELLS and CONVEYS, all interest, if any, of Grantor in (i) strips or gores, if any, between the Property and

Central Land Title Company

Document 1 of 1

File # C1573996

\$ 32.00

abutting properties and (ii) any land lying in or under the bed of any street, alley, road or right-of-way, opened or proposed, abutting or adjacent to the Property.

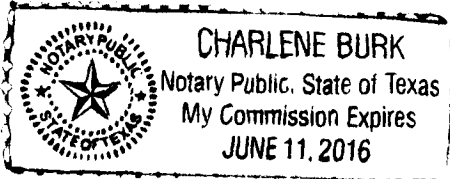
EXECUTED this 26 day of August 2015.

GRANTOR:
NANCY CECILE DEVINEY

Nancy Cecile Deviney

STATE OF TEXAS §
COUNTY OF Bell §
§

This instrument was acknowledged before me on the 26 day of August 2015, by Nancy Cecile Deviney. She is personally known to me or produced DL # as identification.



Charlene Burk
Name (Print): _____
Notary Public – State of Texas
My commission expires: _____

After recording, return to:

Fikes Wholesale, Inc.
ATTN: Tate Seideman, General Counsel
P.O. Box 1287
Temple, Texas 76503

Centraland Title Company
2005 Birdcreek Drive Suite 100
Temple, TX 76502

PROPERTY DESCRIPTION**(Exhibit "A" to Special Warranty Deed)**

BEING a 0.951 acre tract of land situated in the LEVI PREWITT SURVEY, McLennan County, Texas and being a part or portion of that certain 54.449 acre tract of land described in a Special warranty Deed dated May 17, 2012 from Elizabeth Jane Miracle to Nancy Cecile Deviney and being of record in Document No. 2012014824, Official Public Records of McLennan County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a ½" " iron rod with cap stamped "RPLS 2475" found being an angle point in the southerly boundary line of the said 54.449 acre tract and being the most southerly northwest corner of that certain called 2.0 acre tract of land described in a Deed dated March 24, 1960 from Cecil Miracle and wife, Josephine Miracle to Bruceville-Eddy County Line Rural High School District and being of record in Volume 871, Page 67, Deed Records of McLennan County, Texas (description found in Volume 871, Page 67 does not form a mathematically closed figure) and being the northeasterly corner of that certain 15.041 acre tract of land described in a Special warranty Deed dated March 28, 2012 from Nancy Cecile Deviney and Elizabeth Jane Miracle to Fikes Wholesale, Inc., a Texas corporation and being of record in Document No. 2012009501, Official Public Records of McLennan County, Texas for corner;

THENCE S. 79° 50' 44" W., 194.68 feet departing the said 2.0 acre tract and with the southerly boundary line of the said 54.449 acre tract (calls S. 79° 50' 44" W., 264.09 feet) and with the northerly boundary line of the said 15.041 acre tract (calls N. 79° 50' 44" E., 264.09 feet) to a ½" iron rod with cap stamped "RPLS 2475" set for corner;

THENCE N. 58° 46' 18" E., 478.08 feet departing the said 15.041 acre tract and the said southerly boundary line and over and across the said 54.449 acre tract to a ½" iron rod with cap stamped "RPLS 2475" set being at the beginning of a curve to the left having a radius equals 145.00 feet, chord bearing equals N. 49° 10' 39" E., 48.33 feet for corner;

THENCE 48.56 feet along the arc of said curve to the left to a ½" iron rod with cap stamped "RPLS 2475" set being at the beginning of a curve to the right having a radius equals 215.00 feet, chord bearing equals N. 49° 10' 39" E., 71.67 feet for corner;

THENCE 72.00 feet along the arc of said curve to the right to a ½" iron rod with cap stamped "RPLS 2475" set for corner;

THENCE N. 58° 46' 18" E., 53.34 feet to a ½" iron rod with cap stamped "RPLS 2475" set being in the east boundary line of the said 54.449 acre tract and being in a westerly boundary line of the aforementioned 2.0 acre tract and being in the west boundary line of a road known as Miracle Lane as occupied and evidenced on the ground

THENCE S. 30° 59' 37" E., 90.00 feet with the said east boundary line (calls S. 30° 59' 37" E., 890.61 feet) and with the west boundary line of the said 2.0 acre tract and with the said west boundary line of Miracle Lane to a 3/8" iron rod found being the southeast corner of the said 54.449 acre tract and being an interior ell corner of the said 2.0 acre tract for corner;

THENCE S. 58° 46' 18" W., 467.72 feet departing the said west boundary line of Miracle Lane and with the southerly boundary line of the said 54.449 acre tract (calls S. 58° 46' 18" W., 467.72 feet) and with a north boundary line of the said 2.0 acre tract to the Point of BEGINNING and containing 0.951 acres of land.

Unofficial Copy

PERMITTED EXCEPTIONS

(Exhibit "B" to Special Warranty Deed)

1. Easement granted to Texas Power & Light Company dated August 23, 1954, recorded in Volume 751, Page 569 of the Deed Records of McLennan County, Texas.

FILED AND RECORDED

OFFICIAL PUBLIC RECORDS



J. A. "Andy" Harwell, County Clerk
09/01/2015 02:57 PM
Fee: \$32.00
2015027332 DEED
McLennan County, Texas

TAX CERTIFICATE



RANDY H. RIGGS, CPA, PCC
MCCLENNAN COUNTY TAX-ASSESSOR COLLECTOR
P.O. BOX 406
WACO, TEXAS 76703

Issued To:

GUY SLIMP
259 HILLIARD RD
TEMPLE, TX 76502

Legal Description

PREWITT LEVI ACRES 4.253

Fiduciary Number: 34598320

Parcel Address: 20102 S IH 35

Legal Acres: 4.2530

Account Number: 16-040500-006101-6

Deposit No.: TC240508

Print Date: 05/08/2024 11:07:21 AM

Certificate No: 250449344

Paid Date: 05/08/2024

Certificate Fee: \$10.00

CASH

Issue Date: 05/08/2024

Operator ID: VLANE

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 AND 11.43(i) OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2023, AND THERE ARE NO TAXES DUE ON THIS PROPERTY.

Exemptions:

Certified Owner:

FIKES WHOLESALE INC
CEFCO# 47
PO BOX 1287
TEMPLE, TX 76503-1287

Certified Tax Unit(s):

1 COUNTY OF MCCLENNAN
3 MCCLENNAN COMMUNITY COLLEGE
16 BRUCEVILLE-EDDY ISD
56 CITY OF BRUCEVILLE-EDDY

2023 Value:	100,980
2023 Levy:	\$1,837.02
2023 Levy Balance:	\$0.00
Prior Year Levy Balance:	\$0.00
Total Levy Due:	\$0.00
P&I + Attorney Fee:	\$0.00
Total Amount Due:	\$0.00

COPY

Reference (GF) No: N/A

Issued By: *Vanessa Soto*
RANDY H. RIGGS, CPA, PCC
MCCLENNAN COUNTY TAX-ASSESSOR COLLECTOR

TAX CERTIFICATE



RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR
P.O. BOX 406
WACO, TEXAS 76703

Issued To:

GUY SLIMP
259 HILLIARD RD
TEMPLE, TX 76502

Legal Description

PREWITT LEVI ACRES 4.253

Fiduciary Number: 34598320

Parcel Address: 20102 S IH 35

Legal Acres: 4.2530

Account Number: 16-040500-006101-6

Deposit No.: TC240508

Print Date: 05/08/2024 11:07:21 AM

Certificate No: 250449344

Paid Date: 05/08/2024

Certificate Fee: \$10.00

CASH

Issue Date: 05/08/2024

Operator ID: VLANE

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 AND 11.43(i) OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2023, AND THERE ARE NO TAXES DUE ON THIS PROPERTY.

Exemptions:

Certified Owner:

FIKES WHOLESale INC
CEFCO# 47
PO BOX 1287
TEMPLE, TX 76503-1287

Certified Tax Unit(s):

1 COUNTY OF MCLENNAN
3 MCLENNAN COMMUNITY COLLEGE
16 BRUCEVILLE-EDDY ISD
56 CITY OF BRUCEVILLE-EDDY

2023 Value:	100,980
2023 Levy:	\$1,837.02
2023 Levy Balance:	\$0.00
Prior Year Levy Balance:	\$0.00
Total Levy Due:	\$0.00
P&I + Attorney Fee:	\$0.00
Total Amount Due:	\$0.00

Reference (GF) No: N/A

Issued By: *Janessa Soto*
RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR

TAX CERTIFICATE



RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR
P.O. BOX 406
WACO, TEXAS 76703

Issued To:

GUY SLIMP
259 HILLIARD RD
TEMPLE, TX 76502

Legal Description

PREWITT LEVI ACRES .951

Fiduciary Number: 34598320

Parcel Address: 20102 S IH 35 -REAR

Legal Acres: .9510

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Account Number: 16-040500-005908-0

Deposit No.: TC240508

Print Date: 05/08/2024 11:03:30 AM

Certificate No: 250449340

Paid Date: 05/08/2024

Certificate Fee: \$10.00

CASH

Issue Date: 05/08/2024

Operator ID: VLANE

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 AND 11.43(i) OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2023, AND THERE ARE NO TAXES DUE ON THIS PROPERTY.

Exemptions:

Certified Owner:

FIKES WHOLESALE INC
6261 CENTRAL POINTE PKWY
TEMPLE, TX 76504-2613

Certified Tax Unit(s):

1 COUNTY OF MCLENNAN
3 MCLENNAN COMMUNITY COLLEGE
16 BRUCEVILLE-EDDY ISD
56 CITY OF BRUCEVILLE-EDDY

2023 Value:	19,720
2023 Levy:	\$358.74
2023 Levy Balance:	\$0.00
Prior Year Levy Balance:	\$0.00
Total Levy Due:	\$0.00
P&I + Attorney Fee:	\$0.00
Total Amount Due:	\$0.00

Reference (GF) No: N/A

Issued By: *Vanessa Soto*
RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR

TAX CERTIFICATE



RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR
P.O. BOX 406
WACO, TEXAS 76703

Issued To:

GUY SLIMP
259 HILLIARD RD
TEMPLE, TX 76502

Legal Description

PREWITT LEVI ACRES .951

Fiduciary Number: 34598320

Parcel Address: 20102 S IH 35 -REAR

Legal Acres: .9510

Account Number: 16-040500-005908-0

Print Date: 05/08/2024 11:03:30 AM

Deposit No.: TC240508

Paid Date: 05/08/2024

Certificate No: 250449340

Issue Date: 05/08/2024

Certificate Fee: \$10.00

CASH

Operator ID: VLANE

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 AND 11.43(i) OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2023, AND THERE ARE NO TAXES DUE ON THIS PROPERTY.

Exemptions:

Certified Owner:

FIKES WHOLESALE INC
6261 CENTRAL POINTE PKWY
TEMPLE, TX 76504-2613

Certified Tax Unit(s):

1 COUNTY OF MCLENNAN
3 MCLENNAN COMMUNITY COLLEGE
16 BRUCEVILLE-EDDY ISD
56 CITY OF BRUCEVILLE-EDDY

2023 Value:	19,720
2023 Levy:	\$358.74
2023 Levy Balance:	\$0.00
Prior Year Levy Balance:	\$0.00
Total Levy Due:	\$0.00
P&I + Attorney Fee:	\$0.00
Total Amount Due:	\$0.00

COPY

Reference (GF) No: N/A

Issued By: *Randy H. Riggs*
RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR

TAX CERTIFICATE



RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR
P.O. BOX 406
WACO, TEXAS 76703

Issued To:

GUY SLIMP
259 HILLIARD RD
TEMPLE, TX 76502

Legal Description

PREWITT LEVI ACRES 14.221

Fiduciary Number: 34598320

Parcel Address: 20102 S IH 35

Legal Acres: 14.2210

Account Number: 16-040500-005906-0

Deposit No.: TC240508

Print Date: 05/08/2024 11:10:09 AM

Certificate No: 250449345

Paid Date: 05/08/2024

Certificate Fee: \$10.00

CASH

Issue Date: 05/08/2024

Operator ID: VLANE

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 26.15 AND 11.43(i) OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2023, AND THERE ARE NO TAXES DUE ON THIS PROPERTY.

Exemptions:

Certified Owner:

FIKES WHOLESALE INC
6261 CENTRAL POINTE PKWY
TEMPLE, TX 76504-2613

Certified Tax Unit(s):

1 COUNTY OF MCLENNAN
3 MCLENNAN COMMUNITY COLLEGE
16 BRUCEVILLE-EDDY ISD
56 CITY OF BRUCEVILLE-EDDY

2023 Value:	294,870
2023 Levy:	\$5,364.23
2023 Levy Balance:	\$0.00
Prior Year Levy Balance:	\$0.00
Total Levy Due:	\$0.00
P&I + Attorney Fee:	\$0.00
Total Amount Due:	\$0.00

COPY

Reference (GR) No: N/A

Issued By:

RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR

TAX CERTIFICATE



RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR
P.O. BOX 406
WACO, TEXAS 76703

Issued To:

GUY SLIMP
259 HILLIARD RD
TEMPLE, TX 76502

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PREWITT LEVI ACRES 14.221

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FIKES WHOLESALE INC
6261 CENTRAL POINTE PKWY
TEMPLE, TX 76504-2613

Certified Tax Unit(s):

1 COUNTY OF MCLENNAN
3 MCLENNAN COMMUNITY COLLEGE
16 BRUCEVILLE-EDDY ISD
56 CITY OF BRUCEVILLE-EDDY

Table with 2 columns: Description, Amount. Rows include 2023 Value, 2023 Levy, 2023 Levy Balance, Prior Year Levy Balance, Total Levy Due, P&I + Attorney Fee, Total Amount Due.

Reference (GR) No: N/A

Issued By:

Handwritten signature of Randy H. Riggs

RANDY H. RIGGS, CPA, PCC
MCLENNAN COUNTY TAX-ASSESSOR COLLECTOR



Police Department

143 Wilcox Dr.
Eddy, TX 76524

www.bruceville-eddy.us

Phone: 254-859-5072
Fax: 254-859-5258

Police Department Activity Report: April 1, 2024 – April 30, 2024

Calls for Service: Total 118

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
33	27	10	31	17

Arrest, Offense, Incident Reports: Total 14

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
3	4	4	3	0

Criminal Offense Arrests: Total 10

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
3	7	0	0	0

Crash Reports: Total 9

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
4	2	0	1	2

Citations & Warnings: Total 334

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
16 citations 1 warning	58 citations 27 warnings	13 citations 10 warnings	11 citations 5 warnings	148 citations 45 warnings

Citations Total: 246**Warnings Total: 88**



Police Department

143 Wilcox Dr.
Eddy, TX 76524

www.bruceville-eddy.us

Phone: 254-859-5072
Fax: 254-859-5258

Police Department Activity Report: April 1, 2024 – April 30, 2024

Security Checks: 190

School Zone Enforcement: 21

Neighborhood Patrol: 48

Directed Traffic Enforcement: 36

Call Type Report

BRUCEVILLE-EDDY POLICE DEPARTMENT

From: APR. 1, 2024
To: APR. 30, 2024

Call Type Description	Number of Calls
ABANDONED VEHICLE	3
AGENCY ASSIST BRUCEVILLE-EDDY FIRE	2
AGENCY ASSIST BRUCEVILLE-EDDY PD	10
AGENCY ASSIST FALLS COUNTY SHERIFFS OFFICE	1
AGENCY ASSIST LORENA PD	3
AGENCY ASSIST MCLENNAN COUNTY SHERIFFS OFFICE	2
AGENCY ASSIST MOODY PD	5
AGENCY ASSIST OTHER OUTSIDE AGENCY	5
AGENCY ASSIST TROY PD	1
ASSAULT	3
ASSISTANCE	2
CHECK	1
CHILD CUSTODY	1
CITIZEN ASSIST	2
CITIZEN CONTACT	1
CREDIT CARD ABUSE	1
CRIMINAL MISCHIEF	1
CRIMINAL TRESPASS	1
DEATH INVESTIGATION	1
DISABLED VEHICLE	2
DISTURBANCE	2
DOMESTIC DISTURBANCE	3
FOLLOW UP INVESTIGATION	8
HARASSMENT	1
ILLEGAL DUMPING	1
MAN DOWN	1
MOTOR VEHICLE COLLISION	6
MOTORIST ASSIST	3
PATROL WATCH	2
POSSESSION OF CONTROLLED SUBSTANCE	1
PURSUIT	2

RECOVERED STOLEN VEHICLE	1
SUICIDAL SUBJECT	1
SUSPICIOUS CIRCUMSTANCE	3
SUSPICIOUS PERSON	4
SUSPICIOUS VEHICLE	5
TERRORISTIC THREATS	1
THEFT	3
TRAFFIC CONTROL	2
TRAFFIC HAZARD	12
UNAUTHORIZED USE OF M/VEH	1
WARRANT SERVICE	3
WELFARE CONCERN	5

Speeding (exceed Prima Facie limit at time and place for that type vehicle) (Verbal Warning)
Speeding (exceed Prima Facie limit at time and place for that type vehicle) (Verbal Warning)
Speeding (exceed Prima Facie limit at time and place for that type vehicle) (Verbal Warning)
Speeding (exceed Prima Facie limit at time and place for that type vehicle) (Verbal Warning)
Speeding (exceed Prima Facie limit at time and place for that type vehicle) (Verbal Warning)
Expired Registration (Verbal Warning)
IMPROPERLY DISPLAYED 30 DAY OR ONE-TRIP PERMIT (Verbal Warning)
Possession of Drug Paraphernalia (Verbal Warning)
Wrong, Altered, or Obscured License Plate (Warning)
Improper lane change (Verbal Warning)
Expired Registration (Warning)
Failed to Maintain Financial Responsibility (Warning)
IMPROPERLY DISPLAYED 30 DAY OR ONE-TRIP PERMIT (Verbal Warning)
Restricted Access (Verbal Warning)
Restricted Access (Verbal Warning)
Restricted Access (Verbal Warning)
Expired Registration (Verbal Warning)
Restricted Access (Verbal Warning)
Speeding (exceed Prima Facie limit at time and place for that type vehicle) (Verbal Warning)
Failed to Signal Lane Change (Verbal Warning)
Defective Tail Lamp(s) (Verbal Warning)
Defective Tail Lamp(s) (Verbal Warning)
IMPROPERLY DISPLAYED 30 DAY OR ONE-TRIP PERMIT (Verbal Warning)
No Drivers License (when unlicensed) (Warning)
Expired Registration (Verbal Warning)
Defective Head Lamp(s) (Verbal Warning)

INTERSTATE HIGHWAY 35 MILE MARKER 317
INTERSTATE HIGHWAY 35 MILE MARKER 317 FRONTAGE RD
INTERSTATE HIGHWAY 35 MILE MARKER 317 FRONTAGE RD
INTERSTATE HIGHWAY 35 MILE MARKER 317 FRONTAGE RD
INTERSTATE HIGHWAY 35 MILE MARKER 318
INTERSTATE HIGHWAY 35 MILE MARKER 318
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INTERSTATE HIGHWAY 35 MILE MARKER 318
INTERSTATE HIGHWAY 35 MILE MARKER 318 FRONTAGE ROA
INTERSTATE HIGHWAY 35 MILE MARKER 319
INTERSTATE HIGHWAY 35 MILE MARKER 319
INTERSTATE HIGHWAY 35 MILE MARKER 319
INTERSTATE HIGHWAY 35 MILE MARKER 319
W 3RD ST / NB INTERSTATE HIGHWAY 35 SERVICE RD
W 3RD ST AT SB IH 35 FRONTAGE ROAD
W THIRD ST & SB IH 35 SERVICE RD



Bruceville-Eddy ISD School Resource Officer

143 Wilcox Dr.
Eddy, TX 76524

www.bruceville-eddy.us

Phone: 254-859-5072
Fax: 254-859-5258

SCHOOL RESOURCE OFFICER ACTIVITY REPORT: April 2, 2024 – April 30, 2024

Calls for Service: 9

Security Checks: 86

Citations & Warnings: 10/0

Arrests: 0

BEISD SRO Monthly Activity Report:

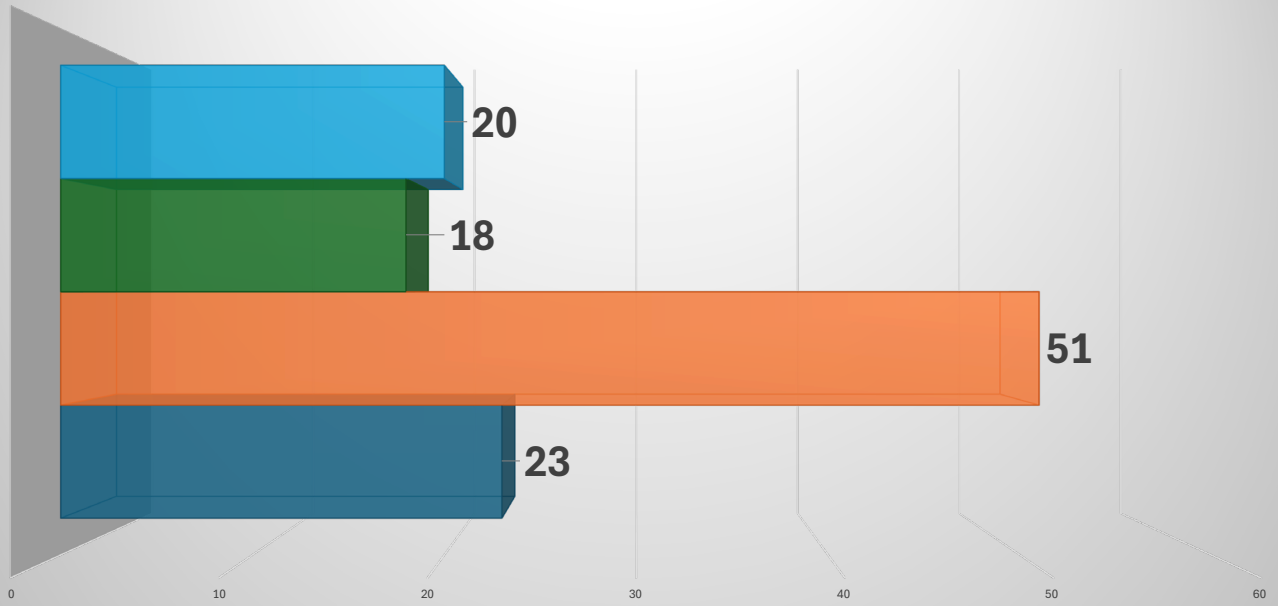
Admin Assist	6
Staff Assist	3
Student Assist	4
Agency Assist	7
Citizen Contact	9
Calls for Service	9
Incident Report	2
Criminal Activity/Offense	3
Suspicious Activity/Person/Circumstances	1
Traffic Complaint	
Traffic Stops	7
Warnings	
Citations	7
Juvenile Complaint	3
Adult Arrest	
Juvenile Arrest	
Warrant Arrest	
Parent Conference	
Welfare Check	
Classes Given	
Total:	61

MONTH OF MAY 2024
CITY ORDINANCE ENFORCEMENT REPORT

COMPLIANT / CLOSED	23
NON-COMPLIANT	51
MORE TIME REQUESTED	18
CITATIONS	20
TOTAL CASES	94

TYPES OF VIOLATIONS	
HIGH GRASS	62
RUBBISH	22
JUNK VEHICLES	12
DANGEROUS BLDG	5
ACC / STORAGE BLDG	2
CARGO CONTAINER	1
LIVESTOCK VIOLATION	1
TOTAL VIOLATIONS	105

City Ordinance Violation Case Status



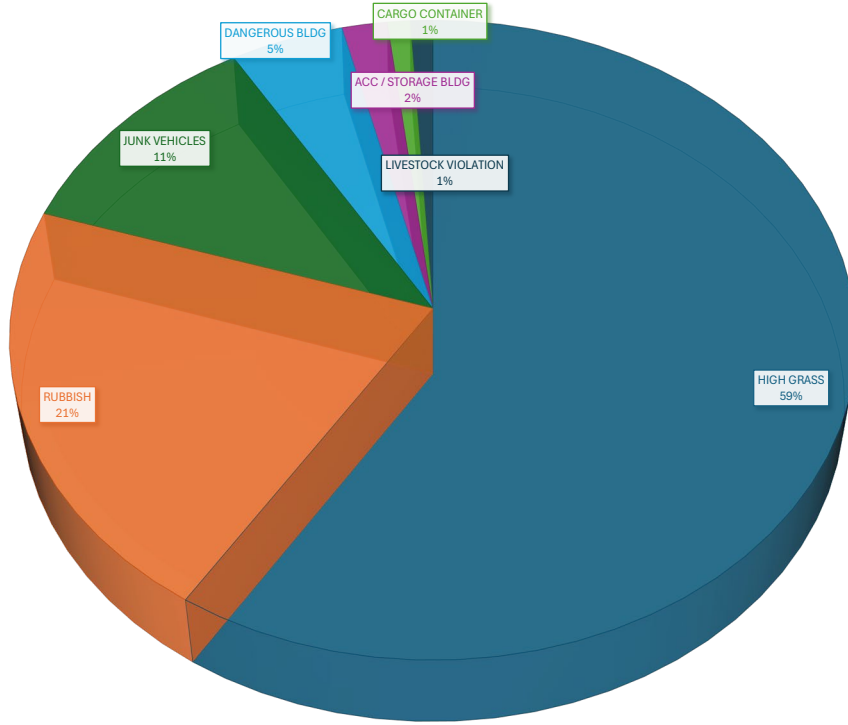
CITATIONS

MORE TIME REQUESTED

NON-COMPLIANT

COMPLIANT / CLOSED

TYPES OF VIOLATIONS



**** TOTALS BY JOB CODE ****

JOB CODE	TOTAL COMPLETED	TOTAL OUTSTANDING	TOTAL NEW	TOTAL PENDING	TOTAL VOID
REREA - REREAD	6	0	0	0	0
OCC - OCCUPANT CHANGE	16	0	0	0	0
STREE - STREETS	4	1	0	0	0
CLEAN - CLEAN UP	2	0	0	0	0
LEAK - FIXED LEAK	13	0	0	0	0
INSTA - INSTALL NEW METER	4	4	0	0	0
INFO - INFORMATION	1	0	0	0	0
FIN - FINAL READ	4	0	0	0	0
CHECK - CHECK FOR LEAK	4	0	0	0	0
TURN - TURN OFF WATER	1	0	0	0	0
LOCA - LINE LOCATE	6	0	0	0	0
CUST - CSI	1	7	0	0	0
REPL - REPLACE METER BOX	0	1	0	0	0
SWAP - METER CHANGE	3	0	0	0	0
MISC - MISCELLANEOUS	18	6	3	0	2
DIS - DISCONNECT	5	0	0	0	3
GRAPH - GRAPH	3	0	0	0	0
TRASH - TRASH CANS	4	0	0	0	0
NON - NON-PAYMENT TURN OFF	22	0	0	0	64
CON - CONNECT	2	0	0	0	2
REIN - REINSTATE	15	1	0	0	0
PUL - PULL METER	1	0	0	0	0
TOTAL ALL CODES	135	20	3	0	71

4/2024	USAGE	METERS	USAGE BREAKDOWN	ACCOUNTS	AVERAGE
PUMPED	25,989,000		0-0	234	0
FLUSHED	4,282,000		1-9,999,999,999	1,814	6,951
USED	12,610,239	2,048	TOTAL	2,048	6,157
UNBILLED	0	0			
LOSS	9,096,761				
LOSS PERCENTAGE	35.00 %				

1 MONTH TOTALS			
TOTAL PUMPED	25,989,000	AVERAGE PUMPED	25,989,000
TOTAL SOLD	12,610,239	AVERAGE SOLD	12,610,239
TOTAL FLUSHED	4,282,000	AVERAGE FLUSHED	4,282,000
TOTAL LOSS	9,096,761	AVERAGE LOSS	9,096,761
LOSS PERCENTAGE	35.00 %	AVERAGE LOSS PERCENTAGE	35.00 %
TOTAL UNBILLED	0	AVERAGE UNBILLED	0

Definitions

Total Pumped: This is the culmination of our daily meter readings from the past month on ALL groundwater well sites as well as the intake from Bluebonnet WSC.

Total Sold: This is the amount of water that was billed to customers and will be collected as water sales revenue.

Total Flushed: This number is comprised of staff estimates on water loss from known leaks, flushing activities, an allocation for the volunteer fire departments operations, and our unbilled accounts' actual meter readings (City facilities).

Total Loss: This is the remaining water that is currently unaccounted for in our water system from the previous month. This water is going out the door via leaks, flushing, faulty meters, and any possibly illegal connections.

April
 - Month -

12 MONTH TOTALS			
TOTAL PUMPED	309,459,000	AVERAGE PUMPED	25,788,250
TOTAL SOLD	167,456,633	AVERAGE SOLD	13,954,719
TOTAL FLUSHED	45,442,200	AVERAGE FLUSHED	3,786,850
TOTAL LOSS	96,560,167	AVERAGE LOSS	8,046,681
LOSS PERCENTAGE	31.20 %	AVERAGE LOSS PERCENTAGE	31.20 %
TOTAL UNBILLED	0	AVERAGE UNBILLED	0

Definitions

Total Pumped: This is the culmination of our daily meter readings from the past month on ALL groundwater well sites as well as the intake from Bluebonnet WSC.

Total Sold: This is the amount of water that was billed to customers and will be collected as water sales revenue.

Total Flushed: This number is comprised of staff estimates on water loss from known leaks, flushing activities, an allocation for the volunteer fire departments operations, and our unbilled accounts' actual meter readings (City facilities).

Total Loss: This is the remaining water that is currently unaccounted for in our water system from the previous month. This water is going out the door via leaks, flushing, faulty meters, and any possibly illegal connections.

YTD

END OF THE MONTH WATER LOSS	
Apr-24	
<u>WELLS: (3/23/24 – 04/23/24)</u>	
#2721 TOLBERT	12,529,000
#2723 BLUEBONNET	13,460,000
#2722 WESTRIDGE	0
#2724 FRIENDLY OAKS	0
TOTAL GALLONS PUMPED:	25,989,000
<u>WATER "FLUSHING":</u>	
MANUAL ENTRY CONS. METER (BILLED)	790,000
#39 DUTY PARK	2,800
#335 B-E MAIN. BLDG	1,800
#1115 MUNICIPAL	1,700
#1112 NEW CITY HALL	900
#1114 EMS/FIRE	800
WATER LOSS WORK ORDERS	2,300,000
FIRE DEPT	150,000
FLUSHING	970,000
COUNTY	63,600
TOTAL WATER "FLUSHING":	4,282,000

	Street Patching		
Date:	Street:	Worked Done By:	
04-21-22	Ashley	KL/JG/RS	
05-19-22	Benton	JG/KL	
06-13-22	Hungry Hill	KL/RS/RS/JG	
08-25-22	Old Bruceville	CS/KL/RS	
08-26-22	Franklin	GS/KL/JG	
09-07-22	Archie	KL/CS/RS	
09-07-22	Mesquite	KL/RS/CS	
09-07-22	Church	KL/RS/CS	
09-07-22	First St	KL/RS/CS	
09-07-22	Grider	KL/RS/CS	
09-08-22	Temple	JG/KL/RS	
09-08-22	Washington	JG/KL/RS	
09-08-22	Ausborn	JG/KL/RS	
09-08-22	Fourth St	JG/KI/RS	
09-08-22	Eagle	JG/KL/RS/CS	
09-26-22	3rd St	GS/CS/RS/JG	replace culvert
09-28-22	Horseshoe Bend	GS/CS/RS/JG	
10-13-22	Hungry Hill	CS/RS/KL/RS	
10-14-22	Hungry Hill	GS/JG/KL/RS	
10-21-22	4th	CS/RS	
10-21-22	Temple	CS/RS	
10-21-22	Benton	CS/RS	
10-21-22	Aspen	CS/RS	
	Trimming	Trees	
11-1-22	Grider & Bruce	JG/KL/RS/GS	
11-1-22	Aspen	JG/KL/RS	
11-1-22	1st	JG/GS	
11-1-22	Benton	JG/KL/RS/GS	
11-1-22	Tatum	Rudy	
11-2-22	Tatum	Rudy	
11-2-22	N. Bruce	JG/KL/RS/GS	
11-8-22	Mackey Ranck	GS/CS/RS/KL/RS	
11-9-22	Mackey Ranch	GS/RS/CS/JG/RS/KL	
	Patching		
12-5-22	Franklin	JG/KL/RS	
12-5-22	Temple	JG/KL/RS	

			August 2023
8-11-23	Eagle Dr	GS/JG/CS/KL/RS	
8/14/23	Franklin	CS/KL/RS	
TREE TRIMMING			August 2023
8/1/23			
8/1/23			
8/3/23			
8/3/23			
	PATCH		October 2023
	10/2	Franklin	JG/GS/KL
	10/2	Eagle	JG/GS/KL
	10/2	Border	JG/GS/KL
	10/2	Ashley	JG/GS/KL
	10/2	Melissa	JG/GS/KL
			December 2023
	12/5	N OLD BRUCEVILLE	CS/RS/KL/RS
	12/5	BRUCE ST	CS/RS/KL/RS
	12/6/23	HUNGRY HILL	CS/RS/RS
			January 2024
		Shady Shore	JG/KL/CS/RS
		Soules Circle	
		Washington 3-4	
		Old Moody	
		Eagle Dr	
		4th Border to Anna Hobbs	
		Franklin Rd	
		Mackey Ranch Rd	
	Demo Patch	Hudson Ln also Eagle Dr	
	2/24	Melissa	GS/RS/KL
	2/24	Old Moody	CS/RS
		Out. of material	
	3/19/24	Hungryhill	CS/RS

	April 2024	Patching	
		Horseshoe Bend	CS/RS
		Soules Cr	CS/RS
		Eagle Dr 2x's	CS/RS
		Hudson	CS/RS
		N Old Bruceville	CS/RS
		Old Moody Rd	CS/RS
		Benton	CS/RS
		Hungry Hill	CS/RS
		Melissa	CS/RS
		Franklin	CS/RS
	May 2024		
		EVERGREEN	CS/RS
		SPRUCE	CS/RS
		EAGLE	CS/JG/GS
		TATUM	CS/RS
		MACKEY RANCH	CS/RS
		OLD MOODY	CS/RS

May 14, 2024

City of Bruceville-Eddy
Mr. Kent Manton
144 Wilcox Drive
Eddy, Texas 76524

RE: CITY OF BRUCEVILLE-EDDY Monthly Engineering Status Report

Mr. Kent Manton,

MRB Group is pleased to provide to the city the following Items in regard to the Monthly Engineering Report. This report includes Engineering Tasks from April 17th through May 15th, 2024.

DEVELOPMENT REVIEW

1. CEFCO – We submitted our final review comments on May 14, 2024. The remainder of comments are related to final plat certifications. We recommend approval of plat pending minor revisions to the Final Plat certifications.

2. Shady Shores Estates – Engineering Review of Preliminary Plat is complete. The approval is contingent upon another variance being granted by Council for an exception of providing the required topographic map for review.

WATER METER FEASIBILITY

We reviewed and (4) water meter investigations. We reviewed (3) residential meter requests and (1) development request. The individual studies included (1) Stevenson 1177 Bruceville Lane, (2) Alam 154 CR 499, (3) Curry 652 Dalrex Rd. The development water feasibility was for the Chandra Chinnan 80-meter water feasibility study. All studies were approved with only minor system upgrades except for 1177 Bruceville Lane, which is currently subject to an active water meter moratorium. This request is located within an area requiring significant system upgrades.

GENERAL DISCUSSION ITEMS

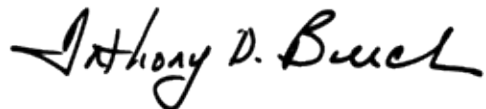
1. Water System 8" Water main Improvements: We have submitted revised plans to TxDOT on May 10, 2024, for permit consideration. We plan to begin bid advertising for the project in late May 2024. We plan to coordinate a bid opening date with staff the week of May 20, 2024. We recommend commencing of bid advertisement prior to

permit award but refrain from construction contract award until TxDOT permits are in hand. We anticipate contract award in late June, 2024. The overall construction schedule for this project is estimated to be 8 months or a substantial completion date of March 2025. This schedule is subject to the administrative schedule required by the TxDOT permit division to review and approve permit applications.

2. New Water Well: This project is in a holding pattern until funds are appropriated by the city. The cost estimate for the project is approximately 6 million dollars. This cost will fluctuate until final design and a funding mechanism is chosen by the council. The next step would be approving an Engineering proposal to start final design.

If you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Anthony D. Beach". The signature is written in a cursive, flowing style.

Anthony D. Beach, PE CFM
Sr. Project Manager
Anthony.Beach@mrbgroup.com



The City of Bruceville-Eddy Rising into the Future

144 Wilcox Drive
Eddy, Texas 76524

www.bruceville-eddy.u.s

Phone: (254) 859-5964
Fax: (254) 859-5779

City Administrators Report: 5/23/2024

4th Street Speed Control Survey

Approximately 40 surveys requested by Council at the 3/28/2024 meeting were mailed out to homeowners along 4th street. To date we have received eight responses. I plan on bringing the results of this survey before you at June's regular meeting.

Flooding and Drainage

Unfortunately, at least one property in our city still sits below a couple feet of water as a result of the large amounts of rain and runoff we have experienced over the past month or so. The property is located within our Shady Shores subdivision and was built in an active flood plain many years ago. We have coordinated with the National Resource Conservation Service, a branch of the USDA, and have physically verified that the dam is in proper operation.

Gene and I have shored up a work plan to begin addressing some of our observed drainage issues over the next couple months as Bruceville-Eddy begins to dry out. Crews have already begun excavating drainage ditches and we will be purchasing a handful of culverts to replace several that have simply failed. Additionally, we already have a list of culverts in need of maintenance to address. We encourage members of our community to reach out to report a problem with drainage in their area.

Sewer System

Last week's bid openings were more than successful! We received a valid bid on each of our five projects, which is a true celebratory moment for our City! Tabor and Associates has reviewed the submissions to ensure each bid is valid and that everything has been properly tabulated. The apparent low bidders reached a total of \$16,385,130.46. While this number is higher than the revised engineer's OPC, in today's age of projects coming in on the high side, I would call this a WIN!



The City of Bruceville-Eddy Rising into the Future

144 Wilcox Drive
Eddy, Texas 76524

www.bruceville-eddy.u.s

Phone: (254) 859-5964
Fax: (254) 859-5779

We are entering a pivotal time for the new sewer system project over the next couple months. At the 5/23/2024 council meeting we will likely be awarded contracts for the sewer system and formally requested additional funding from USDA for the remaining financial need. With these actions, our loan officer and USDA were able to begin working on their end to prepare the project's second funding package.

Once I have a definitive answer from USDA on additional grant funding for this project, which is expected in early June, I will be able to provide you with our proposed rate structure for the base bid connection list.

Sewer Project's Upcoming Timeline

5/15/2024: Presentation of bids and award recommendations

5/23/2024: Council to award contracts and request additional funding from USDA

6/1 – 6/15/2024: USDA will inform us of our ability to secure any additional grant funding for this project

6/6/2024: Council to approve reworked certificate of obligation for sewer funding from our bond attorney

6/19/2024: BABAA Waiver expires, additional funding must be obligated prior to this date to prevent an inevitable rise in costs due to additional purchasing and sourcing requirements

Water System

Water System Lighting Strike

Alliance has the repairs to the Ford plant on their schedule and are awaiting all parts to come in before starting work. Work was anticipated to commence the week of 5/13/2024.



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Westridge Well

Westridge grounding work was quickly executed by T. Morales. Both T. Morales and Jurgensen Pump traveled to the site on 5/15/2024 to energize so that our crews could begin flushing operations prior to getting the well back online. These actions will provide some relief on our system's purchases from Bluebonnet WSC while also setting us up to sample for PFAS.

Friendly Oaks Well

We finally received word from Franklin motor on our October 2023 warranty claim. Jergensen has issued full credit to our account as a result.

T. Morales has been coordinating with SKE on the electrical issues at this site and has prepared a proposal for \$2,800 to finish the engineer's recommendations at this site which I have approved.

The motor and pump were pulled 5/11/2024 and it appears that the cable is in good working order. There were no signs of a lightning strike or major surge. The pump will be evaluated to see if it is fit to be returned to the hole with the new motor which is currently on order.

Falls County Improvements

Plans for the F.M. 1239 project are at 100% complete and we are awaiting a R.O.W. permit approval from TXDOT. The State did request additional documentation earlier this month to which our engineering team has responded. We have worked with our engineers to establish a bid advertisement date starting on the 23rd of May with an opening date of June 13th.



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New Falls County Water Well

Our engineers have confirmed the exact location of the proposed new water well upon the selected site. I have not yet gotten around to creating the proposed terms sheet for the property owners but expect to have this to them for review and consideration by the end of June as I have currently shifted priorities back to sewer system tasks during this crunch time.

Committee/Board Updates

Infrastructure Planning Committee

IPC gathered on 4/29/2024 for what turned out to be a very fruitful meeting. Members received updates on past agenda items and the City's current infrastructure projects.

One of the prominent agenda items was the discussion of our financial advisors' recommendation to order a rate analysis for our water system to ensure that our present structure can adequately service current operations and future debt servicing goals. Representatives from MRB Group, while capable of performing this service, recommended looking into joining Texas Rural Water Association as they offer a basic rate analysis as a technical service to their members. Going this route would save the water system a significant amount of money. Membership had already been on my radar for discussion with next year's budget proposals as they also offer assistance with leak detection and emergency operations. This action item has been added to tonight's agenda for consideration.

The committee also discussed the need to establish Impact Fees for future developers to help offset the costs associated with building and maintaining infrastructure. The committee agreed that now is the time to begin this process before we are inundated with development requests. MRB Group is preparing a proposal for a Capital Improvements Plan, which is a legal requirement needed for the establishment of impact fees in Texas.

Members also discussed the need for sourcing a rolling generator for our water system to provide emergency operations in the case of a major power outage. Members have requested that we engage with SKE Electrical Engineering to have them come up with a proposal for a system design and a recommendation for purchase. We are working to get this done by the end of the fiscal year as we have this purchase budgetted for 2023-2024.

Lastly, members discussed the need to begin looking into alternatives to our current solid waste removal vendor.



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Solar Eclipse Committee

We will be scheduling a debrief meeting in the coming weeks.

Street Repair Committee

Absolved until FY 2024-2025. ILA with McLennan County was approved and work is currently underway on Pine Street.

Economic Development Corporation

By-laws have been signed by President Weaver and the revised certificate of formation has been submitted to the Texas Secretary of State for review and processing.

Directors joined Lorena EDC for an audit/tour of their 5/14/2024 meeting. Vice-Chair Wetzel and other members were more than welcoming and took extra time out of their evening to engage with and encourage our newly appointed board members.

Budget Committee

Department head funding requests have been sent out. We are working to kick off our first meeting on 5/30/2024.

Development

Commercial Activity

Kissing Tree building will now be used as a wedding venue. Their plan is to utilize the BnBs on Market Street to house wedding party members during events.

Check out their website for more information: <https://thelonestarmanor.com/our-story/>



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Little Eagles Daycare is finalizing documentation with the Department of State Health Services and will be scheduling an inspection shortly. My understanding is this is one of the final hurdles needed before the business can get up and running!

WBW (Fowler Land):

No additional information at this time.

KBAR - Eagle Ranch:

The developer is currently working on their construction documents and final plat.

BE Travel Center (Ascent):

Owners are currently working with TXDOT to iron out land donation requirements and finalize any remaining requirements associated with their permit. No other updates at this time.

CEFCO:

Final plat and construction plans before you tonight.

RV Parks – Brown Drive, Bruce Street, Hodge Road

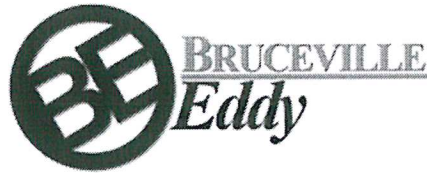
No additional information at this time.

Deer Creek MUD

No additional information at this time.

Youth Sports Complex/Facilities

No additional information at this time.



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**Regular City Council Meeting
April 25, 2024, 6:00 p.m.
Minutes**

1. Meeting called to order by Mayor Owens at 6:00 pm

Council members present: Graham McGruer-Mayor Pro-Tem, Ricky Wiggins, Joyce McGlothlin, Richard Prater, and Cecil Griffin

Staff Present: Kent Manton-City Administrator, Pam Combs-City Secretary, Chief Dorsey, Jannie Rodriquez-Water Clerk, and Gene Sprouse-Public Works Director

2. Community Announcements

National Day of Prayer: May 2nd, 6:00 pm, Bingo BEUMC Family Life Center: May 3rd, 6:30 pm, Sewer Bid opening: May 9th, 10:00 am, Family Spring Fest: May 18th, 9:00 am-3:00 pm

3. Citizen Presentations

The City Council welcomes public comments at this point on items **not** specifically listed on the agenda. Speakers must sign up before the meeting begins. Speakers are limited to five (5) minutes each. The Council cannot respond to matters not listed on the agenda until a future meeting.

Council Meeting adjourned and Public Hearing in session at 6:07 pm

4. Open Public Hearing – Zoning Change from Single-Family Dwelling District-1 to Single-Family Dwelling District-3: 901 Eagle Drive Eddy, Texas 76524

Council to hear public comments pertaining to an owner/agent initiated zoning change on property located at 901 Eagle Drive Eddy, Texas 76524, containing a total of 122.46 acres; and further described as being located within the City limits of Bruceville-Eddy; and in-between Eagle Drive and Old Moody Road from its current designation of Single-Family Dwelling District-1 to Single-Family Dwelling District-3

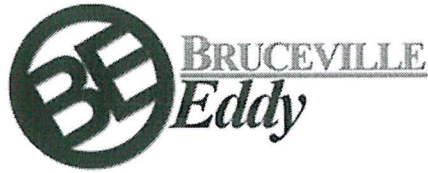
The public hearing is open to any interested persons with opinions, objections, and/or comments related to this matter. Comments related to this matter may only be expressed via mail, e-mail or, by appearing in person.

Another person or attorney may also represent you.

6 citizens got up at the council meeting stated they did not want anything less than a SF-1 zoning.

5. Close Public Hearing – Zoning Change from Single-Family Dwelling District-1 to Single-Family Dwelling District-3: 901 Eagle Drive Eddy, Texas 76524

Public Hearing adjourned and Council Meeting back in session at 6:09pm



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6. Zoning Change from Single-Family Dwelling District-1 to Single-Family Dwelling District-3: 901 Eagle Drive Eddy, Texas 76524

At the request of an agent of the property owner, Council to discuss, consider, and possibly take action to approve ordinance 4-25-2024-1; changing the zoning classification on property located at 901 Eagle Drive Eddy, Texas 76524, containing a total of 122.46 acres; and further described as being located within the City limits of Bruceville-Eddy; and in-between Eagle Drive and Old Moody Road from its current designation of Single-Family Dwelling District-1 to Single-Family Dwelling District-3; and amending the official Zoning Map and comprehensive plan of the City of Bruceville-Eddy, McLennan County, Texas to rightly reflect said changes.

Motion made by Ricky Wiggins that we deny Ordinance 4-25-2024-1; changing the zoning from SF-1 to a SF-3, 2nd by Richard Prater, yeas 5, nay 0, motion passes

**7. Police Chief's Report – Chief Michael Dorsey
See attachment "A"**

8. Public Works Director's Report – Gene Sprouse

**9. Engineering Reports
See attachment "B"**

10. City Administrator's Report – Kent Manton

City Administrators Report: 4/25/2024

115 Hungry Hill Road – Real Estate Auction

Auction is currently underway and is set to end at 10 a.m. on 4/30/2024 with a closing date set for 5/3/2024. We have already received at least one bidder on the property.

Check out the link below or visit [Renewebates.com](https://renewebates.com) directly for the details:

[Rene Bates Auction Link](#)

April 9th Storm and Flooding

Bruceville-Eddy received 4-5 inches of rain over a 24-hour period starting 4/9/2024. The region was in no doubt in need of the rain, but getting all of this so quickly resulted in our current infrastructure being maxed out and several roads having to be closed as a result. PW crews and our Police Department were busy responding to protect life by diverting drivers to alternate routes.

Speaking with our engineers this week, a neighboring community that received 7 inches was estimated to have experienced a 40-year flood event. This means that we likely experienced a 20–25-year event ourselves. It is my opinion that while far from perfect, our infrastructure is in fact equipped to handle normal rainfall events including surges from inundating rains.



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All in all, we have identified several areas in need of maintenance. I will be working with our Public Works team to execute some clearing and dredge work in the coming months. I will also be recommending culvert replacements in next year's FY budget to help prepare us for future events.

Scholarship for Certified Public Manager

Earlier this year I was selected as a finalist for the highly competitive TCMA Barney L. Knight Texas CPM Scholarship. I have since been chosen as one of two 2024 awardees! Please see attached award notification. Over the next two years I will be attending hybrid classes through Texas State University – Round Rock in pursuit of the Certified Public Manager designation.

Sewer System

First and foremost, Tabor has advised both USDA and COBE that the bid opening date needed to be moved to May 9th, 2024 to allow for more time to receive properly prepared and competitive bids from potential contractors. Please note that the bid opening on 4/18/2024 has been cancelled. The bid opening will take place at City Hall at 10 a.m. on May 9th, 2024.

Please see the comments below from Tabor and Associates:

After receiving USDA RD approval to rebid the New Sewer System project with a reduced scope of work, Advertisement for Bids was published on 3-28-2024 and 4-4-2024. All five construction contracts (plans, contract documents and specifications, and bid package) are listed on Civcast (civcastusa.com).

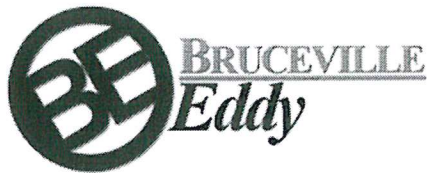
On April 3rd, we issued Addendum No. 1 for each contract which changed the bid date to May 9, 2024 to allow prospective bidders and suppliers a longer bid preparation time with the goal to receive multiple competitive bids for an affordable new sewer system for the City of Bruceville-Eddy. This change was approved by USDA RD.

Secondly, the TXDOT permit updates for this project have been approved.

Third, as mentioned previously, Dan Plietz, our long-term bond counsel on this project (Naman, Howell, Smith, and Lee) has now retired. Andrew Clark will be picking up the ball. He has past experience with USDA loans and is not new to the bond counsel role.

Fourth, the Mayor and I were able to meet with staffers from Pete Sessions office. They will be adding the sewer project to their short list of funding requests for next year's congressional allocation and preparing a letter of support for our project for the time being.

I was also able to host a phone call with Terri and Andrew this past month and we decided it appropriate to go ahead and start the legal process needed to secure additional loan funds should we be unable to secure



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additional grant funding via USDA. Texas law requires an initial notice of intent be voted upon by City Council before publishing notice on our website and in the Waco Tribune-Herald. After this step is completed, a mandatory 45 day waiting period begins before the city can officially adopt any ordinance for the issuance of debt. I have scheduled the meeting to adopt for 6/6/2024 at 6 p.m.

In the notice you will see that we have increased our total bond amount from the original \$5,861,000 that was approved in 2017 and reapproved last year, to a total of \$15,861,000. We are adding an additional \$10 million to this funding instrument to give us flexibility to meet the full amount of the engineer's opinion of probable cost (OPC) that was issued earlier this year. This does not mean that if the project comes in for less than this amount and we are able to receive additional grant funding for the project that we MUST take all the notice amount. This simply gives us the ability to do so in a legal sense.

On the realistic side of this, since we are reducing our connection counts by half on the base bid, and the fact that this project has almost doubled in cost since inception, it is highly unlikely that we will be able to deliver affordable sewer rates if we are not able to secure additional grant funding.

On this note, as of last week Terri has informed me that her state office has still not gotten the information from the federal office on how much money Texas is being awarded this funding year... She is confident that she will have this information and an answer on how much additional grant funding can be given to this project prior to our 6/6/2024 meeting to adopt.

Please note that any additional funds (loan or grant) for this project still need to be awarded prior to June 19th, 2024 to be exempt from the Build America, By America requirements which would drive up costs on the project significantly.

Water System

Water System Lighting Strike

During this month's storms, our crews took Tolbert well offline to prevent any electrical failures and it's a good thing they did! Our Ford plant site, located off Hudson was hit by a verified

lighting strike. A public works employee was onsite when the bolt hit the facility and burned up numerous electrical components. Thankfully no one was injured! On top of this, Bluebonnet WSC also went down for several hours. For a brief period of time, our water system was running solely off water storage in our tanks.

Alliance Electrical was able to make it out and crews have since been able to create a bypass electrical panel that allows us to manually operate our booster pumps. Keep in mind that there may be other issues at this site that come to light down the road as further damage may take time to reveal itself.



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For the time being, our crews are having to physically check each storage tank multiple times a day to ensure water levels are properly maintained in the absence of some of our automated features.

Falls County Improvements

MRB Group is working through comments from TXDOT on the R.O.W. permit for the priority 1 water line improvements along FM 1239. Plans are now at 90% completion for this project. City staff expect the plans to be sent our way over the next couple weeks for review.

Water Restrictions

Bluebonnet WSC has informed us that they will likely be reducing water restrictions from the current Stage 2 to Stage 1 in the coming weeks after they are given the go ahead from the Brazos River Authority. Lake Belton is now at 75% capacity as of 4/17/2024, up from 69% the prior week. We will ensure to blast this out on our water bills and Savvy Citizen as further direction is given.

New Falls County Water Well

We hosted initial discussions with the property owners for the selected site this past month. There were some questions on the specific location for the proposed new water well on the site and our engineers are now working with the hydraulic engineer to confirm.

Once this is ironed out, property owners will be provided with a simple terms sheet to continue discussions towards a proposed agreement for Council's review and action.

On a final note, property owners are open to various access routes for the new site, with conditions.

AMPSS Update

Last year we applied for the Asset Management Program for Small Systems funding opportunity via TWDB. We were recently informed that we did not get selected this round.

Committee/Board Updates

Infrastructure Planning Committee

Planning a committee meeting for April 29th to discuss, among other topics, financing for current and future capital projects.

Solar Eclipse Committee



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The Solar Eclipse Committee has successfully completed its mission of planning for and preparing the city for the potential influx of visitors associated with the total solar eclipse. While the region did not experience anywhere near the estimated number of tourists, most likely due to weather conditions, the planning was certainly not in vain as it is always better to have a plan and not need it, than to not plan at all.

A final debriefing meeting will be set to discuss what went well and what we might consider adjusting for similar events in the future.

Street Repair Committee

Absolved until FY 2024-2025. ILA with McLennan County is approved with work commencing in Spring or Summer.

Economic Development Corporation

No additional updates at this time.

Budget Committee

Esther is diligently working to open up the budget process for next year's planning efforts and we anticipate getting our first meeting scheduled in May.

Development

Commercial Activity

I spoke with the property owner a few weeks ago and he confirmed that the old Kissing Tree building will now be leased as a wedding venue. Their plan is to utilize the Bed and Breakfast facilities on Market Street to house wedding party members during events.

No additional updates for the Little Eagles Daycare business at this time.

KBAR - Eagle Ranch:

The developer is currently working on their construction documents as well as a final plat.

I have been contacted by a consulting engineer with KJE for a meeting in early May to talk about a potential wastewater partnership between the developer and the city.



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BE Travel Center (Ascent):

Owners are currently working with TXDOT to iron out land donation requirements and finalize any remaining requirements associated with their permit.

CEFCO:

CEFCO has submitted a 100% complete set of construction plans. These plans are currently under review by MRB Group and will be brought before Council along with the final plat.

Over the past month, staff and engineers worked through some of the initial issues with their preliminary plat submission, which was deemed 'submitted' and under review but was not yet considered 'filed' as we have had to request additional information regarding flood mitigation plans due to their proximately and proposed work in the floodplain.

As of 4/17/2024, CEFCO has resubmitted plans removing almost all work in the floodplain including the tie in with Evergreen to avoid having to meet additional mitigation requirements that would have been triggered. These plans have been provided to MRB Group for review. The preliminary plat will likely be coming before City Council at a special called meeting in May.

RV Parks – Brown Drive, Bruce Street, Hodge Road

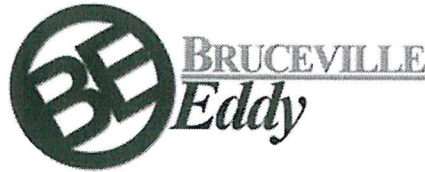
No additional information at this time.

Deer Creek MUD

No additional information at this time.

Youth Sports Complex/Facilities

We are awaiting an official proposal from Premier Events USA. Once received, we will set up a joint stakeholder meeting to hear the initial proposal before taking any additional steps. Stakeholders will include Councilmembers, staff, ISD representatives, and the Ball Club President.



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11. Consent Agenda

All items listed on the consent agenda will be considered by the City Council and will be enacted on by one motion. There will be no separate discussion of these items unless a Councilmember or a member of the public so requests.

A. Approval of Minutes

Council to discuss, consider, and possibly take action to approve the minutes from the March 28, 2024 Regular Meeting and the April 11, 2024 Special Called City Council Meeting.

B. Finances – March 2024

i) Council to discuss, consider, and possibly take action on the March 2024 financial reports for the general, water, and sewer fund accounts.

ii) Council to discuss, consider, and possibly take action on the March 2024 accounts payable for the general, water, and sewer fund accounts.

C. Interlocal Cooperation Purchasing Agreement for Rock Materials

Council to discuss, consider, and possibly take action to approve the City Administrator to enter into an interlocal cooperation agreement with McLennan County for the purpose of purchasing rock material for street repairs.

D. Request to Attend Conference

Council to discuss, consider, and possibly take action to approve the City Administrator to attend the Texas City Management Association's annual conference in June for training and to accept the 2024 Barney L. Knight Certified Public Manager scholarship.

Motion made by Ricky Wiggins to accept the consent agenda (A, B(i)(ii), C, and D), 2nd by Joyce McGlothlin, yeas 5, nay 0, motion passes.

12. Vehicle Purchase – Chief Michael Dorsey

Council to discuss, consider, and possibly take action on a vehicle purchase, including optional safety upgrades, from the used inventory with Chicago/Asia Motors using money in the FY 2023-2024 budget (IRS Asset Forfeiture Account); replacing unit deemed a total loss.

Motion made by Ricky Wiggins to approve a vehicle to be purchased, from the Asia Motors using money in the FY 2023-2024 budget (IRS Asset Forfeiture Account); replacing unit deemed a total loss. 2nd by Richard Prater, yeas 5, nay 0, motion passes.

13. Water Sales to Construction Companies

Council to discuss, consider, and possibly take action regarding the sale of potable water to construction companies.

No Action Taken



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14. Friendly Oaks, Westridge, and Ford Water Plants – Repairs to Equipment

Council to discuss, consider, and possibly take action to address electrical and/or mechanical issues at the Friendly Oaks, Westridge, and Ford water plant sites, including the approval of any needed repairs and related expenditures.

Motion made by Ricky Wiggins to approve all these amounts we just discussed for the Friendly Oaks, Westridge, and Ford water plant sites for a total amount of \$27,462.00, 2nd by Joyce McGlothlin, yeas 5, nay 0, motion passes.

15. Bruceville-Eddy EDC – Certificate of Formation

Council to discuss, consider, and possibly take action on resolution 4-25-2024-1; approving the amended Certificate of Formation for the Bruceville-Eddy Economic Development Corporation.

Motion made by Ricky Wiggins that we accept resolution 4-25-2024-1, 2nd by Graham McGruer, yeas 5, nay 0, motion passes.

Council meeting adjourned into an Executive Session at 6:46 pm

16. Executive Session

A. The City Council Shall Meet in Executive Session to Discuss the Following:

Community Development Specialist: Hiring Recommendation

Texas Government Code Section 551.074 – Personnel Matters – Discussion regarding the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; or to hear a complaint or charge against an officer or employee: Community Development Specialist. Tex. Gov't Code Ann. § 551.074.

B. Reconvene into Open Session

Executive Session adjourned and Council meeting back into session at 7:43 pm

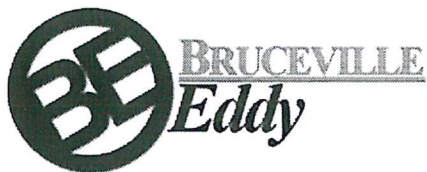
C. Possible Action on Issues Discussed in Executive Session

Motion made by Ricky Wiggins, I move we hire Mr. Walter Nelson as the Community Development Specialist at the hourly rate we discussed in the executive session 2nd by Cecil Griffin, yeas 5 nay 0, motion passes.

17. Preliminary Plat – CEFCO #0047

Council to discuss, consider, and possibly take action on a preliminary plat submission for property owned by Fikes Wholesale, LLC; Raymond W. Smith, President; being three tracts of land, 1.656 acres, 10.124 acres, and 7.681 acres respectfully out of the Levi Prewitt Survey, Abstract No. 723; generally located at 20102 S IH 35 Eddy, Texas 76524 in between Eagle Drive and I-35.

Motion made by Ricky Wiggins that we approve the preliminary plat for Cefco. 2nd by Graham McGruer, yeas 5, nay 0, motion passes.



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**Attendance Sheet
City Council Meeting
April 25, 2024, 6:00pm**

Name

Address

WILLARD MURREY

2134 LCR 124 Mt PALM 76673

RICK & PINDY EDMISTON

851 W. 3RD ST

Ely Slings

2209 Highland Dr. Salado 76571

Doug Murray

805 Eagle Eddy TX

Cherie McGruer

915 Old Moody

Danielle McGruer

215 Hungry Hill Rd

Colton Smith

215 Hungry Hill Rd



Police Department

143 Wilcox Dr.
Eddy, TX 76524

www.bruceville-eddy.us

Phone: 254-859-5072
Fax: 254-859-5258

Police Department Activity Report: March 1, 2024 – March 31, 2024

Calls for Service: Total 120

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
32	2	33	27	26

Arrest, Offense, Incident Reports: Total 17

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
3	2	4	4	4

Criminal Offense Arrests: Total 12

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
0	3	0	0	9

Crash Reports: Total 16

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
10	1	1	2	2

Citations & Warnings: Total 253

890 Dorsey	894 Martinez	895 Erwin	896 Hesterberg	898 Cade
12 citations 2 warning	14 citations 15 warnings	18 citations 19 warnings	13 citations 10 warnings	92 citations 58 warnings

Citations Total: 149

Warnings Total: 104



April 18, 2024

City of Bruceville-Eddy
Mr. Kent Manton
144 Wilcox Drive
Eddy, Texas 76524

RE: CITY OF BRUCEVILLE-EDDY Monthly Engineering Status Report

Mr. Kent Manton,

MRB Group is pleased to provide to the city the following Items in regard to the Monthly Engineering Report. This report includes Engineering Tasks from March 20th through April 18th, 2024.

DEVELOPMENT REVIEW

1. Eagle Ranch – We are awaiting the final plat and construction plans for review. This is the next step in the overall development approval process. No plans have been received as to the date of this report.

2. CEFCO – We submitted our review comments of the 1st submission preliminary plat on March 18. A revised Preliminary Plat was received on April 17, 2024, and MRB will begin its full technical review of this submission. We anticipate submitting completed comments for the 2nd submission the week of April 22.

3. Shady Shores Estates – We have received a Plat for reference development. We plan to review the plat on April 17 and forward technical review comments by April 18 close of business.

WATER METER FEASIBILITY

We reviewed and approved (7) residential meter applications. The general locations include (2) meters near 1933 Old Moody Road, (2) meters at 4085 and 4089 Box Ranch Road and (3) meters located at 2058 Old Bruceville Road. We received the updated meter data file from city staff on April 17, 2024. We plan to incorporate the new meter GPS locations into the current GIS the week of April 22.

GENERAL DISCUSSION ITEMS

1. Water System 8" Water main Improvements: A 90% review set was submitted to TxDOT for ROW permit consideration on March 19, 2024. TxDot comments were received and a revised set was submitted to TxDOT for final approval and permit creation. We plan to advertise the project in May 2024 and propose to open bids and award project in June 2024. The overall construction schedule for this project is estimated to be 8 months for a substantial completion date of January 2025. This schedule is subject to the administrative schedule required by the TxDOT permit division to review and approve permit applications.

2. New Water Well: The preliminary design and well location is complete. The proposed well is planned near the existing baseball fields within the Combs property. The specific location will avoid the existing agriculture operations. Next steps include discussions for exploring funding opportunities for an estimated 5–6-million-dollar project.

If you have any questions, please feel free to contact me.

Sincerely,



Anthony D. Beach, PE CFM
Sr. Project Manager
Anthony.Beach@mrbgroup.com



COUNCIL MONTHLY FINANCIAL SUMMARY FOR APRIL 2024

Summary of Funds

General Fund

Account Name	Beginning Balance	Total Deposits	Total Withdraws	Ending Balance
MOODY GENERAL CHECKING	\$ 119,056.97	\$ 247,214.29	\$ (298,319.09)	\$ 67,952.17 ****
MRLA PROPERTY TAX	\$ 70,941.05	\$ 118,356.25	\$ (110,765.42)	\$ 78,531.88 ****
MUNICIPAL COURT TECH/BLDG FUND	\$ 4.35	\$ 530.50	\$ -	\$ 534.85 ***
CITY INVESTMENT	\$ 110,571.91	\$ 193.27	\$ (110,765.18)	\$ - ****
GRANT FUND	\$ 661.89	\$ -	\$ -	\$ 661.89 ***
GRANT FUND INVESTMENT	\$ 444,640.16	\$ 1,372.46	\$ -	\$ 446,012.62 ***
ASSET FORFEITURE	\$ 81.77	\$ -	\$ -	\$ 81.77 ***
MRLA INVESTMENT	\$ 2,633,249.53	\$ 119,029.96	\$ -	\$ 2,752,279.49 ****
CDBG GRANT	\$ -	\$ -	\$ -	\$ - ***
IRS TREASURY ASSET FORFEITURE	\$ 27.09	\$ 38,021.95	\$ (6,036.95)	\$ 32,012.09 ***
IRS ASSET FORFEITURE INVESTMENT	\$ 207,492.21	\$ 616.50	\$ (38,021.95)	\$ 170,086.76 ***
FUND 10 TOTAL	\$ 3,586,726.93	\$ 525,335.18	\$ (563,908.59)	\$ 3,548,153.52

***City Investment Account-Closed. Had to transfer to General Checking then to MRLA Property Tax and finally to MRLA Investment

Water Fund

Account Name	Beginning Balance	Total Deposits	Total Withdraws	Ending Balance
WATER SUPPLY-MOODY CHECKING	\$ 139,672.41	\$ 200,983.76	\$ (282,335.67)	\$ 58,320.50
SECURITY DEPOSIT	\$ 54,810.23	\$ 4,920.00	\$ (6,716.88)	\$ 53,013.35 **
#729 CD UTILITY IMPROVEMENT-INVESTMENT	\$ 64,037.93	\$ 197.64	\$ -	\$ 64,235.57
UTILITY BILL RELIEF	\$ -	\$ -	\$ -	\$ - **
2011 IMPROVE REVE BOND-INTEREST & SINKING FUND	\$ 33,137.94	\$ 6,169.06	\$ -	\$ 39,307.00 **
PETTY CASH	\$ 200.00	\$ -	\$ -	\$ 200.00
2011 IMPROVE REVE BOND-RESERVE FUND	\$ 71,659.51	\$ -	\$ -	\$ 71,659.51 **
WATER REFUND BOND	\$ -	\$ -	\$ -	\$ -
2013 IMPROVEMENT BOND-INTEREST & SINKING FUND	\$ 56,799.64	\$ 12,780.20	\$ -	\$ 69,579.84 **
2013 IMPROVEMENT REVENUE BOND-RESERVE FUND	\$ 5,119.74	\$ -	\$ -	\$ 5,119.74 **
#166 IMPROVEMENT REV BOND-RESERVE INVESTMENT	\$ 174,786.12	\$ 539.49	\$ -	\$ 175,325.61 **
2011 REFUND REVENUE BOND-RESERVE FUND	\$ 37,984.72	\$ -	\$ -	\$ 37,984.72 **
2011 REFUND REVE BOND-INTEREST & SINKING FUND	\$ 16,588.32	\$ 3,087.53	\$ -	\$ 19,675.85 **
2015 COMBINATION TAX & REV-INTEREST & SINKING	\$ 17,600.91	\$ 3,861.78	\$ -	\$ 21,462.69 **
#522 COBE WATER SUPPLY INVESTMENT	\$ 2,074,153.30	\$ 6,402.38	\$ -	\$ 2,080,555.68
FUND 50 TOTAL	\$ 2,746,550.77	\$ 238,941.84	\$ (289,052.55)	\$ 2,696,440.06

Economic Development

Account Name	Beginning Balance	Total Deposits	Total Withdraws	Ending Balance
Economic Development Sales & Use Tax	\$ -	\$ -	\$ -	\$ -
FUND 60 TOTAL	\$ -	\$ -	\$ -	\$ -

Street Maintenance & Repair Sales & Used Tax Fund

Account Name	Beginning Balance	Total Deposits	Total Withdraws	Ending Balance
Street Maintenance & Repair Sales & Used Tax Fund	\$ -	\$ -	\$ -	\$ -
FUND 80 TOTAL	\$ -	\$ -	\$ -	\$ -

Hotel Occupancy Tax Fund

Account Name	Beginning Balance	Total Deposits	Total Withdraws	Ending Balance
Hotel Occupancy Tax Fund	\$ -	\$ -	\$ -	\$ -
FUND 85 TOTAL	\$ -	\$ -	\$ -	\$ -

Summary

	Beginning Balance	Total Deposits	Total Withdraws	Ending Balance
General Fund Totals	\$ 3,586,726.93	\$ 525,335.18	\$ (563,908.59)	\$ 3,548,153.52
Water Fund Totals	\$ 2,746,550.77	\$ 238,941.84	\$ (289,052.55)	\$ 2,696,440.06
Economic Development Sales & Use Tax Fund Totals	\$ -	\$ -	\$ -	\$ -
Street Maintenance & Repair Sales & Used Tax Fund Totals	\$ -	\$ -	\$ -	\$ -
Hotel Occupancy Tax Fund Totals	\$ -	\$ -	\$ -	\$ -
Total				\$ 6,244,593.58

General Fund: Fund Balance

Restricted fund balance	\$ 649,389.98	***
Unrestricted Fund Balance	\$ 2,898,763.54	
TOTAL	\$ 3,548,153.52	

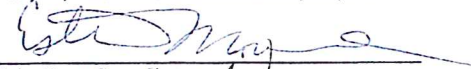

Water Fund: Fund Balance

Restricted Fund Balance	\$ 493,128.31	**
Unrestricted Fund Balance:	\$ 2,203,311.75	
TOTAL	\$ 2,696,440.06	

DEBT:

Debt Service: General Fund Current Year	\$ -
Debt Service: Water Fund Current Year	\$ 371,129.65
Debt Service: Sewer Fund Current Year	\$ 46,305.00
Next year Bond Debt Service	\$ 417,468.12
Total Remaining Debt Service in Future Yrs 2025-2030	\$ 1,013,259.58
4 Bonds issued=2-2011; 2013; 2015	
TOTAL	\$ 1,848,162.35

*Bond Payments made semi annual: March 30, & Sept. 30


 Esther Moreno, Finance Director
 SUBMITTED BY: 
 Director of Finance
 City Administrator

Bank Transfers 2023-2024

NOTE: Beginning Balance is the ending balance for the whole day before the transfer date and Ending Balance is after the transfer was done. It is not the ending balance for the whole day.

Example: transfer on 10/12/23 the beginning balance is the total balance at the end of the day of 10/11/23.

General Fund

Account Name	Date	Beginning Balance	Transfer In	Transfer Out	Ending Balance	
MOODY GENERAL CHECKING						
	10/12/2023	\$57,097.62		-\$1,221.30	\$55,876.32	July/Aug/Sept -Building Security
	10/12/2023	\$57,097.62		-\$1,104.00	\$55,993.62	July/Aug/Sept-Technology
	10/16/2023	\$12,201.05	\$100,000.00		\$112,201.05	To cover future expense; balance low
	10/31/2023	\$64,948.19	\$33,082.25		\$98,030.44	Water Dept. October Payroll
	11/30/2023	\$46,461.69	\$30,879.15		\$77,340.84	Water Dept. November Payroll
	12/11/2023	\$39,715.70	\$100,000.00		\$139,715.70	To cover future expense; balance low
	12/19/2023	\$149,158.46		-\$563.40	\$148,595.06	Oct/Nov-Building Security
	12/19/2023	\$149,158.46		-\$508.00	\$148,650.46	Oct/Nov-Technology
	1/5/2024	\$86,845.29	\$34,261.56		\$121,106.85	December 2023 Payroll
	1/5/2024	\$86,845.29	\$3,560.00		\$90,405.29	2011 F250 & Trim sale transfer-all deposited to Water
	1/5/2024	\$86,845.29		-\$177.30	\$86,667.99	DEC2023 Court Bldg/Sec transfer
	1/5/2024	\$86,845.29		-\$168.00	\$86,677.29	DEC2023 Technology transfer
	1/19/2024	\$67,376.40	\$100,000.00		\$167,376.40	To cover future expense; CK#7881 outstanding
	1/31/2024	\$90,280.33	\$45,371.27		\$135,651.60	January2024 Payroll
	2/8/2024	\$86,030.94		-\$66.48	\$85,964.46	Wrong deposit slip used by staff
	2/16/2024	\$86,066.39	\$150,000.00		\$236,066.39	To cover CK#7968 DuraPatcher & future expenses
	3/4/2024	\$89,111.78	\$32,119.52		\$121,231.30	From Water Supply for February payroll
	3/18/2024	\$144,694.01		-\$868.00	\$143,826.01	Quarterly:Court Bldg Sec.-January & February
	3/18/2024	\$144,694.01		-\$792.00	\$143,902.01	Quarterly:Technology.-January & February
	3/22/2024	\$137,910.35	\$1,376.10		\$139,286.45	From IRS Asset to cover CK#8009 OK-Chief
	4/4/2024	\$101,186.26	\$32,523.75		\$133,710.01	From Water Supply for March payroll
	4/5/2024	\$135,927.06	\$6,036.95		\$141,964.01	From IRS Asset to cover CK#8047 OK-Chief
	4/18/2024	\$111,232.91	\$110,765.18		\$221,998.09	From City Investment(Council Meeting 3/28)
	4/18/2024	\$221,998.09		-\$110,765.18	\$111,232.91	To MRLA (Council meeting 3/28/24)
	4/30/2024	\$80,317.44		-\$282.50	\$80,034.94	Quarterly:Court Bldg Sec.-March only
	4/30/2024	\$80,317.44		-\$248.00	\$80,069.44	Quarterly:Technology.-March only
General Checking Account			\$779,975.73	-\$116,764.16		
GENERAL CITY INVESTMENT						
	4/18/2024	\$110,765.18		-\$110,765.18	\$0.00	3/28/24 Council Approved close account-To City
Total City Investment Account			\$0.00	-\$110,765.18		
MRLA PROPERTY TAX						
	10/12/2023	\$37,058.05	\$100,000.00		\$137,058.05	Transfer from MRLA Invest. Low Balance
	10/16/2023	\$137,058.05		-\$100,000.00	\$37,058.05	Transfer to General Account(balance low)
	12/8/2023	\$87,302.81	\$100,000.00		\$187,302.81	Transfer from MRLA Invest.-Low Balance
	12/11/2023	\$189,250.30		-\$100,000.00	\$89,250.30	Transfer to General Account(balance low)
	1/18/2024	\$306,082.13		-\$150,000.00	\$156,082.13	Transfer to MRLA Invest. Investment Purposes
	1/19/2024	\$156,082.13		-\$100,000.00	\$56,082.13	Transfer to General Account(balance low)
	2/16/2024	\$203,717.17		-\$150,000.00	\$53,717.17	Transfer to General Account(cover CK#7968 DuraPatcher & future expenses)
	4/18/2024	\$74,053.90	\$110,765.18		\$184,819.08	From City(Council meeting 3/28/24)
	4/19/2024	\$186,730.05		-\$110,765.18	\$75,964.87	To MRLA Invest. (Council meeting 3/28/24)
Total MRLA Account			\$310,765.18	-\$710,765.18		
MRLA INVESTMENT						
	10/12/2023	\$2,635,067.56		-\$100,000.00	\$2,535,067.56	Transfer to MRLA-Low Balance
	12/8/2023	\$2,551,117.71		-\$100,000.00	\$2,451,117.71	Transfer to MRLA-Low Balance
	1/18/2024	\$2,459,008.39	\$150,000.00		\$2,609,008.39	Transfer from MRLA-Investment Purposes
	4/19/2024	\$2,633,249.53	\$110,765.18		\$2,744,014.71	From MRLA (Council meeting 3/28/24)
Total MRLA Investment			\$260,765.18	-\$200,000.00		
MUNICIPAL COURT TECH/BLDG FUND						
	10/12/2023	\$7,581.50	\$1,221.30		\$8,802.80	July/Aug/Sept -Building Security
	10/12/2023	\$7,581.50	\$1,104.00		\$8,685.50	July/Aug/Sept-Technology
	12/19/2023	\$151.48	\$563.40		\$714.88	Oct/Nov-Building Security
	12/19/2023	\$151.48	\$508.00		\$659.48	Oct/Nov-Technology
	1/5/2024	\$844.22	\$76.00		\$920.22	SonicClear Recording System belonged to Court
	1/5/2024	\$844.22	\$177.30		\$1,021.52	DEC2023 Court Bldg/Sec transfer
	1/5/2024	\$844.22	\$168.00		\$1,012.22	DEC2023 Technology transfer
	3/18/2024	\$4.28	\$868.00		\$872.28	From General-Bldg Sec-Jan & Feb
	3/18/2024	\$4.28	\$792.00		\$796.28	From General-Technology-Jan & Feb
	4/30/2024	\$4.35	\$282.50		\$286.85	From General-Bldg Sec-March only
	4/30/2024	\$4.35	\$248.00		\$252.35	From General-Technology-March only
I Municipal Court Tech/Bldg Fund			\$6,008.50	\$0.00		
ASSET FORFIETURE						
					\$0.00	
					\$0.00	

Total Asset Forfeiture			\$0.00	\$0.00		
IRS TREASURY ASSET FORFEITURE						
	3/13/2024	\$27.09	\$1,376.10		\$1,403.19	From IRS Investment-cover CK#8009 Chief
	3/22/2024	\$1,403.19		-\$1,376.10	\$27.09	To General cover CK#8009 OK-Chief
	4/4/2024	\$27.09	\$6,036.95		\$6,064.04	From IRS Investment-cover CK#8047 Chief
	4/5/2024	\$6,064.04		-\$6,036.95	\$27.09	To General cover CK#8047 OK-Chief
	4/30/2024	\$27.09	\$31,985.00		\$32,012.09	From IRS Investment-cover CK#8094 Chief
Total IRS Treasury Asset Forfeiture			\$39,398.05	-\$7,413.05		
IRS ASSET FORFEITURE INVESTMENT						
	3/13/2024	\$208,206.88		-\$1,376.10	\$206,830.78	To IRS Asset Forfeiture-cover CK#8009 OK-Chief
	4/4/2024	\$206,830.78		-\$6,036.95	\$200,793.83	To IRS Asset Forfeiture-cover CK#8047 OK-Chief
	4/30/2024	\$207,492.21		-\$31,985.00	\$175,507.21	To IRS Asset Forfeiture-cover CK#8094 OK-Chief
Total IRS Asset Forfeiture Investment			\$0.00	-\$39,398.05		
FUND 10 TOTAL			\$1,396,912.64	-\$1,185,105.62		
Water Fund						
Account Name	Date	Beginning Balance	Transfer In	Transfer Out	Ending Balance	
WATER SUPPLY-MOODY CHECKING						
	10/13/2023	\$320,847.40	\$1,522.45		\$322,369.85	September 2023 Deposit Applied to customers
	10/31/2023	\$372,237.75		-\$33,082.25	\$339,155.50	Water Dept. October Payroll
	11/22/2023	\$468,508.71		-\$14.67	\$468,494.04	2 Water Accts. Credit Balance Refund
	11/30/2023	\$396,840.60		-\$30,879.15	\$365,961.45	Water Dept. November Payroll
	12/4/2023	\$363,459.18		-\$100,000.00	\$263,459.18	For Investment purposes only
	1/5/2024	\$313,825.20		-\$34,261.56	\$279,563.64	To General for Payroll Purposes
	1/5/2024	\$313,825.20	\$78.48		\$313,903.68	Wrong Credit Card payment option online
	1/5/2024	\$313,825.20		-\$3,560.00	\$310,265.20	2011 F150 & Trim below to City
	1/5/2023	\$313,825.20		-\$76.00	\$313,749.20	SonicClear Recording System belonged to Court
	1/30/2024	\$272,811.67	\$43.77		\$272,855.44	Wrong Credit Card payment option online
	1/31/2024	\$230,130.92		-\$45,371.27	\$184,759.65	To General for Payroll Purposes
	2/7/2024	\$188,629.13	\$649.62		\$189,278.75	Wrong deposit slip used by staff
	2/8/2024	\$163,911.49	\$66.48		\$163,977.97	Wrong deposit slip used by staff
	3/1/2024	\$34,187.58	\$150,000.00		\$184,187.58	Low Balance-to cover upcoming expenses
	3/4/2024	\$189,599.98		-\$32,119.52	\$157,480.46	To General for February payroll
	3/26/2024	\$197,270.98	\$104.74		\$197,375.72	Wrong Credit Card payment option online
	3/26/2024	\$197,270.98	\$30.00		\$197,300.98	Wrong Credit Card payment option online
	4/4/2024	\$189,282.69		-\$32,523.75	\$156,758.94	To General for March payroll
	4/30/2024	\$140,702.22	\$6,085.26		\$146,787.48	Deposits credited to account Oct-March
Total Water Checking Account			\$158,580.80	-\$311,888.17		
#522 COBE WATER SUPPLY INVESTMENT						
	3/1/2024	\$2,210,961.34		-\$150,000.00	\$2,060,961.34	Transfer to Water Supply-Low Balance
Total Investment Account			\$0.00	-\$150,000.00	\$0.00	
SECURITY DEPOSIT						
	10/13/2023	\$48,296.37		-\$1,522.45	\$46,773.92	September 2023 Deposit Applied to customers
	11/22/2023	\$49,379.55	\$14.67		\$49,394.22	2 Water Accts. Credit Balance Refund
	11/22/2023	\$49,379.55		-\$62.89	\$49,316.66	Water Bill paid wrong option online
	1/5/2024	\$50,543.21		-\$78.48	\$50,464.73	Wrong Credit Card payment option online
	1/30/2024	\$52,612.58		-\$43.77	\$52,568.81	Wrong Credit Card payment option online
	2/7/2024	\$54,060.66		-\$649.62	\$53,411.04	Wrong deposit slip used by staff
	3/26/2024	\$56,720.21		-\$104.74	\$56,615.47	Wrong Credit Card payment option online
	3/26/2024	\$56,720.21		-\$30.00	\$56,690.21	Wrong Credit Card payment option online
	4/30/2024	\$60,788.85		-\$6,085.26	\$54,703.59	Deposits credited to account Oct-March
Total Security Deposit			\$14.67	-\$8,577.21		
UTILITY BILL RELIEF						
Total Utility Bill Relief			\$0.00	\$0.00	\$0.00	
FUND 50 TOTAL			\$158,595.47	-\$470,465.38		
Summary						
General Fund Totals			\$1,396,912.64	-\$1,185,105.62		

Water Fund Totals		\$158,595.47	-\$470,465.38	
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Bank Transfers 2023-2024

NOTE: Beginning Balance is the ending balance for the whole day before the transfer date and Ending Balance is after the transfer was done. It is not the ending balance for the whole day.
 Example: transfer on 12/11/23 the beginning balance is the total balance at the end of the day of 12/10/23.

APRIL 2024

General Fund						
Account Name	Date	Beginning Balance	Transfer In	Transfer Out	Ending Balance	
MOODY GENERAL CHECKING						
	4/4/2024	\$101,186.26	\$32,523.75		\$133,710.01	From Water Supply for March payroll
	4/5/2024	\$135,927.06	\$6,036.95		\$141,964.01	From IRS Asset to cover CK#8047 OK-Chief
	4/18/2024	\$111,232.91	\$110,765.18		\$221,998.09	From City Investment(Council Meeting 3/28)
	4/18/2024	\$221,998.09		-\$110,765.18	\$111,232.91	To MRLA (Council meeting 3/28/24)
	4/30/2024	\$80,317.44		-\$282.50	\$80,034.94	Quarterly:Court Bldg Sec.-March only
	4/30/2024	\$80,317.44		-\$248.00	\$80,069.44	Quarterly:Technology.-March only
General Checking Account			\$149,325.88	-\$111,295.68		
GENERAL CITY INVESTMENT						
	4/18/2024	\$110,765.18		-\$110,765.18	\$0.00	3/28/24 Council Approved close account-To City
Total City Investment Account			\$0.00	-\$110,765.18		
MRLA PROPERTY TAX						
	4/18/2024	\$74,053.90	\$110,765.18		\$184,819.08	From City(Council meeting 3/28/24)
	4/19/2024	\$186,730.05		-\$110,765.18	\$75,964.87	To MRLA Invest. (Council meeting 3/28/24)
Total MRLA Account			\$110,765.18	-\$110,765.18		
MRLA INVESTMENT						
	4/19/2024	\$2,633,249.53	\$110,765.18		\$2,744,014.71	From MRLA (Council meeting 3/28/24)
Total MRLA Investment			\$110,765.18	\$0.00		
MUNICIPAL COURT TECH/BLDG FUND						
	4/30/2024	\$4.35	\$282.50		\$286.85	From General-Bldg Sec-March only
	4/30/2024	\$4.35	\$248.00		\$252.35	From General-Technology-March only
Total Municipal Court Tech/Bldg Fund			\$530.50	\$0.00		
ASSET FORFEITURE						
Total Asset Forfeiture			\$0.00	\$0.00		
IRS TREASURY ASSET FORFEITURE						
	4/4/2024	\$27.09	\$6,036.95		\$6,064.04	From IRS Investment-cover CK#8047 Chief
	4/5/2024	\$6,064.04		-\$6,036.95	\$27.09	To General cover CK#8047 OK-Chief
	4/30/2024	\$27.09	\$31,985.00		\$32,012.09	From IRS Investment-cover CK#8094 Chief
Total IRS Treasury Asset Forfeiture			\$38,021.95	-\$6,036.95		
IRS ASSET FORFEITURE INVESTMENT						
	4/4/2024	\$206,830.78		-\$6,036.95	\$200,793.83	To IRS Asset Forfeiture-cover CK#8047 OK-Chief
	4/30/2024	\$207,492.21		-\$31,985.00	\$175,507.21	To IRS Asset Forfeiture-cover CK#8094 OK-Chief
Total IRS Asset Forfeiture Investment			\$0.00	-\$38,021.95		
FUND 10 TOTAL			\$409,408.69	-\$376,884.94		
Water Fund						
Account Name	Date	Beginning Balance	Transfer In	Transfer Out	Ending Balance	
WATER SUPPLY-MOODY CHECKING						
	4/4/2024	\$189,282.69		-\$32,523.75	\$156,758.94	To General for March payroll
	4/30/2024	\$140,702.22	\$6,085.26		\$146,787.48	Deposits credited to account Oct-March
Total Water Checking Account			\$6,085.26	-\$32,523.75		
#522 COBE WATER SUPPLY INVESTMENT						
Total Investment Account			\$0.00	\$0.00		
SECURITY DEPOSIT						
	4/30/2024	\$60,788.85		-\$6,085.26	\$54,703.59	Deposits credited to account Oct-March
Total Security Deposit			\$0.00	-\$6,085.26		
UTILITY BILL RELIEF						
Total Utility Bill Relief			\$0.00	\$0.00		
FUND 50 TOTAL			\$6,085.26	-\$38,609.01		
Summary						
			Transfers In	Transfers Out		
General Fund Totals			\$409,408.69	-\$376,884.94		
Water Fund Totals			\$6,085.26	-\$38,609.01		

TOTAL DEBT

Debt Description	Series 2011 Rev. Bond 2	SERIES 2011	Series 2013 Revenue Bond	Water Meters	Series 2015 Revenue Bond	TOTALS
Code Fund	WATER	WATER	WATER	WATER	SEWER	
Issuance Year	3/1/2011	9/30/2011	9/30/2013	2/28/2020	3/30/2016	
Final Year	2025	2025	2028	2025	2030	
Issuance Amount	\$731,000.00	\$371,000.00	\$1,883,000.00	\$489,200.00	\$395,000.00	\$3,869,200.00
Principle Balance Due	\$136,000.00	\$68,000.00	\$961,000.00	\$204,326.00	\$266,000.00	\$1,635,326.00
Interest Balance Due	\$12,125.00	\$6,062.19	\$139,092.40	\$9,147.11	\$46,410.00	\$212,836.70
Total Outstanding:						
Interest+Principle	\$148,125.00	\$74,062.19	\$1,100,092.40	\$213,473.11	\$312,410.00	\$1,848,162.70
Interest Rate	5.50%	5.50%	3.25%	2.97%	4.25%	
Interest 2024	\$8,012.00	\$4,005.95	\$40,375.32	\$6,068.47	\$11,305.00	\$69,766.74
Principle 2024	\$66,000.00	\$33,000.00	\$113,000.00	\$100,667.91	\$35,000.00	\$347,667.91
Total 2023-2024	\$74,012.00	\$37,005.95	\$153,375.32	\$106,736.38	\$46,305.00	\$417,434.65
Interest 2025	\$4,113.00	\$2,056.24	\$35,745.00	\$3,078.64	\$9,817.50	\$54,810.38
Principle 2025	\$70,000.00	\$35,000.00	\$118,000.00	\$103,657.74	\$36,000.00	\$362,657.74
Total 2024-2025	\$74,113.00	\$37,056.24	\$153,745.00	\$106,736.38	\$45,817.50	\$417,468.12
Interest 2026			\$31,025.00		\$8,287.50	\$39,312.50
Principle 2026			\$233,000.00		\$37,000.00	\$270,000.00
Total 2025-2026			\$264,025.00		\$45,287.50	\$309,312.50
Interest 2027			\$21,122.50		\$6,715.00	\$27,837.50
Principle 2027			\$243,000.00		\$38,000.00	\$281,000.00
Total 2026-2027			\$264,122.50		\$44,715.00	\$308,837.50
Interest 2028			\$10,824.58		\$5,100.00	\$15,924.58
Principle 2028			\$254,000.00		\$39,000.00	\$293,000.00
Total 2027-2028			\$264,824.58		\$44,100.00	\$308,924.58
Interest 2029					\$3,442.50	\$3,442.50
Principle 2029					\$40,000.00	\$40,000.00
Total 2028-2029					\$43,442.50	\$43,442.50
Interest 2030					\$1,742.50	\$1,742.50
Principle 2030					\$41,000.00	\$41,000.00
Total 2029-2030					\$42,742.50	\$42,742.50

2024 Water Fund:	\$371,129.65
2025 Water Fund:	\$371,650.62
2026-2030: Water Only	\$792,972.08

2024 Sewer Fund:	\$46,305.00
2025 Sewer Fund:	\$45,817.50
2026-2030: Sewer	\$220,287.50

Will be paid at sewer closing

TOTALS FOR ALL:	
2024	\$417,434.65
2025	\$417,468.12
2026-2030	\$1,013,259.58

\$1,848,162.35

Modified
Revenue & Disbursements
April 2024

APRIL 2024

City: Revenues & Disbursements

Pg.1

- #1 10-00-5007 Parker and Cooker land lease payments
- #2 10-00-5010 Bruceville Holding(Ascent Plaza) invoices payments-\$752.50; Hara deposit & pre-plat payment-\$1520.00; Interstate Motors. rezone application fee-\$300
- #3 10-00-5049 SRO invoice payment
- #4 10-00-5101 5/14 received notice from TX Comptrollers that \$10,052.97 was misapplied to us so this will reflect in Mays reports. Total for April is \$12,807.45

Pg.2

- #5 10-10-6202 For March services:Real Estate Sale Contract/Spectrum Act/Crafton Group/pet crematory
- #6 10-10-6207 Savvy Citizen Annual Fee
- #7 10-10-6208 CEFCO plan review \$3,117.50; Hara plan/plat review 645.00
- #8 10-10-6416 Public Auction:115 Hungry Hill, Public Hearing Zoning, Ordinance#3-28-2024-1

Pg.3

- #9 10-10-6421 Includes Shell Energy invoices for March
- #10 10-10-6519 Quarterly payment
- #11 10-20-6003 Approved OT for Eclipse weekend and day

Pg.4

- #12 10-20-6202 Code violations
- #13 10-20-6410 Includes 36 thermal paper rolls;250 abandoned vehicle labels, 100 traffic tickets/warnings
- #14 10-20-6421 For March Invoice
- #15 10-20-6519 Quarterly payment
- #16 10-20-6706 Evident-different drug test kit
- #17 10-20-6708 CopSync annual maintenance fee: 5 full time, 1 part time, and 1 command

Pg.5

- #18 10-20-6916 Purchase 2020 Ford Explorer from Asia Motors
- #19 10-21-6202 March services:Chapter 54 Shady Shores property
- #20 10-21-6421 For March Invoice

Pg.6

- #21 10-21-6519 Quarterly payment

Pg.7

- #22 10-30-6421 For March Invoice
- #23 10-30-6519 Quarterly payment
- #24 10-30-6602 More use of DuraPatcher
- #25 10-30-6605 Includes DuraPatcher Logo graphics
- #26 10-30-6609 Includes 4 loads of CRS-2 street patching,
- #27 10-40-6102 Virtual training for court yearly hours-Esther
- #28 10-40-6104 Includes court clerk mileage for training at San Antonio

Pg.8

- #29 10-40-6202 For March services:plea bargains/motions/meeting
- #30 10-40-6410 Includes 14 of 95 gallon tubs destruction-Shredding project
- #31 10-40-6413 Not enough money in the Court Tech/Building bank account to cover month invoice
- #32 10-40-6421 For March invoice
- #33 10-40-6519 Quarterly payment

APRIL 2024

Water: Revenues & Disbursements

Pg.1

Pg.2

#1	50-00-6160	PFAS Sample Kits/Analysis
#2	50-00-6202	March Invoice: Includes PUC Matter;Docket#56015
#3	50-00-6207	Savvy Citizen Annual fee
#4	50-00-6421	For March invoice
#5	50-00-6423	For March Invoice
#6	50-00-6519	Quarterly payment
#7	50-00-6600	Includes Unit#4 2015 Ram steering, battery,wind shield repair, and towing fee
#8	50-00-6605	Backhoe tooth, pins

Pg.3

#9	50-00-6683	March & April engineer services: 85% design Falls County Water Improvements
#10	50-00-6705	Includes 1 box of new meters
#11	50-00-6709	Includes 2 valves and 1 PRV for Old Bethany Pump Station; 1 gate valve
#12	50-00-6710	AT&T credit for Final invoice.
#13	50-00-6717	For March invoices

Sewer: Revenues & Disbursements

#1	51-00-6203	Amendment #3 engineer services
#2	51-00-6416	Notice of Intent, and Notice 5 new wastewater system-USDA

5/15/2024 I acknowledge that the reports are accurate to the best of my knowledge at the date and time the reports were printed.



CITY OF BRUCEVILLE-EDDY
 REVENUES & DISBURSEMENTS
 AS OF: APRIL 30TH, 2024

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
REVENUES								
=====								
FEES								
10-00-5002	FRANCHISE FEE REVENUE	147.63	0.00	103.13	103.13	57,000.00	4,785.13	52,214.87
10-00-5003	BUILDING PERMITS	944.00	53,976.53	856.50 (	53,120.03)	24,000.00	61,463.13 (	37,463.13)
10-00-5004	PERMIT FEES	70.00	70.00	530.00	460.00	3,300.00	1,215.00	2,085.00
10-00-5005	TOWER LEASE	300.00	315.00	315.00	0.00	3,700.00	2,340.00	1,360.00
10-00-5007	PROPERTY LEASE #1	0.00	0.00	2,135.00	2,135.00	2,135.00	4,235.00 (	2,100.00)
10-00-5008	OPEN RECORDS	0.00	0.00	0.00	0.00	150.00	202.10 (	52.10)
10-00-5009	POLICE REPORTS	15.00	32.00	37.00	5.00	250.00	252.00 (	2.00)
10-00-5010	DEVELOPMENT FEES #2	0.00	2,626.00	2,572.50 (	53.50)	2,500.00	16,938.50 (	14,438.50)
10-00-5021	GRANT INCOME	0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
10-00-5042	MISC. INCOME CITY	0.00	12.30	103.33	91.03	1,000.00	1,700.47 (	700.47)
10-00-5047	DA SEIZE ASSETS	0.00	0.00	0.00	0.00	1,000.00	0.00	1,000.00
10-00-5049	SRO REIMBURSEMENT INCOME #3	13,374.98	0.00	12,230.30	12,230.30	43,900.00	30,793.67	13,106.33
10-00-5061	REAL PROPERTY/FIXD ASSET SALES	0.00	0.00	0.00	0.00	30,000.00	3,636.00	26,364.00
10-00-5070	INSURANCE CLAIMS INCOME	0.00	958.00	0.00 (	958.00)	0.00	19,765.16 (	19,765.16)
10-00-5090	LEASE INCOME (SIGNS)	0.00	0.00	0.00	0.00	11,248.00	0.00	11,248.00
10-00-5095	TRANSFERS IN	0.00	0.00	0.00	0.00	199,657.00	0.00	199,657.00
	TOTAL FEES	14,851.61	57,989.83	18,882.76 (	39,107.07)	429,840.00	147,326.16	282,513.84
TAXES								
10-00-5100	PROPERTY TAX REVENUE	4,164.04	9,724.62	7,590.83 (	2,133.79)	476,000.00	441,473.83	34,526.17
10-00-5101	SALES TAX REVENUE #4	8,769.63	10,638.43	22,860.42	12,221.99	125,000.00	94,645.74	30,354.26
	TOTAL TAXES	12,933.67	20,363.05	30,451.25	10,088.20	601,000.00	536,119.57	64,880.43
COURT								
10-00-5500	FINES INCOME	20,435.58	23,739.00	32,640.44	8,901.44	195,000.00	137,873.26	57,126.74
10-00-5501	MVBA COLLECTIONS INCOME	0.00	5,001.69	3,672.36 (	1,329.33)	39,326.00	24,887.53	14,438.47
10-00-5502	MCLENNAN CHILD SAFETY FEE	0.00	0.00	0.00	0.00	2,035.00	1,958.68	76.32
10-00-5503	LOCAL MUNICIPAL JURY FUND	8.40	7.60	13.70	6.10	57.00	45.50	11.50
10-00-5504	TIME PAYMENT REIMBURSEMENT FEE	95.00	160.00	102.34 (	57.66)	1,118.00	726.84	391.16
10-00-5505	OMNI REVENUE	136.00	136.00	116.00 (	20.00)	1,159.00	720.00	439.00
10-00-5510	FINES COURT TECH FUND	400.00	420.00	624.00	204.00	3,003.00	2,340.00	663.00
10-00-5520	FINES COURT BLDG/SECURITY FUND	459.60	454.50	743.00	288.50	3,303.00	2,634.20	668.80
10-00-5525	JUVENILE CASE MANAGER FUND	500.00	516.90	765.00	248.10	3,753.00	2,898.79	854.21
10-00-5530	STATE COMPTROLLER FINE EXPENSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL COURT	22,034.58	30,435.69	38,676.84	8,241.15	248,754.00	174,084.80	74,669.20
OTHER FINANCING SOURCES								
10-00-5902	INTEREST INCOME	10,253.71	10,799.66	10,447.01 (	352.65)	100,000.00	72,856.55	27,143.45
	TOTAL OTHER FINANCING SOURCES	10,253.71	10,799.66	10,447.01 (	352.65)	100,000.00	72,856.55	27,143.45
TOTAL REVENUES								
		60,073.57	119,588.23	98,457.86 (	21,130.37)	1,379,594.00	930,387.08	449,206.92

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
EXPENDITURES								
ADMINISTRATION								
OFFICE PERSONNEL-SUPPORT								
10-10-6000	SALARIES	6,000.00	3,192.30	3,192.30	0.00	41,500.00	23,942.25	17,557.75
10-10-6001	HOURLY	6,486.69	3,420.47	3,420.46 (	0.01)	44,471.00	25,788.83	18,682.17
10-10-6003	OVERTIME	0.00	0.00	0.00	0.00	1,000.00	0.00	1,000.00
10-10-6004	MEDICARE	175.52	92.82	92.82	0.00	1,247.00	700.89	546.11
10-10-6006	HEALTH INSURANCE	1,466.88	1,035.40	1,035.40	0.00	25,902.00	6,966.99	18,935.01
10-10-6007	DENTAL INSURANCE	48.84	36.80	36.80	0.00	927.00	248.65	678.35
10-10-6008	TMRS	610.60	380.90	380.90	0.00	4,952.00	2,822.90	2,129.10
10-10-6014	EFT/ACH FEE	18.00	12.00	12.00	0.00	180.00	98.09	81.91
	TOTAL OFFICE PERSONNEL-SUPPORT	14,806.53	8,170.69	8,170.68 (	0.01)	120,179.00	60,568.60	59,610.40
TRAVEL TRAINING UNIFORMS								
10-10-6102	TRAINING	0.00	0.00	0.00	0.00	1,750.00	375.00	1,375.00
10-10-6103	TRAVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-10-6104	MILEAGE & VEHICLE REIMBURSE	63.67	0.00	40.20	40.20	1,000.00	438.73	561.27
10-10-6107	UNIFORMS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-10-6160	MISC EXPENSE	318.98	205.84	144.80 (	61.04)	1,800.00	577.13	1,222.87
	TOTAL TRAVEL TRAINING UNIFORMS	382.65	205.84	185.00 (	20.84)	4,550.00	1,390.86	3,159.14
ADMINISTRATIVE COST								
10-10-6201	FRANKLIN LEGAL	915.00	1,195.00	0.00 (	1,195.00)	4,800.00	2,330.00	2,470.00
10-10-6202	ATTORNEY FEES #5	500.00	0.00	3,265.59	3,265.59	25,000.00	10,081.89	14,918.11
10-10-6203	ENGINEERING	0.00	0.00	0.00	0.00	1,000.00	137.50	862.50
10-10-6205	AUDIT	0.00	0.00	0.00	0.00	4,975.00	5,083.34 (	108.34)
10-10-6206	INSPECTIONS-BUILDING	450.00	0.00	0.00	0.00	5,000.00	815.27	4,184.73
10-10-6207	MEMBERSHIP DUES #6	439.50	0.00	439.50	439.50	1,250.00	693.00	557.00
10-10-6208	DEVELOPERS COST #7	0.00	0.00	3,762.50	3,762.50	0.00	12,750.00 (	12,750.00)
10-10-6209	PUBLIC HEALTH DISTRICT	0.00	0.00	0.00	0.00	4,374.00	2,366.78	2,007.22
10-10-6211	ELECTION EXPENSE	0.00	0.00	0.00	0.00	2,000.00	772.14	1,227.86
10-10-6212	TAX APPRAISER FEES	0.00	0.00	0.00	0.00	4,000.00	2,402.48	1,597.52
10-10-6213	TAX COLLECTOR FEES	0.00	0.00	0.00	0.00	2,100.00	2,205.06 (	105.06)
	TOTAL ADMINISTRATIVE COST	2,304.50	1,195.00	7,467.59	6,272.59	54,499.00	39,637.46	14,861.54
OPERATING								
10-10-6410	OFFICE SUPPLIES	26.09	201.04	54.48 (	146.56)	3,000.00	996.62	2,003.38
10-10-6411	COPIES/PRINTING	0.00	91.47	0.00 (	91.47)	350.00	161.82	188.18
10-10-6412	POSTAGE, FREIGHT & DELIVERY	0.00	18.56	65.28	46.72	550.00	184.80	365.20
10-10-6413	IT SYSTEM SUPPORT EXTRACO	428.66	415.04	465.04	50.00	5,275.00	3,012.26	2,262.74
10-10-6414	IT SYSTEM SUPPORT TYLER	0.00	0.00	0.00	0.00	3,500.00	0.00	3,500.00
10-10-6415	COMPUTER/SOFTWARE	0.00	0.00	0.00	0.00	4,500.00	0.00	4,500.00
10-10-6416	ADVERTISING & LEGAL NOTICES #8	101.00	914.00	635.95 (	278.05)	1,500.00	1,868.58 (	368.58)
10-10-6417	OFFICE EQUIPMENT FURNITURE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-10-6418	TELEPHONE SERVICES	92.95	93.32	93.31 (	0.01)	1,200.00	646.51	553.49
10-10-6419	CELL PHONES	37.99	75.00	0.00 (	75.00)	860.00	180.39	679.61

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
10-10-6420	INTERNET SERVICES	30.15	30.16	30.15	(0.01)	400.00	211.07	188.93
10-10-6421	ELEC-BUILDING. & STREET LIGHTS #9	1,347.86	99.16	1,359.28	1,260.12	18,000.00	9,688.73	8,311.27
10-10-6422	OFFICE MACHINES LEASE	0.00	0.00	0.00	0.00	600.00	258.00	342.00
10-10-6425	OFFICE MACHINES-PROPERTY TAX	0.00	0.00	0.00	0.00	10.00	5.81	4.19
10-10-6427	SOCIAL PLATFORMS	34.95	134.61	69.83	(64.78)	1,100.00	1,787.48	(687.48)
	TOTAL OPERATING	2,099.65	2,072.36	2,773.32	700.96	40,845.00	19,002.07	21,842.93
<u>BUILDING MAIN.</u>								
10-10-6517	JANITORIAL	200.00	12.50	50.00	37.50	500.00	309.81	190.19
10-10-6518	BUILDING MAIN. & REPAIR	16.52	0.00	5.10	5.10	4,500.00	3,024.28	1,475.72
10-10-6519	PROPERTY-LIABILITY INSURANCE #10	1,730.55	0.00	2,570.00	2,570.00	11,000.00	7,861.67	3,138.33
	TOTAL BUILDING MAIN.	1,947.07	12.50	2,625.10	2,612.60	16,000.00	11,195.76	4,804.24
<u>VEHICLES AND OTHER EXP.</u>								
10-10-6600	VEHICLES MAINTENANCE/REPAIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-10-6602	FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL VEHICLES AND OTHER EXP.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>MISCELLANEOUS</u>								
10-10-6813	LEGAL RECORDINGS	0.00	0.00	0.00	0.00	200.00	0.00	200.00
10-10-6909	COUNCIL YR PAY & MEETING EXP.	0.00	0.00	0.00	0.00	72.00	0.00	72.00
10-10-6916	CITY WIDE PROJECT COST	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-10-6919	CIP/CAPITAL ASSET PURCHASES	0.00	0.00	0.00	0.00	20,000.00	0.00	20,000.00
	TOTAL MISCELLANEOUS	0.00	0.00	0.00	0.00	20,272.00	0.00	20,272.00
TOTAL ADMINISTRATION		21,540.40	11,656.39	21,221.69	9,565.30	256,345.00	131,794.75	124,550.25
<u>POLICE DEPT</u> =====								
<u>OFFICE PERSONNEL-SUPPORT</u>								
10-20-6000	SALARIES	4,703.14	4,844.24	4,844.24	0.00	62,976.00	36,331.80	26,644.20
10-20-6001	HOURLY	7,939.96	11,133.53	10,228.91	(904.62)	156,100.00	70,576.44	85,523.56
10-20-6002	SALARY-SCHOOL RESOURCE OFFICER	2,692.30	2,692.30	2,692.30	0.00	27,736.00	20,192.25	7,543.75
10-20-6003	OVERTIME #11	0.00	0.00	3,579.43	3,579.43	1,000.00	3,579.43	(2,579.43)
10-20-6004	MEDICARE	208.60	260.29	298.99	38.70	3,600.00	1,821.96	1,778.04
10-20-6006	HEALTH INSURANCE	3,202.06	3,669.10	4,283.18	614.08	55,194.00	25,683.70	29,510.30
10-20-6007	DENTAL INSURANCE	97.68	128.70	154.44	25.74	1,854.00	849.42	1,004.58
10-20-6008	TMRS	749.91	1,075.41	1,229.48	154.07	14,217.00	7,426.30	6,790.70
10-20-6010	POLICE VEHICLE EQUIPMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-20-6014	EFT/ACH FEE	18.00	12.00	12.00	0.00	180.00	98.10	81.90
	TOTAL OFFICE PERSONNEL-SUPPORT	19,611.65	23,815.57	27,322.97	3,507.40	322,857.00	166,559.40	156,297.60
<u>TRAVEL TRAINING UNIFORMS</u>								
10-20-6102	TRAINING	0.00	0.00	0.00	0.00	3,000.00	125.00	2,875.00
10-20-6103	TRAVEL	0.00	0.00	0.00	0.00	1,000.00	0.00	1,000.00
10-20-6104	MILEAGE & VEHICLE REIMBURSE	0.00	0.00	0.00	0.00	500.00	0.00	500.00
10-20-6106	DRUG TESTING/PHYSICAL	0.00	0.00	0.00	0.00	250.00	0.00	250.00
10-20-6107	UNIFORMS	381.69	0.00	0.00	0.00	2,000.00	159.65	1,840.35
10-20-6160	MISC EXPENSE PD	0.00	0.00	0.00	0.00	500.00	68.97	431.03
	TOTAL TRAVEL TRAINING UNIFORMS	381.69	0.00	0.00	0.00	7,250.00	353.62	6,896.38

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
<u>ADMINISTRATIVE COST</u>								
	#12							
10-20-6202	ATTORNEY FEES	135.00	0.00	672.00	672.00	12,000.00	4,816.09	7,183.91
10-20-6205	AUDIT	0.00	0.00	0.00	0.00	4,975.00	5,083.34	(108.34)
10-20-6207	MEMBERSHIP DUES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-20-6215	ATMOS GAS	73.77	75.44	76.91	1.47	1,100.00	649.86	450.14
	TOTAL ADMINISTRATIVE COST	208.77	75.44	748.91	673.47	18,075.00	10,549.29	7,525.71
<u>OPERATING</u>								
10-20-6410	OFFICE SUPPLIES	110.25	329.98	434.85	104.87	2,000.00	1,369.14	630.86
10-20-6411	COPIES/PRINTING/FORMS	0.00	0.00	0.00	0.00	100.00	0.00	100.00
10-20-6412	POSTAGE, FREIGHT & DELIVERY	0.00	19.74	48.34	28.60	500.00	322.38	177.62
10-20-6413	IT SYSTEM SUPPORT EXTRACO	378.66	415.04	415.04	0.00	4,850.00	2,812.26	2,037.74
10-20-6414	IT SYSTEM SUPPORT TYLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-20-6415	COMPUTER/SOFTWARE	0.00	0.00	0.00	0.00	1,000.00	344.99	655.01
10-20-6416	ADVERTISING & LEGAL NOTICES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-20-6417	OFFICE EQUIPMENT FURNITURE	0.00	0.00	0.00	0.00	250.00	0.00	250.00
10-20-6418	TELEPHONE SERVICES	92.95	93.31	93.31	0.00	1,200.00	646.50	553.50
10-20-6419	CELL PHONES	428.98	469.22	469.55	0.33	5,000.00	3,286.08	1,713.92
10-20-6420	INTERNET SERVICES	150.77	150.77	150.77	0.00	2,000.00	1,055.39	944.61
10-20-6421	ELEC-BUILDING	92.96	0.00	161.79	161.79	2,000.00	1,287.13	712.87
10-20-6422	OFFICE MACHINES LEASE	90.00	90.00	90.00	0.00	2,000.00	888.00	1,112.00
10-20-6425	OFFICE MACHINES-PROPERTY TAX	0.00	0.00	0.00	0.00	42.00	23.25	18.75
10-20-6427	SOCIAL PLATFORMS	0.00	0.00	0.00	0.00	0.00	191.10	(191.10)
	TOTAL OPERATING	1,344.57	1,568.06	1,863.65	295.59	20,942.00	12,226.22	8,715.78
<u>BUILDING MAIN.</u>								
10-20-6517	JANITORIAL	0.00	0.00	0.00	0.00	500.00	491.26	8.74
10-20-6518	BUILDING MAIN. & REPAIR	81.96	0.00	72.98	72.98	2,000.00	1,735.67	264.33
10-20-6519	PROPERTY-LIABILITY INSURANCE	1,730.54	0.00	2,570.00	2,570.00	11,000.00	7,861.67	3,138.33
	TOTAL BUILDING MAIN.	1,812.50	0.00	2,642.98	2,642.98	13,500.00	10,088.60	3,411.40
<u>VEHICLES AND OTHER EXP.</u>								
10-20-6600	VEHICLES MAINTENANCE/REPAIR	544.59	837.64	871.74	34.10	10,000.00	27,816.07	(17,816.07)
10-20-6602	FUEL	1,511.39	1,909.49	2,515.44	605.95	25,000.00	12,744.52	12,255.48
10-20-6603	MINOR EQUIP, SUPPLIES & REPAIR	0.00	0.00	0.00	0.00	500.00	0.00	500.00
10-20-6605	POLICE VEHICLE EQUIPMENT	149.99	0.00	0.00	0.00	2,000.00	884.18	1,115.82
	TOTAL VEHICLES AND OTHER EXP.	2,205.97	2,747.13	3,387.18	640.05	37,500.00	41,444.77	(3,944.77)
<u>DEPARTMENTAL EXPENSES</u>								
10-20-6700	RADIO CONNECTION-WACO	375.00	375.00	375.00	0.00	4,500.00	2,625.00	1,875.00
10-20-6701	EQUIPMENT MAIN. & REPAIR	0.00	0.00	0.00	0.00	500.00	0.00	500.00
10-20-6703	BODY ARMOR	0.00	0.00	0.00	0.00	1,000.00	649.00	351.00
10-20-6705	GUNS AND GUN SUPPLIES	207.86	0.00	0.00	0.00	2,000.00	483.55	1,516.45
10-20-6706	DUTY GEAR	0.00	10.99	273.92	262.93	2,000.00	1,185.44	814.56
10-20-6708	COP SYNC	3,696.00	0.00	4,075.00	4,075.00	3,696.00	4,075.00	(379.00)
10-20-6709	K-9 EXPENSES	0.00	396.87	0.00	(396.87)	2,000.00	666.85	1,333.15
	TOTAL DEPARTMENTAL EXPENSES	4,278.86	782.86	4,723.92	3,941.06	15,696.00	9,684.84	6,011.16

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
<u>MISCELLANEOUS</u>								
10-20-6915	AG-ASSET FORFEITURE PURCHASES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-20-6916	TREASURY ASSET FORFEITURE PURC#18	0.00	7,413.05	31,985.00	24,571.95	24,000.00	39,398.05	(15,398.05)
	TOTAL MISCELLANEOUS	0.00	7,413.05	31,985.00	24,571.95	24,000.00	39,398.05	(15,398.05)
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	TOTAL POLICE DEPT	29,844.01	36,402.11	72,674.61	36,272.50	459,820.00	290,304.79	169,515.21
<u>COMMUNITY DEVELOPMENT</u> =====								
<u>OFFICE PERSONNEL-SUPPORT</u>								
10-21-6001	HOURLY	2,880.00	0.00	0.00	0.00	38,564.00	17,520.33	21,043.67
10-21-6002	HOURLY-PART TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-21-6003	OVERTIME	0.00	0.00	0.00	0.00	1,000.00	500.58	499.42
10-21-6004	MEDICARE	41.68	0.00	0.00	0.00	560.00	260.94	299.06
10-21-6006	HEALTH INSURANCE	583.26	0.00	0.00	0.00	7,369.00	3,070.40	4,298.60
10-21-6007	DENTAL INSURANCE	0.00	(5.33)	0.00	5.33	0.00	(5.33)	5.33
10-21-6008	TMRS	140.84	0.00	0.00	0.00	2,222.00	1,018.58	1,203.42
10-21-6014	EFT/ACH FEE	0.00	12.00	12.00	0.00	180.00	98.06	81.94
	TOTAL OFFICE PERSONNEL-SUPPORT	3,645.78	6.67	12.00	5.33	49,895.00	22,463.56	27,431.44
<u>TRAVEL TRAINING UNIFORMS</u>								
10-21-6102	TRAINING	0.00	0.00	0.00	0.00	1,627.00	0.00	1,627.00
10-21-6103	TRAVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-21-6104	MILEAGE & VEHICLE REIMBURSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-21-6107	UNIFORMS	261.00	0.00	0.00	0.00	400.00	0.00	400.00
	TOTAL TRAVEL TRAINING UNIFORMS	261.00	0.00	0.00	0.00	2,027.00	0.00	2,027.00
<u>ADMINISTRATIVE COST</u>								
10-21-6202	ATTORNEY FEES#19	0.00	0.00	4,034.25	4,034.25	11,500.00	7,266.85	4,233.15
10-21-6205	AUDIT	0.00	0.00	0.00	0.00	4,975.00	5,083.32	(108.32)
10-21-6206	INSPECTIONS-BUILDING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-21-6207	MEMBERSHIP DUES	0.00	0.00	0.00	0.00	350.00	102.50	247.50
10-21-6210	ANIMAL CONTROL	0.00	542.08	0.00	(542.08)	4,000.00	2,929.06	1,070.94
	TOTAL ADMINISTRATIVE COST	0.00	542.08	4,034.25	3,492.17	20,825.00	15,381.73	5,443.27
<u>OPERATING</u>								
10-21-6410	OFFICE SUPPLIES	26.09	0.00	54.47	54.47	500.00	110.15	389.85
10-21-6411	COPIES/PRINTING	0.00	91.47	0.00	(91.47)	300.00	161.81	138.19
10-21-6412	POSTAGE, FREIGHT & DELIVERY	0.00	4.48	35.97	31.49	500.00	56.75	443.25
10-21-6413	IT SYSTEM SUPPORT EXTRACO	378.66	415.04	415.04	0.00	5,275.00	2,812.26	2,462.74
10-21-6415	COMPUTER/SOFTWARE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-21-6417	OFFICE EQUIPMENT FURNITURE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-21-6418	TELEPHONE SERVICES	92.94	93.32	93.30	(0.02)	1,200.00	646.48	553.52
10-21-6419	CELL PHONES/VEHICLE TRACKING	40.18	90.24	83.93	(6.31)	1,131.00	597.92	533.08
10-21-6420	INTERNET SERVICES	30.15	30.15	30.16	0.01	400.00	211.07	188.93
10-21-6421	ELEC-BUILDING#20	0.00	0.00	123.21	123.21	1,500.00	987.13	512.87
10-21-6422	OFFICE MACHINES LEASE	0.00	0.00	0.00	0.00	600.00	258.00	342.00
10-21-6425	OFFICE MACHINES-PROPERTY TAX	0.00	0.00	0.00	0.00	10.00	5.81	4.19
	TOTAL OPERATING	568.02	724.70	836.08	111.38	11,416.00	5,847.38	5,568.62

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
<u>BUILDING MAIN.</u>								
10-21-6517	JANITORIAL	0.00	12.50	50.00	37.50	500.00	268.09	231.91
10-21-6518	BUILDING MAIN. & REPAIR	0.00	0.00	5.10	5.10	0.00	63.84 (	63.84)
10-21-6519	PROPERTY-LIABILITY INSURANCE #21	1,730.54	0.00	2,570.00	2,570.00	11,000.00	7,861.66	3,138.34
	TOTAL BUILDING MAIN.	1,730.54	12.50	2,625.10	2,612.60	11,500.00	8,193.59	3,306.41
<u>VEHICLES AND OTHER EXP.</u>								
10-21-6600	VEHICLES MAINTENANCE/REPAIR	0.00	443.80	7.00 (	436.80)	2,500.00	573.32	1,926.68
10-21-6602	FUEL	130.37	0.00	86.57	86.57	2,500.00	455.80	2,044.20
10-21-6603	MINOR EQUIPMENT & SUPPLIES	0.00	0.00	0.00	0.00	500.00	0.00	500.00
10-21-6606	CLEAN UP AND PURCHASE	0.00	0.00	0.00	0.00	3,000.00	0.00	3,000.00
	TOTAL VEHICLES AND OTHER EXP.	130.37	443.80	93.57 (	350.23)	8,500.00	1,029.12	7,470.88
	TOTAL COMMUNITY DEVELOPMENT	6,335.71	1,729.75	7,601.00	5,871.25	104,163.00	52,915.38	51,247.62
<u>MAINTENANCE</u> =====								
<u>OFFICE PERSONNEL-SUPPORT</u>								
10-30-6001	HOURLY	3,858.45	3,439.92	3,381.43 (	58.49)	44,720.00	25,659.82	19,060.18
10-30-6002	HOURLY-PART TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6003	OVERTIME	0.00	0.00	90.00	90.00	1,500.00	341.17	1,158.83
10-30-6004	MEDICARE	55.49	49.21	49.61	0.40	649.00	372.21	276.79
10-30-6006	HEALTH INSURANCE	994.46	832.28	861.08	28.80	14,738.00	5,988.10	8,749.90
10-30-6007	DENTAL INSURANCE	41.64	34.89	36.10	1.21	618.00	251.00	367.00
10-30-6008	TMRS	188.68	198.14	199.94	1.80	2,576.00	1,475.70	1,100.30
10-30-6014	EFT/ACH FEE	0.00	12.00	12.00	0.00	180.00	98.06	81.94
	TOTAL OFFICE PERSONNEL-SUPPORT	5,138.72	4,566.44	4,630.16	63.72	64,981.00	34,186.06	30,794.94
<u>TRAVEL TRAINING UNIFORMS</u>								
10-30-6102	TRAINING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6107	UNIFORMS	0.00	0.00	0.00	0.00	500.00	167.79	332.21
	TOTAL TRAVEL TRAINING UNIFORMS	0.00	0.00	0.00	0.00	500.00	167.79	332.21
<u>ADMINISTRATIVE COST</u>								
10-30-6202	ATTORNEY FEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6203	ENGINEERING	0.00	0.00	0.00	0.00	30,000.00	0.00	30,000.00
10-30-6205	AUDIT	0.00	0.00	0.00	0.00	4,975.00	5,083.32 (	108.32)
10-30-6207	MEMBERSHIP DUES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL ADMINISTRATIVE COST	0.00	0.00	0.00	0.00	34,975.00	5,083.32	29,891.68
<u>OPERATING</u>								
10-30-6410	OFFICE SUPPLIES	0.00	0.00	0.00	0.00	50.00	26.66	23.34
10-30-6411	COPIES/PRINTING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6412	POSTAGE, FREIGHT & DELIVERY	0.00	0.00	0.00	0.00	100.00	0.00	100.00
10-30-6415	COMPUTER/SOFTWARE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6418	TELEPHONE SERVICES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6419	CELL PHONES/VEHICLE TRACKING	80.36	130.45	124.14 (	6.31)	1,531.00	880.82	650.18
10-30-6420	INTERNET	0.00	18.99	19.00	0.01	228.00	132.96	95.04

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
10-30-6421	ELEC-BUILDING#22	102.60	0.00	98.37	98.37	1,800.00	967.88	832.12
10-30-6426	ROLL OFF EXPENSE	0.00	0.00	0.00	0.00	3,300.00	0.00	3,300.00
	TOTAL OPERATING	182.96	149.44	241.51	92.07	7,009.00	2,008.32	5,000.68
<u>BUILDING MAIN.</u>								
10-30-6517	JANITORIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6518	BUILDING MAIN. & REPAIR	0.00	113.18	26.69	(86.49)	300.00	210.84	89.16
10-30-6519	PROPERTY-LIABILITY INSURANCE#23	1,730.54	0.00	2,570.00	2,570.00	11,000.00	7,861.66	3,138.34
	TOTAL BUILDING MAIN.	1,730.54	113.18	2,596.69	2,483.51	11,300.00	8,072.50	3,227.50
<u>VEHICLES AND OTHER EXP.</u>								
10-30-6600	VEHICLES MAINTENANCE/REPAIR	356.48	130.11	223.62	93.51	3,000.00	1,978.36	1,021.64
10-30-6602	FUEL#24	790.49	485.59	1,000.59	515.00	7,000.00	4,921.56	2,078.44
10-30-6603	TOOLS & EQUIPMENT	0.00	25.98	0.00	(25.98)	2,000.00	96.94	1,903.06
10-30-6604	EQUIPMENT LEASE	0.00	0.00	0.00	0.00	750.00	0.00	750.00
10-30-6605	EQUIPMENT MAIN. & REPAIR#25	0.00	1,182.96	272.33	(910.63)	1,500.00	1,793.09	(293.09)
10-30-6606	MOWING EXPENSE	0.00	397.92	324.31	(73.61)	350.00	762.29	(412.29)
10-30-6609	STREET REPAIR#26	0.00	4,813.80	2,033.96	(2,779.84)	70,000.00	20,057.76	49,942.24
10-30-6610	FLOOD CULVERT CLEAN OUT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-30-6611	BRIDGE REPAIRS/PARKING LOTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL VEHICLES AND OTHER EXP.	1,146.97	7,036.36	3,854.81	(3,181.55)	84,600.00	29,610.00	54,990.00
<u>MISCELLANEOUS</u>								
10-30-6914	FIXED ASSET PURCHASE	0.00	(21.25)	0.00	21.25	175,000.00	186,448.75	(11,448.75)
	TOTAL MISCELLANEOUS	0.00	(21.25)	0.00	21.25	175,000.00	186,448.75	(11,448.75)
	TOTAL MAINTENANCE	8,199.19	11,844.17	11,323.17	(521.00)	378,365.00	265,576.74	112,788.26
COURT =====								
<u>OFFICE PERSONNEL-SUPPORT</u>								
10-40-6000	SALARIES	2,370.04	2,441.14	2,441.14	0.00	31,735.00	18,308.55	13,426.45
10-40-6001	HOURLY	2,590.18	1,895.37	1,895.36	(0.01)	26,718.00	14,808.53	11,909.47
10-40-6003	OVERTIME	0.00	0.00	0.00	0.00	1,000.00	0.00	1,000.00
10-40-6004	MEDICARE	71.75	62.56	62.56	0.00	848.00	478.08	369.92
10-40-6006	HEALTH INSURANCE	473.90	366.66	366.66	0.00	7,369.00	1,888.39	5,480.61
10-40-6007	DENTAL INSURANCE	19.84	15.38	15.38	0.00	309.00	79.22	229.78
10-40-6008	TMRS	126.65	109.18	109.18	0.00	1,539.00	839.93	699.07
10-40-6009	SOCIAL SECURITY	146.94	151.36	151.36	0.00	1,968.00	1,135.20	832.80
10-40-6013	PROPERTY TAX LEASE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6014	EFT/ACH FEE	18.00	12.00	12.00	0.00	180.00	98.09	81.91
	TOTAL OFFICE PERSONNEL-SUPPORT	5,817.30	5,053.65	5,053.64	(0.01)	71,666.00	37,635.99	34,030.01
<u>TRAVEL TRAINING UNIFORMS</u>								
10-40-6102	TRAINING#27	0.00	0.00	184.50	184.50	750.00	184.50	565.50
10-40-6103	TRAVEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6104	MILEAGE & VEHICLE REIMBURSE#28	106.63	109.08	304.32	195.24	1,500.00	951.45	548.55
10-40-6107	UNIFORMS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL TRAVEL TRAINING UNIFORMS	106.63	109.08	488.82	379.74	2,250.00	1,135.95	1,114.05

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
<u>ADMINISTRATIVE COST</u>								
10-40-6202	ATTORNEY FEES #29	1,603.00	0.00	1,123.00	1,123.00	15,000.00	4,700.22	10,299.78
10-40-6205	AUDIT	0.00	0.00	0.00	0.00	4,975.00	5,083.34 (	108.34)
10-40-6206	INSPECTIONS-BUILDING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6207	MEMBERSHIP DUES	0.00	0.00	0.00	0.00	350.00	27.50	322.50
	TOTAL ADMINISTRATIVE COST	1,603.00	0.00	1,123.00	1,123.00	20,325.00	9,811.06	10,513.94
<u>OPERATING</u>								
10-40-6410	OFFICE SUPPLIES #30	179.48	252.60	593.48	340.88	2,000.00	1,511.81	488.19
10-40-6411	COPIES/PRINTING	0.00	91.47	0.00 (	91.47)	200.00	161.81	38.19
10-40-6412	POSTAGE, FREIGHT & DELIVERY	0.00	77.38	195.77	118.39	500.00	441.39	58.61
10-40-6413	IT SYSTEM SUPPORT EXTRACO #31	0.00	0.00	415.04	415.04	2,500.00	415.04	2,084.96
10-40-6414	IT SYSTEM SUPPORT TYLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6415	COMPUTER/SOFTWARE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6417	OFFICE EQUIPMENT FURNITURE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6418	TELEPHONE SERVICES	92.94	93.32	93.30 (	0.02)	1,200.00	646.48	553.52
10-40-6419	CELL PHONES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6420	INTERNET SERVICES	30.16	30.15	30.15	0.00	500.00	211.06	288.94
10-40-6421	ELEC-BUILDING #32	92.45	0.00	123.22	123.22	1,500.00	987.15	512.85
10-40-6422	OFFICE MACHINES LEASE	0.00	0.00	0.00	0.00	600.00	258.00	342.00
10-40-6425	OFFICE MACHINES-PROPERTY TAX	0.00	0.00	0.00	0.00	10.00	5.81	4.19
	TOTAL OPERATING	395.03	544.92	1,450.96	906.04	9,010.00	4,638.55	4,371.45
<u>BUILDING MAIN.</u>								
10-40-6517	JANITORIAL	0.00	12.50	50.00	37.50	500.00	309.80	190.20
10-40-6518	BUILDING MAIN. & REPAIR	16.52	0.00	5.10	5.10	100.00	213.83 (	113.83)
10-40-6519	PROPERTY-LIABILITY INSURANCE #33	1,730.54	0.00	2,570.00	2,570.00	11,000.00	7,861.66	3,138.34
	TOTAL BUILDING MAIN.	1,747.06	12.50	2,625.10	2,612.60	11,600.00	8,385.29	3,214.71
<u>DEPARTMENTAL EXPENSES</u>								
10-40-6700	MUNICIPAL COURT COLLECTION COST	0.00	5,214.32	3,449.13 (	1,765.19)	50,000.00	24,962.43	25,037.57
10-40-6701	COURT TECH. EXPENSE	1,930.00	2,074.97	0.00 (	2,074.97)	7,000.00	5,257.15	1,742.85
10-40-6702	COURT SECURITY EXPENSE	0.00	0.00	0.00	0.00	7,550.00	7,798.00 (	248.00)
10-40-6703	COURT JUVENILE CASE MNGR.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6704	OMNI DATA BASE EXPENSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-40-6705	CHILD SAFETY EXPENSE	0.00	0.00	0.00	0.00	1,500.00	0.00	1,500.00
	TOTAL DEPARTMENTAL EXPENSES	1,930.00	7,289.29	3,449.13 (	3,840.16)	66,050.00	38,017.58	28,032.42
	TOTAL COURT	11,599.02	13,009.44	14,190.65	1,181.21	180,901.00	99,624.42	81,276.58
	TOTAL EXPENDITURES	77,518.33	74,641.86	127,011.12	52,369.26	1,379,594.00	840,216.08	539,377.92
	PROFIT/(LOSS)	(17,444.76)	44,946.37 (	28,553.26)	(73,499.63)	0.00	90,171.00 (	90,171.00)

50 -WATER FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
REVENUES								
=====								
FEES								
50-00-5000	WATER SALES	147,230.47	147,834.86	148,527.33	692.47	1,715,000.00	1,012,532.11	702,467.89
50-00-5005	MVBA COLLECTIONS INCOME	0.00	0.00	0.00	0.00	2,500.00	0.00	2,500.00
50-00-5010	TAP FEES	5,500.00	2,750.00	19,250.00	16,500.00	75,000.00	49,500.00	25,500.00
50-00-5020	CONNECTION FEES	210.00	120.00	540.00	420.00	3,000.00	1,590.00	1,410.00
50-00-5030	RE-CONNECT FEE	420.00	870.00	0.00	(870.00)	3,500.00	3,030.00	470.00
50-00-5031	LATE FEES	2,670.00	2,484.02	2,640.00	155.98	35,000.00	21,114.02	13,885.98
50-00-5032	CSI-CUS SERV FEES	0.00	0.00	0.00	0.00	1,000.00	375.00	625.00
50-00-5040	RETURNED CHECK FEE	0.00	30.00	0.00	(30.00)	600.00	300.00	300.00
50-00-5050	VFD DONATIONS	134.00	129.00	129.00	0.00	2,000.00	903.00	1,097.00
50-00-5055	UTILITY RELIEF FUND DONATIONS	0.00	0.00	0.00	0.00	250.00	0.00	250.00
50-00-5060	FIXED ASSET SALES	0.00	0.00	0.00	0.00	1,000.00	2,650.99	(1,650.99)
50-00-5080	MISC. INCOME	0.00	0.00	0.00	0.00	3,500.00	0.00	3,500.00
50-00-5090	GARBAGE REVENUE	12,660.97	12,573.02	12,608.54	35.52	159,000.00	90,064.05	68,935.95
50-00-5095	TRANSFERS IN	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>845,837.00</u>	<u>0.00</u>	<u>845,837.00</u>
	TOTAL FEES	168,825.44	166,790.90	183,694.87	16,903.97	2,847,187.00	1,182,059.17	1,665,127.83
TAXES								
50-00-5102	EFT-ACH FEE	<u>197.60</u>	<u>221.00</u>	<u>209.95</u>	(<u>11.05</u>)	<u>2,400.00</u>	<u>1,487.24</u>	<u>912.76</u>
	TOTAL TAXES	197.60	221.00	209.95	(11.05)	2,400.00	1,487.24	912.76
OTHER FINANCING SOURCES								
50-00-5902	INTEREST INCOME	<u>6,718.38</u>	<u>7,494.00</u>	<u>7,166.08</u>	(<u>327.92</u>)	<u>75,000.00</u>	<u>52,146.05</u>	<u>22,853.95</u>
	TOTAL OTHER FINANCING SOURCES	6,718.38	7,494.00	7,166.08	(327.92)	75,000.00	52,146.05	22,853.95
	TOTAL REVENUES	175,741.42	174,505.90	191,070.90	16,565.00	2,924,587.00	1,235,692.46	1,688,894.54
EXPENDITURES								
=====								
WATER DEPT								
=====								
OFFICE PERSONNEL-SUPPORT								
50-00-6000	SALARIES	0.00	3,192.32	3,192.32	0.00	41,500.00	23,942.40	17,557.60
50-00-6001	HOURLY	14,166.83	20,164.46	19,802.39	(362.07)	263,687.00	151,635.83	112,051.17
50-00-6003	OVERTIME	1,335.50	1,378.86	2,335.73	956.87	25,000.00	13,916.91	11,083.09
50-00-6004	MEDICARE	212.19	341.57	350.10	8.53	4,426.00	2,626.76	1,799.24
50-00-6005	ON CALL/MEETING PAY	270.00	275.00	270.00	(5.00)	3,370.00	1,925.00	1,445.00
50-00-6006	HEALTH INSURANCE	3,483.48	5,137.64	5,108.84	(28.80)	40,456.00	33,689.98	6,766.02
50-00-6007	DENTAL INSURANCE	109.46	170.33	169.12	(1.21)	1,236.00	1,094.23	141.77
50-00-6008	TMRS	707.70	1,365.76	1,400.86	35.10	16,636.00	10,321.86	6,314.14
50-00-6009	SOCIAL SECURITY	80.60	80.58	79.36	(1.22)	1,016.00	590.31	425.69
50-00-6011	OPEB EXPENSE	0.00	0.00	0.00	0.00	1,000.00	0.00	1,000.00
50-00-6014	EFT/ACH FEE	<u>18.00</u>	<u>12.00</u>	<u>12.00</u>	<u>0.00</u>	<u>180.00</u>	<u>98.10</u>	<u>81.90</u>
	TOTAL OFFICE PERSONNEL-SUPPORT	20,383.76	32,118.52	32,720.72	602.20	398,507.00	239,841.38	158,665.62

50 -WATER FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
<u>TRAVEL TRAINING UNIFORMS</u>								
50-00-6100	CONTRACT SERVICES& TEMP	0.00	0.00	0.00	0.00	2,500.00	0.00	2,500.00
50-00-6102	TRAINING	0.00	395.00	0.00	(395.00)	1,500.00	1,795.24	(295.24)
50-00-6104	MILEAGE & VEHICLE REIMBURSE	48.08	0.00	0.00	0.00	400.00	14.80	385.20
50-00-6106	DRUG TESTING/PHYSICAL	0.00	0.00	0.00	0.00	120.00	0.00	120.00
50-00-6107	UNIFORMS	0.00	0.00	0.00	0.00	1,000.00	245.66	754.34
50-00-6160	MISC EXPENSE WATER #1	<u>2.54</u>	<u>0.00</u>	<u>2,160.00</u>	<u>2,160.00</u>	<u>2,500.00</u>	<u>2,799.00</u>	<u>(299.00)</u>
	TOTAL TRAVEL TRAINING UNIFORMS	50.62	395.00	2,160.00	1,765.00	8,020.00	4,854.70	3,165.30
<u>ADMINISTRATIVE COST</u>								
50-00-6202	ATTORNEY FEES #2	724.00	0.00	682.00	682.00	35,000.00	12,004.13	22,995.87
50-00-6203	ENGINEERING	345.00	(430.00)	0.00	430.00	25,000.00	137.50	24,862.50
50-00-6205	AUDIT	0.00	0.00	0.00	0.00	4,975.00	5,083.34	(108.34)
50-00-6207	MEMBERSHIPS & LICENSES #3	<u>439.50</u>	<u>0.00</u>	<u>439.50</u>	<u>439.50</u>	<u>1,500.00</u>	<u>979.24</u>	<u>520.76</u>
	TOTAL ADMINISTRATIVE COST	1,508.50	(430.00)	1,121.50	1,551.50	66,475.00	18,204.21	48,270.79
<u>OPERATING</u>								
50-00-6410	OFFICE SUPPLIES	92.67	1,846.72	76.01	(1,770.71)	5,500.00	2,092.05	3,407.95
50-00-6411	COPIES/PRINTING	0.00	91.47	0.00	(91.47)	250.00	161.82	88.18
50-00-6412	POSTAGE, FREIGHT & DELIVERY	888.96	1,325.65	1,616.28	290.63	15,000.00	8,679.76	6,320.24
50-00-6413	IT SYSTEM SUPPORT EXTRACO	378.66	465.04	415.04	(50.00)	5,275.00	2,962.26	2,312.74
50-00-6414	IT SYSTEM SUPPORT TYLER	864.00	0.00	0.00	0.00	4,000.00	0.00	4,000.00
50-00-6415	COMPUTER/SOFTWARE	1,156.37	1,040.00	0.00	(1,040.00)	2,500.00	1,040.00	1,460.00
50-00-6416	ADVERTISING & LEGAL NOTICES	0.00	0.00	0.00	0.00	500.00	109.96	390.04
50-00-6418	TELEPHONE SERVICES	92.95	93.31	93.31	0.00	1,200.00	646.49	553.51
50-00-6419	CELL PHONES/VEHICLE TRACKING	198.71	248.87	242.54	(6.33)	2,931.00	1,709.73	1,221.27
50-00-6420	INTERNET SERVICES	30.15	49.15	49.14	(0.01)	1,188.00	344.04	843.96
50-00-6421	ELEC-BUILDING #4	92.46	0.00	123.22	123.22	1,500.00	987.14	512.86
50-00-6422	OFFICE MACHINES LEASE	90.00	90.00	90.00	0.00	1,700.00	888.00	812.00
50-00-6423	ELECTRICITY(HUDSON) #5	102.61	0.00	98.37	98.37	1,800.00	967.89	832.11
50-00-6425	OFFICE MACHINES-PROPERTY TAX	0.00	0.00	0.00	0.00	10.00	5.82	4.18
50-00-6427	SOCIAL PLATFORMS	<u>34.95</u>	<u>134.62</u>	<u>69.83</u>	<u>(64.79)</u>	<u>1,000.00</u>	<u>917.51</u>	<u>82.49</u>
	TOTAL OPERATING	4,022.49	5,384.83	2,873.74	(2,511.09)	44,354.00	21,512.47	22,841.53
<u>BUILDING MAIN.</u>								
50-00-6517	JANITORIAL	0.00	12.50	50.00	37.50	500.00	329.81	170.19
50-00-6518	BUILDING MAIN. & REPAIR	16.52	32.49	5.10	(27.39)	5,000.00	4,529.09	470.91
50-00-6519	PROPERTY-LIABILITY INSURANCE #6	<u>1,730.54</u>	<u>0.00</u>	<u>2,570.00</u>	<u>2,570.00</u>	<u>11,000.00</u>	<u>7,861.68</u>	<u>3,138.32</u>
	TOTAL BUILDING MAIN.	1,747.06	44.99	2,625.10	2,580.11	16,500.00	12,720.58	3,779.42
<u>VEHICLES AND OTHER EXP.</u>								
50-00-6600	VEHICLES MAINTENANCE/REPAIR #7	362.42	528.30	1,739.68	1,211.38	10,000.00	5,198.93	4,801.07
50-00-6601	CHEMICAL PURCHASES	762.25	1,960.00	2,230.00	270.00	18,000.00	8,870.00	9,130.00
50-00-6602	FUEL	1,522.96	2,110.79	2,226.61	115.82	25,000.00	12,374.72	12,625.28
50-00-6603	MINOR EQUIPMENT &SUPPLIES	0.00	0.00	0.00	0.00	2,000.00	0.00	2,000.00
50-00-6604	EQUIPMENT LEASE	0.00	0.00	0.00	0.00	2,000.00	0.00	2,000.00
50-00-6605	EQUIPMENT MAIN. & REPAIR #8	0.00	0.00	276.17	276.17	6,000.00	779.58	5,220.42
50-00-6608	VEHICLE & EQUIPMENT PURCHASES	0.00	0.00	0.00	0.00	75,000.00	71,044.90	3,955.10
50-00-6609	STORAGE TANK CLEANING AND MAIN	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>13,000.00</u>	<u>0.00</u>	<u>13,000.00</u>
	TOTAL VEHICLES AND OTHER EXP.	2,647.63	4,599.09	6,472.46	1,873.37	151,000.00	98,268.13	52,731.87

50 -WATER FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
<u>OTHER EXPENSES</u>								
50-00-6682	COMPREHENSIVE WATER PROJECTS	0.00	0.00	0.00	0.00	725,000.00	0.00	725,000.00
50-00-6683	PROJECTS & PLANNING #9	0.00	0.00	53,958.94	53,958.94	85,000.00	136,870.70	(51,870.70)
	TOTAL OTHER EXPENSES	0.00	0.00	53,958.94	53,958.94	810,000.00	136,870.70	673,129.30
<u>DEPARTMENTAL EXPENSES</u>								
50-00-6700	WATER PURCHASES	54,964.00	41,916.00	40,985.00	(931.00)	450,000.00	322,605.50	127,394.50
50-00-6701	SOUTHERN TRINITY CONSERV. DIST	0.00	79.71	0.00	(79.71)	4,000.00	292.47	3,707.53
50-00-6702	ELC-H.O.T UTILITIES WELLS	3,967.00	4,381.00	3,655.00	(726.00)	85,000.00	25,964.00	59,036.00
50-00-6703	FITTINGS AND SUPPLIES	4,344.75	3,312.40	4,303.16	990.76	95,000.00	26,910.92	68,089.08
50-00-6705	METERS EXPENSE #10	1,410.00	0.00	2,003.88	2,003.88	10,000.00	9,915.32	84.68
50-00-6706	TANK YEARLY INSPECTIONS	0.00	0.00	0.00	0.00	4,000.00	275.00	3,725.00
50-00-6707	TANK MAIN. & REPAIRS	0.00	0.00	0.00	0.00	7,500.00	3,123.00	4,377.00
50-00-6708	REPAIRS WELLS/PUMP, HOUSE FO	90.00	3,832.68	541.39	(3,291.29)	100,000.00	64,643.07	35,356.93
50-00-6709	PRV/VAULTS/VALVES #11	0.00	0.00	1,323.00	1,323.00	2,500.00	1,498.00	1,002.00
50-00-6710	ALERT SYSTEM-WELL/PUMP STATION #12	131.79	0.00	(221.42)	(221.42)	3,000.00	1,467.98	1,532.02
50-00-6711	EFT/ACH WATER BILLS	177.50	190.00	189.50	(0.50)	2,100.00	1,307.00	793.00
50-00-6712	TCEQ WATER TIER II PERMIT	0.00	0.00	0.00	0.00	51.00	51.38	(0.38)
50-00-6713	TCEQ PUBLIC WATER SYSTEM PERMI	0.00	0.00	0.00	0.00	7,200.00	4,711.35	2,488.65
50-00-6714	METER SOFTWARE	4,510.00	0.00	0.00	0.00	5,000.00	0.00	5,000.00
50-00-6715	GARBAGE PICK UP	12,131.14	12,713.12	12,759.91	46.79	156,500.00	86,510.77	69,989.23
50-00-6716	WATER SAMPLE TEST	490.00	796.33	608.00	(188.33)	7,000.00	6,655.90	344.10
50-00-6717	ELEC-WELLS #13	5,767.93	0.00	6,361.80	6,361.80	50,000.00	42,932.75	7,067.25
50-00-6718	TOOLS	145.62	122.84	0.00	(122.84)	1,500.00	498.87	1,001.13
	TOTAL DEPARTMENTAL EXPENSES	88,129.73	67,344.08	72,509.22	5,165.14	990,351.00	599,363.28	390,987.72
<u>MISCELLANEOUS</u>								
50-00-6811	MVBA COLLECTIONS FEE	28.00	0.00	0.00	0.00	500.00	24.91	475.09
50-00-6813	EASEMENT RECORDINGS	120.00	0.00	38.00	38.00	500.00	264.15	235.85
50-00-6815	DONATIONS TO VOL. FIRE DEPT	107.00	98.00	97.00	(1.00)	2,000.00	710.00	1,290.00
50-00-6816	UTILITY BILL RELIEF EXPENSE	58.59	0.00	0.00	0.00	250.00	0.00	250.00
50-00-6900	PRINCIPAL PAYMENT DEBT	0.00	0.00	0.00	0.00	312,668.00	100,827.70	211,840.30
50-00-6901	INTEREST PAYMENT DEBT	0.00	31,690.44	0.00	(31,690.44)	58,462.00	37,599.12	20,862.88
50-00-6914	FIXED ASSET PURCHASES	0.00	0.00	0.00	0.00	65,000.00	0.00	65,000.00
	TOTAL MISCELLANEOUS	313.59	31,788.44	135.00	(31,653.44)	439,380.00	139,425.88	299,954.12
	TOTAL WATER DEPT	118,803.38	141,244.95	174,576.68	33,331.73	2,924,587.00	1,271,061.33	1,653,525.67
	TOTAL EXPENDITURES	118,803.38	141,244.95	174,576.68	33,331.73	2,924,587.00	1,271,061.33	1,653,525.67
	PROFIT/ (LOSS)	56,938.04	33,260.95	16,494.22	(16,766.73)	0.00	(35,368.87)	35,368.87

51 -SEWER FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
REVENUES								
=====								
FEES								
51-00-5000	USDA FUND INCOME (QB ENTRY)	0.00	0.00	0.00	0.00	196,305.00	0.00	196,305.00
51-00-5095	TRANSFERS IN	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>100,000.00</u>	<u>0.00</u>	<u>100,000.00</u>
	TOTAL FEES	0.00	0.00	0.00	0.00	296,305.00	0.00	296,305.00
TAXES								
=====								
	TOTAL REVENUES	0.00	0.00	0.00	0.00	296,305.00	0.00	296,305.00
EXPENDITURES								
=====								
SEWER DEPT								
=====								
OFFICE PERSONNEL-SUPPORT								
=====								
TRAVEL TRAINING UNIFORMS								
=====								
ADMINISTRATIVE COST								
51-00-6202	ATTORNEY FEES	0.00	0.00	0.00	0.00	50,000.00	434.00	49,566.00
51-00-6203	ENGINEERING #1	0.00	0.00	79,200.00	79,200.00	154,900.00	81,450.00	73,450.00
51-00-6204	CONSULTING	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>25,000.00</u>	<u>0.00</u>	<u>25,000.00</u>
	TOTAL ADMINISTRATIVE COST	0.00	0.00	79,200.00	79,200.00	229,900.00	81,884.00	148,016.00
OPERATING								
51-00-6416	ADVERTISING & LEGAL NOTICES #2	<u>0.00</u>	<u>0.00</u>	<u>1,759.87</u>	<u>1,759.87</u>	<u>0.00</u>	<u>4,519.31</u>	<u>(4,519.31)</u>
	TOTAL OPERATING	0.00	0.00	1,759.87	1,759.87	0.00	4,519.31	(4,519.31)
BUILDING MAIN.								
=====								
VEHICLES AND OTHER EXP.								
=====								
OTHER EXPENSES								
51-00-6687	WASTEWATER PLANNING	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>20,000.00</u>	<u>4,934.24</u>	<u>15,065.76</u>
	TOTAL OTHER EXPENSES	0.00	0.00	0.00	0.00	20,000.00	4,934.24	15,065.76
MISCELLANEOUS								
51-00-6813	EASEMENT RECORDINGS	0.00	0.00	0.00	0.00	100.00	0.00	100.00
51-00-6900	PRINCIPAL PAYMENT DEBT	0.00	0.00	0.00	0.00	35,000.00	0.00	35,000.00
51-00-6901	INTEREST PAYMENT DEBT	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>11,305.00</u>	<u>0.00</u>	<u>11,305.00</u>
	TOTAL MISCELLANEOUS	0.00	0.00	0.00	0.00	46,405.00	0.00	46,405.00
	TOTAL SEWER DEPT	0.00	0.00	80,959.87	80,959.87	296,305.00	91,337.55	204,967.45
	TOTAL EXPENDITURES	<u>0.00</u>	<u>0.00</u>	<u>80,959.87</u>	<u>80,959.87</u>	<u>296,305.00</u>	<u>91,337.55</u>	<u>204,967.45</u>
=====								
	PROFIT/ (LOSS)	0.00	0.00	(80,959.87)	(80,959.87)	0.00	(91,337.55)	91,337.55

60 -ECONOMIC DEVELOPMENT FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
REVENUES								
=====								
TAXES								
60-00-5101	SALES TAX REVENUE	0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
	TOTAL TAXES	0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
TOTAL REVENUES								
		0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
EXPENDITURES								
=====								
ECONOMIC DEVELOPMENT								
=====								
MISCELLANEOUS								
60-00-6919	CITY WIDE PROJECT COST	0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
	TOTAL MISCELLANEOUS	0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
TOTAL ECONOMIC DEVELOPMENT								
		0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
TOTAL EXPENDITURES								
		0.00	0.00	0.00	0.00	50,000.00	0.00	50,000.00
=====								
=====								

CITY OF BRUCEVILLE-EDDY
REVENUES & DISBURSEMENTS
AS OF: APRIL 30TH, 2024

80 -ST MAINT./REPAIR S&U FUND

ACCT NO#	ACCOUNT NAME	PRIOR YEAR APRIL ACTIVITY	CURRENT YEAR MARCH ACTIVITY	CURRENT YEAR APRIL ACTIVITY	\$ CHANGE	BUDGET	YTD ACTUAL	BUDGET BAL.
REVENUES =====								
TAXES								
=====								
EXPENDITURES =====								
ST.MAINT/REPAIR S&U DEPT =====								
VEHICLES AND OTHER EXP.								
=====								
=====								
=====								
=====								

Balance Sheet

Comparative:

Month to Date

April 2024

CITY OF BRUCEVILLE-EDDY
 MONTH TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	MARCH ACTIVITY	APRIL ACTIVITY	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
10-00-1000	MOODY GENERAL CHECKING	36,840.06	(51,104.80)	(87,944.86)	238.72-
10-00-1001	MRLA PROPERTY TAX	9,724.62	7,590.83	(2,133.79)	21.94-
10-00-1003	MUNICIPAL COURT TECH/BUILDING	(414.97)	530.50	945.47	227.84-
10-00-1004	CITY INVESTMENT ACCOUNT #320	351.55	(110,571.91)	(110,923.46)	31,552.68-
10-00-1006	GRANT FUND INVESTMENT#037	1,413.80	1,372.46	(41.34)	2.92-
10-00-1008	MRLA INVESTMENT	8,372.88	119,029.96	110,657.08	1,321.61
10-00-1010	IRS TREASURY ASSET FORFEITURE	0.00	31,985.00	31,985.00	0.00
10-00-1011	IRS ASSET FORFEITURE INVESTMNT	(714.67)	(37,405.45)	(36,690.78)	5,133.95
10-00-1750	DUE FROM WATER FUND	<u>44.74</u>	<u>(54.01)</u>	<u>(98.75)</u>	<u>220.72-</u>
TOTAL ASSETS		55,618.01	(38,627.42)	(94,245.43)	169.45-
		=====	=====	=====	=====
<u>LIABILITIES</u>					
10-00-2000	ACCOUNTS PAYABLE	24,807.44	(26,860.11)	(51,667.55)	208.27-
10-00-2010	STATE COMP FINES PAYABLE	(13,943.88)	16,617.99	30,561.87	219.18-
10-00-2013	OMNI COURT LIABILITY	(342.00)	168.00	510.00	149.12-
10-00-2014	MVBA	150.00	60.00	(90.00)	60.00-
10-00-2015	COURT BONDS	0.00	(60.00)	(60.00)	0.00
10-00-2121	LIAB ALL INSURANCE SHRT/OVER	<u>0.08</u>	<u>(0.04)</u>	<u>(0.12)</u>	<u>150.00-</u>
TOTAL LIABILITIES		10,671.64	(10,074.16)	(20,745.80)	194.40-
<u>FUND EQUITY</u>					
TOTAL REVENUES		119,588.23	98,457.86	(21,130.37)	17.67-
TOTAL EXPENDITURES		<u>(74,641.86)</u>	<u>(127,011.12)</u>	<u>(52,369.26)</u>	<u>70.16</u>
TOTAL FUND EQUITY		44,946.37	(28,553.26)	(73,499.63)	163.53-
		_____	_____	_____	_____
TOTAL LIABILITIES & EQUITY		55,618.01	(38,627.42)	(94,245.43)	169.45-
		=====	=====	=====	=====
** OUT OF BALANCE **		0.00	0.00	0.00	169.45-

CITY OF BRUCEVILLE-EDDY
 MONTH TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

50 -WATER FUND

ACCT NO#	ACCOUNT NAME	MARCH ACTIVITY	APRIL ACTIVITY	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
50-00-1000	MOODY BANK CKING WATER SUPPLY	146,074.50	(81,351.91)	(227,426.41)	155.69-
50-00-1001	SECURITY DEPOSIT	2,700.00	(1,796.88)	(4,496.88)	166.55-
50-00-1002	#729 CD INVESTMENT ACCT. CDAR	203.59	197.64	(5.95)	2.92-
50-00-1004	2011 IMPROV-INT & SINKING FUND	2,194.16	6,169.06	3,974.90	181.16
50-00-1006	2011 IMPRV RVN BOND RESRV FUND	44.65	0.00	(44.65)	100.00-
50-00-1008	2013 INT & SINKING FUND	(7,275.79)	12,780.20	20,055.99	275.65-
50-00-1009	2013 IMPROVEMNT REV BOND RESRV	3.20	0.00	(3.20)	100.00-
50-00-1012	#166 IMP REV BOND INVST ACCT	555.74	539.49	(16.25)	2.92-
50-00-1013	2011 REFUND REV RESERVE BOND	23.66	0.00	(23.66)	100.00-
50-00-1014	2011 INT & SINKING FUND	1,100.10	3,087.53	1,987.43	180.66
50-00-1016	2015 INT & SINKING FUND	(1,768.87)	3,861.78	5,630.65	318.32-
50-00-1017	#522 COBE WATER INVESTMENT	(143,404.88)	6,402.38	149,807.26	104.46-
50-00-1020	WATER RECEIVABLES	8,858.37	(14,152.64)	(23,011.01)	259.77-
50-00-1021	RECEIVABLES NSF CHECKS	73.56	(121.01)	(194.57)	264.51-
50-00-1022	TAP FEE RECEIVABLES	<u>184.56</u>	<u>2,750.00</u>	<u>2,565.44</u>	<u>1,390.03</u>
TOTAL ASSETS		9,566.55	(61,634.36)	(71,200.91)	744.27-
		=====	=====	=====	=====
<u>LIABILITIES</u>					
50-00-2000	ACCOUNTS PAYABLE	(27,223.05)	390.06	27,613.11	101.43-
50-00-2111	METER STUDY ENGINEER	600.00	2,780.00	2,180.00	363.33
50-00-2113	UNEARNED DEPOSITS	2,886.57	(287.42)	(3,173.99)	109.96-
50-00-2122	DENTAL VISION ADD'L PLAN	(2.66)	2.66	5.32	200.00-
50-00-2710	DUE TO GENERAL FUND	44.74	(54.01)	(98.75)	220.72-
50-00-2751	DUE TO SEWER FUND	<u>0.00</u>	<u>(80,959.87)</u>	<u>(80,959.87)</u>	<u>0.00</u>
TOTAL LIABILITIES		(23,694.40)	(78,128.58)	(54,434.18)	229.73
<u>FUND EQUITY</u>					
TOTAL REVENUES		174,505.90	191,070.90	16,565.00	9.49
TOTAL EXPENDITURES		<u>(141,244.95)</u>	<u>(174,576.68)</u>	<u>(33,331.73)</u>	<u>23.60</u>
TOTAL FUND EQUITY		33,260.95	16,494.22	(16,766.73)	50.41-
		=====	=====	=====	=====
TOTAL LIABILITIES & EQUITY		9,566.55	(61,634.36)	(71,200.91)	744.27-
		=====	=====	=====	=====
** OUT OF BALANCE **		0.00	0.00	0.00	744.27-

CITY OF BRUCEVILLE-EDDY
 MONTH TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

51 -SEWER FUND

ACCT NO#	ACCOUNT NAME	MARCH ACTIVITY	APRIL ACTIVITY	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
=====					
<u>LIABILITIES</u>					
51-00-2750	DUE TO WATER FUND	0.00	80,959.87	80,959.87	0.00
	TOTAL LIABILITIES	0.00	80,959.87	80,959.87	0.00
<u>FUND EQUITY</u>					
	TOTAL EXPENDITURES	0.00	(80,959.87)	(80,959.87)	0.00
	TOTAL FUND EQUITY	0.00	(80,959.87)	(80,959.87)	0.00
=====					

CITY OF BRUCEVILLE-EDDY
MONTH TO DATE BALANCE SHEET
AS OF: APRIL 30TH, 2024

60 -ECONOMIC DEVELOPMENT FUND

ACCT NO#	ACCOUNT NAME	MARCH ACTIVITY	APRIL ACTIVITY	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
		=====	=====	=====	=====

CITY OF BRUCEVILLE-EDDY
MONTH TO DATE BALANCE SHEET
AS OF: APRIL 30TH, 2024

80 -ST MAINT./REPAIR S&U FUND

ACCT NO#	ACCOUNT NAME	MARCH ACTIVITY	APRIL ACTIVITY	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
		=====	=====	=====	=====

CITY OF BRUCEVILLE-EDDY
MONTH TO DATE BALANCE SHEET
AS OF: APRIL 30TH, 2024

85 -HOTEL OCCUPANCY TAX

ACCT NO#	ACCOUNT NAME	MARCH ACTIVITY	APRIL ACTIVITY	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
		_____	_____	_____	_____
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
		_____	_____	_____	_____
		_____	_____	_____	_____
		=====	=====	=====	=====

Balance Sheet

Comparative:

Year to Date

April 2024

CITY OF BRUCEVILLE-EDDY
 YEAR TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

10 -GENERAL FUND

ACCT NO#	ACCOUNT NAME	2022-2023 BALANCE	2023-2024 BALANCE	\$ CHANGE	% CHANGE
ASSETS					
10-00-1000	MOODY GENERAL CHECKING	81,396.01	67,952.17	(13,443.84)	16.52-
10-00-1001	MRLA PROPERTY TAX	109,654.32	78,531.88	(31,122.44)	28.38-
10-00-1003	MUNICIPAL COURT TECH/BUILDING	10,640.29	534.85	(10,105.44)	94.97-
10-00-1004	CITY INVESTMENT ACCOUNT #320	106,820.46	0.00	(106,820.46)	100.00-
10-00-1005	GRANT FUND	661.89	661.89	0.00	0.00
10-00-1006	GRANT FUND INVESTMENT#037	429,553.92	446,012.62	16,458.70	3.83
10-00-1007	ASSET FORFEITURE	786.72	81.77	(704.95)	89.61-
10-00-1008	MRLA INVESTMENT	2,593,972.90	2,752,279.49	158,306.59	6.10
10-00-1010	IRS TREASURY ASSET FORFEITURE	174.59	32,012.09	31,837.50	18,235.58
10-00-1011	IRS ASSET FORFEITURE INVESTMNT	201,784.44	170,086.76	(31,697.68)	15.71-
10-00-1200	PROPERTY TAX RECEIVABLE	38,738.78	40,145.87	1,407.09	3.63
10-00-1206	ALLOWANCE FOR DOUBTFUL ACCTS	(26,913.62)	(27,970.78)	(1,057.16)	3.93
10-00-1750	DUE FROM WATER FUND	14,598.73	41,545.59	26,946.86	184.58
10-00-1751	DUE FROM SEWER FUND	<u>1,531.25</u>	<u>1,531.25</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	3,563,400.68	3,603,405.45	40,004.77	1.12
		=====	=====	=====	=====
LIABILITIES					
10-00-2000	ACCOUNTS PAYABLE	(17,547.77)	(6,140.42)	11,407.35	65.01-
10-00-2010	STATE COMP FINES PAYABLE	42,934.22	46,224.53	3,290.31	7.66
10-00-2013	OMNI COURT LIABILITY	240.10	165.10	(75.00)	31.24-
10-00-2014	MVBA	0.00	270.00	270.00	0.00
10-00-2015	COURT BONDS	334.20	244.20	(90.00)	26.93-
10-00-2111	ENGINEER INVOICE-PLATTING	1,112.50	617.50	(495.00)	44.49-
10-00-2120	HEALTH INSURANCE PLAN SWHP	3,703.01	3,703.01	0.00	0.00
10-00-2121	LIAB ALL INSURANCE SHRT/OVER	2,123.26	2,124.41	1.15	0.05
10-00-2122	DENTAL VISION ADD'L PLAN	(2.68)	39.20	41.88	1,562.69-
10-00-2123	LIBERTY NATIONAL LIFE	142.02	142.02	0.00	0.00
10-00-2127	INSURANCE CLAIMS	525.94	525.94	0.00	0.00
10-00-2500	DEFERRED LEASE INCOME	10,712.00	10,712.00	0.00	0.00
10-00-2550	DEFERRED CRLF FUNDS	421,323.78	421,323.78	0.00	0.00
10-00-2600	DEFERRED PROPERTY TAX REVENUE	<u>11,825.16</u>	<u>12,175.09</u>	<u>349.93</u>	<u>2.96</u>
	TOTAL LIABILITIES	477,425.74	492,126.36	14,700.62	3.08
FUND EQUITY					
10-00-3000	FUND BALANCE	2,674,333.60	2,799,221.89	124,888.29	4.67
10-00-3001	CHILD SAFETY RESTRICTED FB	4,820.31	6,889.44	2,069.13	42.93
10-00-3002	MUNICIPAL COURT TECH/BLDG FUND	13,775.14	9,906.80	(3,868.34)	28.08-
10-00-3003	ASSET FORFEITURE FUND	343,322.24	205,089.96	(138,232.28)	40.26-
	TOTAL REVENUES	703,155.73	930,387.08	227,231.35	32.32
	TOTAL EXPENDITURES	(<u>653,432.08</u>)	(<u>840,216.08</u>)	(<u>186,784.00</u>)	<u>28.59</u>
	TOTAL FUND EQUITY	<u>3,085,974.94</u>	<u>3,111,279.09</u>	<u>25,304.15</u>	<u>0.82</u>
		=====	=====	=====	=====
	TOTAL LIABILITIES & EQUITY	3,563,400.68	3,603,405.45	40,004.77	1.12
		=====	=====	=====	=====
** OUT OF BALANCE **		0.00	0.00	0.00	1.12

CITY OF BRUCEVILLE-EDDY
 YEAR TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

50 -WATER FUND

ACCT NO#	ACCOUNT NAME	2022-2023 BALANCE	2023-2024 BALANCE	\$ CHANGE	% CHANGE
ASSETS					
50-00-1000	MOODY BANK CKING WATER SUPPLY	220,884.39	58,320.50	(162,563.89)	73.60-
50-00-1001	SECURITY DEPOSIT	52,136.55	53,013.35	876.80	1.68
50-00-1002	#729 CD INVESTMENT ACCT. CDAR	61,865.37	64,235.57	2,370.20	3.83
50-00-1004	2011 IMPROV-INT & SINKING FUND	37,841.48	39,307.00	1,465.52	3.87
50-00-1005	PETTY CASH	200.00	200.00	0.00	0.00
50-00-1006	2011 IMPRV RVN BOND RESRV FUND	71,480.11	71,659.51	179.40	0.25
50-00-1008	2013 INT & SINKING FUND	67,608.47	69,579.84	1,971.37	2.92
50-00-1009	2013 IMPROVEMNT REV BOND RESRV	5,106.89	5,119.74	12.85	0.25
50-00-1012	#166 IMP REV BOND INVST ACCT	168,855.90	175,325.61	6,469.71	3.83
50-00-1013	2011 REFUND REV RESERVE BOND	37,889.63	37,984.72	95.09	0.25
50-00-1014	2011 INT & SINKING FUND	18,627.73	19,675.85	1,048.12	5.63
50-00-1016	2015 INT & SINKING FUND	20,994.29	21,462.69	468.40	2.23
50-00-1017	#522 COBE WATER INVESTMENT	1,952,540.69	2,080,555.68	128,014.99	6.56
50-00-1018	BAD DEBT ALLOWANCES	5,072.85	1,014.69	(4,058.16)	80.00-
50-00-1020	WATER RECEIVABLES	143,132.72	139,642.29	(3,490.43)	2.44-
50-00-1021	RECEIVABLES NSF CHECKS	(93.29)	(40.40)	52.89	56.69-
50-00-1022	TAP FEE RECEIVABLES	79.14	5,579.39	5,500.25	6,950.03
50-00-1023	DEFFERRED OUTFLOW CONTRIBUTION	9,502.00	7,347.00	(2,155.00)	22.68-
50-00-1024	DEFFERRED OUTFLOW INVEST. EXP	(1,393.00)	(1,393.00)	0.00	0.00
50-00-1025	DEFERRED OUTFLOW ACTUAL EXP	36,765.00	36,765.00	0.00	0.00
50-00-1026	DEFERRED OUTFLOW AMORTIZATION	(34,794.00)	14,959.00	49,753.00	142.99-
50-00-1027	DEFFERRED OUTFLOW OF RESOURCES	538.00	631.00	93.00	17.29
50-00-1028	DEF. OUTFLOW-ACTUAL VS ASSUMPT	4,791.00	2,447.00	(2,344.00)	48.93-
50-00-1029	NET PENSION ASSESTS	99,204.00	16,196.00	(83,008.00)	83.67-
50-00-1030	TANK IMPROVEMENTS	933,750.22	1,102,412.22	168,662.00	18.06
50-00-1031	EQUIPMENT	745,578.46	746,763.77	1,185.31	0.16
50-00-1032	AUTOMOBILES	162,230.82	212,083.67	49,852.85	30.73
50-00-1033	OFFICE EQUIPMENT	64,029.02	64,029.02	0.00	0.00
50-00-1034	A/D SYSTEM IMPROVEMENTS	1,432,726.17	1,432,726.17	0.00	0.00
50-00-1036	LAND	465,980.19	465,980.19	0.00	0.00
50-00-1037	PROPERTY EASMENTS	10,281.71	10,281.71	0.00	0.00
50-00-1038	MUNICIPAL BUILDING	115,643.69	115,643.69	0.00	0.00
50-00-1039	WATER SYSTEM	3,650,949.08	3,650,949.08	0.00	0.00
50-00-1040	MAINTENANCE BUILDING	69,469.37	69,469.37	0.00	0.00
50-00-1041	A/D WATER FACILITIES	(3,437,763.44)	(3,601,027.63)	(163,264.19)	4.75
50-00-1042	A/D BUILDING AND IMPROVEMENT	(135,296.60)	(137,075.77)	(1,779.17)	1.32
50-00-1043	A/D EQUIPMENT AND FURNTURE	(491,842.87)	(538,133.32)	(46,290.45)	9.41
50-00-1044	CASH DRAWER	300.00	300.00	0.00	0.00
50-00-1100	PETTY CASH:1100 DONATIONS	200.00	200.00	0.00	0.00
TOTAL ASSETS		6,565,071.74	6,514,190.20	(50,881.54)	0.78-
		=====	=====	=====	=====
LIABILITIES					
50-00-2000	ACCOUNTS PAYABLE	87,679.03	70,385.51	(17,293.52)	19.72-
50-00-2001	NET OPEB ASSET LIABILITY	24,237.00	11,320.00	(12,917.00)	53.29-
50-00-2004	CAPITAL GOVERNMENT-WATER METER	204,325.89	103,657.65	(100,668.24)	49.27-
50-00-2006	VACATION PAYABLE	12,867.80	12,867.80	0.00	0.00
50-00-2007	DEFERRED INFLOWS OF RESOURCES	2,096.00	6,120.00	4,024.00	191.98

CITY OF BRUCEVILLE-EDDY
 YEAR TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

50 -WATER FUND

ACCT NO#	ACCOUNT NAME	2022-2023	2023-2024	\$ CHANGE	% CHANGE
		BALANCE	BALANCE		
50-00-2008	DEFERRED INFLOWS OF EXPECTED R	341.00	341.00	0.00	0.00
50-00-2009	DEF.INFLOW-PRJECTED VS ACTUAL	49,745.00	27,798.00	(21,947.00)	44.12-
50-00-2105	TMRS PAYABLE	1,278.23	1,278.23	0.00	0.00
50-00-2110	PRE-PAID LEGAL	(0.01)	(0.01)	0.00	0.00
50-00-2111	METER STUDY ENGINEER	3,298.00	8,308.00	5,010.00	151.91
50-00-2113	UNEARNED DEPOSITS	38,862.96	48,982.69	10,119.73	26.04
50-00-2114	REV REFUNDING BONDS SERIES 201	68,000.00	35,000.00	(33,000.00)	48.53-
50-00-2115	REV REFUNDING BONDS CURRENT DU	31,000.00	33,000.00	2,000.00	6.45
50-00-2116	REVENUE BONDS SERIES 2011	136,000.00	70,000.00	(66,000.00)	48.53-
50-00-2117	2013 IMRPOVE BOND CURRENT DUE	109,000.00	113,000.00	4,000.00	3.67
50-00-2118	2013 IMPROVEMENT BOND	961,000.00	848,000.00	(113,000.00)	11.76-
50-00-2120	HEALTH INSURANCE PLAN SWHP	(267.32)	(267.32)	0.00	0.00
50-00-2122	DENTAL VISION ADD'L PLAN	(16.84)	(14.18)	2.66	15.80-
50-00-2126	REV BOND SERIES 2011 CURRENT	63,000.00	66,000.00	3,000.00	4.76
50-00-2127	INSURANCE CLAIMS	0.00	2,425.70	2,425.70	0.00
50-00-2200	CREEKSIDE RANCH DEVELOPMENT	1,666.15	1,666.15	0.00	0.00
50-00-2550	2015 REVENUE BOND	266,000.00	231,000.00	(35,000.00)	13.16-
50-00-2551	2015 REVENUE BOND CURRENT DUE	34,000.00	35,000.00	1,000.00	2.94
50-00-2552	CAPTL GOVT-WTR METER-CURRENT	97,764.00	100,668.00	2,904.00	2.97
50-00-2710	DUE TO GENERAL FUND	14,598.73	41,545.59	26,946.86	184.58
50-00-2751	DUE TO SEWER FUND	(851,334.62)	(946,917.69)	(95,583.07)	11.23
50-00-2800	OVER/SHORT	<u>1.00</u>	<u>(16.05)</u>	<u>(17.05)</u>	<u>1,705.00-</u>
	TOTAL LIABILITIES	1,355,142.00	921,149.07	(433,992.93)	32.03-
FUND EQUITY					
50-00-3000	FUND BALANCE	5,140,490.23	5,628,410.00	487,919.77	9.49
	TOTAL REVENUES	1,208,807.84	1,235,692.46	26,884.62	2.22
	TOTAL EXPENDITURES	<u>(1,139,368.33)</u>	<u>(1,271,061.33)</u>	<u>(131,693.00)</u>	<u>11.56</u>
	TOTAL FUND EQUITY	5,209,929.74	5,593,041.13	383,111.39	7.35
	TOTAL LIABILITIES & EQUITY	<u>6,565,071.74</u>	<u>6,514,190.20</u>	<u>(50,881.54)</u>	<u>0.78-</u>
	** OUT OF BALANCE **	0.00	0.00	0.00	0.78-

CITY OF BRUCEVILLE-EDDY
 YEAR TO DATE BALANCE SHEET
 AS OF: APRIL 30TH, 2024

51 -SEWER FUND

ACCT NO#	ACCOUNT NAME	2022-2023 BALANCE	2023-2024 BALANCE	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
51-00-1035	CONSTRUCTION IN PROGRESS	734,380.56	738,635.08	4,254.52	0.58
51-00-1036	LAND	<u>82,921.58</u>	<u>82,921.58</u>	<u>0.00</u>	<u>0.00</u>
	TOTAL ASSETS	817,302.14	821,556.66	4,254.52	0.52
=====					
<u>LIABILITIES</u>					
51-00-2710	DUE TO GENERAL FUND	1,531.25	1,531.25	0.00	0.00
51-00-2750	DUE TO WATER FUND	<u>851,334.62</u>	<u>946,917.69</u>	<u>95,583.07</u>	<u>11.23</u>
	TOTAL LIABILITIES	852,865.87	948,448.94	95,583.07	11.21
<u>FUND EQUITY</u>					
51-00-3000	RETAINED EARNINGS	(35,291.65)	(35,554.73)	(263.08)	0.75
	TOTAL EXPENDITURES	<u>(272.08)</u>	<u>(91,337.55)</u>	<u>(91,065.47)</u>	<u>33,470.11</u>
	TOTAL FUND EQUITY	(35,563.73)	(126,892.28)	(91,328.55)	256.80
=====					
	TOTAL LIABILITIES & EQUITY	817,302.14	821,556.66	4,254.52	0.52
=====					
	** OUT OF BALANCE **	0.00	0.00	0.00	0.52

CITY OF BRUCEVILLE-EDDY
YEAR TO DATE BALANCE SHEET
AS OF: APRIL 30TH, 2024

60 -ECONOMIC DEVELOPMENT FUND

ACCT NO# ACCOUNT NAME	2022-2023 BALANCE	2023-2024 BALANCE	\$ CHANGE	% CHANGE
<u>ASSETS</u>	_____	_____	_____	_____
	=====	=====	=====	=====
<u>FUND EQUITY</u>	_____	_____	_____	_____
	_____	_____	_____	_____
	=====	=====	=====	=====

CITY OF BRUCEVILLE-EDDY
YEAR TO DATE BALANCE SHEET
AS OF: APRIL 30TH, 2024

80 -ST MAINT./REPAIR S&U FUND

ACCT NO#	ACCOUNT NAME	2022-2023 BALANCE	2023-2024 BALANCE	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
		=====	=====	=====	=====

CITY OF BRUCEVILLE-EDDY
YEAR TO DATE BALANCE SHEET
AS OF: APRIL 30TH, 2024

85 -HOTEL OCCUPANCY TAX

ACCT NO#	ACCOUNT NAME	2022-2023 BALANCE	2023-2024 BALANCE	\$ CHANGE	% CHANGE
<u>ASSETS</u>					
		=====	=====	=====	=====
<u>FUND EQUITY</u>					
		=====	=====	=====	=====

Check Register

Accounts Payable-PAID

04/01/2024

to

04/30/2024

Check Register

Accounts Payable-Paid

04/01/2024-04/30/2024

Liabilities(below)= Balance Sheet Reports

Legal Shield

Globe Life Liberty National Division

Office of the Attorney General

Omnibase Services of Texas, LP

Principal Life Insurance Company

State Comptroller

TX Health Benefits Pool

United States Treasury

MRB Group(Water-Meter Feasibility)

VENDOR SET: 01 City of Bruceville-Eddy

BANK: * ALL BANKS

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
C-CHECK	VOID CHECK	V	4/25/2024			008089		

* * T O T A L S * *

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	0	0.00	0.00	0.00
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	0	0.00	0.00	0.00
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	1	VOID DEBITS 0.00		
		VOID CREDITS 0.00	0.00	0.00

TOTAL ERRORS: 0

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
VENDOR SET: 01 BANK: * TOTALS:	1	0.00	0.00	0.00
BANK: * TOTALS:	1	0.00	0.00	0.00

VENDOR SET: 01 City of Bruceville-Eddy

BANK: 10AP GENERAL FUND

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0322	AMAZON CAPITAL SERVICES	R	4/25/2024			008081		187.50
			*** VENDOR TOTALS ***			1 CHECKS		187.50
0373	ASIA MOTORS INC	R	4/26/2024			008094		31,985.00
			*** VENDOR TOTALS ***			1 CHECKS		31,985.00
0147	ATMOS ENERGY	R	4/03/2024			008038		75.44
			*** VENDOR TOTALS ***			1 CHECKS		75.44
0211	ATWOOD DISTRIBUTING, L.P.	R	4/03/2024			008039		69.99
			*** VENDOR TOTALS ***			1 CHECKS		69.99
0169	AUTO DESIGNS SPECIALTY OF WACO	R	4/11/2024			008054		150.00
			*** VENDOR TOTALS ***			1 CHECKS		150.00
0171	AVILES TRUCKING INC.	R	4/03/2024			008040		1,800.00
			*** VENDOR TOTALS ***			1 CHECKS		1,800.00
0119	CARD SERVICE CENTER	R	4/11/2024			008055		1,082.88
			*** VENDOR TOTALS ***			1 CHECKS		1,082.88
0190	CARD SERVICE CENTER	R	4/11/2024			008056		1,440.17
			*** VENDOR TOTALS ***			1 CHECKS		1,440.17
0331	CARQUEST AUTO PARTS	R	4/03/2024			008041		293.80
			*** VENDOR TOTALS ***			1 CHECKS		293.80
0131	CHARTER COMMUNICATIONS	R	4/17/2024			008068		150.77
0131	CHARTER COMMUNICATIONS	R	4/17/2024			008069		120.61
			*** VENDOR TOTALS ***			2 CHECKS		271.38
0202	CITY OF WACO FINANCE DEPARTMEN	R	4/25/2024			008082		375.00
			*** VENDOR TOTALS ***			1 CHECKS		375.00
0192	DAD'S QUICK LUBE & AUTOMOTIVE	R	4/11/2024			008057		103.74
			*** VENDOR TOTALS ***			1 CHECKS		103.74
0307	ERGON ASPHALT AND EMULSIONS, I	R	4/03/2024			008042		1,561.60
0307	ERGON ASPHALT AND EMULSIONS, I	R	4/17/2024			008070		997.76
			*** VENDOR TOTALS ***			2 CHECKS		2,559.36

VENDOR SET: 01 City of Bruceville-Eddy

BANK: 10AP GENERAL FUND

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0155	EXTRACO CONSULTING	R	4/11/2024			008058		50.00
			*** VENDOR TOTALS ***			1 CHECKS		50.00
0163	EXTRACO TECHNOLOGY	R	4/11/2024			008059		1,660.16
			*** VENDOR TOTALS ***			1 CHECKS		1,660.16
0167	FIRST NATIONAL BANK OF MOODY	D	4/11/2024			000642		36.00
0167	FIRST NATIONAL BANK OF MOODY	D	4/25/2024			000647		36.00
			*** VENDOR TOTALS ***			2 CHECKS		72.00
0128	FUELMAN	R	4/03/2024			008043		1,209.46
0128	FUELMAN	R	4/11/2024			008060		2,263.48
0128	FUELMAN	R	4/25/2024			008083		1,339.12
			*** VENDOR TOTALS ***			3 CHECKS		4,812.06
0237	GENERAL CODE	R	4/03/2024			008044		1,195.00
			*** VENDOR TOTALS ***			1 CHECKS		1,195.00
0298	GOTO COMMUNICATIONS, INC.	R	4/03/2024			008045		466.53
			*** VENDOR TOTALS ***			1 CHECKS		466.53
0154	GREATAMERICA FINANCIAL SVCS.	R	4/03/2024			008046		90.00
			*** VENDOR TOTALS ***			1 CHECKS		90.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/03/2024			000640		99.16
			*** VENDOR TOTALS ***			1 CHECKS		99.16
0132	JIM TURNER CHEVROLET	R	4/03/2024			008047		6,036.95
			*** VENDOR TOTALS ***			1 CHECKS		6,036.95
0145	KEITH ACE HARDWARE-GO	R	4/03/2024			008048		138.64
			*** VENDOR TOTALS ***			1 CHECKS		138.64
0367	KENT MANTON	R	4/11/2024			008061		75.00
			*** VENDOR TOTALS ***			1 CHECKS		75.00
0162	KOLOGIC LLC	R	4/17/2024			008071		4,075.00
			*** VENDOR TOTALS ***			1 CHECKS		4,075.00
0158	LANDSCAPE SUPPLY	R	4/25/2024			008084		103.97
			*** VENDOR TOTALS ***			1 CHECKS		103.97

VENDOR SET: 01 City of Bruceville-Eddy

BANK: 10AP GENERAL FUND

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0352	LAW ENFORCEMENT SYSTEMS, INC.	R	4/17/2024			008072		224.00
			*** VENDOR TOTALS ***			1 CHECKS		224.00
0102	LEGALSHIELD	R	4/25/2024			008085		15.95
			*** VENDOR TOTALS ***			1 CHECKS		15.95
0103	GLOBE LIFE LIBERTY NATIONAL DI	R	4/25/2024			008086		616.09
			*** VENDOR TOTALS ***			1 CHECKS		616.09
0209	LONE STAR DESIGNS & PRINTING	R	4/03/2024			008049		810.00
			*** VENDOR TOTALS ***			1 CHECKS		810.00
0136	MCCREARY, VESELKA, BRAGG, & AL	R	4/17/2024			008073		5,214.32
			*** VENDOR TOTALS ***			1 CHECKS		5,214.32
0256	MESSER & FORT	R	4/25/2024			008087		9,094.84
			*** VENDOR TOTALS ***			1 CHECKS		9,094.84
0146	O'REILLY AUTOMOTIVE, INC.	R	4/11/2024			008062		273.71
			*** VENDOR TOTALS ***			1 CHECKS		273.71
0104	OFFICE OF THE ATTORNEY GENERAL	R	4/11/2024			008063		186.25
0104	OFFICE OF THE ATTORNEY GENERAL	R	4/11/2024			008064		253.38
0104	OFFICE OF THE ATTORNEY GENERAL	R	4/11/2024			008065		611.08
0104	OFFICE OF THE ATTORNEY GENERAL	R	4/23/2024			008076		186.25
0104	OFFICE OF THE ATTORNEY GENERAL	R	4/23/2024			008077		253.38
0104	OFFICE OF THE ATTORNEY GENERAL	R	4/23/2024			008078		611.08
			*** VENDOR TOTALS ***			6 CHECKS		2,101.42
0180	OMNIBASE SERVICES OF TEXAS, LP	R	4/11/2024			008066		546.00
			*** VENDOR TOTALS ***			1 CHECKS		546.00
0170	PITNEY BOWES GLOBAL FINANCIAL	D	4/17/2024			000644		200.00
			*** VENDOR TOTALS ***			1 CHECKS		200.00
0105	PRINCIPAL LIFE INSURANCE COMPA	R	4/25/2024			008088		664.39
			*** VENDOR TOTALS ***			1 CHECKS		664.39

VENDOR SET: 01 City of Bruceville-Eddy
 BANK: 10AP GENERAL FUND
 DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
1	CARREON, DANIEL	R	4/25/2024			008079		30.00
1	COPE, SOHNYA MELANEY	R	4/25/2024			008080		30.00
1	SANDOVAL, JULIAN	R	4/30/2024			008095		16.00
			*** VENDOR TOTALS ***			3 CHECKS		76.00
0332	SHELL ENERGY SOLUTIONS	R	4/25/2024			008090		1,790.60
			*** VENDOR TOTALS ***			1 CHECKS		1,790.60
0189	STATE COMPTROLLER	D	4/17/2024			000645		24,565.45
			*** VENDOR TOTALS ***			1 CHECKS		24,565.45
0116	TEXAS SECURITY EQUIPMENT	R	4/11/2024			008067		10.99
			*** VENDOR TOTALS ***			1 CHECKS		10.99
0245	THE GOODYEAR TIRE & RUBBER CO.	R	4/03/2024			008050		223.76
			*** VENDOR TOTALS ***			1 CHECKS		223.76
0185	TML INTERGOVERNMENTAL RISK POO	R	4/03/2024			008051		12,850.00
			*** VENDOR TOTALS ***			1 CHECKS		12,850.00
0173	TX HEALTH BENEFITS POOL	R	4/25/2024			008091		13,485.04
			*** VENDOR TOTALS ***			1 CHECKS		13,485.04
0107	UNITED STATES TREASURY	D	4/09/2024			000641		2,856.75
0107	UNITED STATES TREASURY	D	4/23/2024			000646		3,190.77
0107	UNITED STATES TREASURY	D	4/26/2024			000648		25.48
			*** VENDOR TOTALS ***			3 CHECKS		6,073.00
0360	VERIZON	R	4/03/2024			008052		150.10
			*** VENDOR TOTALS ***			1 CHECKS		150.10
0112	VERIZON WIRELESS	R	4/17/2024			008074		608.84
			*** VENDOR TOTALS ***			1 CHECKS		608.84
0253	WENDY MILLIMAN	R	4/02/2024			008037		50.00
0253	WENDY MILLIMAN	R	4/17/2024			008075		200.00
			*** VENDOR TOTALS ***			2 CHECKS		250.00

VENDOR SET: 01 City of Bruceville-Eddy

BANK: 10AP GENERAL FUND

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0164	YOUNGBLOOD AUTOMOTIVE & TIRE	R	4/03/2024			008053		7.00
*** VENDOR TOTALS ***						1 CHECKS		7.00

* * T O T A L S * *	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	56	108,110.62	0.00	108,110.62
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	8	31,009.61	0.00	31,009.61
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	0 VOID DEBITS	0.00		
	VOID CREDITS	0.00	0.00	0.00

TOTAL ERRORS: 0

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
VENDOR SET: 01 BANK: 10AP TOTALS:	64	139,120.23	0.00	139,120.23
BANK: 10AP TOTALS:	64	139,120.23	0.00	139,120.23

VENDOR SET: 01 City of Bruceville-Eddy

BANK: 50AP WATER SUPPLY

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0200	ALLEN SAMUELS	R	4/17/2024			009677		480.00
			*** VENDOR TOTALS ***			1 CHECKS		480.00
0203	ALLIANCE ELECTRICAL GROUP, LLC	R	4/17/2024			009678		541.39
			*** VENDOR TOTALS ***			1 CHECKS		541.39
0152	BLUEBONNET WATER SUPPLY CORP.	R	4/03/2024			009658		41,916.00
			*** VENDOR TOTALS ***			1 CHECKS		41,916.00
0157	BRUCEVILLE-EDDY VFD	R	4/03/2024			009659		98.00
0157	BRUCEVILLE-EDDY VFD	R	4/30/2024			009691		97.00
			*** VENDOR TOTALS ***			2 CHECKS		195.00
0119	CARD SERVICE CENTER	R	4/11/2024			009669		616.93
			*** VENDOR TOTALS ***			1 CHECKS		616.93
0190	CARD SERVICE CENTER	R	4/11/2024			009670		378.24
			*** VENDOR TOTALS ***			1 CHECKS		378.24
0151	CITY OF WACO WATER OFFICE	R	4/11/2024			009671		144.00
			*** VENDOR TOTALS ***			1 CHECKS		144.00
0140	CORE & MAIN LP	R	4/03/2024			009660		349.85
0140	CORE & MAIN LP	R	4/11/2024			009672		1,913.52
0140	CORE & MAIN LP	R	4/17/2024			009679		2,673.40
0140	CORE & MAIN LP	R	4/25/2024			009685		1,772.04
			*** VENDOR TOTALS ***			4 CHECKS		6,708.81
0121	DSHS CENTRAL LAB MC2004	R	4/11/2024			009673		398.95
			*** VENDOR TOTALS ***			1 CHECKS		398.95
0163	EXTRACO TECHNOLOGY	R	4/11/2024			009674		415.04
			*** VENDOR TOTALS ***			1 CHECKS		415.04
0167	FIRST NATIONAL BANK OF MOODY	D	4/17/2024			000643		189.50
			*** VENDOR TOTALS ***			1 CHECKS		189.50
0268	FORTLINE WATERWORKS	R	4/17/2024			009680		580.40
			*** VENDOR TOTALS ***			1 CHECKS		580.40

VENDOR SET: 01 City of Bruceville-Eddy

BANK: 50AP WATER SUPPLY

DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0128	FUELMAN	R	4/03/2024			009661		1,138.44
0128	FUELMAN	R	4/11/2024			009675		1,378.83
0128	FUELMAN	R	4/25/2024			009686		847.78
			*** VENDOR TOTALS ***			3 CHECKS		3,365.05
0154	GREATAMERICA FINANCIAL SVCS.	R	4/03/2024			009662		90.00
			*** VENDOR TOTALS ***			1 CHECKS		90.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/03/2024			000637		2,415.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/03/2024			000638		1,294.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/03/2024			000639		672.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/30/2024			000649		1,467.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/30/2024			000650		1,511.00
0168	HEART OF TEXAS ELECTRIC CO-OP	D	4/30/2024			000651		677.00
			*** VENDOR TOTALS ***			6 CHECKS		8,036.00
0213	JURGENSEN PUMP, LLC	R	4/03/2024			009663		867.00
			*** VENDOR TOTALS ***			1 CHECKS		867.00
0145	KEITH ACE HARDWARE-GO	R	4/03/2024			009664		202.25
			*** VENDOR TOTALS ***			1 CHECKS		202.25
0141	LONESTAR MAINTENANCE & SERVICE	R	4/03/2024			009665		2,151.87
0141	LONESTAR MAINTENANCE & SERVICE	R	4/17/2024			009681		1,189.64
0141	LONESTAR MAINTENANCE & SERVICE	R	4/30/2024			009692		1,189.64
			*** VENDOR TOTALS ***			3 CHECKS		4,531.15
0124	MCLENNAN COUNTY CLERK	R	4/30/2024			009693		38.00
			*** VENDOR TOTALS ***			1 CHECKS		38.00
0256	MESSER & FORT	R	4/25/2024			009687		682.00
			*** VENDOR TOTALS ***			1 CHECKS		682.00
0265	MRB GROUP	R	4/30/2024			009694		34,200.00
			*** VENDOR TOTALS ***			1 CHECKS		34,200.00

VENDOR SET: 01 City of Bruceville-Eddy
BANK: 50AP WATER SUPPLY
DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0374	POSTMASTER	R	4/26/2024			009690		320.00
			*** VENDOR TOTALS ***			1 CHECKS		320.00
0252	RDO EQUIPMENT CO.	R	4/30/2024			009695		276.17
			*** VENDOR TOTALS ***			1 CHECKS		276.17
0332	SHELL ENERGY SOLUTIONS	R	4/25/2024			009688		6,558.54
			*** VENDOR TOTALS ***			1 CHECKS		6,558.54
0150	SOUTHERN TRINITY GROUNDWATER	R	4/03/2024			009666		79.71
			*** VENDOR TOTALS ***			1 CHECKS		79.71
0120	TABOR & ASSOCIATES INC.	R	4/17/2024			009682		79,200.00
			*** VENDOR TOTALS ***			1 CHECKS		79,200.00
0185	TML INTERGOVERNMENTAL RISK POO	R	4/03/2024			009667		2,570.00
			*** VENDOR TOTALS ***			1 CHECKS		2,570.00
0143	UNITED STATES POSTAL SERVICE	R	4/25/2024			009689		993.22
			*** VENDOR TOTALS ***			1 CHECKS		993.22
0112	VERIZON WIRELESS	R	4/17/2024			009683		217.83
			*** VENDOR TOTALS ***			1 CHECKS		217.83
0356	WALLACE CONTROL & ELECTRIC, IN	R	4/17/2024			009684		2,428.00
			*** VENDOR TOTALS ***			1 CHECKS		2,428.00
0127	WASTE CONNECTIONS LONE STAR, I	R	4/03/2024			009668		12,713.12
0127	WASTE CONNECTIONS LONE STAR, I	R	4/30/2024			009696		12,759.91
			*** VENDOR TOTALS ***			2 CHECKS		25,473.03
0164	YOUNGBLOOD AUTOMOTIVE & TIRE	R	4/11/2024			009676		396.90
			*** VENDOR TOTALS ***			1 CHECKS		396.90

* * T O T A L S * *	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	39	214,863.61	0.00	214,863.61
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	7	8,225.50	0.00	8,225.50
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	0	VOID DEBITS 0.00		
		VOID CREDITS 0.00	0.00	0.00

TOTAL ERRORS: 0

VENDOR SET: 01 BANK: 50AP TOTALS:	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
	46	223,089.11	0.00	223,089.11
BANK: 50AP TOTALS:	46	223,089.11	0.00	223,089.11

VENDOR SET: 01 City of Bruceville-Eddy
BANK: 50SD SECURITY DEPOSIT
DATE RANGE: 4/01/2024 THRU 4/30/2024

VENDOR I.D.	NAME	STATUS	CHECK DATE	INVOICE AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
1	BENTWOOD PROPERTIES	R	4/11/2024			001780		177.29
1	HERNANDEZ, JOSE	R	4/11/2024			001781		119.42
1	SNAPP, JOE	R	4/11/2024			001782		200.00
1	JONES, ROBERT BRADLE	R	4/11/2024			001783		9.86
1	4 SONS TRUCKING INC	R	4/16/2024			001784		125.05
*** VENDOR TOTALS ***						5 CHECKS		631.62

* * T O T A L S * *	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	5	631.62	0.00	631.62
HAND CHECKS:	0	0.00	0.00	0.00
DRAFTS:	0	0.00	0.00	0.00
EFT:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
VOID CHECKS:	0	VOID DEBITS 0.00		
		VOID CREDITS 0.00	0.00	0.00

TOTAL ERRORS: 0

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
VENDOR SET: 01 BANK: 50SD TOTALS:	5	631.62	0.00	631.62
BANK: 50SD TOTALS:	5	631.62	0.00	631.62
REPORT TOTALS:	115	362,840.96	0.00	362,840.96

Agenda Item # 12

RESOLUTION 5-23-2024-2

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BRUCEVILLE-EDDY, TEXAS, AWARDING CONTRACTS FOR CONSTRUCTION RELATED SERVICES TO _____, _____, _____, AND _____; ALL AWARDS BEING CONTINGENT UPON THE CITY BEING ABLE TO OBTAIN ADDITIONAL FUNDING FROM USDA, FOR A NEW SEWER SYSTEM UNDER THE CATALOG OF FEDERAL DOMESTIC ASSISTANCE PROGRAM, WATER AND WASTE DISPOSAL SYSTEMS FOR RURAL COMMUNITIES; AUTHORIZING THE MAYOR TO TAKE ALL ACTION NECESSARY TO COMPLY WITH THE RESOLUTION; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City Council of the City of Bruceville-Eddy desires to award a contract for construction related services and execute an agreement between the City of Bruceville-Eddy and _____, _____, _____, and _____; for a new sewer system in Bruceville-Eddy, Texas

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BRUCEVILLE-EDDY, TEXAS:

1. The above and foregoing premises are true and correct and are incorporated herein and made a part hereof for all purposes.
2. The bids for construction services for a new sewer system are hereby awarded to _____, _____, _____, and _____; and the Mayor is authorized to enter into an agreement with each awardee for their respective services.
3. That the awards be contingent upon the City of Bruceville-Eddy being able to obtain additional funding from the United States Department of Agriculture for the project.
4. This resolution shall take effect immediately from and after its passage.

Passed and approved this ____ day of _____, 2024.

Mayor
City of Bruceville-Eddy, Texas

City Secretary
City of Bruceville-Eddy, Texas

Agenda Item # 13

RESOLUTION 5-23-2024-3

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BRUCEVILLE-EDDY, TEXAS, AUTHORIZING THE REQUEST OF ADDITIONAL FUNDING AS WELL AS THE SUBMISSION OF AN ADDITIONAL APPLICATION TO THE UNITED STATES DEPARTMENT OF AGRICULTURE FOR A NEW SEWER SYSTEM UNDER THE CATALOG OF FEDERAL DOMESTIC ASSISTANCE PROGRAM, WATER AND WASTE DISPOSAL SYSTEMS FOR RURAL COMMUNITIES.

WHEREAS, the City Council of the City of Bruceville-Eddy desires to develop a viable community, including decent housing and a suitable living environment in addition to expanding economic opportunities; and

WHEREAS, the City Council of the City of Bruceville-Eddy believes it is in the best interest of its' citizens, our community, and our shared environment to replace aging septic systems with a sanitary sewer system; and

WHEREAS, it is necessary and in the best interest of the City of Bruceville-Eddy to request additional funding in the form an additional loan and grant from the United States Department Of Agriculture; and

WHEREAS, the City Council of the City of Bruceville-Eddy is committed to compliance with federal, state, and program rules; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BRUCEVILLE-EDDY, TEXAS:

1. That an application and supporting documentation for a new sewer system under the catalog of federal domestic assistance program, water and waste disposal systems for rural communities is hereby authorized to be filed on behalf of the City with the United States Department of Agriculture for further consideration and approval.
2. That the application be for _____ of grant and loan funds for the new sewer system project.
3. That the City specifically petitions the United States of Department of Agriculture for additional grant funding for this project.
4. That all funds will be used in compliance with all applicable federal, state, local and programmatic requirements including, but not limited to, environmental review, labor standards, procurement, acquisition of property, civil rights, and administrative requirements.

Passed and approved this ____ day of _____, 2024.

Mayor
City of Bruceville-Eddy, Texas

City Secretary
City of Bruceville-Eddy, Texas

ORDINANCE NO. 5-23-2024-1

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF BRUCEVILLE-EDDY, TEXAS, RENEWING A TEMPORARY MORATORIUM ON THE ISSUANCE, AUTHORIZATION, AND APPROVALS OF NEW WATER METERS ON RESIDENTIAL AND COMMERCIAL PROPERTIES WITHIN CERTAIN PORTIONS OF THE CITY LIMITS, ETJ, AND CCN OF THE CITY'S WATER SERVICE AREA, PROVIDING FINDS OF FACT, APPLICABILITY, PURPOSE, ENACTMENT, DURATION, EXTENSION, AND EXCEPTIONS AND WAIVERS; PROVIDING FOR SEVERABILITY, REPEALER, ENFORCEMENT, PROPER NOTICE AND MEETING, AND AN EFFECTIVE DATE.

WHEREAS, the City Council (the "City Council") of the City of Bruceville-Eddy ("City"), as a duly elected legislative body, finds that it is in the best interest of the City and its citizens to renew and enact a temporary moratorium and suspend the issuance, authorization, and approvals for new water meters for both residential and/or commercial properties located: (i) in the portion of Falls County that is east of Interstate Highway 35 and outside the corporate limits of the City, and (ii) properties abutting Bruceville Lane in McLennan County ("Moratorium Area"); and

WHEREAS, Texas Local Government Code Section 51.001 provides the City general authority to adopt an Ordinance or police regulations that are for the good government, peace, or order of the City and is necessary for carrying out a power granted by law to the City; and

WHEREAS, as codified in Texas Water Code Chapter 552, Subchapter A, the Legislature of the State of Texas granted municipalities the authority to own and operate "utility systems," which include water systems designed to provide domestic consumption of water; and

WHEREAS, Texas Water Code Section 552.015 grants Type A general-law municipalities the authority to provide for municipal water supply systems; and

WHEREAS, the City owns and operates a permitted municipal water utility serving customers both inside and outside the city limits; and

WHEREAS, the City has determined that it is necessary to the health, safety, and welfare of the people in the City limits, ETJ, and CCN to encourage and promote the development and use of the City's water utility and supply systems to serve the water provision needs of the citizens in the City limits, ETJ, and CCN to prevent failure of water supply within the system; and

WHEREAS, the City Council finds it to be in the public interest, and necessary for the public health, safety and welfare, that steps be taken to secure additional water supply and appurtenances for the City's utility; and

WHEREAS, the City Council has been briefed by the City Engineer on the status of the current system, future projections, and anticipated supply/demand issues; and

WHEREAS, the City Council finds that certain essential public water infrastructure, supply, and improvements in the Moratorium Area are inadequate and insufficient to adequately serve new development; and

WHEREAS, relying on the analysis provided by City staff, the City makes the following findings:

1. Taking in account all water that has been committed by contract, the City's current water facilities are inadequate to serve the Moratorium Area;
2. The moratorium is reasonably limited to the Moratorium Area; and
3. The City is actively working to correct the issues that precipitated the need for the moratorium.

WHEREAS, upon review of the analysis by the City Administrator, the City Council has made findings contained here as **Attachment A** related to the inadequacy of existing essential public facilities in accordance with Section 212.135 of the Texas Local Government Code; and

WHEREAS, the City Council concludes that the City must continue the process for expanding the water utility's capacity to serve the community in face of recent growth and future needs; and

WHEREAS, the City Council finds that the enactment of this Ordinance is directly related to the immediate preservation of the public peace, health, or safety; and

WHEREAS, the City held the required public hearings needed to adopt this ordinance; and

WHEREAS, the notice of the public hearing on the moratorium before the City's City Council was published in a newspaper of general circulation on May 9th, 2024, said date being the date allowed for publication of legal notices by the newspaper of general circulation; and

WHEREAS, the City Council strives to be diligent and responsive, and to continue making its best efforts to achieve compliance and efficiency.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE
CITY OF BRUCEVILLE-EDDY, TEXAS:**

Section 1. INCORPORATION OF RECITALS/FINDINGS OF FACT

The recitals contained in the preamble of this ordinance are incorporated into the body of this Ordinance as it set out fully herein as legislative findings of fact.

Section 2. APPLICABILITY

The City of Bruceville-Eddy hereby enacts this Ordinance in order to implement an immediate temporary moratorium on the issuance of all new water meters on residential and/or commercial properties located: (i) in the portion of Falls County that is east of Interstate Highway 35 and outside the corporate limits of the City, and (ii) outside the corporate limits of the City, and (ii) properties abutting Bruceville Lane in McLennan County ("Moratorium Area"); This temporary moratorium applies to both current and future municipal water utility customers being served within the Moratorium Area, unless a request for a water meter falls within an Exception (as provided below).

Section 3. PURPOSE

This temporary moratorium is being enacted to maintain the *status quo*, and to update the City's water utility infrastructure and supply.

Section 4. ENACTMENT

The City of Bruceville-Eddy enacts this Ordinance implementing a temporary moratorium on the City's acceptance, review, approval, and issuance of all new water meters on residential and/or commercial properties in the Moratorium Area.

Section 5. DURATION

Pursuant to Texas Local Government Code Section 212.136, the renewal duration of this temporary moratorium shall be for a period of two hundred and eighty-one (281) days after enactment of this Ordinance, or repeal of this Ordinance by the City, whichever is sooner.

Section 6. EXTENSION

If the City determines that the duration period is insufficient for the City to fully complete its needed improvements, this Ordinance may be renewed or extended for an additional period of time necessary to complete the implementation of improvements to repeal the moratorium.

Section 7. EXCEPTIONS

- A. Any property owner who believes that he or she falls within the below exceptions shall provide notice of the exception at the time of application for a water meter. Requests for exceptions are to be forwarded to the City Council who must vote on whether to grant the exception request within 10 days after the date of receiving the written request.
- B. The moratorium adopted by this ordinance does not apply to any water meter requests that are currently, actively in progress for which a valid request has been received.
- C. Any property owner with an approved development agreement whose property is located within the Moratorium Area is excepted from the provisions of this ordinance.
- D. Property owners agreeing to construct certain water infrastructure at property owners' sole expense may apply for an exception to this Ordinance.

Section 8. REPEALER

In the case of any conflict between other provisions of this Ordinance and any existing Ordinance of the City, the provisions of this Ordinance shall control.

Section 9. SEVERABILITY

If any article, paragraph, sentence, subdivision, clause, phrase, or section of this Ordinance be adjudged or held to be unconstitutional, illegal, or invalid, the same shall not affect the validity of this Ordinance as a whole, or any part or provision thereof other than the part so decided to be invalid, illegal, or unconstitutional, and shall not affect the validity of this Ordinance as a whole.

Section 10. ENFORCEMENT

The City shall have the power to administer and enforce the provisions of this Ordinance as may be required by governing law. Any person violating any provision of this temporary

moratorium is subject to a suit for injunctive relief as well as prosecution for criminal violations, and such violation is hereby declared to be a nuisance.

Nothing in this Ordinance shall be construed as a waiver of the City's right to bring a civil action to enforce the provisions of this Ordinance and to seek remedies as allowed by law and/or equity.

Section 11. PROPER NOTICE AND MEETING

It is hereby officially found and determined that the meeting at which this Ordinance was passed was open to the public, and that public notice of the time, place, and purpose of said meeting was given as required by the Open Meetings Act, Texas Government Code, Chapter 551. Notice and public hearings were also provided as required by Texas Government Code Chapter 212, Subchapter E.

Section 12. EFFECTIVE DATE

This Ordinance shall be effective immediately upon passage.

**READ, PASSED, AND APPROVED ON BY THE CITY COUNCIL OF
BRUCEVILLE-EDDY, TEXAS, THIS _____ DAY OF _____ 2024.**

Linda Owens, Mayor

ATTEST:

Pam Combs, City Secretary

ATTACHMENT A

JUSTIFICATION FOR RENWAL OF MORATORIUM

SHORTAGE OF ESSENTIAL PUBLIC FACILITIES; WRITTEN FINDINGS OF FACT AND EVIDENCE RELATING THERETO

As determined by two separate and independent hydraulic analyses, commissioned and completed by two separate and independent registered engineering firms with the State of Texas, portions of the Bruceville-Eddy Water System have been found to be deficient to provide proper pressure and distribution capacity and that certain essential public water infrastructure, supply, and improvements are inadequate and insufficient to adequately serve new development.

The findings from the aforementioned analyses were presented by both oral report and supporting documentation to the public and City Council at meetings held on November 16th, 2022 and October 12th, 2023 by Tabor and Associates and MRB Group, respectfully.

It has been determined that the Ford pressure plane and the water distribution lines east of I-35, with few exceptions, have facilities operating near, at, or beyond capacity. This has resulted in all property located within the aforementioned area being insufficient of existing essential public facilities, and thus has been denied for further development.

The City of Bruceville-Eddy does not currently have revenue from established impact fees. The City has however engaged with our engineering firm to develop a proposal to begin the process of establishing these cost offsets, as required by law.

Lastly, the City of Bruceville-Eddy has been making significant strides towards improving the distribution of water in the affected service area. It has been engaging with our engineering firm on the issue and currently has improvement plans under design, permitting, and property acquisition.

Phase one improvement plans are currently 100% complete and we are now awaiting the approval of a TXDOT permit to construct within their right-of-way. This specific project, one of several needed, is expected to be completed by early 2025.

The City of Bruceville-Eddy water system has completed a feasibility study and selected a site for a new ground water well and distribution site in Falls County. Negotiations are currently underway with property owners, and we are actively researching appropriate financing mechanisms.

Agenda Item # 17



January 3, 2024

Dear City Of Bruceville Eddy:

Texas Rural Water Association invites you to join our organization. TRWA is a trade association that specializes in water/wastewater system operator training, technical assistance with financial, managerial, and technical matters, and provides a host of services to our members to assist them in their day-to-day efforts to provide safe drinking water to their customers. We work hard to ensure TRWA membership provides great value, and we are proud to be your one stop shop for information and resources! Please remember that TRWA's expert staff are a phone call or email away to answer any question you may have. Your membership dues make the many valuable services TRWA offers possible, including:

- Training: Our members receive discounted rates on our TCEQ-approved training courses. We have an excellent selection of in-person, virtual instructor led courses, and self-paced online classes.
- Conferences: Our three premier conferences (WaterCon – March, Tech Conference – July, Office Pros – October) are great opportunities to come together for networking and learning about the latest industry developments.
- Legal Consultation: Our legal team is available to answer members' legal questions by phone or email. They can also assist you with our Sales Tax Exemption and Eminent Domain Reporting Services at discounted rates.
- Advocacy: TRWA passionately represents our members' interests before the legislature and regulatory agencies at the state and federal levels.
- On-site Assistance: Your membership includes on-site technical assistance and training on issues such as preventative maintenance, rate analysis, leak detection, operations and treatment, water audits, regulatory compliance, budgeting, and management.
- District Meetings: We host 24+ regional area meetings across the state where you can engage with fellow water professionals, local leaders, and TRWA board and staff while earning TCEQ approved water/wastewater CEU credits.
- Online Resources: Members enjoy access to online resources, including legal policies, forms and guidance, legislative updates, lead & copper rule compliance information and job board.
- Publications: Your membership includes five subscriptions to *Quench*, our trade magazine (6 issues/year). In 2022, we published a new rate and salary survey which was free for participating members. Our next will be in 2024 so be sure to participate for your free copy.
- GIS Mapping & Drone Services: Through the implementation of GPS and GIS technology, TRWA can effectively produce hardcopy and digital maps to be utilized by system personnel for water and/or wastewater facilities in the state. We can also provide interior/exterior tank inspections with the use of our aerial and submersible drones.

The commitment from our members enables us to be the preeminent water and wastewater association in Texas, working hard to help our members meet the challenges facing our industry.

Thank you for considering membership with TRWA and for the hard work you do every day serving communities across our great state.

Sincerely,

Lara Zent
Executive Director and General Counsel



TRWA 2024 Membership Dues Statement

January 3, 2024

City Of Bruceville Eddy
144 Wilcox Dr
Eddy TX 76524-2587

Welcome to Texas Rural Water Association!

To join TRWA for 2024, you may return this page with your dues payment. Please list your Quench magazine recipients below or visit trwa.org add them to your account once set up. Please consider donating to the voluntary contribution funds. Description of funds are located on the back.

Quantity	Item	Amount
1	Utility Member Dues \$1.45 per water meter 1923 meters (min \$500/ max \$6000)	\$2,788.35
1	Voluntary Building Fund Contribution	\$200
1	Voluntary Disaster Relief Fund Contribution	\$200
1	Voluntary Foundation Contribution* (Scholarship Fund and Workforce Development)	\$150
1	Voluntary Legal Defense Fund Contribution	\$275
	TOTAL	\$2,788.35
	TOTAL PAID	\$

Texas Rural Water Association is a 501 (c)(6) nonprofit organization. Membership fees paid to TRWA are not deductible as charitable contributions for federal income tax purposes. Members are advised that 100% of TRWA's membership dues are budgeted for lobbying expenditures and are not deductible for federal income tax purposes. Application for membership and remittance of dues payment to TRWA indicates written authorization from your corporation for the Texas Rural Water PAC to solicit the directors and senior management employees (qualified restricted class) of your affiliate utility for personal voluntary contributions to the PAC in accordance with all applicable state and federal laws. If this authorization is not granted, please indicate it on your dues statement or by contacting TRWA. * Contributions to the Foundation are tax-deductible.

QUENCH Magazine Recipients (Your membership includes 5 copies to distribute to staff or board members. Additional copies can be purchased as needed)

NAME	ADDRESS

MAIL THIS FORM WITH YOUR DUES CHECK PAYABLE TO:
TRWA, 1616 Rio Grande Street, Austin, TX 78701 (512) 472-8591 | Fax (512) 472-5186
For TRWA voting eligibility, please renew by March 26, 2024. Thank you!

VOLUNTARY CONTRIBUTIONS ACCEPTED

TRWA relies on voluntary contributions from its members for the Texas Rural Water Foundation, Legal Defense Fund, Building Fund and Disaster Relief Fund, described below. The enclosed dues statement reflects a suggested level of contribution for each of these funds. Your system may contribute more or less than the amount suggested by striking through the suggested amount and writing in the amount you would like to contribute. Thank you for your support.

TRWA LEGAL DEFENSE FUND

The TRWA Legal Defense Fund was established in 1988 to provide members with legal assistance in the protection of water system rights and responsibilities in cases before the regulatory agencies and courts. Funding priority is given to legal cases having statewide implications. TRWA has recently used this fund to file amicus briefs supporting TRWA members in cases before the Public Utility Commission of Texas on precedent-setting issues. In determining the amount of assistance to be granted to a member, the TRWA Board may consider the merits of the legal issue, the probability of a successful resolution, and the value of a favorable resolution to other member water systems.

TEXAS RURAL WATER FOUNDATION

The Texas Rural Water Foundation (Foundation) is a 501(c)(3) tax-exempt nonprofit organization established in 2010 as a supporting organization to TRWA. Donations to the Foundation support our Student Scholarship Program which recognizes and assists qualified individuals in their pursuit of higher education. Donations also support our Rural Water Workforce Initiative, including our Apprenticeship Program. This Program launched in 2022 and strives to attract new talent, including veterans, to our industry and provide them with a strong foundation of classroom and on-the-job training. Contributions to the Foundation are tax-deductible.

TRWA BUILDING FUND

The TRWA Building Fund was established in 1986 to assist the Association in purchasing and maintaining our headquarters building located convenient to the Texas Capitol and state agencies. Members are asked to make contributions to the Building Fund to provide upkeep, maintenance and repairs. Your financial assistance toward these efforts is sincerely appreciated.

TRWA DISASTER RELIEF FUND

The TRWA Disaster Relief Fund was established in 2005 in the aftermath of Hurricanes Katrina and Rita. The Fund assists rural water and wastewater utilities in Texas and neighboring states that need assistance in the event of a disaster or local emergency situation. Priority assistance is given to member utilities in need of equipment, manpower, supplies, food, water, and other basic necessities to get their utility operational.

★ Progress through Unity

The Texas Rural Water Association is a statewide educational and trade association that represents the full spectrum of the rural water community. We are dedicated to helping water and wastewater systems provide efficient service and clean, safe drinking water to their customers.

We have an active membership of approximately 850 retail public utilities that provide water and wastewater service to 3 million customers throughout Texas. We also have more than 150 industry suppliers and professionals that make up our Associate Membership.

Since 1969, TRWA has been well-respected in the industry for the high-quality support we provide to our members. Through a robust offering of member benefits, we are here to help you meet the ever-changing challenges facing the industry.



★ What Our Members are Saying

"The information support is wonderful. There hasn't been a question yet that TRWA has not been able to answer for us."

"Our circuit rider is a wealth of information and always has an answer or will get an answer to any questions we may have."

"I always know that I can call TRWA at any time to get help with anything."

"When we are in need of answers or help, TRWA is there to guide us."

"We love the up-to-date information and answers to technical and legal questions when we need it."

"We love the visits from TRWA staff!"

★ Membership

TRWA Utility Membership is comprised of water and wastewater retail utilities and wholesale suppliers, including nonprofit water supply and/or sewer service corporations, water districts, small municipal utilities and small, privately-owned water utilities.

Once your utility is a member, anyone on your staff can utilize our wide selection of member benefits. Employees of our Utility Members may create an individualized profile on our website that will include:

- Access to various member-only resources and sample policies
- Discounts on training and conferences
- Digital issues of Quench
- Archived responses to technical and legal questions submitted by our members
- A current version of our membership directory

Our Member Services team is happy to help you set up your profile and get you access to the resources you need. Email them at membership@trwa.org or call them at (512) 472-8591 if you have any questions or would like to sign up for membership today!

★ Signing up is Easy!

Visit www.trwa.org and click on the "Membership" tab to download an application or to apply online. Once you've joined, you can enjoy immediate access to our member benefits! You can also look forward to receiving your welcome packet in the mail.

Contact us:

membership@trwa.org

Phone: 512-472-8591

Fax: 512-472-5186

1616 Rio Grande | Austin, TX 78701



JOIN TRWA



TEXAS RURAL WATER ASSOCIATION

Together we can
improve water supply and
quality to better serve
our rural Texas communities.

Don't Miss Out on these Membership Benefits

★ Advocacy and Legal Services

We are passionately engaged in representing our members' interests at both the state and federal legislative levels. Here are just a few of the ways we advocate for our members:

- We draft bills that represent our members' interests and work to secure sponsors in the legislature.
- We promote favorable legislation and defend against unfavorable legislation.
- We regularly meet with lawmakers to educate them about our issues and cultivate relationships at the Capitol.
- We provide testimony to state legislative committees on drinking water-related issues and concerns.
- We operate the Texas Rural Water Political Action Committee, pooling contributions to support candidates that champion our cause.

We are also proud to be your voice for sensible and cost-effective regulatory programs at the state and federal level.

- Our staff sits on and actively participates with several water-related regulatory committees.
- We regularly meet with state agency staff, attend stakeholder meetings and provide comments on rule packages.

Our members agree that our legal services are an unmatched resource for the rural utility manager:

- Our attorneys and paralegal are available to respond to member inquiries, provide consultation, and file your eminent domain yearly report.
- We publish articles and columns on legal issues to educate our members.
- We file amicus briefs in precedent-setting legal cases.
- We provide legal resources, such as sample personnel policies, service policies, board policies, and a catalog of legal filing requirements.



★ Education and Training

TRWA provides live in-person, virtual, and self-paced online courses that are TCEQ-approved and specifically designed to meet the needs of water/wastewater operators, managers and board members. Whether you need credits to renew your operator license or you are interested in earning a professional designation through a nationally recognized utility management certification program, TRWA has a solution for you.

Members also receive discounts to our annual conferences to learn about hot topics while earning continuing education credit and networking with fellow industry professionals. We hold three conferences per year geared toward technical staff, utility managers, administrators, water district personnel and more! Visit our website for details on upcoming events.

★ Financial, Managerial and Technical Assistance

We take pride in our onsite assistance programs that are highly regarded by the regulatory agencies and utilities across the state. Our seasoned field staff are available year-round to provide you with the water and wastewater financial, managerial and technical assistance you need. Some of the common issues we deal with include:

- Water and wastewater system operations
- Regulatory guidance
- Compliance issues
- Treatment optimization
- Water loss, leak detection, and meter testing
- Rate calculations and analysis
- Budget management
- Personnel policies
- Utility mergers and acquisitions
- Energy efficiency
- Source water protection
- GIS mapping and drone services

★ Communication

Members enjoy a subscription to our award-winning trade magazine, *Quench*. This bi-monthly publication focuses on all things water and includes columns by industry experts addressing questions submitted directly by membership. You can also enjoy full access to the TRWA website, which includes training materials, sample forms, guidelines and worksheets, along with hot topics and legislative updates.

We stay in touch with membership via mail, fax, phone, e-mail, social media and on the web to ensure you are in the loop on matters that affect the way you do business. We are committed to keeping you informed and well-equipped to meet the challenges facing rural water systems today.

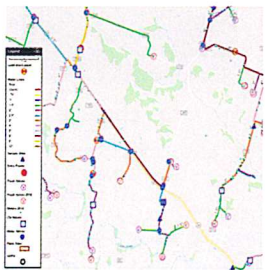
Leak Detection/Smoke Testing



TRWA field staff provides assistance to water and wastewater systems in identifying real and apparent water loss, as well as inflow and infiltration (I&I) in collection systems. Our staff can assist with water audits, locating & calculating leaks, and smoke testing utilizing a variety of different equipment and processes to help pinpoint the trouble areas of the system.

TRWA uses state of the art equipment and are always updating to new technologies to better assist our members.

**Water/Wastewater Mapping & Asset Management



TRWA's GIS Team has 27 years of combined experience in capturing assets for water/wastewater systems and developing an accurate, user friendly program that operators, managers, and office staff alike can benefit from in the day-to-day business of operating and maintaining a utility.

Our team uses multiple GIS platforms to cater to the system's experience and needs to ensure easy use and implementation. We also offer annual maintenance contracts to keep your system maps current as you grow or change. Check with our Membership Department or email trwamapping@trwa.org.

**Tank Inspection & UAV Services



The association has recently added Unmanned Aircraft Vehicle (UAV) or drone services for our members. This service includes a variety of possible uses such as tank inspections, capturing project progress, leak

detection by aerial identification and thermal imagery, and mapping. TRWA also has a ROV or underwater drone for interior tank inspections. For more information or a quote, contact membership@trwa.org.

Flow Meter Testing



Water and wastewater systems are required to test production meters on a regular basis set by TCEQ and maintain certifications of those tests. Maintaining accurate meters is key to capturing needed revenue for your system, as well as minimizing water loss. TRWA now offers testing

free for members using our ultrasonic flow meter and will provide the testing certificate for your records. TRWA does not calibrate or repair meters that are out of range or inaccurate, but can provide suggestions for your system in such cases.

Generator Loans & Emergency Response



TRWA owns and maintains a fleet of mobile generators that are used during emergency situations. As a partner with TxWARN, we assist in coordinating resources to aid water/wastewater systems in the time of need.

TRWA's generators can be used during local outages or maintenance downtimes and not only during declared events. Simply contact us at (512) 472-8591 or for 24-hour emergency assistance call **(866)-586-6480**.

Rate Studies



TRWA offers free rate studies for your utility to ensure you are capturing the necessary revenues to efficiently maintain your system and plan for capital improvements. This process requires participation from your utility staff to

gather the system's financial information, an annual budget and/or audit, and a Capital Improvement Plan (CIP) to accurately project the needed revenue for the system. TRWA's Financial, Managerial, and Technical Assistance program can assist with creating a budget and CIP if they are not available. The rate study service is provided through our USDA Circuit Rider program. Contact TRWA or your area Circuit Rider for more information.



Texas Rural Water Association

Member Services

TRWA.org | (512) 472-8591 | Membership@trwa.org

Technical Assistance



TRWA provides free, onsite assistance for financial, managerial, and technical tasks. Through the use of our USDA Circuit Rider program, as well as our TCEQ FMT assistance contract, we can schedule to work with you at your convenience and help resolve any issues you may be facing. Common tasks include compliance issues, board training, treatment techniques, testing and reporting, operator certification tutoring, and much more. We can also provide guidance on financial resources available throughout the state.

Emergency Funding (NRWA)



As a TRWA member, you have access to emergency funding through the National Rural Water Association. This fund allows up to \$100,000 or 75% of the total project and can be obtained within 72 hours for emergency events and has a 90-day zero interest term. Other terms are available for up to 10 years with interest rates below market rates. For more information contact your Circuit Rider or visit <https://www.trwa.org/page/funding>.

Legal Assistance & Services

Have a legal question? As a member you can call or email to get those questions answered as part of your membership at no additional charge.

Texas law requires all entities with eminent domain authority such as water and wastewater supply corporations, water districts (special utility districts, water improvement districts, municipal utility districts, etc.) and cities to file each year. TRWA's legal team provides assistance with this on an annual basis for a nominal fee.

In addition, TRWA also assists with filing for tax exemption status with the state. Often times WSCs assume that exemption from sales tax is automatic by creating the corporation. However, these entities are required to complete the exemption filing to obtain this status. Contact TRWA's legal team to learn how they can assist you in these areas.

District Meetings & Conferences



TRWA hosts three conferences per year with a focus on industry topics such regulatory compliance, finance and management, and operations. Our conferences are also a great opportunity to network with other industry professionals and service and supply vendors. Our conference schedule includes our Annual convention in the spring, our Technical Conference in summer, and our Office Professionals Conference in the fall. For details on our conferences and agendas, visit <https://www.trwa.org/page/182>

TCEQ Approved Training Courses

We offer more than 25 different water and wastewater courses approved by TCEQ. Courses are offered in person, live virtual classes, and online self-paced. If you are interested in hosting a class at your utility, contact TRWA Training Department to schedule. For a complete listing of our current courses and schedules, visit <https://www.trwa.org/page/training>



Apprenticeship Program

The TRWA Registered Apprenticeship Program is a combination of On-the-Job Training (OJT) and Related Technical Instruction (RTI) in which the apprentice learns the practice, theoretical aspects, and concepts of the occupation. The program is designed to enhance and prepare the apprentice to be fully qualified in multiple aspects of the water/wastewater industry. Upon 6 months of completing the program, apprentices are eligible to apply for their B License.

To learn more and find out how your system can participate, contact us at apprenticeship@trwa.org or (512) 428-5754. Ask for TRWA's Apprenticeship Program Manager

Much More!

To find out more information about these and a variety of other services and programs TRWA provides, visit trwa.org, email membership@trwa.org, or call (512) 472-8591.

**indicates an additional fee to utilize the service, but only offered to members

Line Cost

Membership dues are based on the number of water meters a system has. We also put a minimum and maximum cap on the cost of membership to keep dues fair and predictable.

minimum **\$500**   **\$6,000** maximum



The Benefits

Education & Training

3
TRWA Conferences held annually

\$50
Savings members enjoy per conference registration



28
\$75
Savings members enjoy per classroom training registration

Number of different classroom training courses we provide
\$50
Savings members enjoy on Public Funds Investment Act training

Legal Consultation

\$350 Average hourly rate for attorney consultation on legal questions
\$150 Average hourly rate for paralegal services



Consultation services are included with TRWA membership.

\$200
Amount members save when using our Sales Tax Exemption Service

\$50
Amount members save when using our Eminent Domain Reporting Service

Cost to hire someone to create a sample tariff or district service policy **\$3,000**

Cost of TRWA's sample tariff or district service policy **\$0**

Advocacy

All advocacy services are included with membership

\$5000
Average monthly cost of hiring lobbyists to advocate for you at the capitol.



We represent member interests at state & federal agencies. We regularly meet with agency staff, attend stakeholder meetings & provide comments on rule packages. Estimated monthly value:

\$1600



We keep abreast of regulatory updates & pass that information along to our members. Estimated monthly value:

\$500



Technical Assistance

\$75/hr + travel

Value of an on-site technical assistance system visit

\$75/hr

Estimated value of answering member technical questions by phone and email.



Daily cost to rent a generator for use during emergency **\$400**

Members have access to use TRWA-owned generators at no cost during emergencies.



Member Services

TRWA offers members a wide variety of services to help optimize member systems and troubleshoot problems.

\$50

Member discount on online job postings



Members can get free or discounted smoke testing, tank inspection and drone services, water audits, leak detection and much more.

1/3

Mapping services offered to members at one-third of standard rates

\$150

per meter

Flow testing completed for free by circuit riders

Communications and Publications

\$500
per document

Members enjoy free access to online resources, including sample templates & forms; operations & maintenance manual/required monitoring plan; WSC election procedures; rate study worksheet; vulnerability assessment; emergency response plan; SUD conversion manual, & more!

\$150

Membership includes 5 subscriptions to our bimonthly trade magazine, Quench, valued at \$30 each

\$1,050

Our online & print membership directories are free for members. It typically costs \$1 per entry to buy comparable industry directories.

The value is clear!



Registered Apprenticeship Program

About the Program

The TRWA Registered Apprenticeship Program is a combination of On-the-Job training (OJT) and Related Technical Instruction (RTI) in which the apprentice learns the practice, theoretical aspects, and concepts of the occupation. The program is designed to enhance and prepare the apprentice to be fully qualified in multiple aspects of the water/wastewater industry.

**How will your
utility adapt to a
shifting workforce?**



Join the Upcoming Cohort

Cohorts are hosted every January and July! Join one now and help build a pipeline of skilled workers in the water/wastewater industry. Contact the Program Manager to learn more about how you can participate and secure your spot today! 512-472-8591 Ext 107

Apply for Training Funds

Don't let cost be a barrier to training your workforce. Our program offers funding opportunities, such as the Workforce Education Fund, and can help you find funding through workforce development in Texas.

Invest in your workforce

Invest in your system's future by upskilling your workforce with our Registered Apprenticeship Program. With recruiting opportunities or training for incumbent employees, we can help you build a strong and skilled team. **We love incumbents and can give up to 1,000 hours of credit!**

Want More Information? For more information contact TRWA's Apprenticeship Team at apprenticeship@trwa.org or visit our website at www.trwa.org/rap.

Agenda Item # 18



May 13, 2024

Bruceville-Eddy
144 Wilcox Dr
Eddy, TX 76524



Dear Esther Moreno,

Thank you for your continued partnership with the TX Health Benefits Pool. We're proud to serve public entities like yours, with a Board of Trustees composed entirely of current or former local government officials. This unique governance ensures that your voice is heard in shaping your healthcare coverage.

While the past couple years brought pandemic challenges with high medical costs, we've turned the corner thanks to your support. We're in a stronger position now, with a healthier Pool and slower cost increases, which means more stable rates for you this year.

Here are some exciting enhancements for the upcoming plan year:

- **NEW Circle Wellness:** Free on-site health screenings to detect issues early and reduce treatment costs.
- **NEW Twin Health:** Our pilot project aims to help members with type 2 diabetes live healthier and potentially reverse their condition through a partnership with Twin Health.
- **Continued Surgery Plus:** We're continuing our partnership to offer high-quality, cost-effective surgical care, with significant savings for your employees.
- **Member Rewards:** Get cash back when using cost-effective providers for imaging/tests.

Your marketing rep Liliana Valadez will reach out soon to discuss your renewal options, budget fit, and potential savings with an HMO, health accounts like HSAs, or our Direct Primary Care plan.

Open enrollment is scheduled for 07/08/2024 - 07/22/2024. We offer convenient self-service and phone enrollment options to make it easy for your employees.

To ensure a smooth transition, please provide your renewal decision at least 90 days before your anniversary date of 09/01/2024. Liliana Valadez can assist you with completing the renewal form. You can reach Liliana Valadez at 512-719-6584 and Liliana.Valadez@txhb.gov.

Thank you for your continued trust. We look forward to serving you and your employees again this year.

Sincerely,

A handwritten signature in black ink that reads "Jennifer Hoff".

Jennifer Hoff
Executive Director

Follow us:
[@TXHealthBP](https://twitter.com/TXHealthBP)



800-282-5385

For more information, visit us at
www.txhb.gov



Renewal Notice and Benefit Verification Form

Bruceville Eddy

Original

Plan Year 09/01/2024 - 08/31/2025 (12 Months)

IMPORTANT NOTICE: A signed renewal is required by the due date in your cover letter. If TX Health Benefits Pool does not receive the fully executed renewal notice by the indicated due date, you will no longer have an option to change benefits which will result in renewal of the benefit plans listed below at the new rates and the current employer contributions.

Medical

Employer Group Medical Plan

Plan	Benefit Percent	In Net Ded	Out Net Ded	In Net OOP	Office Visit	Rates	Current	New
Coplay-3K-5K ER-DAW1&2	80/50	\$3000	\$6000	\$5000	\$30	EE Only:	\$614.08	\$632.50
						EE + Spouse:	\$1,246.56	\$1,283.96
						EE + Child(ren):	\$1,080.76	\$1,113.18
						EE + Family:	\$1,811.48	\$1,865.82

In Network Deductible applies towards In Network OOP.

Medical Plan Accumulators will be based on Plan Year.

Monthly Employer Contribution Amounts

TX Health Benefits Pool requires 60% employer contribution toward employee medical – Minimum employer contribution is \$379.50.

Please enter your monthly employer contribution amounts for active employees here, in dollars or percentages:

Plan	EE Only:		EE+Spouse*:		EE+Child(ren)*:		EE+Family*:	
	Amount	% of Rate**	Amount	% of Rate**	Amount	% of Rate**	Amount	% of Rate**
Coplay-3K-5K ER-DAW1&2	\$_____ or _____%		\$_____ or _____%		\$_____ or _____%		\$_____ or _____%	

*If entering contributions in dollars, the dependent tier(s) **must** include the EE Only amount paid by employer in addition to any employer paid amounts for dependents. Percentages for dependent tier(s) will apply to the dependent tier amount less the EE Only amount.

**NOTE: If a contribution percentage is provided, it will be rounded up to the nearest penny.

Are there different contributions based on other factors (ex: hourly vs salary, department or location based)? If so, please explain here:

COBRA Eligibility and Administration (Continuation of Coverage)

COBRA Eligible? No

NOTE: Eligibility status has been ascertained based on the census information you have maintained in TXHB Online for the preceding Calendar Year. You did not have sufficient full-time equivalent employees to be COBRA eligible. Please contact your Account Executive/Account Manager if you consider your reflected eligibility status to be inaccurate.

Benefit Waiting Period

90 days after date of hire

Required Annual Eligibility and Enrollment Information

Please provide the following information:

1. Will you allow Employee Self Service (ESS) via TXHB Online for Open Enrollment and Qualifying Life Events? No Yes

Signature Section

The undersigned employer hereby acknowledges that for an employee to receive coverage, TX Health Benefits Pool must receive enrollment information within thirty-one (31) days of the date of hire or within thirty-one (31) days of the coverage effective date, whichever is later, regardless of whether the Employer has a waiting period or a waiting and orientation period. If an enrollment is not submitted within this timeline, the employee cannot be added to the Plan until the next Open Enrollment period or a qualifying event occurs.

Employer Member Additional Acknowledgements and Agreements

1. Employer Member acknowledges and agrees that its signature on this Renewal Notice and Benefit Verification Form indicates its binding selections for renewal services through TX Health Benefits Pool.
2. Employer Member acknowledges that certain benefit service selections require completion and execution of additional forms and agreements and agrees that it will work with all due diligence and in good faith to complete, execute, and return all necessary forms and agreements to TX Health Benefits Pool prior to the beginning of the Group's open enrollment.
3. Employer Member acknowledges that TX Health Benefits Pool will only allow open enrollment for renewal services in good faith and without receiving all necessary signed benefit service forms and agreements if:
 - A. A signed Renewal Notice and Benefit Verification Form with all necessary Employer Member selections and information has been received; and
 - B. Employer Member has in good faith attempted but failed to approve and return the applicable benefit service forms and agreements timely.
4. Employer certifies that it has adopted an Employee Flexible Benefits Plan under Section 125 of the Internal Revenue Code. This Plan is offered to all eligible employees who are qualified by employment status.
5. Employer certifies that it will provide notice of the creditable status of the coverage it offers to new enrollees prior to the effective date of their coverage, as required by the Medicare Modernization Act.
6. TX Health Benefits requires groups to enroll 100% of their benefit eligible employees. This is also known as the 100% Participation Rule. Employers may have employees that wish to waive Medical coverage through TX Health Benefits Pool, however, waivers may only be granted for the reasons enumerated in your Plan Book.

Please sign by the due date and return this completed form via email to your Account Executive/Account Manager or marketing@txhb.gov.

741893632		
_____ Tax ID Number	_____ Authorized Signature	_____ Date
_____ Printed Name	_____ Title	

The rates are based on census information five months prior to plan year. If the census changes by more than 10%, TX Health Benefits Pool reserves the right to revise rates due to census change and underwriting impact.

Rates are subject to change due to intervening events such as action taken by the TX Health Benefits Pool Board of Trustees, legislation passed during the plan year, or other events affecting benefits.

Supplemental benefits cannot be accessed without accessing the TX Health Benefits Pool Medical Benefit Plan.

YOUR RENEWAL QUOTE INCLUDES PROPRIETARY INFORMATION THAT SHOULD NOT BE SHARED WITH OTHER COMPETITORS OR USED TO CIRCUMVENT THE REQUIREMENTS OF TEXAS COMPETITIVE BIDDING LAWS. IN THE EVENT YOU RECEIVE A RENEWAL QUOTE AND LATER DECIDE TO ISSUE AN RFP, THE RENEWAL QUOTE MAY NOT BE SHARED WITH ANY OTHER COMPETITORS AS DOING SO WOULD DISADVANTAGE TX HEALTH BENEFITS POOL IN THE COMPETITIVE PROCESS. TX HEALTH BENEFITS POOL ALSO RESERVES THE RIGHT TO REVISE PREVIOUSLY ISSUED RATES IN RESPONSE TO YOUR RFP.

**McLENNAN COUNTY 9-1-1 EMERGENCY ASSISTANCE DISTRICT
BALLOT for SEAT TWO**

The nominees are listed below in alphabetical order.
Please select only one from the list:

SEAT TWO
(select one)

_____ **JIM DEVLIN**, City of Hewitt Assistant City Manager

_____ **DANIELLE McGRUER**, Administrative Assistant for Construction Services at MRB Group

_____ **HENRY VAN SMITH**, City of McGregor Emergency Management Coordinator

City of Bruceville - Eddy

Mayor or designee signature: _____

Printed Name and Title: Linda Owens Mayor

Contact Number: (254) 541-5011

Date: _____

Please return this completed ballot to:

**McLennan County 9-1-1 Emergency Assistance District
Attention: Jesse Harrison, Executive Director
107 Burnett Ct.
Woodway, TX 76712**

(A self-addressed stamped envelope is provided for your convenience).

If you prefer not to mail this form, it may be emailed to rguest@mcead911.org, or faxed to (254) 732-0544.

NOTE: Ballot forms MUST be received at the above address no later than 5:00 pm, Wednesday, June 5, 2024.



McLennan County 9-1-1 Emergency Assistance District

Proudly serving the citizens of McLennan County for over 30 years!

April 17, 2024

The Honorable Linda Owens
Mayor, City of Bruceville-Eddy
143A Wilcox
Eddy, TX 76524

Re: Appointment to Seat Two (2) on 9-1-1 Board of Managers

Dear Mayor Owens:

On February 21, 2024, a letter from this office was mailed to each municipality within McLennan County requesting nominees for Seat One (1) and Seat Two (2) on the McLennan County 9-1-1 Board of Managers. During the 45-day collection period that ended April 10, 2024, one individual (Ryan Holt) was nominated for Seat One; therefore, he will remain the representative for that position. For Seat Two (2), three names had been received as nominees. Those names, in alphabetical order, are:

- Jim Devlin (City of Hewitt Assistant City Manager)
- Danielle McGruer (Administrative Assistant for Construction Services at MRB Group)
- Henry Van Smith (City of McGregor Emergency Management Coordinator)

The following pages include a brief personal biography provided by each nominee. Also enclosed is a ballot that is to be used to indicate your city's preference among the three nominees. Please return that ballot either in the provided self-addressed stamped envelope, or by e-mail or fax (both shown on the ballot), by the deadline of June 5, 2024.

When the deadline of June 5, 2024, is reached the ballots will be tabulated, and the individual with a majority of votes cast will be declared the appointee to Seat Two. (Note: Majority is defined as 50% + of the votes cast; not simply more votes than the other nominees. Example: If 10 ballots are returned, and no individual receives six or more, then ballots with the names of the two nominees that received the most votes will be mailed out for a "run-off".) If necessary, this process will repeat until one individual receives at least 50% + of the votes cast, thereby declaring that individual the appointee.

If there are any questions, please feel free to call this office.

Respectfully,

Jesse A. Harrison, ENP
Executive Director

Enclosure

cc: MCEAD 9-1-1 Board of Managers

JIM DEVLIN

Jim Devlin currently serves as the Assistant City Manager for the City of Hewitt overseeing multiple departments in a community of 16,000 residents. He began working for the City of Hewitt in 2009 as the Assistant Chief of Police over operations, assisting with the implementation of Local Government Code 143 Civil Service, policy development, equipment procurement, and professional development of officers and staff. In 2012 Jim was promoted to Chief of Police and served in that capacity for the next eleven years until he was promoted to his current position. Under his tenure as Chief of Police, the department experienced significant growth to meet the development and expectations of the community utilizing a Community Policing framework, built a state-of-the-art Public Safety Facility, increased transparency with citizens and the media, was instrumental in transitioning the agency to the City of Waco Public Safety Radio system, fostered relationships and fundraising with many local non-profit organizations in McLennan County, and led the Hewitt Police Department to achieve Recognized and Accredited Status with the Texas Police Chiefs Association being the sixtieth agency in the State of Texas to attain this designation.

Jim has thirty years of experience in Municipal Government, holds a Bachelor of Science in Organization Leadership from the University of Charleston, is a graduate of the Institute for Law Enforcement Administration's School of Executive Leadership, holds a Master Peace Officer License and Instructor Proficiency Certification from the Texas Commission on Law Enforcement, and is currently enrolled in the Certified Public Manager Course at Texas State University.

Jim currently serves as the Municipality's Representative for the McLennan County 911 Emergency Assistance District, being elected to that position in 2020. During his time on the Board of Directors, Jim has assisted with budget management/direction, and future planning for the 911 District including the move toward Next Generation 911 services, and a member that assisted with adding a county-wide radio system to the M.C.E.A.D. 911 back-up facility.

Jim serves as the President of the McLennan Community College Law Enforcement Academy Advisory Board and currently serves as a police academy law enforcement trainer at M.C.C.L.E.A., instructing in various courses of instruction since 2010. He also serves on the Waco Metropolitan Planning Organization Technical Advisory Committee as well as the M.P.O. Safety Action Task Force.

In 2019 Jim was appointed as the Region 9 Director for the Texas Police Chiefs Association where he served until his promotion to ACM in 2023. He is a past Board Member of the Central Texas Area Police Chiefs and Sheriffs Association and was recently appointed by the Texas Commission on Law Enforcement through the Office of the Governor, to serve as a member of the "Hiring, Personnel File, and Misconduct" Advisory Committee.

Jim is a member of the Texas City Managers Association, National Emergency Number Association, International Association of Chiefs of Police, Texas Police Chiefs Association, Central Texas Area Police Chiefs and Sheriffs Association, and the Greater Hewitt Chamber of Commerce.

DANIELLE McGRUER

PROFILE

My name is Danielle McGruer, and I am excited to bring my eight years of experience in 911 Emergency Communications to the McLennan County 911 Board of Directors. During this time, I have worked for different organizations, such as the City of Flagstaff for two years, Northern Arizona University for five years, and Woodway Public Safety for one year. Last year, I served as the Court Clerk for the City of Bruceville-Eddy and contributed to the city receiving its first Traffic Safety Initiative Award.

I hold a Bachelor of Arts in Political Science and French Studies from the University of Portland. I am also certified in Telecommunications Operations for Arizona and Texas (ALETS/TLETS) and graduated from the McLennan County Emergency Communications Academy in October 2021. In Arizona, I served as a certified trainer and Assistant Systems Security Officer. I have experience writing training manuals, including the City of Flagstaff Fire Training Manual, and was the Lead Trainer for Northern Arizona University.

I have been a resident of McLennan County for three years and have held leadership positions in various non-profits. Currently, I serve as the Recording Secretary for Bruceville-Eddy United Methodist Church. I work for MRB Group, an architectural and engineering firm, as an administrative assistant for construction services. MRB Group works on municipal projects for McLennan County and surrounding Central Texas areas.

I am dedicated to my community, and I believe my experience, dedication, and leadership skills will add value to the McLennan County 911 Board of Directors.

HENRY VAN SMITH

I WAS BORN IN WACO, TEXAS ON JAN. 4 TH. 1954.

I HAVE LIVED IN MCGREGOR, TEXAS ALL MY LIFE.

I ATTENDED THE MCGREGOR SCHOOLS AND GRADUATED IN 1972

I ATTENDED MCLENNAN COMMUNITY COLLEGE AND GRADUATED IN 1975 WITH A ASSOCIATES OF ART DEGREE AND A CERTIFICATE IN MANAGEMENT.

I WAS EMPLOYED BY SAFEWAY FOOD STORES IN 1970 AND WENT FROM SACKER TO ASST. MANAGER BEFORE LEAVING IN 1986.

I WAS THEN EMPLOYED BY TRIAD FOODS IN MCGREGOR AS STORE MANAGER UNTIL 2003, WHEN THE STORE CLOSED.

I WAS THEN EMPLOYED BY DAVIDS FOOD STORE IN 2003 UNTIL PRESENT AS STORE MANGER

I AM A VOLUNTEER FIREMAN WITH THE MCGREGOR FIRE DEPT. SINCE 1972. I HAVE HELD EVERY OFFICE EXCEPT FOR FIRE CHIEF. I AM CURRENTLY VICE PRESIDENT, COMMUNICATIONS OFFICER, AND CERTIFICATION OFFICER.

I AM THE EMERGENCY MANAGEMENT COORIDINATOR FOR THE CITY OF MCGREGOR SINCE 1976.

I HAVE SERVED AS PRESIDENT AND NOW TREASUER FOR THE EMERGENCY COMMUNICATONS TEAM IN MCGREGOR.

I RECEIVED THE CITIZEN OF THE YEAR AWARD IN 2001 AND THE SON OF HERMANS AWARD IN 2002.

I AM MARRIED SINCE 1976 AND HAVE 1 DAUGHTER AND 1 GRANDDAUGHTER.

I OWN ALONG WITH MY WIFE IRENE'S FLOWERS AND GIFTS IN MCGREGOR SINCE 2006.



Scott M. Felton
McLENNAN COUNTY JUDGE

P.O. BOX 1728 * Waco, Texas 76703-1728 * Phone No. 254-757-5049 * Fax No. 254-757-5196

April 24, 2024

City of Bruceville-Eddy
Mayor Linda Owens
143 Wilcox Dr. #A
Bruceville-Eddy, TX 76524

Mayor Owens;

The term for the Place 5 Director (Precinct 1 Region) of the McLennan County Rural Transit District Board of Directors will expire May 31, 2024.

The County Judge's office is requesting that each incorporated city in the Precinct 1 Region (by resolution) nominate a member of the city's governing body for consideration of becoming a member of the governing body of the district. Once a member has been nominated, please return the completed resolution to our office via email to dustin.chapman@mclennan.gov.

Once the nominees are returned to the County Judge's Office, they will be placed on a ballot which will then be sent to each of the cities in the Precinct 1 Region. Voting will then take place as specified by Section 5.B. of the RESOLUTION OF THE TRANSPORTATION CONFERENCE COMMITTEE PROVIDING FOR THE SELECTION OF THE GOVERNING BODY OF THE MCLENNAN COUNTY RURAL TRANSIT DISTRICT:

B. Process for Places 5-8

Each City within the region that desires to put up a nominee for the place provides the County Judge's Office with a resolution indicating its nominee 90 days before expiration of the term. The nominees are placed on a ballot. A ballot is sent to each of the cities. Each city has 20 votes to split between the nominees. Only 10 of those votes may be cast for the City's own nominee. If there are only 2 nominees, a city need not cast the other 10 votes, but may do so. If there are 3 or more nominees, the city must cast the other 10 votes. The ballots are sent back to the County Judge's Office and compiled. The nominee with the highest total is selected to fill that region's place. If there is a tie, the County Judge will cast a vote to break the tie.

Respectfully,

Scott M. Felton

Scott M. Felton
McLennan County Judge

RESOLUTION NO. 5-23-2024-1

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BRUCEVILLE EDDY, TEXAS
SELECTING AN ELECTED OFFICIAL OF THE CITY AS THE CITY'S NOMINEE FOR SERVICE
AS A MEMBER OF THE GOVERNING BODY OF THE MCLENNAN COUNTY RURAL TRANSIT
DISTRICT**

WHEREAS, the Commissioners Court of McLennan County created the McLennan County Rural Transit District in 2015; and

WHEREAS, the City has been requested to nominate a member of its governing body to be considered to become a member on the governing body of the McLennan County Rural Transit District.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BRUCEVILLE EDDY, TEXAS THAT:

1. the City Council nominates _____ to serve as a member of the governing body of the McLennan County Rural Transit District.

PASSED and RESOLVED on this _____ day of _____, 2024.

Mayor

City Secretary