

July 2023

APPLICATION FOR MODIFICATION OF A
PREVIOUSLY APPROVED PLAN
EDWARDS AQUIFER PROTECTION PLAN
UNDERGROUND STORAGE TANK FACILITY PLAN

*QuikTrip Proposed Store #4166
701 W. Settlers Blvd
Round Rock, Williamson County, Texas*

*Edwards Aquifer Protection Program ID Number 11003213
Regulated Entity No. RN111560389*



Submitted To:
*Texas Commission on Environmental Quality
Edwards Aquifer Protection Program
Region 11 Office
12100 Park 35 Circle
Building A, Room 179
Austin, Texas 78753*

*PROJECT NUMBER:
0244264.01.01*



1.0 EDWARDS AQUIFER APPLICATION COVER PAGE (TCEQ-20705)



Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with [30 TAC 213](#).

Administrative Review

1. [Edwards Aquifer applications](#) must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited.**
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: QuikTrip 4166					2. Regulated Entity No.: 111392858				
3. Customer Name: QT South, LLC					4. Customer No.:605786011				
5. Project Type: (Please circle/check one)	New	Modification			Extension	Exception			
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-residential			8. Site (acres):		3.028		
9. Application Fee:	\$3,900		10. Permanent BMP(s):			Detention and Water Quality Pond			
11. SCS (Linear Ft.):	NA		12. AST/UST (No. Tanks):			6			
13. County:	Williamson		14. Watershed:			Lake Creek- Brushy Creek			

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the “Texas Groundwater Conservation Districts within the EAPP Boundaries” map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	<u> </u> X <u> </u>
Region (1 req.)	—	—	<u> </u> X <u> </u>
County(ies)	—	—	<u> </u> X <u> </u>
Groundwater Conservation District(s)	<u> </u> Edwards Aquifer Authority <u> </u> Barton Springs/ Edwards Aquifer <u> </u> Hays Trinity <u> </u> Plum Creek	<u> </u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u> </u> Austin <u> </u> Buda <u> </u> Dripping Springs <u> </u> Kyle <u> </u> Mountain City <u> </u> San Marcos <u> </u> Wimberley <u> </u> Woodcreek	<u> </u> Austin <u> </u> Bee Cave <u> </u> Pflugerville <u> </u> Rollingwood <u> </u> Round Rock <u> </u> Sunset Valley <u> </u> West Lake Hills	<u> </u> Austin <u> </u> Cedar Park <u> </u> Florence <u> </u> Georgetown <u> </u> Jerrell <u> </u> Leander <u> </u> Liberty Hill <u> </u> Pflugerville <u> </u> X <u> </u> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<u> </u> Edwards Aquifer Authority <u> </u> Trinity-Glen Rose	<u> </u> Edwards Aquifer Authority	<u> </u> Kinney	<u> </u> EAA <u> </u> Medina	<u> </u> EAA <u> </u> Uvalde
City(ies) Jurisdiction	<u> </u> Castle Hills <u> </u> Fair Oaks Ranch <u> </u> Helotes <u> </u> Hill Country Village <u> </u> Hollywood Park <u> </u> San Antonio (SAWS) <u> </u> Shavano Park	<u> </u> Bulverde <u> </u> Fair Oaks Ranch <u> </u> Garden Ridge <u> </u> New Braunfels <u> </u> Schertz	NA	<u> </u> San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Kyla Rudd

Print Name of Customer/Authorized Agent

Kyla Rudd

7/21/2023

Signature of Customer/Authorized Agent

Date

FOR TCEQ INTERNAL USE ONLY			
Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

2.0 GENERAL INFORMATION FORM (TCEQ-0587)



General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Mr Aaron Brewer, Apex Companies

Date: 8/12/22

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: QuikTrip 4166
2. County: Williamson
3. Stream Basin: Lake Creek-Brushy Creek
4. Groundwater Conservation District (If applicable): N/A

5. Edwards Aquifer Zone:

- Recharge Zone
 Transition Zone

6. Plan Type:

- WPAP
 SCS
 Modification

- AST
 UST
 Exception Request

7. Customer (Applicant):

Contact Person: Kyla Rudd

Entity: QT South, LLC

Mailing Address: 4705 South 129th East Avenue

City, State: Tulsa, OK

Zip: 74134

Telephone: 918-615-7233

FAX: _____

Email Address: krudd@quiktrip.com

8. Agent/Representative (If any):

Contact Person: Aaron Brewer

Entity: Apex Companies, LLC

Mailing Address: 12012 Technology Blvd, Suite 201

City, State: Austin, TX

Zip: 78727

Telephone: 512-250-2600 x2116

FAX: 512-250-2940

Email Address: Aaron.Brewer@apexcos.com

9. Project Location:

- The project site is located inside the city limits of Round Rock.
- The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
- The project site is not located within any city's limits or ETJ.

10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The 3.028-acre property is located at the southwest corner of Old Settler's Blvd and Chisholm Trail Road in Round Rock, Williamson County, Texas. According to Williamson Central Appraisal District (WCAD), the QuikTrip 4166 property is located on parcel R599124 owned by Chisholm Trail Developers. The proposed address is 701 W. Old Settler's Blvd, Round Rock, Williamson County, Texas.

11. **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

- Project site boundaries.
- USGS Quadrangle Name(s).
- Boundaries of the Recharge Zone (and Transition Zone, if applicable).
- Drainage path from the project site to the boundary of the Recharge Zone.

13. **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate

the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

Survey staking will be completed by this date: _____

14. **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- Area of the site
- Offsite areas
- Impervious cover
- Permanent BMP(s)
- Proposed site use
- Site history
- Previous development
- Area(s) to be demolished

15. Existing project site conditions are noted below:

- Existing commercial site
- Existing industrial site
- Existing residential site
- Existing paved and/or unpaved roads
- Undeveloped (Cleared)
- Undeveloped (Undisturbed/Uncleared)
- Other: _____

Prohibited Activities

16. I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

- For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- A request for an extension to a previously approved plan.

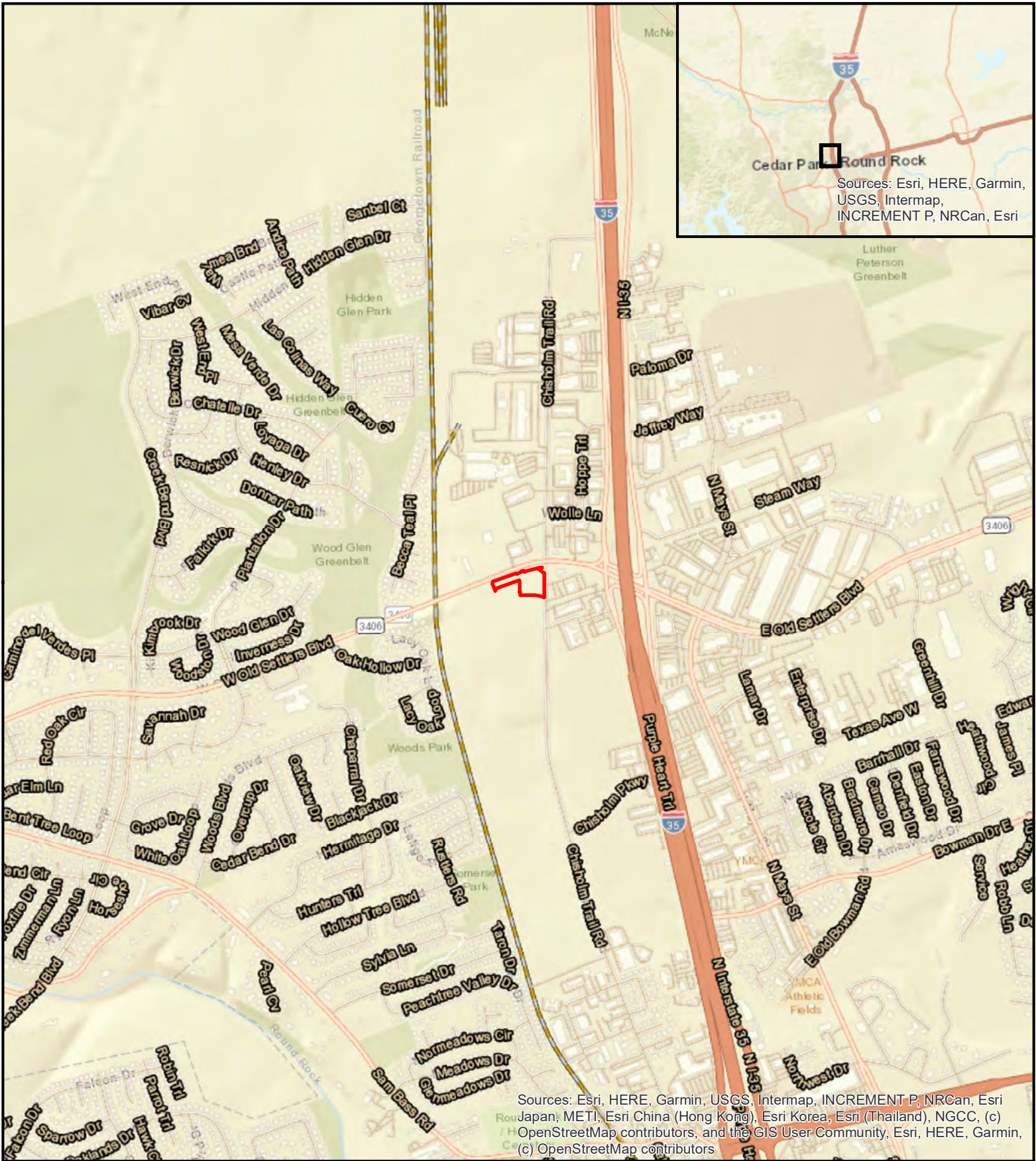
19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- TCEQ cashier
- Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.


21. No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

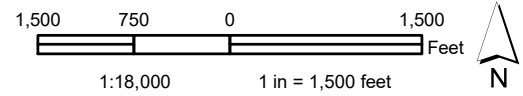
Attachment A: Road Map



Attachment A: Road Map
 QuikTrip Store 4166
 701 W. Old Settlers Blvd
 Round Rock, Texas
 June 16, 2022

Apex P#: QUI005-0204725-21001633




Legend
 Subject Site

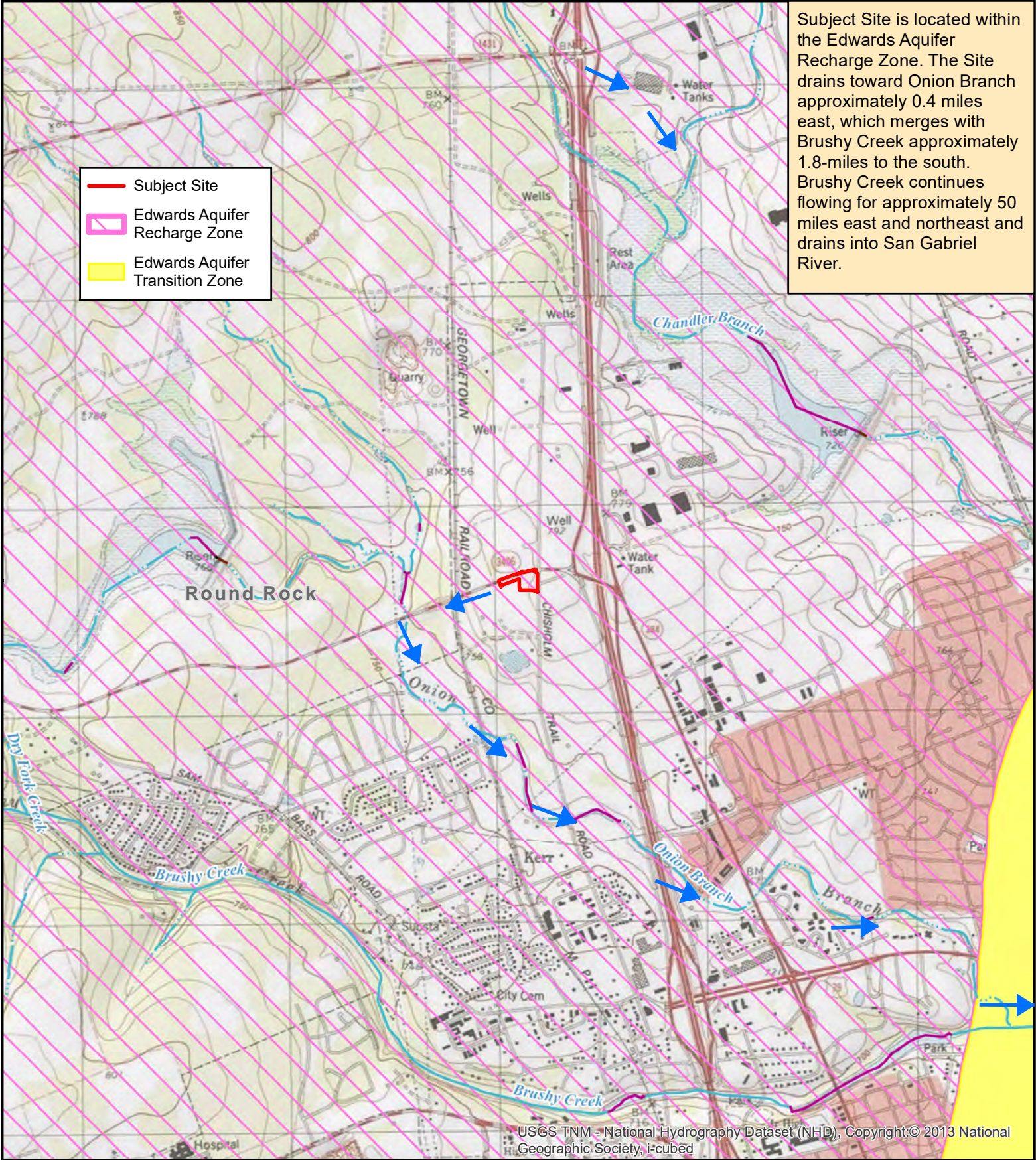


QuikTrip Corporation – Store No. 4166
General Information Form

Attachment B: USGS/Edwards Aquifer Recharge Zone Map

Subject Site is located within the Edwards Aquifer Recharge Zone. The Site drains toward Onion Branch approximately 0.4 miles east, which merges with Brushy Creek approximately 1.8-miles to the south. Brushy Creek continues flowing for approximately 50 miles east and northeast and drains into San Gabriel River.

-  Subject Site
-  Edwards Aquifer Recharge Zone
-  Edwards Aquifer Transition Zone





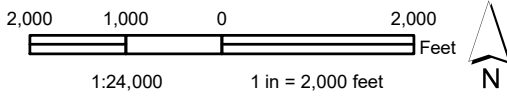
USGS TNM - National Hydrography Dataset (NHD), Copyright © 2013 National Geographic Society, i-cubed

Attachment B:
 USGS/Edwards Aquifer Recharge Zone Map
 QuikTrip Store 4166
 701 W. Old Settlers Blvd
 Round Rock, Texas
 June 16, 2022

Apex P#: QUI005-0204725-21001633

Legend

-  Subject Site
-  Flow Path



Attachment C: Project Description

1. Area of the Site

The project area (3.028 acres) is comprised of the parcel where the QuikTrip 4166 store is planned (1.56 acres) (Lot 2, Block A, Chisholm Trail Tech Center Section 1, Lot 2) and Lot 1, Block A (1.468 acres) where two access roads are planned. The total project area for the QuikTrip 4166 is 3.028 acres. The plat map depicting the two lots is enclosed with this Project Description and was cut from the Final Plat of Settlers Grove which was enclosed with the Settlers Grove WPAP.

The QuikTrip parcel is 1.56-acre and is located in the southwest corner of Old Settler's Boulevard and Chisholm Trail Road in Round Rock, Williamson County, Texas (Site). According to Williamson Central Appraisal District (WCAD), the Site is identified as parcel R599124, owned by Chisholm Trail Developers Venture LTD. Documents provided by QT South, LLC indicate a proposed address of 701 West Settler's Boulevard, Round Rock, Williamson County, Texas.

QT South, LLC has a lease to construct the proposed QuikTrip 4166 at the Site. The lease is enclosed with this Project Description. The property owner, Chisholm Trail Developers Venture, Ltd., has also signed an Agent Authorization form along with QT South, LLC. Both are enclosed with this EAPP.

2. Offsite area

The Site is located within the Settler's Grove development, which has not been constructed, but has an approved WPAP and SCS for the Settler's Grove development by Chisholm Trail Developers Venture, Ltd. The Settler's Grove development is 73.57 acres, not including the Site for QuikTrip 4166. However, QuikTrip 4166 plans require construction of two access roads to adjoining West Old Settler's Boulevard and Chisholm Trail Road through properties within Settler's Grove. The off-Site access roads are depicted on the Site Plan and are included in the "project area."

3. Impervious cover

The total acreage of impervious cover is reported in Site Plan Cover Sheet as 1.992 acres, which includes the on-Site store and off-Site access roads. For the 3.028-acre project area, that equates to 66% impervious cover.

The impervious surface for the Settler's Grove reported in the Site Plan is 34.33 acres out of a total of 74.39 acres of total project area.

4. Permanent BMPs

Site will utilize a Water Quality Pond as a permanent BMP for stormwater treatment. The pond design and details were submitted by the property owner, Chisholm Trail Developers Venture, Ltd in their WPAP application dated May 6, 2022, that was approved in a letter dated May 13, 2022 (EAPP No. 11002944).

Other BMPs incorporated into the design and function of QuikTrip Store Number 4166 include the following:

- a. Utilization and maintenance of industry best practices for UST and pipe design, construction, and system monitoring including interstitial monitoring and electronic line leak detection;
- b. Practices and procedures to prevent and control a spill of fuel or overfill of fuel tanks including use of overfill protection equipment, containment sumps, and bladder shear valves in dispensers; and,
- c. Installation and utilization of a SNOUT at the stormwater inlet (north end of site) that receives stormwater runoff from the dispenser area. The SNOUT is a vented catch basin trap that intercepts floatables and trash as well as free oils and sediment.

5. Proposed site use

QuikTrip Corporation is proposing to develop the Subject Site as a QuikTrip Store Number 4166 (QuikTrip 4166). The Subject Site will be developed with a single building for retail gas sales and convenience store, an underground storage tank (UST) system, a canopy to cover the tank dispensers, trash enclosure, and paved parking and driving lanes.

6. Site history and previous development

According to topographic maps and aerial imagery the Subject Site remained undeveloped except for some agricultural field development.

7. Area to be demolished

There are no structures at the Subject Site that require demolition as part of the development.

GROUND LEASE AGREEMENT

ONE
Parties

THIS LEASE AGREEMENT (“Lease”) made and entered into, effective the date it is last executed (the “Execution Date”), by and between **CHISHOLM TRAIL DEVELOPERS VENTURE, LTD, a Texas partnership**, hereinafter referred to as “Lessor,” whether one or more, and QT SOUTH, LLC, a Texas limited liability company, hereinafter referred to as “Lessee”:

TWO
Leased Premises

2.1 The Lessor, for and in consideration of the rents, covenants and agreements herein contained, does hereby lease to Lessee, its successors and assigns, the following described premises, commonly known as QuikTrip No. #4166, together with all the improvements thereon and appurtenances thereunto belonging, situated in the City of **Round Rock, Williamson County, State of Texas, on that certain tract of land owned by Lessor and legally described on Exhibit “A” (the “Leased Premises”)** and **depicted on the site plan attached hereto as Exhibit “A-2” (the “Development Site Plan”)**, being a part of the development to be located on land owned by Lessor and legally described on Exhibit “A-1” (the “Development”).

2.2 The Leased Premises shall be improved by Lessee and the construction of such improvements and all of the parking area to service the same shall be at the sole cost and expense of Lessee, **all as further described** in Section Five hereof. Construction shall be completed by Lessee with due diligence; strikes, riots, civil commotion, war or acts of God otherwise intervening. Said improvements shall be constructed in compliance with the appropriate building codes of the City of **Round Rock**.

2.3 The Leased Premises include, for the use and benefit of Lessee herein, right-of-way access **across Lessor’s adjacent development (the “Center”)** for trucks delivering merchandise to Lessee and public parking spaces for use by the customers of Lessee, all of which shall be **in accordance with the REA (as defined herein)**.

2.4 **Intentionally Deleted**

THREE
Primary Term

3.1 Lessee, its **permitted** successors and assigns, shall have and hold the Leased Premises for a term of fifteen (15) years, the “Primary Term.” The “Commencement Date” hereof shall be the date that Lessee’s store is completed, equipped and open for business, **but in no event later than the date that is 365 days after the Possession Date (as defined below)**. The Primary Term shall begin on the first day of the month following the Commencement Date and the “Primary Term Expiration Date” shall be fifteen (15) years (180 calendar months) thereafter, as

set out on the Rider attached hereto as Exhibit "B", which the parties agree to complete and execute after the Commencement Date.

FOUR
Option Terms

4.1 This Lease shall be automatically renewed for ten (10) additional terms of five (5) years each, each known as an "Option Term," to begin on the Primary Term Expiration Date, or any Option Term, as the case may be, unless at least ninety (90) days prior to the Primary Term Expiration Date, or the expiration of any Option Term, as the case may be, Lessee notifies Lessor that it will terminate the Lease at the end of such term. Such automatic renewal shall be on the rental basis as provided herein, payable in like manner and subject to the same covenants and agreements contained herein.

FIVE
Survey, Title, Contingencies and Construction of Improvements

5.1 (a) Lessor agrees to provide Lessee with a copy of the most recent survey conducted of the Leased Premises, to the extent said survey exists, within ten (10) days of the Execution Date hereof. **Within thirty (30) days after the Execution Date, Lessee, at Lessee's sole cost and expense,** shall cause a topographic and boundary survey, including a beer/wine survey if required, to be prepared (the "Survey"). The Survey shall be sufficient to permit **Austin Title** (the "Title Company") to modify the standard printed exceptions pertaining to discrepancies in areas or boundary lines, encroachments, overlapping of improvements, or similar matter to read only "any shortages in area." The Survey shall indicate the location of all improvements on the Leased Premises, if any.

(b) **Within thirty (30) days after the Execution Date,** Lessee shall obtain an abstract of title or a current commitment for a leasehold policy (the "Title Commitment") of title insurance naming QuikTrip Corporation as the insured party in the amount of \$1,000,000.00 and showing marketable title in Lessor to the Leased Premises, subject to **all matters** of record **shown thereon.** Lessee shall have fifteen (15) days after having received both the Survey and Title Commitment in which to have the Title Commitment and Survey examined and to furnish Lessor notice in writing of any objections to the title. Lessor shall respond to Lessee's objections to title within thirty (30) days after receipt by Lessor. Lessor shall cooperate and assist Lessee, **at no cost or expense to Lessor,** in resolving and or eliminating any title objections that, in Lessee's sole discretion, will adversely affect Lessee's development and intended use of the Leased Premises. In the event such title objections are not resolved to Lessee's sole satisfaction within the Inspection Period, Lessee may elect to declare this Lease null and void where upon neither party shall have any further rights, duties, or obligations hereunder, **except for those that expressly survive termination of this Lease. Except as otherwise set forth herein,** Lessor shall not change the condition of title to the Leased Premises set forth in Lessee's leasehold title policy through the term of the Lease without the prior written approval of Lessee. The cost of the leasehold title policy, **including any endorsements thereto,** shall be the responsibility of Lessee.

5.2 Lessor has no current, actual knowledge, and has not received notice from any applicable governmental authority, that any part of the Leased Premises has been affected by any Hazardous Materials Contamination. For the purposes hereof, "Hazardous Materials Contamination" shall mean the contamination of any improvements, facilities, soil, groundwater, air or other elements on or of the Leased Premises by Hazardous Materials, or the contamination of any other property as the result of Hazardous Materials at any time emanating from the Leased Premises. "Hazardous Materials" shall mean (i) any "hazardous waste" as defined by the Resource Conservation and Recovery Act of 1976 (42 U.S.C. § 6901 et seq.), as amended from time to time, and regulations promulgated thereunder; (ii) any "hazardous substance" as defined by the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (42 U.S.C. § 9602 et seq.), as amended from time to time, and regulations promulgated thereunder; (iii) asbestos; (iv) polychlorinated biphenyls; (v) underground storage tanks, whether empty, filled or partially filled with any substance; (vi) any substance the presence of which on the Property is prohibited by any federal, state, county, municipal or other local governmental statutes, regulations, ordinances or resolutions; and (vii) any other substance which by any federal, state, county, municipal or other local governmental statutes, regulations, ordinances or resolutions require special handling or notification in its collection, storage, treatment or disposal.

5.3 (a) Within one hundred eighty (180) days **after** the Execution Date, as may be extended pursuant to Paragraph 5.5 hereof (the initial one hundred eighty (180) day period and any extension thereafter collectively referred to herein as the "Inspection Period"), Lessee and its agents shall have the right to enter upon the Leased Premises to inspect the Leased Premises and perform and/or obtain any tests, surveys, studies and assessments, including, but not limited to, a Phase I and Phase II Environmental Assessment involving soil and ground water borings and/or excavations as determined necessary by Lessee. Lessor acknowledges and agrees that there are numerous material contingencies to Lessee's determination of the suitability of the Leased Premises for Lessee's proposed use, including, but not limited to, obtaining necessary governmental approvals and permits, curb cut authorizations, zoning, availability of utilities, and Lessee's determination of the economic feasibility and general suitability of the Leased Premises for Lessee's proposed use. Lessor agrees to reasonably cooperate with Lessee, at no cost or expense to Lessor, regarding Lessee's inspection of the Leased Premises, including, but not limited to, executing any disposal manifests or other documents related to the environmental testing performed by Lessee. In the event Lessee elects to terminate this Lease pursuant to this Paragraph 5.3(a), Lessee shall return the Leased Premises to a similar condition as that in which it was found before said assessments and testing.

(b) In the event underground storage tanks, petroleum products, hazardous substances or hazardous waste, as defined by any federal, state or local statute, law, ordinance or regulation are discovered on the Leased Premises within the Inspection Period or during Lessee's construction on the Leased Premises, whether installed, placed or disposed of by Lessor or a previous owner, Lessor shall be responsible for any costs and expenses related to the removal of such underground storage tanks, petroleum products, hazardous substances or hazardous waste, including any remediation, in compliance with any federal, state or local environmental regulations. Lessor hereby indemnifies Lessee and agrees to hold Lessee harmless from and

against any and all damage, liability, loss, claim or expense (including, without limitation, reasonable attorneys' fees and court costs) which Lessee may suffer or incur as a result of a breach by Lessor of any representation contained in this Paragraph 5.3(b) or as a result of a failure by Lessor to observe and perform its obligations under this Paragraph 5.3(b).

(c) In the event Lessee determines, in its sole and absolute discretion, that the Leased Premises is not suitable for Lessee's intended use within the Inspection Period, Lessee may elect to terminate this Lease by written notice to Lessor **prior to the expiration of the Inspection Period**, whereupon neither party hereto shall have any further rights, duties or obligations hereunder except those which expressly survive termination. In the event Lessee is satisfied with all contingencies set out in Paragraphs 5.1 and 5.3, Lessee shall so notify Lessor, in writing **prior to the expiration of the Inspection Period, whereupon the day after the expiration of the Inspection Period** shall be the "Possession Date."

(d) Lessee agrees to indemnify, defend and hold Lessor and Lessor's owners, officers, employees and representatives harmless from any liens, costs, claims, actions or damages (including reasonable attorneys' fees and expenses) resulting from any inspection or other activity on or related to the Leased Premises by Lessee or Lessee's representatives, contractors, employees or agents; provided, however, that Lessee shall not be required to indemnify Lessor from any liability or damages arising from the discovery of any existing Hazardous Materials Contamination on the Leased Premises, including any diminution in value of the Leased Premises or costs of remediation. Lessor shall not be liable to Lessee or Lessee's representatives, contractors, employees or agents or any other person for any injury to person or damage to property on or about the Leased Premises caused by Lessee or Lessee's representatives, contractors, employees or agents, or by any guest or any other person entering upon the Leased Premises upon Lessee's invitation, or caused by the Leased Premises becoming out of repair or in a dangerous condition for any reason, unless such injury arises from Lessor's gross negligence or willful misconduct. The provisions of this shall survive termination of this Lease for any reason.

(e) Before Lessee or any of Lessee's representatives, contractors, employees or agents enters upon the Leased Premises, Lessee shall procure commercial general liability insurance naming Lessor as an additional insured, in an amount not less than One Million Dollars (\$1,000,000) per occurrence and Two Million Dollars (\$2,000,000.00) general aggregate as to the location of the Leased Premises, insuring against all risks in connection with any entry upon or use of the Leased Premises, and shall provide certification of insurance to Lessor to confirm such insurance. Lessee shall require each of Lessee's contractors to provide evidence of the same insurance naming Lessor as an additional insured prior to such contractor's entry upon the Leased Premises.

5.4 (a) In the event that road improvements are required by the appropriate governmental entity, Lessee, at Lessee's expense, shall construct all road improvements located directly in front of the Leased Premises. Lessor, at Lessor's expense, shall construct all road improvements located in front of any other property belonging to Lessor, if any, that is contiguous

to the Leased Premises. Lessor agrees to complete any such road improvements that it is required to construct within one hundred twenty (120) days of the Possession Date.

(b) **During the Inspection Period, Lessor and Lessee shall negotiate and execute a reciprocal easement agreement (“REA”) providing all necessary slope, ingress/egress, utility, sanitary/storm sewer, septic drain field, sign and temporary construction easements, restrictive covenants and any permits, licenses or other legal documents necessary or required for Lessee’s proposed development of the Center and Lessee’s use of the Leased Premises (the “REA”). Within sixty (60) days after the Execution Date, Lessee shall provide a draft of the REA to Lessor and Lessor shall respond to Lessee’s proposed REA within fifteen (15) days of receipt.**

5.5 (a) Once all contingencies have been satisfied, Lessee shall construct, with due diligence, a prototypical QuikTrip convenience store and fuel station on the Leased Premises, including any parking areas, drives and landscaping. Lessee shall provide to Lessor a copy of the permitted final site plan and specifications for such improvements prior to the expiration of the Inspection Period.

(b) **In connection with Lessee’s construction of the improvements on the Leased Premises, Lessee, at Lessor’s sole cost and expense, shall permit and construct water and wastewater improvements to serve the Leased Premises and other tracts within the Center in the locations shown on the site plan attached hereto as Exhibit A-2.**

(c) **All improvements on the Leased Premises constructed by Lessee shall be (i) made in compliance with all local, state and federal rules, regulations and laws, including, but not limited to the appropriate building codes of the City of Round Rock, and (ii) completed in accordance with the plans and specifications for such improvements and generally accepted construction standards. Prior to the construction of Lessee’s improvements, Lessee shall (x) Lessee will notify Lessor that all permits have been obtained, (y) furnish Lessor with evidence that Lessee has obtained and is maintaining the insurance required hereunder and (z) notify Lessor at the time of commencement of the construction of the improvements.**

5.5 In the event Lessee is unable to complete its inspection and/or evaluation of the Leased Premises within the initial Inspection Period, Lessee may extend such date up to six (6) monthly intervals with the payment of Five Thousand and No/100 Dollars (\$5,000.00), per month, to Lessor. Any such payment shall be made on or before the expiration of the initial Inspection Period or any subsequent extension thereof and shall be non-refundable to Lessee but applicable to the first year of base rent during the Primary Term. Any such payment amount shall be applied evenly as a credit against Lessee’s base rent obligation over the first twelve (12) months of the Primary Term, as set out on the Rider attached hereto as Exhibit “B”.

5.6 Once all contingencies have been satisfied Lessee shall construct, with due diligence, a facility which meets Lessee’s needs on the Leased Premises at Lessee’s sole cost and expense.

5.7 (a) Lessee shall not suffer or permit any mechanics' liens or other claims or demands arising from the work of construction, repair, restoration or removal herein provided, or otherwise, to be enforced against the Leased Premises or any part thereof, and Lessee agrees to hold Lessor and the Leased Premises free and harmless from all liability for any such liens, claims or demands, together with all costs and expenses in connection therewith.

(b) Notwithstanding anything to the contrary herein contained, if Lessee shall in good faith contest the validity of any lien, claim or demand, then Lessee shall at its expense, defend itself and Lessor against the same, and shall pay and satisfy any final adverse judgment that may be rendered therein before the enforcement thereof against Lessor or the Leased Premises, and upon written demand, Lessee shall furnish Lessor a bond satisfactory to Lessor in an amount equal to such contest, lien, claim or demand indemnifying Lessor against liability for the same.

5.8 The general ad valorem taxes for the year of the commencement of this Lease shall be prorated between Lessor and Lessee as of the Commencement Date.

5.9 Special Conditions: **None**

SIX
Rental

6.1 In consideration of the agreements set forth herein to be performed by Lessor and of the leasing of the Leased Premises, Lessee agrees to pay to Lessor in United States Dollars and payable to an account domiciled in the United States a monthly rental beginning on the Commencement Date hereof as set out on Exhibit "B" attached hereto. Such monthly rental payments shall be due and payable on the first day of each calendar month but shall not be delinquent until the eleventh (11th) day of each calendar month. The rental shall be prorated for any partial month at the beginning of the term hereof, based on a per diem of $x \text{ days}/365$ times the annual rental.

6.2 No change in the ownership of the Leased Premises shall be binding upon the Lessee until Lessee has been furnished with a copy of the recorded instrument which in law evidences such change in ownership of the Leased Premises, and Lessee, until furnished with such information, may continue to make all payments to Lessor herein at Lessor's last known mailing address, as shown herein.

6.3 The monthly rental during the Option Terms shall be as set out on Exhibit "B" attached hereto. Such rental shall be paid as provided in Paragraph 6.1 hereof.

SEVEN
Triple Net Lease Provisions

7.1 It is the intention and purpose of the parties hereto to create by this Lease a lease of the kind commonly known as “triple net.” Accordingly, the Lessee agrees to bear, pay for, and discharge not only such items as it has specifically agreed by the provisions of this Lease to pay, but also all other costs, charges and expenses of every kind and nature whatsoever which must be paid in order to accomplish the purposes and objects of this Lease, except as otherwise specifically set forth herein.

7.2 Maintenance and Repair

(a) From the Commencement Date and through the Primary Term or any Option Term, Lessee, at its sole cost and expense, shall keep **the Leased Premises in good repair and condition**, including, but not limited to underground and unexposed service facilities thereof, **subject to reasonable wear and tear**. Lessee agrees to **keep the Leased Premises in a clean, healthful, aesthetically pleasing and safe condition at a standard superior or equal to the standard of repair and maintenance for a first-class convenience store in the Round Rock metropolitan areas. This obligation expressly includes all plumbing and electrical systems, water and wastewater facilities and gas lines from their point of entry on the Leased Premises and all landscaping on the Leased Premises.** Lessee shall provide for irrigation of all landscaping placed within the Leased Premises, and shall pay for the cost of the water for such irrigation. Lessee shall store all trash and garbage on the Leased Premises in a neat and sanitary manner and arrange for the regular pick-up of such trash and garbage at Lessee’s expense. Lessee shall not operate an incinerator or burn trash or garbage upon the Leased Premises.

(b) Lessee may, at its sole cost and expense, alter or remodel the improvements on the Leased Premises in any manner desired by Lessee, provided any such alterations and/or remodeling (i) are made in compliance with all local, state and federal rules, regulations and laws, (ii) are completed in accordance with generally accepted construction standards, (iii) subject to paragraph (d) below, do not impact the structural strength of the improvements, and (iv) do not materially reduce the value of the Leased Premises. Lessee shall not allow mechanics’ or materialmen’s liens to affix to the Leased Premises because of such alterations.

(c) Lessor agrees that any warranties on the Leased Premises, building or equipment leased hereunder shall inure to the benefit of Lessee.

(d) Lessee may, at its sole cost and expense, elect to demolish the improvements on the Leased Premises and construct new improvements on the Leased Premises of equal or greater value to the demolished improvements; provided, that Lessee must commence such demolition and complete such reconstruction within a 365-day period and Lessee’s other obligations under this Lease shall continue; **provided, however, that if Lessee does not intend for the new improvements to be consistent with the then current prototypical QuikTrip convenience store and fuel station in the Austin metropolitan area, Lessee must obtain**

Lessor's prior written consent to such demolition and reconstruction on the Leased Premises, such consent not to be unreasonably withheld, conditioned or delayed.

7.3 Insurance

(a) Property Insurance: Lessee agrees to keep in effect, during the Primary and Option Terms of this Lease, fire and extended coverage insurance covering the Leased Premises, underwritten by a responsible insurance company authorized to do business in the State in which the Leased Premises is located, in an amount sufficient to totally insure **the replacement cost of** all improvements located on the Leased Premises above the building slab. Lessee shall annually review and update such coverage with such deductibles as the Lessee shall maintain in its general insurance package. Such policy is to provide that the payment for any loss covered thereby shall be made to Lessor and the holder of any real estate mortgage or deed of trust granted by Lessor which may be against the Leased Premises, as the interests of said parties may appear under the terms of this Lease and any such mortgage or deed of trust. Where the Lessee is obligated to repair or restore the Leased Premises, the proceeds from the above described insurance policy shall be made available to Lessee for the sole purpose of rebuilding and repairing said Leased Premises. Lessee shall furnish Lessor, and any lien holder of Lessor, with a Certificate of Insurance showing Lessor and any lien holder as loss payee.

(b) General Liability Insurance: Lessee shall maintain **throughout the term of this Lease a policy or policies of insurance, at its sole cost and expense, insuring both Lessor and Lessee against all claims, demands or actions arising out of or in connection with Lessee's use or occupancy of the Leased Premises in an** the amount of Two Million and No/100 Dollars (\$2,000,000.00). Lessee shall furnish Lessor, and any lien holder of Lessor, with a Certificate of Insurance showing Lessor as an additional insured.

(c) Should any of the above-described insurance policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions thereof.

7.4 Destruction or Damage to Premises - Premises Unsafe

(a) In the event the building on the Leased Premises is destroyed or damaged by fire or other casualty, Lessee shall immediately commence to rebuild, repair or replace, at its sole cost less any insurance proceeds, said building in substantially as good condition as it was prior to such fire or casualty. Lessee shall substantially complete such rebuilding, repairing or replacement within one hundred eighty (180) days from the date of said fire or casualty. The rentals provided herein shall not abate during such reconstruction. Notwithstanding the foregoing, in the event the building on the Leased Premises is destroyed or damaged by fire or other casualty, Lessee may elect to construct new improvements in accordance with Paragraph 7.2(d) above.

(b) In the event said building on the Leased Premises is destroyed or damaged by fire or other casualty to the extent of fifty percent (50%) or more, as reflected by the estimate of the adjuster for the company insuring the Leased Premises, and such event shall occur after three-fourths (3/4ths) of the Primary Term of this Lease shall have expired, or at any time during

any Option Term, Lessee shall have the option to declare this Lease ended and terminated, provided Lessee gives notice of such election to Lessor within fifteen (15) days of the determination of the percentage of loss by the adjuster. If Lessee does not exercise its right to terminate this Lease, then the rebuilding or repairs will commence as provided in Paragraph 7.4(a).

(c) In any event where Lessee is obligated to repair or restore the Leased Premises, whether wholly or partially damaged or destroyed, the proceeds from any insurance policy covering the Leased Premises shall be made available to Lessee for the sole purpose of rebuilding, repairing or replacing said Leased Premises. In the event that the election to terminate this Lease as provided in Paragraph 7.4(b) hereof is exercised, Lessee shall be obligated to demolish **and remove from the Leased Premises the remainder of the building and any remaining insurance proceeds shall be payable to Lessor.**

7.5 Taxes and Assessments

(a) Lessor hereby agrees that, during the term of this Lease, Lessor shall designate Lessee as the appropriate party to receive tax notices from the taxing authorities with respect to the Leased Premises. From the Commencement Date and through the Primary Term or any Option Term, Lessee shall pay and discharge as and when the same become due and prior to delinquency all ad valorem taxes, assessments, levies and other charges, general and special, which are or may be levied, assessed, imposed or charged against the Leased Premises and any personal property owned by the Lessor but used by the Lessee in connection with its use of the Leased Premises and situated thereon. During the first calendar year of the Primary Term of this Lease and the last calendar year of the Primary Term or the final Option Term hereof, Lessee shall be obligated to pay only a pro rata portion of said ad valorem taxes, assessments, levies and other charges due and payable for such year based upon the part of the year the Lessee leases the Leased Premises, and shall only be obligated to pay those installments of special assessments (using the longest amortization term available) coming due during the Primary Term and Option Terms of this Lease. Lessee's obligation to pay such ad valorem taxes, assessments, levies and other charges shall begin as of the Commencement Date. Lessee shall not be required or obligated to pay any taxes now or hereafter levied, assessed, imposed or charged against the Leased Premises or to Lessor based on the rental paid or other benefits conferred to Lessor hereunder, including any income, franchise, excise, gross receipts, sales, or transaction privilege taxes, or any "roll back" or other taxes relating to Lessor's ownership of the Leased premises prior to the Primary Term hereof.

(b) In the event that the taxes on the Leased Premises are increased, Lessee shall have the right, at its sole cost and expense, to contest such increase to the extent deemed appropriate by Lessee. Lessor agrees that Lessee may bring such contest in Lessor's name and that Lessor will cooperate with such contest as Lessee shall reasonably request. Lessor agrees that any tax, zoning or use adjustments, or any other notices regarding the Leased Premises shall be directed to Lessee and Lessee will provide a copy of any such notices to Lessor upon request.

(c) Lessor covenants and agrees that if there shall be any refunds or rebates on account of taxes paid by Lessee under the provisions of this Lease, such refund or rebate shall belong to Lessee. Any refunds received by Lessor shall be deemed trust funds and as such are to be received by Lessor in trust and paid to Lessee forthwith. Lessor shall, upon the request of

Lessee, sign any receipts which may be necessary to secure the payment of any such refund or rebate, and will pay over to Lessee such refund or rebate as received by Lessor.

(c) **If Lessee should fail to pay any taxes, assessments, or governmental charges required to be paid by Lessee hereunder (unless Lessee is contesting same in good faith and has provided reasonable surety therefor), in addition to any remedies provided herein, Lessor may, if it so elects, pay such taxes, assessments, and governmental charges. Any sums so paid by Lessor shall be deemed to be so much additional rental owing by Lessee to Lessor and due and payable upon demand as additional rental plus interest at the rate of ten percent (10%) per annum from the date of written demand for payment by Lessor until repaid by Lessee.**

EIGHT Lessee's Property

8.1 Lessee may place and install under, above, and on the Leased Premises such fixtures, motor fuel dispensing equipment, **canopy fascia**, canopies and tanks, shelves, inventory and equipment, including walk-in cooler boxes and doors, walk-in box refrigeration units, and any elements, walk-in freezer units or bulbs, signs, sign poles and sign cabinets that are considered essential for the conduct of business therein. Such items are not considered improvements and shall be considered "Removable Business Personal Property", **with the exception of the canopy steel, minus the fascia**. So long as Lessee is not in default, Lessee has the right to remove from the Leased Premises at any time any Removable Business Personal Property placed by it on or in the Leased Premises and Lessor shall not have the right to assert any lien or equitable charge against any such Removable Business Personal Property, provided, however, that any damage caused to the Leased Premises by the removal of such property shall be repaired by Lessee, at its sole expense.

NINE Use of Leased Premises

9.1 Lessee shall occupy and use the Leased Premises for any lawful purpose or activity, all to be conducted and operated in a proper, lawful and reputable manner, including, but not limited to, the right to sell motor fuels, however, Lessee may at any time merely pay rentals, insurance premiums, taxes and maintenance costs and not transact a business at the Leased Premises.

9.2 Lessee shall install, maintain, monitor, inspect, inventory, remove and close all underground motor fuel tanks, pumps and product piping (hereinafter "Tanks") located on the Leased Premises in strict compliance with all applicable federal, state and local laws, regulations, rules, directions and orders of federal, state and local governmental authorities.

9.3 If at any time during the Primary Term, or any Option Term, any law, rule, regulation, decision, code, order or ordinance of any governmental body having jurisdiction shall have the effect of permanently prohibiting Lessee from operating a retail convenience store with the retail sale of motor fuels on the Leased Premises twenty-four (24) hours per day and such

prohibition is not the result of a business use change that Lessee voluntarily undertakes, then, provided no default beyond applicable notice and cure periods exists and upon notice by Lessee to Lessor within six (6) months following the effective date of such event, Lessee shall have the right to terminate this Lease by giving at least ninety (90) days' written notice thereof to Lessor and complying with the requirements of Section Eleven of this Lease. **Notwithstanding anything herein to the contrary, if the Leased Premises are operated for less than twenty-four (24) hours on the Commencement Date, the termination right granted in this Section 9.3 shall be null and void.**

9.4 Environmental Control

(a) Definition. The term "Hazardous Substances," as used in this Lease, shall mean and include any and all petroleum products, hazardous substances, or hazardous waste which, during the term of this Lease, are regulated by any local, state or federal law, rule or regulation pertaining to environmental regulation, contamination or cleanup, including, without limitation, "CERCLA"; "RCRA"; or state lien, state superlien, environmental cleanup statutes, or any state transfer and use restrictions (all such laws, rules and regulations being referred to collectively as "Environmental Laws"). Except for motor fuels, Lessee represents and agrees that it will not store, use or handle any Hazardous Substances on the Leased Premises other than in de minimis quantities in the normal course of business. Lessee shall comply with all Environmental Laws affecting the Leased Premises during the Primary Term or any Option Term.

(b) Environmental Assessment. **Subject to Paragraph 5.3,** Lessee has or will conduct an environmental assessment and/or inspection of the Leased Premises which includes testing the soil and groundwater, among other things. Such test results will be incorporated herein as Exhibit "C."

(c) Lessee Rights. Lessee shall have the right to (i) install, maintain, repair and replace any Tanks on the Leased Premises; (ii) use such Tanks during the term of this Lease for the storage and dispensing of motor fuel; and (iii) dispense motor fuels at the Leased Premises for purchase by retail customers; provided, however, that all such activities, including, without limitation, maintenance, repair and removal of the Tanks, shall be performed in accordance with all applicable Environmental Laws and other governmental laws and regulations.

(d) Notice. In the event Lessee reports, receives or gives notice of a violation affecting the Leased Premises, such as a spill, release or leak, pursuant to any local, state or federal law, rule or regulation regarding Environmental Laws, copies of such report or notice shall be delivered to Lessor. This shall not apply to bulk mailings or mailings to all operators of Tanks or motor fuel dispensing facilities.

(e) Liability. **During the term of this Lease,** any Hazardous Substance for which Lessee is responsible because of Lessee's act or omission (as defined herein), which may at any time thereafter be present on the Leased Premises, (except for those Hazardous Substances (i) in inconsequential quantities and (ii) not in excess of the amounts permitted under the applicable Environmental Laws), Lessee shall, at its own cost and expense, take all actions as required by the applicable Environmental Laws for the cleanup of the Leased Premises, and shall further pay or

cause to be paid all cleanup, administrative and enforcement costs required by the applicable governmental agencies which are asserted against the Leased Premises or against Lessor because of Lessee's acts or omissions during the Primary Term or any Option Term. Lessee hereby indemnifies Lessor and agrees to hold Lessor harmless from and against any and all damage, liability, loss, claim or expense (including, without limitation, reasonable attorneys' fees and court costs) which Lessor may suffer or incur as a result of a breach by Lessee of any representation contained in this Paragraph 9.4 or as a result of a failure by Lessee to observe and perform its obligations under this Paragraph 9.4.

(f) Post-Termination Liability. The termination of this Lease shall not terminate Lessee's obligations to Lessor for acts or omissions of Lessee as to Environmental Laws in effect during the Primary Term or any Option Term. Provided, however, Lessee's liability to Lessor shall be limited to damages proven to have arisen because of an act or omission of Lessee during the Primary Term or any Option Term and only for contamination of the Leased Premises caused by Lessee. The burden of proof for such liability shall be upon Lessor and shall not arise merely because Lessee was in possession of the Leased Premises or because of any rule of law, such as "res ipsa loquitur."

(g) Definition of Lessee's act or omission. The term "Lessee's act or omission," as used in this Lease, shall include any act or omission of Lessee's employees, agents, vendors, customers or invitees in relation to the Leased Premises or the failure, from whatever cause, of any of Lessee's equipment on the Leased Premises.

TEN Utilities Services

10.1 If standard utility connections for either water, sanitary sewer, storm water, natural gas or electricity are not located in the public street right-of-way, or other form of public utility easement adjoining the Leased Premises or are unavailable for the use of the Leased Premises, or lack sufficient capacity to operate a QuikTrip convenience store with self-serve motor fuel dispensing, Lessor agrees to provide those connections without further cost to Lessee, except for the standard "hook up" costs charged by the utility providers for connecting to such utilities, within thirty (30) days of the Possession Date. Lessor hereby acknowledges and agrees that any and all credits available from the existing utility hookups will be for Lessee's benefit in developing the Leased Premises without cost or charge to Lessee. Upon request by Lessee, Lessor shall execute a written instrument to effectuate the intent of the previous sentence, including, without limitation, an assignment of Lessor's rights to any credits available to the existing utility hookups. It is understood and agreed that at all times during the Primary Term of this Lease or any Option Term, Lessee shall pay all service charges for water, telephone, electricity, natural gas or other utility charges for utilities services used or consumed by Lessee in its occupancy of the Leased Premises, and Lessee shall not at any time permit any lien or claim to be filed against the Leased Premises, or any part thereof, on account of any expenses or charges for same.

ELEVEN
Redelivery of Premises

11.1 Lessee will, at the termination of the Primary Term or the final Option Term, as the case may be, peaceably surrender and deliver to Lessor the Leased Premises in a broom clean condition, and subject only to normal wear and tear.

11.2 Prior to the expiration of the Primary Term or any Option Term, whichever is appropriate, Lessee shall remove the Tanks located on the Leased Premises, perform soil tests and an environmental assessment and provide copies of same to Lessor. In the event such assessment reveals contamination in excess of the amounts permitted under the applicable Environmental Laws and for which Lessee is responsible pursuant to Paragraph 9.4(e) or (f), Lessee shall perform any necessary cleanup of the Leased Premises as is required by the applicable Environmental Laws controlling the Leased Premises. If any paving on the Leased Premises is damaged or destroyed in connection with removal of the Tanks, all such paving shall be restored and replaced, with the same quality materials, with reasonable promptness after removal of the Tanks and completion of any cleanup required.

11.3 In the event that any environmental remediation is required (for which Lessee is responsible in accordance with Paragraph 9.4(e) or (f)), pursuant to any applicable Environmental Laws, Lessee shall have the right to enter upon the Leased Premises to conduct any such environmental remediation. Any such environmental remediation shall be performed at the sole cost and expense of Lessee, however, any reimbursement of such expense from any governmental or private fund shall be paid to Lessee. Lessee agrees to use its best efforts to perform such environmental remediation in a manner to minimize interference with any subsequent use of the Leased Premises. Any assessment, remediation, or reporting that is required to be performed by Lessee after redelivery of the Leased Premises to Lessor shall not extend Lessee's obligation to make rental payments hereunder or otherwise be construed as holding over or extending the term of this Lease.

11.4 The redelivery of the Leased Premises shall not terminate Lessee's obligations to Lessor for acts or omissions of Lessee as to Environmental Laws. Provided, however, Lessee's liability shall be limited to damages proven, by Lessor, and shall not arise merely because Lessee was in possession of the Leased Premises or because of any rule of law, such as "res ipsa loquitur."

11.5 In the event that the removal of any Removable Business Personal Property or other chattels from inside the building or at any location on the Leased Premises causes there to be any damage or any indentation in either the floor of the building, or any parking or other area of the Leased Premises, then Lessee shall repair such indentation in such a fashion so as to bring the same flush to adjoining surfaces and repair any other damage, at Lessee's sole cost and expense.

TWELVE
Assignment or Subletting

12.1 The Lessee may **not** sublet all or any portion of the Leased Premises **nor** assign its interest under this Lease **without the prior written consent of Lessor, which consent shall not**

be unreasonably withheld, delayed or conditioned. No such sublease or assignment shall relieve the Lessee of primary liability for the Lessee's obligations hereunder. Lessor hereby acknowledges that Lessee may demolish the improvements on the Leased Premises and construct new improvements on the Leased Premises in accordance with Paragraph 7.2(d) in connection with a permitted sublease or assignment. Notwithstanding anything in this paragraph to the contrary, Lessee may at any time sublet all or any portion of the Leased Premises to an entity affiliated with the Lessee.

12.2 Lessee shall not mortgage, pledge or otherwise encumber its interest in this Lease or in the Leased Premises without the prior written consent of the Lessor (which consent shall not be unreasonably withheld, delayed or conditioned, it being agreed that Lessor will not withhold its consent if the form of any documentation is commercially reasonable).

12.3 In the event of the transfer and assignment by Lessor of its interest in this Lease and in the Leased Premises, per Section 15 of this Lease, to a person assuming expressly Lessor's obligations under this Lease, Lessor shall thereby be released from any further obligations hereunder, and Lessee agrees to look solely to such successor in interest of the Lessor for performance of such obligations. Any security given by Lessee to secure performance of Lessee's obligations hereunder shall be assigned and transferred by Lessor to such successor in interest, and Lessor shall thereby be discharged of any further obligation relating thereto.

THIRTEEN Signs

13.1 Lessee may, at its sole expense, purchase, install and maintain suitable signs on and about the Leased Premises. At the termination of the Primary Term and any Option Terms, Lessee may remove its signs, sign cabinets, and poles. Lessee shall repair any damage caused by such removal at its sole cost and expense.

13.2 Lessor hereby authorizes Lessee to execute, file and pursue any sign variance applications deemed necessary by Lessee. Such applications shall be pursued in a manner which meets the laws, rules and regulations of the appropriate governmental entity.

FOURTEEN Lessor's Other Property

14.1 Lessor, and its successors and assigns, shall not (i) operate, or permit under any circumstances to be operated, within the Development any other store in the business of the retail sale of motor fuels or in the business of operating a convenience store or (ii) knowingly allow the sale of any of part of the Center to any person or entity for the purpose of constructing, leasing or operating a business for the retail sale of motor fuels or a convenience store. Lessor hereby agrees to execute such instruments as may be reasonably required from time to time in order to evidence such restrictions of record.

14.2 If, and only if, Lessee builds and operates a car wash on the Leased Premises as of the Commencement Date, Lessor, and its successors and assigns, shall not (i) operate, or permit under any circumstances to be operated, within the Development a car wash, or (ii) knowingly allow the sale of any part of the Center to any person or entity for the purpose of constructing, leasing or operating a car wash.

14.3 These restrictions, if applicable, shall remain effective from the Execution Date through the Primary Term and Option Terms of this Lease. Lessor hereby agrees to include such restrictions in the REA.

FIFTEEN
Sale of Leased Premises

15.1 Should Lessor, at any time subsequent to the Execution Date of this Lease, elect to sell the Leased Premises, Lessor shall provide written notice of such election to Lessee and, upon entering into a binding contract with a third party to sell the Leased Premises, provide Lessee with a copy of the third party contract. The third party contract must (a) contain the legal name of the purchasing entity together with the names and addresses of all persons and/or other legal entities having an ownership interest in such entity and (b) be non-assignable. Upon Lessee's receipt of a copy of the third party contract, Lessee shall have the right of first refusal to purchase the Leased Premises on the same terms and conditions of such third party contract. In the event Lessee fails to meet the terms and conditions of such third party contract within thirty (30) days after Lessee's receipt of a copy of the third party contract from Lessor, Lessor shall be free to sell the Leased Premises or any portion thereof, subject to this Lease, to such third person, in accordance with the terms and conditions of such third party contract. Lessee's failure to exercise its right of first refusal on any offer shall not be a waiver of its right of first refusal on any subsequent sale. This Paragraph 15.1 shall not apply to any transfer by Lessor to any corporation or business organization, owned or controlled by Lessor **or any affiliate of Lessor**, or to any member of Lessor's immediate family or trust for the benefit of any member of Lessor's immediate family.

15.2 As a material condition to Lessee entering into this Lease, Lessor has identified all persons and/or other legal entities having a **majority** ownership interest in the legal entity known as the Lessor, as set forth on Exhibit "E" attached hereto (the "**Majority Ownership**"). If at any time subsequent to the Execution Date of this Lease Lessor proposes to change the **Majority Ownership** in any respect, Lessor shall provide written notice to Lessee detailing the proposed change in **Majority Ownership**. Under no circumstances shall Lessor transfer **Majority Ownership in** the Lessor entity to a direct competitor or an affiliate of a direct competitor of Lessee. A "direct competitor of Lessee" shall be construed to be a business or anyone who directly or indirectly owns or controls a business or any portion of a business engaged in the operation of a convenience store and/or the retail sale of motor fuels. Lessee shall have a period of twenty (20) days from receipt of such notice to approve or disapprove the proposed change in **Majority Ownership**. In the event Lessee disapproves such proposed change in **Majority Ownership** and/or Lessor makes any change in **Majority Ownership** without Lessee's approval, Lessee shall have the exclusive right to purchase the Leased Premises and all improvements thereon. In the event Lessee elects to purchase the Leased Premises under the terms of this paragraph, Lessor and Lessee shall mutually agree upon an independent third party appraiser with MAI designation to set the

purchase price by determining the value of the Leased Premises excluding any improvements constructed by Lessee. The appraiser shall only use the market/comparables approach to establish the fair market value and Lessee shall pay for the appraisal. Lessee's failure to exercise its exclusive right to purchase shall not be a waiver of its right to purchase on any subsequent sale of an interest in said legal entity. This Paragraph 15.2 shall not apply to any transfer by Lessor to any corporation or business organization owned or controlled by Lessor, or to any member of Lessor's immediate family or trust for the benefit of any member of Lessor's immediate family.

15.3 Notices provided under this Section Fifteen shall be valid only if provided by (i) certified or registered mail; (ii) Federal Express or similar overnight courier; (iii) facsimile transmission; or (iv) personal delivery. Such notices shall otherwise be delivered in accordance with the provisions of Paragraph 21.1.

SIXTEEN

Removal of Improvements

16.1 At the end of the **Primary Term or any Option Term, if applicable**, Lessee shall remove its Removable Business Personal Property, remove all Tanks and motor fuel dispensing equipment **from** the Leased Premises, **in accordance with the terms of this Lease. Additionally, if** Lessor desires to have the entire building removed, Lessee shall cause same to happen, at its sole cost and expense, **within thirty (30) days after the expiration of this Lease, but Lessee shall not have the right to remove the entire building without Lessor agreeing to such.** Such removal shall not extend regular monthly rental payments. If testing at the closure of the underground storage **tanks** and motor fuel dispensing facility indicates any contamination attributable to Lessee above state action levels, Lessee shall take all actions as provided in Paragraph 9.4(e) and (f) hereof. Lessor shall provide Lessee with the **reasonable** right of entry onto the Leased Premises to perform any required remediation or monitoring. Any required remediation or monitoring shall not extend regular monthly rental payments. **This provision shall survive termination of this Lease.**

SEVENTEEN

Mortgage by Lessor

17.1 Lessee agrees that this Lease shall be subject and subordinate to the lien of any mortgage which may now or hereafter affect the Leased Premises, and to all renewals, modifications, consolidations, participations, replacements and extensions thereof, without the necessity of any further documentation; provided that the holder thereof shall either enter into a written agreement in recordable form with Lessee or place a provision in the body of the mortgage or deed of trust to the effect that as long as Lessee is not in default in the payment of rent or any of its other covenants or conditions of this Lease, the rights of Lessee under this Lease shall not be terminated and the possession by Lessee shall not be disturbed by the holder of any such mortgage or deed of trust security, or by any person, firm or corporation whose rights were acquired as a result of such proceedings, or by virtue of a right or power contained in any such mortgage or deed of trust or the bond or note secured thereby. Upon request by either party, Lessor, Lessee, and the

holder of any mortgage shall execute and file of record a Subordination, Attornment and Non-Disturbance Agreement in a form **reasonably** acceptable to **the holder of any mortgage**, Lessor, and Lessee. In no event shall any Subordination, Attornment and Non-Disturbance Agreement entered into by Lessee and the holders of any mortgage alter or amend the terms of this Lease, **except as expressly set forth herein**.

EIGHTEEN Default and Cancellation

18.1 If default is made in the payment of any installment of rent on the due date thereof and such default continues for ten (10) days after written notice thereof, or if Lessee shall default in the performance of any other agreement (other than payment of rent) and such default continues for sixty (60) days after written notice thereof, or if the Leased Premises be vacated or abandoned in violation of the terms hereof, then in any such event, in addition to and not in limitation of any other remedy permitted by law, this Lease shall terminate, at the option of the Lessor. Lessor's rights in such event may be enforced by action in unlawful detainer or other proper legal action, and the Lessee expressly agrees, notwithstanding termination of this Lease and re-entry by the Lessor, that the Lessee shall remain liable for a sum equal to the entire rent payable to the end of the Primary Term, or current Option Term, if applicable, and shall pay any loss or deficiency sustained by the Lessor on account of the Leased Premises being let for the remainder of the then current Term for a less sum than before. Lessor, as agent for Lessee without notice, shall take commercially reasonable efforts to re-let the Leased Premises or any part thereof for the remainder of the Primary Term or for any longer or shorter period as opportunity may offer, and at such rental as may be obtained, and Lessee agrees to pay the difference between the amount of rent payable during the residue of the Primary Term, or current Option Term, if applicable, and the net rent actually received by the Lessor during the remainder of the then current Term, after deducting all expenses for repairs, recovering possession and reletting the same, which difference shall accrue and be payable monthly. Notwithstanding any provision herein to the contrary, Lessee shall in no event have any liability hereunder to Lessor for consequential, special, punitive, incidental or indirect damages.

18.2 If default is made by Lessor in the performance of any agreement under this Lease and such default continues for sixty (60) days after written notice thereof, then in any such event, in addition to and not in limitation of any other remedy permitted by law, Lessee may abate its monthly rental obligation until such time as Lessor cures such default to the reasonable satisfaction of Lessee.

NINETEEN Attorney Fees

19.1 In any action or proceeding by either of the parties to this Lease against the other to enforce the provisions of this Lease, or any exhibits attached hereto, or construction of other contracts relating hereto, or to recover payment of any claim hereunder, or to recover damages for the breach of any provision of any of the foregoing, the successful party shall be entitled to recover from the other party all costs and expenses in such action, including a reasonable attorney's fee to be fixed by the court in such action or proceeding. Provided, if such action is settled, the settlement

agreement shall provide for such costs and expenses, or each party shall be responsible for its own costs and expenses.

TWENTY
Eminent Domain

20.1 If so much of the Leased Premises is taken which causes any of the building or any of the parking spaces to be taken, or causes any of the motor fuel dispensing facility to be taken, or causes the motor fuel dispensing facility to have less than two-side parking and two-way access at each fueling position, or inhibits free maneuverability to and from the motor fuel dispensing facility, or which limits or adversely affects the access for ingress or egress, for any public or quasi-public use under any governmental law, ordinance, or regulation or by right of eminent domain (or by private purchase in lieu thereof), or if street medians are installed which adversely affect ingress or egress to the Leased Premises, then at the option of Lessee, (a) effective with the physical taking of said premises, the Lease shall terminate and the rent shall abate during the unexpired portion of this Lease, or (b) upon the placement of said medians, Lessee may terminate the Lease at any time during the current Primary Term or Option Term, as applicable, and, if so terminated, rent shall abate during the unexpired portion of the Lease.

20.2 If this Lease is not terminated subsequent to a taking for any public or quasi-public use under any governmental law, ordinance or regulation, or by right of eminent domain, or by a private purchase in lieu thereof, the monthly rental payable hereunder during the unexpired Primary Term or any Option Term, as applicable, of this Lease shall be reduced by an amount equal to one percent (1%) of the total award to Lessor, or any payment in lieu thereof, by any governmental agency.

20.3 Lessor shall immediately notify Lessee of any notice which Lessor may receive from any governmental authority concerning the temporary or permanent requisition or modification of the Leased Premises. In the event of any temporary requisition or modification not requiring repairs to the Leased Premises, Lessee shall be entitled to negotiate for, receive and retain the entire amount of the net award.

20.4 In any instance of taking described in this Section Twenty, whether such taking results in the termination of the Lease or not, separate awards for damage to the respective interests of Lessor and Lessee hereunder shall be made and each party shall be entitled to negotiate for, receive and retain such award as shall be made to it. Lessor shall be entitled to awards affecting the fee interest of the Leased Premises, specifically when portions of the Leased Premises are quitclaimed or permanent easements are created. Lessee shall be entitled to awards affecting the leasehold interest of the Leased Premises, including, but not limited to, awards for damages to, repair of, relocation of or removal of Lessee's improvements or Removable Business Personal Property on the Leased Premises. The termination of this Lease shall not affect the rights of the respective parties to the awards.

TWENTY-ONE
Notices

21.1 Except as otherwise provided in Paragraph 15.3, all notices required under this Lease shall be deemed properly served if reduced to writing and sent by (i) certified or registered mail; (ii) Federal Express or similar overnight courier; (iii) facsimile transmission; (iv) e-mail with read receipt requested; or (v) personal delivery, and the date of such notice will be deemed to have been the date on which such notice is delivered or attempted to be delivered as shown by the certified mail return receipt or a commercial delivery service record, in the case of facsimile on the date of receipt of the transmission as shown on a successful transmission confirmation receipt, or in the case of e-mail on the date of transmission as shown on the system time for the transmitting party. Provided, however, that if the date for the performance of any action or obligation, or any time period specified hereunder occurs on a Saturday, Sunday, days proclaimed as legal holidays by the state, city or federal government or days where the recipient party's office is closed due to natural disaster, then such date or time period shall be extended until the next business day. All notices shall be addressed as follows, unless otherwise specified in writing:

LESSOR:

Chisholm Trail Developers Venture, Ltd.
c/o Highland Resources, Inc
211 E. 7th Street, Suite 709
Austin, TX 78701
Contact Person: **Jeff Simmons**
Phone Number: **512-750-0912**
E-Mail: **jsimmons@highlandresources.net**

LESSEE:

QT South, LLC
2007 Sam Bass Road, Suite 100
Round Rock, TX 78681
Attn: Mike Snyder, Real Estate Manager
*E-Mail: **msnyder@quiktrip.com**

with a copy to:

QTR Corporation
4705 S. 129th E. Ave.
Tulsa, Oklahoma 74134
Attn: General Counsel
Fax: (918) 994-3594
*E-Mail: **legalnotice@quiktrip.com**

**Not acceptable form of notice under paragraph 15.3.*

TWENTY-TWO
Mineral Rights

22.1 Lessee acknowledges and agrees that any and all mineral rights associated with the Leased Premises are not being conveyed to Lessee as part of the Leased Premises for the Term of this Lease; provided, however, Lessor shall not enter upon, cross, use or enjoy the surface of the Premises for the purpose of mining, drilling, operating, exploring, developing, removing, storing, treating, transporting, testing, processing, handling or otherwise dealing with the oil, gas or other minerals in, on or under the Leased Premises; it being understood and agreed that (i) all surface rights to the Leased Premises are hereby conveyed and fully and expressly waived by Lessor in favor of Lessee, and (ii) the only manner in which oil, gas or other minerals in, on or under the Leased Premises may be mined, drilled, operated, explored, developed, removed, stored, treated, transported, tested, processed, handled or otherwise dealt with is from the surface location on other lands which are not within the boundaries of the Leased Premises and without any damage or interference to the surface of the Leased Premises; provided, however, that any horizontal drilling or similar exploration of the oil, gas or other minerals in, on or under the Leased Premises shall not be permitted from the surface of any other premises unless same is at least five hundred (500) feet under the surface of the Leased Premises.

TWENTY-THREE
Entirety

23.1 It is mutually agreed that the covenants and conditions herein are the full and complete terms of this Lease, and that no alterations, amendments, or modifications of said terms shall be binding unless first reduced to writing and signed by both parties hereto.

TWENTY-FOUR
Covenant to Bind Successors

24.1 It is agreed that the provisions, covenants and conditions of this Lease shall be binding upon and inure to the benefit of the heirs, trustees, legal representatives, successors and assigns of the respective parties hereto.

TWENTY-FIVE
Headings

25.1 The headings of the sections and paragraphs contained herein are inserted solely for convenience of reference and shall not constitute a part of the Lease, nor shall such headings affect the meanings of the provisions contained herein.

TWENTY-SIX
Confidentiality

26.1 Lessor and Lessee agree to keep this Lease and the terms and provisions hereof confidential and not to make any public announcement or disclosure or provide any third party any

information or facts; including, but not limited to, the rental amounts, without the written consent of the other party. Further, each party shall protect such information and facts regarding this Lease with at least the same degree of care with which it protects its own confidential and proprietary information, but in no even less than reasonable care. Notwithstanding the foregoing, Lessor and Lessee may disclose the existence of this Lease or the terms hereof to their respective attorneys, accountants, consultants, brokers, advisors, lenders and investors, and otherwise as necessary to perform their respective obligations hereunder and to obtain any necessary consents or approvals as contemplated hereby. The provisions of this paragraph shall survive the expiration or termination of this Lease.

TWENTY-SEVEN
Short Form Lease

27.1 It is agreed by the parties that a Short Form Lease, Exhibit “F,” and an Initial Short Form Lease, Exhibit “F-1” shall be executed in recordable form and same shall be filed of record in the appropriate recording office. The Initial Short Form Lease shall be executed and recorded upon the date this Lease is executed by both Lessor and Lessee. The Short Form Lease shall be executed and recorded upon the Commencement Date of the Lease. Upon the termination or expiration of this Lease, Lessor and Lessee agree to execute and record the appropriate document to terminate the Initial Short Form lease and/or the Short Form Lease.

TWENTY-EIGHT
Brokers

28.1 In connection with this Lease, Lessor and Lessee each represent and warrant to the other that no broker, agent, or finder has procured or was involved in the negotiation of this Lease and no broker, agent or finder is or may be entitled to a commission or compensation in connection with this Lease with the exception of Dan Frey of Endeavor and Dean Vandergriff of Retell (collectively, “Lessee’s Brokers”) and _____ of Cushman & Wakefield and Jay Kopfer (collectively, “Lessor’s Brokers”). Lessor shall pay Lessee’s Brokers a total brokerage commission of \$81,000.00 within thirty (30) days after the Commencement Date, such commission to be shared between Lessee’s Brokers on such basis as shall be determined by Lessee’s Brokers per separate agreement. Lessor shall pay Lessor’s Brokers a total brokerage commission of \$81,000.00 within thirty (30) days after the Commencement Date, such commission to be shared between Lessor’s Brokers on such basis as shall be determined by Lessor’s Brokers per separate agreement. Lessor and Lessee will each indemnify, defend, protect and hold the other harmless from and against any and all claims resulting from claims that may be asserted against the indemnified party in breach of the foregoing warranty and representation. The indemnity contained in this paragraph shall survive the expiration or earlier termination of this Lease.

[Remainder of page intentionally left blank.]

TWENTY-NINE
Exhibits to be completed

29.1 It is agreed by the parties that the exhibits to this Lease will be finalized and updated throughout the Inspection Period and that within thirty (30) days after the start of the Primary Term all exhibits will be finalized.

THIRTY
Guaranty


42.1 A condition precedent to the effectiveness of this Lease, shall be the execution and delivery, simultaneous with this Lease, of that certain Guaranty in favor of Lessor in the form attached hereto as Exhibit "G" by QuikTrip Corporation.

IN WITNESS WHEREOF, the Lessor and Lessee have duly executed and affixed their hands and seals to this Lease on the day and year written below.

LESSOR:

**CHISHOLM TRAIL DEVELOPERS
VENTURE, LTD**, a Texas limited partnership

By: HiJolly, Inc., its general partner

By: 
Name: M. Clark Davis
Title: CEO

August 10, 2021 (Date)

LESSEE'S LEGAL REVIEW:

LESSEE:

QT SOUTH, LLC

By QTR Corporation, its Managing Member

By: 

Genevieve L. Schmook
Associate Corporate Counsel

8-26-21 (Date)

By: 

Craig Williams
Assistant Secretary

8-31-21 (Date)

EXHIBIT A
LEGAL DESCRIPTION OF THE LEASED PREMISES
QuikTrip Store #4166

CHISOLM TRAIL TECH CENTER SEC 1, Lot 2, Block A, Lot 2, approximately 1.56 acres.

EXHIBIT "A-1"
LEGAL DESCRIPTION OF THE DEVELOPMENT

[to be provided]

EXHIBIT "A-2"
DEVELOPMENT SITE PLAN

[to be provided]

EXHIBIT "B"

RIDER TO LEASE AGREEMENT
RIDER TO LEASE AGREEMENT AND RENTAL SCHEDULE

QuikTrip Store #4166

Location: _____

Commencement Date: _____

Rental shall be calculated based on the percentages set out below:


	Term Years	Monthly Rental Amount	Beginning Date	End Date
Primary	(1-15)	\$20,000.00*	___/___/___	___/___/___
1 st Option	(16-20)	\$22,000.00	___/___/___	___/___/___
2 nd Option	(21-25)	\$24,200.00	___/___/___	___/___/___
3 rd Option	(26-30)	\$26,620.00	___/___/___	___/___/___
4 th Option	(31-35)	\$29,282.00	___/___/___	___/___/___
5 th Option	(36-40)	\$32,210.00	___/___/___	___/___/___
6 th Option	(41-45)	\$35,431.00	___/___/___	___/___/___
7 th Option	(46-50)	\$38,974.00	___/___/___	___/___/___
8 th Option	(51-55)	\$42,872.00	___/___/___	___/___/___
9 th Option	(56-60)	\$47,159.00	___/___/___	___/___/___
10 th Option	(61-65)	\$51,875.00	___/___/___	___/___/___

* The Monthly Rental Amount for the first twelve (12) months of the Primary Term may be adjusted pursuant paragraph 5.5 of the Lease.

Rider and Rental Schedule Received:

LESSOR


 8/10/21 (Date)

LESSEE


 8/31/21 (Date)

EXHIBIT "C"
ENVIRONMENTAL ASSESSMENT
QuikTrip Store #4166

Phase I and II Site Environmental Assessment prepared by _____,
dated _____.

Environmental Assessment
Received:

LESSOR

(Date)

LESSEE

(Date)

EXHIBIT "D"

INTENTIONALLY DELETED

EXHIBIT "E"
MAJORITY OWNERSHIP

Highland Management, Inc

EXHIBIT "F"

Store #4166

SHORT FORM LEASE

SHORT FORM LEASE between CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., a Texas limited partnership, with its principal office located at c/o HIGHLAND RESOURCES, INC, 211 E. 7th Street, Suite 709, Austin, TX 78701 ("Lessor"), and QT SOUTH, LLC, a Texas limited liability company, with its principal offices located at 4705 S. 129th E. Ave., Tulsa, Oklahoma 74134-7008 ("Lessee").

WITNESSETH

By that certain Ground Lease Agreement dated _____ (the "Lease"), Lessor has leased a leasehold estate, and hereby leases a leasehold estate, to Lessee to certain real property located in Williamson County, State of Texas, including all oil, gas and mineral rights (the "Leased Premises"), being more particularly described in Exhibit "A" which is attached hereto and by this reference made a part hereof.

TO HAVE AND TO HOLD the Leased Premises for a term of fifteen (15) years beginning on the ___ day of _____, 2021, with the option to extend the term for ten (10) additional terms of five (5) years each, all on the terms, provisions and conditions contained in the Lease, which Lease is by reference made a part hereof to the same extent as if all the provisions thereof were copied in full herein.

This SHORT FORM LEASE replaces and supersedes the INITIAL SHORT FORM LEASE executed between Lessor and Lessee dated the ___ day of _____, 2021 and recorded in _____.

Executed to be effective as of the ___ day of _____, 2021.

LESSOR:

LESSEE:

CHISOLM TRAIL DEVELOPERS
VENTURE, LTD

QT SOUTH, LLC
By QTR Corporation, its Managing
Member

By: HiJolly Inc., its General Partner

By: _____

(Name)
(Title)

By: _____
Craig Williams
Assistant Secretary

Exhibit "A"
Legal Description

EXHIBIT "F-1"

Store #4166

INITIAL SHORT FORM LEASE

INITIAL SHORT FORM LEASE between CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., a Texas limited partnership, with its principal office located at c/o HIGHLAND RESOURCES, INC, 211 E. 7th Street, Suite 709, Austin, TX 78701 ("Lessor"), and QT SOUTH, LLC, a Texas limited liability company, with its principal offices located at 4705 S. 129th E. Ave., Tulsa, Oklahoma 74134-7008 ("Lessee").

WITNESSETH

By that certain Ground Lease Agreement dated _____ (the "Lease"), Lessor has leased a leasehold estate, and hereby leases a leasehold estate, to Lessee to certain real property located in Williamson County, State of Texas, (the "Leased Premises"), being more particularly described in Exhibit "A" which is attached hereto and by this reference made a part hereof.

TO HAVE AND TO HOLD the Leased Premises for a term of fifteen (15) years beginning on the date Lessee's store is completed, equipped and open for business or all construction costs have been paid in full, whichever occurs last, with the option to extend the term for ten (10) additional terms of five (5) years each, all on the terms, provisions and conditions contained in the Lease, which Lease is by reference made a part hereof to the same extent as if all the provisions thereof were copied in full herein.

Executed to be effective as of the ____ day of _____, 2021.

LESSOR:

LESSEE:

CHISOLM TRAIL DEVELOPERS
VENTURE LTD

QT SOUTH, LLC
By QTR Corporation, its Managing
Member

By: HiJolly, Inc., its general partner

By: _____

(Name)
(Title)

By: _____
Craig Williams
Assistant Secretary

STATE OF _____)
) ss.
COUNTY OF _____)

This instrument was acknowledged before me on this _____ day of _____, 2021, by _____, to me personally known, who, being by me duly sworn, did say that he/she/they is/are the _____ of _____, and _____ acknowledged the execution of said instrument to be the voluntary act and deed of said corporation by it voluntarily executed.

Notary Public

My commission expires:

STATE OF _____)
)
COUNTY OF _____) ss.

On this ____ day of _____, 2021, before me, the undersigned, a Notary Public, appeared Craig Williams, to me personally known, who being by me duly sworn, did say that he is the Authorized Agent-Assistant Secretary of QT South, LLC, and that said instrument was signed and sealed in behalf of said corporation, by authority of its Board of Directors and Craig Williams acknowledged said instrument to be the free act and deed of said company.

In testimony whereof I have hereunto set my hand and affixed my official seal at my office in said county and state the day and year last above written.

Notary Public in and for said County and State

My Commission Expires:

Exhibit "A"
Legal Description

EXHIBIT "G"
Lease Guaranty

_____, 2020

RE: Guaranty of Lease Obligations

In consideration of _____ ("Lessor") agreeing at the request of QuikTrip Corporation, 4705 South 129th East Avenue, Tulsa, Oklahoma 74134 ("Guarantor"), to enter into that certain _____ (the "Lease") from time to time with QT South, LLC ("Lessee"), Guarantor does hereby guarantee irrevocably and unconditionally, except as otherwise set forth in this guaranty, the payment and performance, upon Lessor's demand, by Lessee of all obligations arising under the Lease, whether now in existence or hereafter arising, of Lessee to Lessor.

Guarantor hereby waives notice of acceptance of this guaranty and notice of any obligations to which it may apply, and, except as provided in this guaranty, waives presentment, demand for payment or performance, protest, notice of dishonor, non-payment or non-performance of any such obligation, suit or the taking of other action by Lessor against, and any other notice to, Lessee, Guarantor or others.

Lessor may at any time and from time to time without notice or consent of Guarantor (1) agree with Lessee to make any change in the terms of any obligation of Lessee to Lessor, (2) take or fail to take any action in respect of any security for any obligation of Lessee to Lessor, (3) exercise or refrain from exercising any rights against Lessee or others, or (4) compromise or subordinate any obligation of Lessee to Lessor including any security therefor; provided that the obligation of Guarantor to Lessor will not be impaired, compromised or increased beyond that which was ultimately agreed to between Lessor and Lessee.

This guaranty shall continue and remain in full force and effect during the term of the Lease. It is understood, however, that notwithstanding the expiration or any termination of the Lease, this guaranty shall continue in full force and effect with respect to all obligations guaranteed hereunder which have been incurred prior to such expiration or termination of the Lease. Guarantor further states that this guaranty shall continue to be effective or be reinstated, as the case may be, if at any time payment or performance, or any part thereof, of any obligation of Lessee guaranteed hereunder is rescinded or must be otherwise be reinstated or returned due to bankruptcy or insolvency laws or otherwise.

This guaranty is one of payment and/or performance, and is not one of collection. Lessor is to make written demand directly on Guarantor for such payment and/or performance upon default by Lessee. In addition, Guarantor, upon demand, will reimburse Lessor for reasonable attorney fees necessarily incurred by Lessor in collection of payments or enforcement of performance hereunder. Except as to applicable statutes of limitation, delay by Lessor in making demand will not alter Guarantor's obligation under this guaranty and Lessor will not be required to exhaust any remedies it may have against Lessee.

Notices and demands are to be made via personal delivery, express courier, or certified mail, postage prepaid and return receipt requested, and are effective upon receipt. Any notice to Guarantor or demand on Guarantor must be made to the attention of QuikTrip Corporation, Attention: General Counsel, 4705 South 129th East Avenue, Tulsa, Oklahoma 74134.

This guaranty shall be governed by and construed in conformity with the laws of the State of Oklahoma without regard to any conflict of laws doctrine which would apply the laws of another jurisdiction. Guarantor hereby submits to the jurisdiction of the courts of the State of Oklahoma and to the federal court located in Tulsa, Oklahoma.

The above embodies the entire terms of guaranty by Guarantor to Lessee with respect to the Lease.

Very truly yours,

Stuart C. Sullivan
Vice President-Finance and Chief Financial Officer
QuikTrip Corporation

3.0 GEOLOGIC ASSESSMENT FORM (TCEQ-0585)





**Narrative Description of Site Specific Geology for the
Approximately 1.5 Acre QuikTrip 4166 Site, Round
Rock, Williamson County, Texas**

Prepared for:

APEX Companies, LLC

Prepared by:

Cambrian Environmental

March 14, 2022

**NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY FOR THE
APPROXIMATELY 1.5 ACRE QUIKTRIP 4166 SITE, ROUND ROCK, WILLIAMSON
COUNTY, TEXAS**

Prepared for:

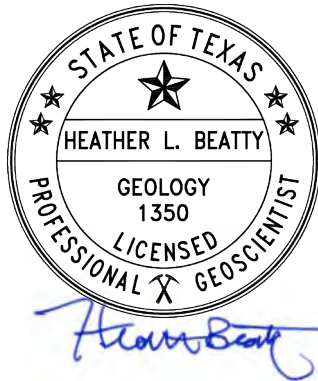
Apex Companies, LLC
12012 Technology Blvd, Ste 201
Austin, Tx 78727

Prepared by:

Heather Beatty, P.G.
and
Craig Crawford, P.G.

Cambrian Environmental
4422 Pack Saddle Pass, Suite 204
Austin, Texas 78745

TX Geoscience Firm Registration #50484



As licensed professional geoscientists we attest that the contents of this report are complete and accurate to the best of our knowledge.

March 14, 2022

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Heather Beatty

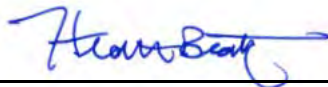
Telephone: 512-470-4013

Date: March 14, 2022

Fax: None

Representing: Cambrian Environmental, Geoscience Firm #50484 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: QuikTrip 4166

Project Information

1. Date(s) Geologic Assessment was performed: February 14, and March 3, 2022

2. Type of Project:

WPAP
 SCS

AST
 UST

3. Location of Project:

Recharge Zone
 Transition Zone
 Contributing Zone within the Transition Zone

4. **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Denton (DnA)	D	<3.3
Eckrant (EeB)	D	<2

* Soil Group Definitions (Abbreviated)

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

6. **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = 30'
 Site Geologic Map Scale: 1" = 30'
 Site Soils Map Scale (if more than 1 soil type): 1" = 200'
9. Method of collecting positional data:
 - Global Positioning System (GPS) technology.
 - Other method(s). Please describe method of data collection: _____
10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. Surface geologic units are shown and labeled on the Site Geologic Map.

12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- Geologic or manmade features were not discovered on the project site during the field investigation.
13. The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- The wells are not in use and have been properly abandoned.
- The wells are not in use and will be properly abandoned.
- The wells are in use and comply with 16 TAC Chapter 76.
- There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

GEOLOGIC ASSESSMENT TABLE				PROJECT NAME: QuikTrip 4166															
LOCATION			FEATURE CHARACTERISTICS								EVALUATION		PHYSICAL SETTING						
1A	1B*	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DIP (DEG)	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)	TOPOGRAPHY
						X	Y	Z	<40							>40	<1.6		
No Geologic or Man-made Features Were Identified on this Project																			

* DATUM: WGS84

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY	
	Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed



I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Heather Beatty

Date 14 March 2022

Sheet 1 of 1



NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY FOR THE APPROXIMATELY 1.5 ACRE QUIKTRIP 4166 SITE, ROUND ROCK, WILLIAMSON COUNTY, TEXAS

INTRODUCTION

This narrative Geologic Assessment accompanies the Texas Commission on Environmental Quality (TCEQ) Geologic Assessment Form TCEQ-0585 completed for the proposed QuickTrip Store 4166 which located in Round Rock, Williamson County, Texas (Figure 1). The site is located at the southwest corner of the intersection of Old Settler's Boulevard and Chisholm Trail Road less than 1,000 feet west of Interstate Highway 35. The project will consist of construction of a convenience store and underground storage tank (UST) facility. No sensitive features were identified on the site during the assessment. An inspection is required of the completed UST tankhold excavation by a Professional Geoscientist.

METHODOLOGY

Cambrian Environmental Registered Professional Geoscientists (License #'s 10791 and 1350) conducted field surveys for a Geologic Assessment on the 14th of February and the 3rd of March 2022. The pedestrian surveys were completed by walking parallel transects spaced approximately 50 feet apart as directed by the TCEQ in the Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (Rev. 10-01-04). Closer spacing was used where vegetation inhibited clear observation. All potential karst features, including depressions, holes, and animal burrows, were carefully examined for evidence of subsurface extent. A number of techniques were used for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for the presence of air flow, which may indicate the presence of a sub-surface void space. Other techniques included making observations of any notable characteristics of the feature site such as the presence of various types of vegetation or a semi-circular burrow mound produced by the activities of small mammals. The locations of any discovered features were recorded with a handheld GPS unit.

RESULTS

Soils

Soils mapped within the project areas consist of the Denton silty clay (DnA) and the Eckrant (EeB) extremely stony clay series soils¹. (Figure 2). The Denton and Eckrant series soils are both within the "D" classification of the hydrologic soil groups. The "D" soils have a very slow infiltration rate (very high runoff potential) when thoroughly wet.

¹ United States Department of Agriculture, Natural Resource Conservation Service. Online Web Soil Survey, Williamson County, Texas. <http://websoilsurvey.sc.egov.usda.gov/>

These consist chiefly of clays that have a high shrink-swell potential, soils that have a permanent high-water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious cover. These soils have a very slow rate of water transmission.

The Denton silty clay is a nearly level soil found on valley floors and ridges. Typically, the upper layer is very dark brown silty clay about 23 inches thick. The subsoil is a dark brown silty clay. The underlying material is weathered nodular limestone. The Eckrant extremely stony clay is a nearly level to gently sloping soil that occurs on broad ridges and in shallow valleys on uplands. Typically, the soil is very dark gray with a surface layer about 11 inches thick. The underlying material is an indurated limestone.

Geology

Bedrock lithology underlying the project consists of the Georgetown Limestone, and the project is located entirely within the Edwards Aquifer Recharge Zone (Figure 3). The Georgetown Limestone is a light gray to white, hard, chalky, nodular unit. The Georgetown was subdivided by Atchison (1954)² which was adopted by Housh (2007)³. Fossiliferous cobble and boulder-size bedrock fragments were observed within the project area, particularly within an east to west trending mound in the south-central part of the site. Bounded on the south end by old fencing, the mound stands only about a foot higher than adjacent terrain, and appears to be the result of previous land clearing activities. The bedrock fragments contained abundant oyster fossils (likely *Gryphaea washitaensis*). No potential recharge features were identified during the pedestrian survey. The geology of the project has been mapped most recently at useful scales by Collins (2005)⁴ and Housh (2007).

Recharge into the aquifer primarily occurs in areas where the Edwards and Georgetown Limestone units are exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features are commonly formed along joints, fractures, and bedding plane surfaces in the Edwards Limestone which is stratigraphically below the Georgetown Limestone. No faults are mapped within the project area, and none were directly observed during the pedestrian survey. The nearest mapped faults are the Three Mile Fault and an associated secondary fault more than 1,000 feet west of the railroad tracks. The Three Mile Fault strikes N30E.

² Atchison, D.E., 1954, Geology of the Brushy Creek Quadrangle, Williamson County, Texas. Austin, The University of Texas at Austin, M.A. Thesis, 94p.

³ Housh, T.B., 2007, Bedrock Geology of the Round Rock and Surrounding Areas, Williamson and Travis Counties, Texas. Map scale 1:24,000.

⁴ Collins, E.W., 2005, Geologic Map of the West Half of the Taylor 30x60 Quadrangle: Central Texas Urban Corridor, Encompassing Round Rock, Georgetown, Salado, Briggs, Liberty Hill, and Leander. Bureau of Economic Geology, The University of Texas at Austin. Austin, Texas 78713-8924. Map scale 1:100,000.

Site Hydrogeologic Assessment

A review of the Texas Water Development Board's groundwater data base revealed no wells within the project site. Depth to the water table based on nine measurements from a USGS monitor well (State well ID 58-27-838) located about 2,000 feet southwest of the site fluctuates between 694 and 718 feet above mean sea level (AMSL). The elevation of the project site is approximately 790 feet AMSL.

The site is very flat with an average slope of one percent. Drainage from the site flows to the south before eventually joining the Onion Branch of Brushy Creek.

No karst or geologic features, or any sensitive man-made features were identified on the site during the pedestrian survey, although several filled geotechnical borings were observed. In the absence of discrete recharge features, the likelihood of recharge occurring within the project area limits and contributing to the main body of the aquifer is thought to be low.

An inspection of the completed UST tankhold excavation by a Professional Geoscientist is required prior to installation of the bedding material. Based on the certification from the geoscientist, installation activities may proceed if no sensitive features are present during the inspection. Any karst features discovered during the construction phase of the project should be reported to TCEQ to determine the appropriate mitigation measures.

Bedrock Stratigraphic Column⁵

*Shaded areas represent lithologies underlying the project area

QuikTrip 4166

Period	Symbol	Map Unit
Upper Cretaceous	Kbu	Buda Limestone ~ 30 feet
	Kdr	Del Rio Clay ~ 75 feet
Lower Cretaceous	Kgt	Georgetown Limestone ~ 80 feet
	Ked	Edwards Limestone ~ 150 feet
	Kcp	Comanche Peak Limestone ~ 50 feet
	Kwa	Walnut Formation ~ 100 feet

Edwards Aquifer

⁵ Round Rock area stratigraphy is from Collins (2005) and Housh (2007). According to Housh (2007), the Kiamichi Formation is 4 ft thick in the Round Rock area, is not mapped separately, and unconformably overlies the Edwards Limestone.

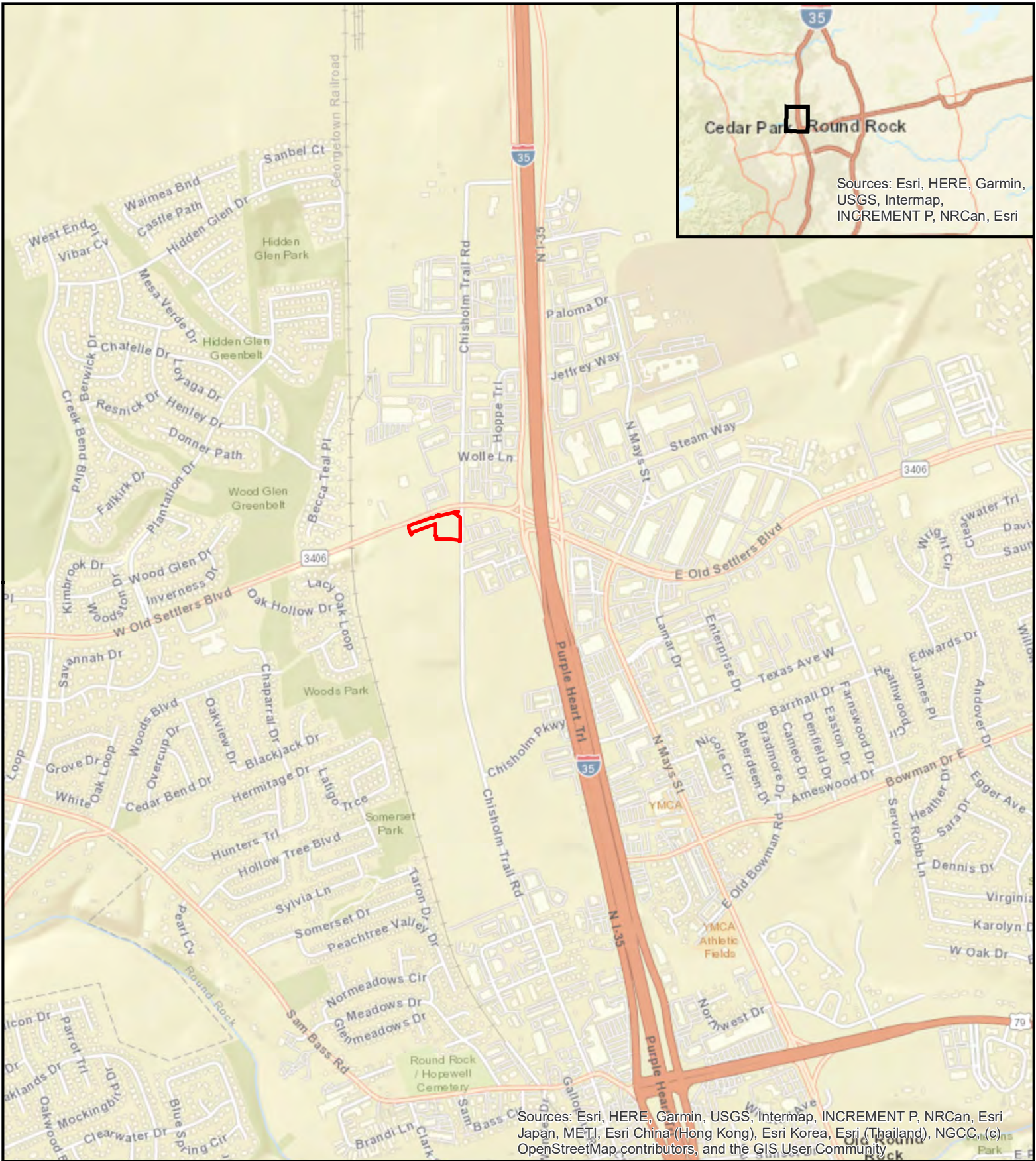
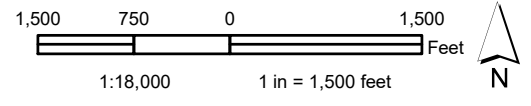


Fig.1 Site Location Map
 QuikTrip Store #4166
 SWC of Old Settler's & Chisholm Trail
 Round Rock, TX 78681

Project No. QUI005-0204725-21001633

Legend
 Site Boundary



Apex Companies, LLC
 12012 Technology Blvd, Suite 201
 Austin, TX 78727
 Phone: (512) 250-2600

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

NRCS Soil Map Unit




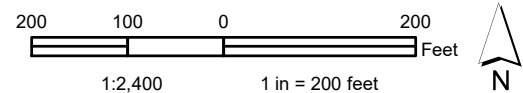
-  DnA: Denton silty clay, 0 -1% slopes
-  EeB: Eckrant stony clay, 0- 3 % slopes, stony
-  Site Boundary







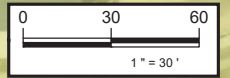
Fig.2 Site Soils Map
QuikTrip Store #4166
SWC of Old Settler's & Chisholm Trail
Round Rock, TX 78681

Project No. QUI005-0204725-21001633



Apex Companies, LLC
12012 Technology Blvd, Suite 201
Austin, TX 78727
Phone: (512) 250-2600

LEGEND:
 Site Boundary
 Site Plan Features
Source: Bureau of Economic Geology, Collins 2005
 Qu
 Kgt

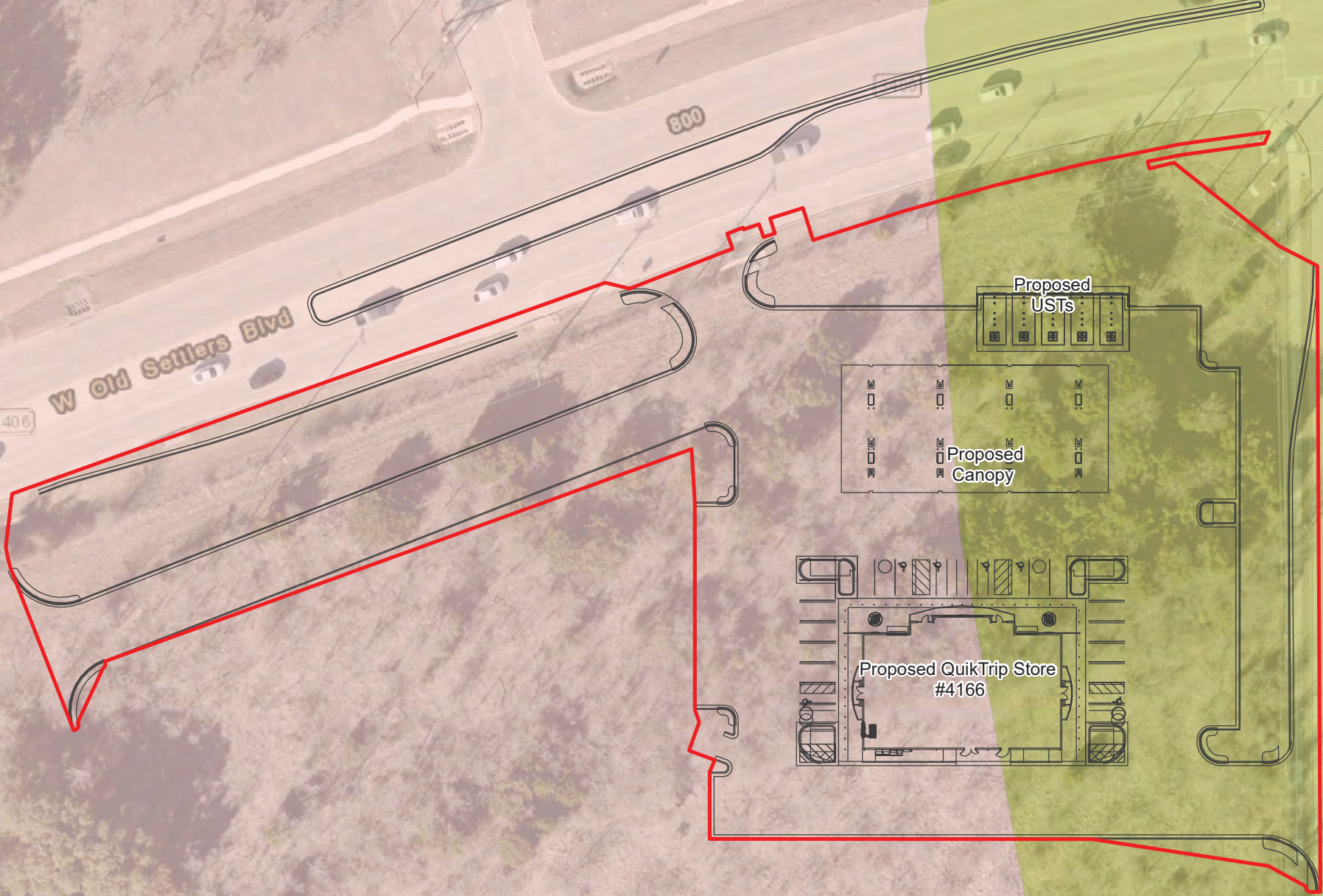


Edwards Aquifer Recharge Zone

Kgt
 ((Georgetown Limestone))

Qu
 ((Quaternary deposit, undivided))

AREA OF MINIMAL FLOOD HAZARD



AREA OF MINIMAL FLOOD HAZARD

Kgt
 ((Georgetown Limestone))

Qu
 ((Quaternary deposit, undivided))



Heather Beatty
 14 March 2022

Apex Companies, LLC
 12012 Technology Blvd, Suite 201
 Austin, TX 78727
 Phone: (512) 250-2600

QuikTrip Store #4166
 SWC of Old Settler's & Chisholm Trail
 Round Rock, TX 78681
 Project No. QUI005-0204725-21001633

Geologic Assessment
 Fig.3 Site Geologic Map

Site Photos



Photo 1. Typical view of the project area.



Photo 2. Filled geotechnical borehole on the site.



Photo 3. Typical view of the southern project area.



Photo 4. Tree line marking old fencing on the southern edge of the push pile mound.

4.0 MODIFICATION OF A PREVIOUSLY APPROVED PLAN (TCEQ-0590)



Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

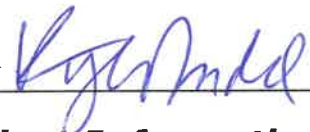
Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This request for a **Modification of a Previously Approved Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Kyla Rudd

Date: 6/28/2023

Signature of Customer/Agent:



Project Information

1. Current Regulated Entity Name: QuikTrip 4166
Original Regulated Entity Name: QuikTrip 4166
Regulated Entity Number(s) (RN): 111392858
Edwards Aquifer Protection Program ID Number(s): WPAP-11003213; UST 11003214
 The applicant has not changed and the Customer Number (CN) is: 605786011
 The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
2. **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.

3. A modification of a previously approved plan is requested for (check all that apply):
- Physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - Development of land previously identified as undeveloped in the original water pollution abatement plan;
 - Physical modification of the approved organized sewage collection system;
 - Physical modification of the approved underground storage tank system;
 - Physical modification of the approved aboveground storage tank system.
4. Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

<i>WPAP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	_____	_____
Type of Development	_____	_____
Number of Residential Lots	_____	_____
Impervious Cover (acres)	_____	_____
Impervious Cover (%)	_____	_____
Permanent BMPs	_____	_____
Other	_____	_____

<i>SCS Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Linear Feet	_____	_____
Pipe Diameter	_____	_____
Other	_____	_____

AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs	_____	_____
Volume of ASTs	_____	_____
Other	_____	_____

UST Modification	Approved Project	Proposed Modification
Summary		
Number of USTs	<u>5</u>	<u>6</u>
Volume of USTs	<u>75,000 gal</u>	<u>72,000 gal</u>
Other	_____	_____

5. **Attachment B: Narrative of Proposed Modification.** A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any previous modifications, and how this proposed modification will change the approved plan.

6. **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
 - The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
 - The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
 - The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
 - The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
 - The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.

7. The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
 - Acreage has not been added to or removed from the approved plan.

8. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

QuikTrip Corporation
Application for Modification of a Previously Approved Underground Storage Tank Plan
Proposed QuikTrip Store 4166
TCEQ General Information Form (TCEQ-0590)

ATTACHMENT A – ORIGINAL APPROVAL LETTER AND APPROVED MODIFICATION LETTERS



Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Erin E. Chancellor, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 6, 2023

Ms. Kyla Rudd
QT South, LLC
4705 South 129th East Avenue
Tulsa, OK 74134

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: Quiktrip 4166; Located at 701 W. Settlers Blvd.; Round Rock, Texas

TYPE OF PLAN: Request for Approval of an Underground Storage Tank Facility Plan (UST); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program ID No. 11003213; Regulated Entity No. RN111560389

Dear Ms. Rudd:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the UST application for the above-referenced project submitted to the Austin Regional Office by Apex Companies, LLC on behalf of QT South, LLC on August 23, 2022. Final review of the UST was completed after additional material was received on December 2, 2022, and December 19, 2022. As presented to the TCEQ, the UST Facility Plan proposed in the application was prepared to be in general compliance with the requirements of 30 TAC Chapter 334, Underground Storage Tanks, and 30 TAC §213.5(d). Therefore, based on the applicant's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this approval letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer protection plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The project site is located on the Edwards Aquifer Recharge Zone. The proposed UST Facility Plan will consist of five (5) new 15,000-gallon double-wall fiberglass reinforced plastic tanks. Two tanks will be used for the storage of regular unleaded gasoline. One tank will be used for the storage of gasoline E0. One tank will be used for the storage of premium gasoline. One tank will be used for the storage of diesel fuel.

Ancillary equipment will include overfill prevention, spill containment, a double-wall fiberglass reinforced plastic piping system, stainless steel flexible connectors, piping sumps, dispenser-end containment sump, an electronic continuous leak detection system to monitor the tank and piping interstices and capable of notifying the system's owner, two observation wells, and all other equipment as required by 30 TAC Chapter 334.

GEOLOGY

According to the Geologic Assessment (GA) included with the application, the site is underlain by the Georgetown Limestone Formation. No sensitive geologic features were identified in the Geologic Assessment. The TCEQ Austin Regional Office site assessment conducted on November 18, 2022, revealed the site to be generally as described by the Geologic Assessment.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all 33 provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.
4. Installation, testing, and operation of the tanks, piping, and all other components of the proposed storage and monitoring systems shall be in conformance with the manufacturer's specifications.
5. All installations, repairs, and removals must be conducted by a registered UST contractor who has a licensed installer or on-site supervisor at the site during all critical junctures, as required by 30 TAC Chapter 334 Subchapter I.
6. The owner of the proposed facility shall assure that the storage tank system is installed, operated, and maintained in full compliance with the applicable provisions of 30 TAC Chapter 334 which establishes the requirements for the design, installation, operation, corrosion protection, construction notification, registration, fee assessment, financial responsibility, release reporting, corrective action related to such system, and all applicable federal, state, and local regulations.

Prior to Commencement of Construction:

7. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the Austin Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved UST Facility Plan is enclosed.
8. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved UST Facility Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
9. Prior to commencing construction, the applicant shall submit any modifications to this approved UST Facility Plan required by some other regulating authority or desired by the applicant.
10. Modification to the activities described in the referenced UST Facility Plan following the date of approval may require the submittal of an Edwards Aquifer protection plan application to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

11. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
12. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved UST Facility Plan, must be installed prior to construction, and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
13. All borings with depths greater than or equal to 20 feet must be plugged with a non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

14. A geologist must inspect the completed tank hold for the presence of geologic features. Certification that the tank hold excavation has been inspected must be submitted to the Austin Regional Office. If a geologic feature is discovered, the applicant must propose methods to protect the feature and the Edwards Aquifer from potentially adverse impacts to water quality from the underground storage tank system. Installation activities may not proceed until the executive director has reviewed and approved the proposed methods. The protection methods must be consistent with 30 TAC §213.5(d)(1)(B). Construction may continue without written approval from the TCEQ if the geologist certifies that no sensitive features were present.
15. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
16. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the Austin Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
17. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
18. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.

Ms. Kyla Rudd
Page 4
January 06, 2023

19. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
20. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
21. Intentional discharges of sediment laden water during construction are not allowed. If dewatering of excavated areas becomes necessary, the discharge will be filtered through appropriately selected temporary best management practices. These may include vegetative filter strips, sediment traps, rock berms, silt fence rings, etc.

After Completion of Construction:

22. The leak detection system must provide continuous monitoring of the system and must be capable of immediately alerting the system's owner or their representative of possible leakages.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Bob Castro, P.E. of the Edwards Aquifer Protection Program of the Austin Regional Office at (512) 339-2929.

Sincerely,



Lillian Butler, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

LIB/rbc

Enclosures: Deed Recordation Affidavit, Form TCEQ-062

CC: Mr. Aaron Brewer, P.G., Apex Companies, LLC

Deed Recordation Affidavit
Edwards Aquifer Protection Plan

THE STATE OF TEXAS §

County of _____ §

BEFORE ME, the undersigned authority, on this day personally appeared _____ who, being duly sworn by me, deposes and says:

- (1) That my name is _____ and that I own the real property described below.
- (2) That said real property is subject to an EDWARDS AQUIFER PROTECTION PLAN which was required under the 30 Texas Administrative Code (TAC) Chapter 213.
- (3) That the EDWARDS AQUIFER PROTECTION PLAN for said real property was approved by the Texas Commission on Environmental Quality (TCEQ) on _____.

A copy of the letter of approval from the TCEQ is attached to this affidavit as Exhibit A and is incorporated herein by reference.

- (4) The said real property is located in _____ County, Texas, and the legal description of the property is as follows:

LANDOWNER-AFFIANT

SWORN AND SUBSCRIBED TO before me, on this __ day of _____, _____.

NOTARY PUBLIC

THE STATE OF _____ §

County of _____ §

BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this __ day of _____, _____.

NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: _____

QuikTrip Corporation
Application for Modification of a Previously Approved Underground Storage Tank Plan
Proposed QuikTrip Store 4166
TCEQ General Information Form (TCEQ-0590)

ATTACHMENT B – NARRATIVE OF PROPOSED MODIFICATION



QuikTrip Corporation
Application for Modification of a Previously Approved Underground Storage Tank Plan
Proposed QuikTrip Store 4166
TCEQ General Information Form (TCEQ-0590)

On January 6, 2023, QT South, LLC received approval for an Underground Storage Tank Facility Plan for the construction and operation of a commercial gasoline service station/convenience store to be located at 701 W. Settler's Blvd in Round Rock, Williamson County, Texas on the Edwards Aquifer Recharge Zone. The approved underground storage tank (UST) system consists of five (5) new 15,000-gallon double-wall fiberglass reinforced plastic tanks to be used for the storage of gasoline and diesel fuels. Two tanks were to be used for the storage of regular gasoline. One tank was to be used for the storage of gasoline E0. One tank was to be used for the storage of premium gasoline and one tank was to be used for the storage of diesel fuel.

QT is requesting approval for a modification of the UST system from the previously proposed five tank double-walled system to a six tank triple-walled system. The proposed new underground static hydrocarbon storage system will consist of six (6) 12,000-gallon, new triple-walled fiberglass tanks to be used for the storage of gasoline and diesel fuels. Three of the tanks will be used for storing gasoline, one will be for storing E0, one will be for storing premium gasoline, and one tank will be for storing diesel fuel.

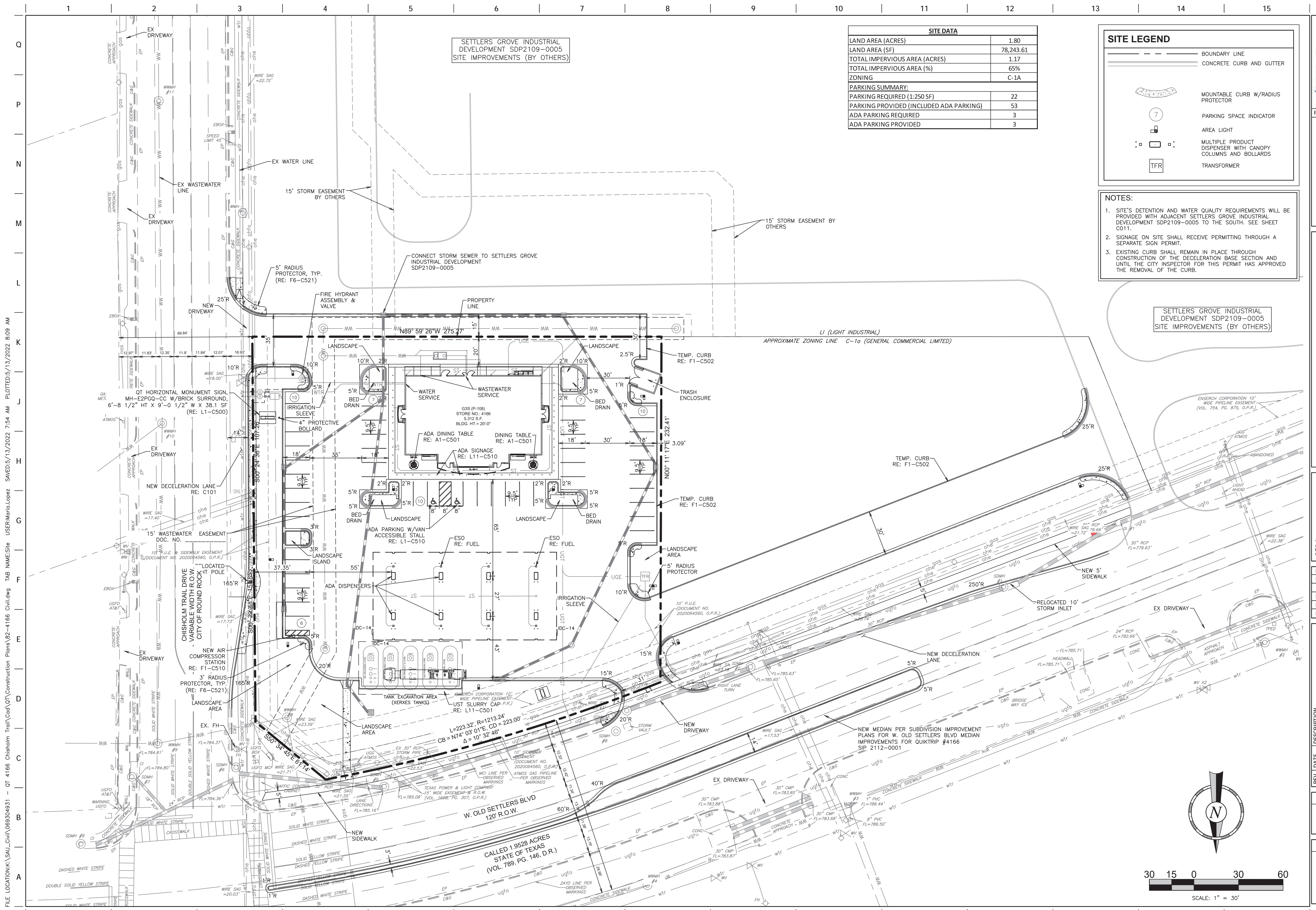
The 12,000-gallon tanks will each be equipped with one 2-horsepower, 4-inch diameter submersible pump. Overfill prevention for each UST will be provided by a two-stage vapor-tight overfill protection valve which will be installed in the tank below the fill tube. The UST overfill protection valves will be set to restrict flow of product to approximately 5 gallons per minute into the tank/tank compartment when the volume of liquid in the tank reaches no more than 84% of the tank capacity and will shut off flow into the tank when the volume of liquid in the tank reaches no more than 86% of the tank capacity (for safety reasons, QT considers 90% of the total tank capacity to be the maximum fill volume). Spill protection for each tank will be provided by a spill containment manhole which will be fitted on the fill tube of each tank.

QT is not proposing any other changes or modifications to the previously approved corrosion protection measures, tank system and associated piping inventory and leak detection monitoring systems, or best management practices presented in the initial application submitted in January 2023.

QuikTrip Corporation
Application for Modification of a Previously Approved Underground Storage Tank Plan
Proposed QuikTrip Store 4166
TCEQ General Information Form (TCEQ-0590)

ATTACHMENT C – CURRENT SITE PLAN OF THE APPROVED PROJECT

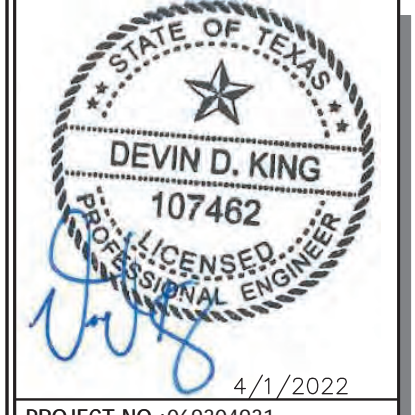




SITE DATA	
LAND AREA (ACRES)	1.80
LAND AREA (SF)	78,243.61
TOTAL IMPERVIOUS AREA (ACRES)	1.17
TOTAL IMPERVIOUS AREA (%)	65%
ZONING	C-1A
PARKING SUMMARY:	
PARKING REQUIRED (1:250 SF)	22
PARKING PROVIDED (INCLUDED ADA PARKING)	53
ADA PARKING REQUIRED	3
ADA PARKING PROVIDED	3

SITE LEGEND	
	BOUNDARY LINE
	CONCRETE CURB AND GUTTER
	MOUNTABLE CURB W/RADIUS PROTECTOR
	PARKING SPACE INDICATOR
	AREA LIGHT
	MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
	TRANSFORMER

- NOTES:**
- SITE'S DETENTION AND WATER QUALITY REQUIREMENTS WILL BE PROVIDED WITH ADJACENT SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-0005 TO THE SOUTH. SEE SHEET C011.
 - SIGNAGE ON SITE SHALL RECEIVE PERMITTING THROUGH A SEPARATE SIGN PERMIT.
 - EXISTING CURB SHALL REMAIN IN PLACE THROUGH CONSTRUCTION OF THE DECELERATION BASE SECTION AND UNTIL THE CITY INSPECTOR FOR THIS PERMIT HAS APPROVED THE REMOVAL OF THE CURB.



Kimley-Horn
 2000 W. WATKINS BLVD., SUITE 300, AUSTIN, TX 78756
 PHONE: (512) 426-4300 FAX: (512) 426-4301
 WWW.KIMLEY-HORN.COM
 TEXAS REGISTERED PROFESSIONAL ENGINEER

QuikTrip No. 4166
 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664



PROTOTYPE: P-108 (11/01/21)
 DIVISION: VISION: 001
 DESIGNED BY:
 DRAWN BY:
 REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C100

15 OF 59
 SDP 2110-0006

FILE LOCATION: \\S:\S\1\069304931 - QT 4166 Chisholm Trail\Con\Construction Plans\02-4166 Civil.dwg TAB NAME: Site PLOTTED: 5/13/2022 8:09 AM USER: Miro.Lopez SAVED: 5/13/2022 7:54 AM

5.0 UNDERGROUND STORAGE TANK FACILITY PLAN (TCEQ-0583)



Underground Storage Tank Facility Plan Application

Texas Commission on Environmental Quality

for Storage on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.5(d), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. All components used for this facility are U.L. listed or certified by a 3rd party and are compatible and will function pursuant to 30 TAC §213.5(d) and 30 TAC Chapter 334 Subchapter C. This **Underground Storage Tank Facility Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Mr. Aaron Brewer, Apex Companies

Date: 7/25/22

Signature of Customer/Agent:



Regulated Entity Name: QuikTrip 4166

Underground Storage Tank (UST) System Information

1. **Attachment A – Detailed Narrative of UST Facility.** A detailed narrative description of the proposed UST Facility is attached. Note: Example descriptions are provided in the instructions (TCEQ-0583-Instructions)

2. Tanks and substance to be stored:

Table 1 - Tanks and Substances Stored

<i>UST Number</i>	<i>Size(Gallons)</i>	<i>Substance to be Stored</i>	<i>Double-wall Tank Material</i>
1	15,000	Gasoline, unleaded	FRP

<i>UST Number</i>	<i>Size(Gallons)</i>	<i>Substance to be Stored</i>	<i>Double-wall Tank Material</i>
2	15,000	Gasoline, unleaded	FRP
3	15,000	E0	FRP
4	15,000	Gasoline, premium	FRP
5	15,000	Diesel	FRP

3. Tanks:

- Attachment B – Manufacturer Information for Tanks.** New or replacement systems for the underground storage of static hydrocarbons or hazardous substances must be double-walled or provide an equivalent method of protection approved by the executive director. Tanks must comply with technical standards as required by 30 TAC 334.45(b) relating to technical standards for new tanks. Manufacturer information is attached.
- Attachment C – Alternative Design and Protection Method for Tanks.** Information required by 30 TAC 334.43, relating to variances and alternative procedures is attached.

4. Piping:

- Attachment D – Manufacturer Information for Piping.** Piping must comply with technical standards as required by 30 TAC 334.45(c) relating to technical standards for new piping. Manufacturer information is attached.
 - Attachment E – Alternative Design and Protection Method for Piping.** Information required by 30 TAC 334.43, relating to variances and alternative procedures is attached.
5. Any new underground storage tank system that does not incorporate a method for tertiary containment shall be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature as required by 30 TAC §213.5(d)(1)(B).
- The UST system(s) will not be installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
 - Attachment F - Tertiary Containment Method.** The UST system(s) will be required to have tertiary containment provided. A description of the method proposed to provide tertiary containment is attached.

6. Corrosion protection equipment to be installed or type of non-corrodible materials:

Table 2 - Corrosion Protection

<i>Equipment</i>	<i>Corrosion Protection (Method)</i>
Tanks	Constructed of double wall fiberglass
Product Delivery Piping	Constructed of double wall fiberglass

Equipment	Corrosion Protection (Method)
Vapor Recovery Piping	Constructed of fiberglass
Submersible Pumps	Constructed of anti-corrosive materials and contained within fiberglass sumps
Flex Connector (dispenser end)	Constructed of anti-corrosive materials and contained within fiberglass sumps
Flex Connector (pump end)	Constructed of anti-corrosive materials and contained within fiberglass sumps
Riser	Risers are constructed of black iron for diesel and galvanized aluminum for gasoline products and are primed and wrapped to prevent corrosion. The annular space riser is constructed of FRP.

7. Overfill protection equipment to be installed:
- Overfill prevention restrictor positioned at 90% capacity.
 - Overfill prevention valve positioned at 95% capacity.
 - Overfill audible and visual alarm positioned at 90% capacity.
8. Methods for detecting leaks in the inside wall of a double-walled system must be included in the facility's design and construction. The leak detection system must provide continuous monitoring of the system and must be capable of immediately alerting the system's owner of possible leakages. Release detection equipment to be installed: (Check all that apply)
- Central on-site monitor
 - Interstitial tank probes
 - Automatic tank gauge
 - Pump/manway sump probes
 - Observation well probes
 - Mechanical line leak detectors (for pressurized lines only)
 - Automatic (electronic) line leak detectors

Excavation and Backfill

9. The depth of the tank excavation will be sufficient to accommodate piping fall requirements, tank diameter, bedding, and a minimum cover of three (3) feet [30 TAC §334.46].
- The depth of the tank excavation will be minimum of 15'4" and maximum of 17'4" feet.
10. The minimum thickness of the tank bedding will conform to 30 TAC §334.46(a)(5)(C and D).
- The tank bedding thickness will be 12 to 24 inches.

11. The material to be used as backfill will conform to 30 TAC §334.46(a)(5)(A and B) and will consist of:
- Clean washed non-corrosive sand
 - Pea gravel
 - Crushed rock
 - Other: _____
12. The slope of the product delivery line(s) will conform to 30 TAC §334.46(c)(2) and will be 1/8" per foot (1/8" per foot minimum).

Site Plan Requirements

Items 13 - 24 must be included on the Site Plan.

13. The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 20'.
14. 100-year floodplain boundaries:
- The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): Flood Insurance Rate Map, Community-Panel Number 48491C0487F, December 20, 2019
 - Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
 - No part of the project site is located within the 100-year floodplain.
15. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
- The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
16. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
- There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)
 - The wells are not in use and have been properly abandoned.
 - The wells are not in use and will be properly abandoned.
 - The wells are in use and comply with 16 TAC §76.
 - There are no wells or test holes of any kind known to exist on the project site.
17. Geologic or manmade features which are on the site:
- All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
 - No sensitive geologic or manmade features were identified in the Geologic Assessment.

- Attachment G - Exception to the Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.
18. The drainage patterns and approximate slopes anticipated after major grading activities.
19. Areas of soil disturbance and areas which will not be disturbed.
20. Locations of major structural and nonstructural controls. These are the temporary best management practices.
21. Locations where soil stabilization practices are expected to occur.
22. Surface waters (including wetlands).
 N/A
23. Locations where stormwater discharges to surface water or sensitive features.
 There will be no discharges to surface water or sensitive features.
24. Legal boundaries of the site are shown.

UST System Profiles

25. **Attachment H - Profile Drawing(s).** A profile drawing(s) of the proposed UST system with all components shown and labeled is attached.

Best Management Practices

26. **Attachment I - Initial and Continuing Training.** A description of the initial and continuing training of on-site personnel for operation of release detection equipment is attached. The description should include how personnel will respond to warning and alarm conditions of the leak detection monitoring system.
27. **Attachment J - Release Detection Maintenance.** A description of the program and schedule for maintaining release detection and cathodic protection equipment is attached. Any such equipment should be operated and maintained in accordance with the manufacturer's specifications and instructions.

Administrative Information

28. A Water Pollution Abatement Plan (WPAP) is required for construction of any associated commercial, industrial or residential project located on the Recharge Zone.
- The WPAP application for this project was approved by letter dated _____. A copy of the approval letter is attached at the end of this application.
- The WPAP application for this project was submitted to the TCEQ on 7/25/22, but has not been approved.
- A WPAP application is required for an associated project, but it has not been submitted.
- There will be no building or structure associated with this project. In the event a building or structure is needed in the future, the required WPAP will be submitted to the TCEQ.

- The proposed UST is located on the **Transition Zone** and a WPAP is not required. Information requested in 30 TAC 213.5 subsection (b)(4)(B) and (C) and (5) is provided with this application. (Forms TCEQ-0600 Permanent Stormwater Section and TCEQ-0602 Temporary Stormwater Section or Stormwater Pollution Prevention Plan/SW3P).
29. UST systems must be installed by a person possessing a valid certificate of registration in accordance with the requirements of 30 TAC Chapter 334 Subchapter I.
30. This facility is subject to and must meet the requirements of 30 TAC Chapter 334, including but not limited to the 30 day construction notification and reporting and cleanup of surface spills and overfills.
31. Upon completion of the tankhold excavation, a geologist must certify that the excavation was inspected for the presence of sensitive features. The certification must be submitted to the appropriate regional office. If sensitive features are found, then excavation near the feature may not proceed until the methods to protect the Edwards Aquifer are reviewed and approved by the executive director.
32. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
33. Any modification of this UST application will require TCEQ approval, prior to construction, and may require submission of a revised application, with appropriate fees.

Attachment A: Detailed Narrative of UST Facility

The proposed new underground static hydrocarbon storage system will consist of five new double-wall fiberglass 15,000-gallon capacity tanks to be used for the storage of gasoline and diesel fuels. Two tanks will be used for storing unleaded gasoline, one for gasoline E0, one for premium grade gasoline, and one for diesel fuel.

Each tank will be equipped with a 4-horsepower submersible pump. Overfill prevention for each UST will be provided by a two-stage vapor-tight overfill protection valve which will be installed in the tank below the fill tube. The UST overfill protection valves will be set to restrict flow of product to approximately 5 gallons per minute into the tank/tank compartment when the volume of liquid in the tank reaches no more than 84% of the tank capacity and will shut off flow into the tank when the volume of liquid in the tank reaches no more than 86% of the tank capacity (for safety reasons, QuikTrip considers 95% of the total tank capacity to be the maximum fill volume). Spill protection for each tank will be provided by a spill containment manhole which will be fitted on the fill tube of each tank.

Product and vent piping will be U.L. listed fiberglass-reinforced plastic piping. Product lines will be of double-wall construction and will consist of a 2-inch diameter primary pipe within a 3-inch diameter secondary containment pipe. Vent lines will be 2-inch diameter single-wall pipe. A safety/bladder shear valve will be installed on each product line at the dispenser island surface level to assure automatic shut-off of product flow during emergencies and to minimize fuel loss in the event. In addition, stainless steel braid flexible connectors will be installed at both ends of each product line to connect to the dispenser unit and the submersible pump.

Corrosion protection for the metallic components of the underground storage systems will be provided by electrical isolation. The submersible pump housings and pump-end flexible connectors will be installed within a liquid-tight fiberglass-reinforced plastic piping sump which will provide isolation from the corrosive elements of the backfill material while also providing secondary containment for any leaks from these components. The dispenser-end flexible connector will be similarly isolated by enclosure within a flexible isolation sleeve. The vapor recovery riser, the fill tube riser, and the riser for the automatic tank gauging system will be thoroughly wrapped with a suitable dielectric material.

The proposed tanks and piping will be monitored for leaks by means of inventory, leak detection, and a line pressure monitor. Each tank will be equipped with a liquid discrimination sensor which will be installed in the interstitial space between the walls of the double-wall tanks. An electronic line leak detector system (VeederRoot TLS 450) will be utilized to monitor leaks in both the fuel lines and in the containment sumps. Two 6-inch diameter and one 12-inch diameter slotted PVC observation well will be installed within the tank pit excavation. These observation wells will be equipped with a vapor/conductivity (water) probe to provide a means of monitoring the backfilled tank pit area. Each tank/tank compartment will also be equipped with an automatic tank gauging probe which will automatically inventory the product volume in the tank/tank compartment. Each product piping line will be equipped with an electronic positive flow shut off that is designed to stop product flow in the event a leak in the product line is detected. The probes and sensors from all tanks, piping, and observation wells will be connected to a programmable control unit (VeederRoot TLS 450 system) to be located in the store building. This central monitoring unit is designed to provide visual and audible alarms when hydrocarbon liquids, hydrocarbon vapors, or water is detected. A third-party certified

QuikTrip Corporation – Store No. 4166
UST Facility Plan Application

consultant monitors the system for leaks in real time and certain alarms or conditions trigger automatic notifications to responsible parties within QuikTrip for immediate investigation and resolution.

Attachment B: Manufacturer Information for Tanks

ZCL | XERXES®
making a **lasting** difference®

Fiberglass Underground Storage Tanks





ZCL | XERXES

RELIABLE, CORROSION-RESISTANT TANKS

OVER **200,000** FIBERGLASS STORAGE TANKS MANUFACTURED AND SHIPPED IN NORTH AMERICA



A history of **innovation** in the **fuel industry**

When ZCL Composites Inc. and Xerxes Corporation joined in 2007, it brought together North America's two leading fiberglass tank brands: ZCL (founded in 1987) and Xerxes (founded in 1979). Today, ZCL | Xerxes is one of the world's leading innovators in composite tank engineering. Nearly 40 years of manufacturing experience and more than 200,000 tanks manufactured and shipped stand as proof of the reliability and quality of our products.

This solid track record provides our customers with peace of mind, which is why petroleum equipment distributors, fuel marketers and commercial accounts rely on our double-wall tanks for safe underground storage of fuel products. We have provided customers with durable and sustainable products that protect the environment for decades. Our proven track record along with our financial strength assures customers that we will be around to support our industry-leading products and warranties. Currently, 29 of the 30 top c-store marketers¹ choose E15-, E85- and ULSD-compatible, corrosion-resistant fiberglass storage tanks from industry leaders like ZCL | Xerxes.

¹ CSP's Convenience Top 101, <http://www.cspdailynews.com/industry-news-analysis/top-convenience-stores/archive/2015>

Our history of **storage solutions** includes:

- developing the first UL-listed double-wall fiberglass tank
- incorporating our factory-installed hydrostatic monitoring system (TRUCHEK®)
- incorporating our unique 3D glass fabric (Parabeam®) into our tank design



WHY CHOOSE A FIBERGLASS TANK?

Best Product Investment

Fiberglass tanks have rapidly grown in popularity since they were first introduced more than 50 years ago as the corrosion-resistant alternative to underground steel tanks that were rusting, leaking and creating serious environmental damage. Major oil companies and large fuel marketers were the first to realize the benefits of fiberglass over steel for underground tanks. Today, a large majority of North American fuel marketers choose fiberglass, and the preference for fiberglass reaches all segments of the market, including industrial, commercial and government accounts who specify, install and own underground storage tanks. The growing understanding of fiberglass' benefits goes well beyond external corrosion protection with the recognition that fiberglass is corrosion-resistant, both inside and out.

FIBERGLASS OUTPERFORMS STEEL CORROSION RESISTANCE

It's now common knowledge that fiberglass tanks are protected from external rusting due to corrosive soil environments. Today, the widespread use of ethanol-blended gasoline (E10, E15, E85), biodiesel fuels and ultra-low sulfur diesel (ULSD) has shifted the concern about corrosion to include internal protection. Most significantly, new ethanol-blended fuels raise questions about the compatibility of storage tank materials with stored fuel. When today's buyers compare fiberglass and steel tanks they see the clear advantage of our fiberglass tanks, which are not vulnerable to aggressive internal corrosion caused by storage of today's biofuels. The fact that fiberglass tanks are corrosion-resistant both inside and out give them a distinct advantage over steel tanks.

FUEL COMPATIBILITY

Customers today want to be confident that they are choosing a tank material that is compatible with the new fuels as well as traditional fuels. Our UL-listed (1316) and ULC-listed (S615) double-wall fiberglass tanks are UL-compatible with 0-100 percent ethanol storage. They are also warranted for the full range of ethanol-blended gasoline. The correlating UL listing (58) for steel fuel tanks does not require testing for ethanol compatibility. This third-party compatibility verification for fiberglass tanks – that steel tanks do not have – makes fiberglass the clear and superior choice for fuel tanks.

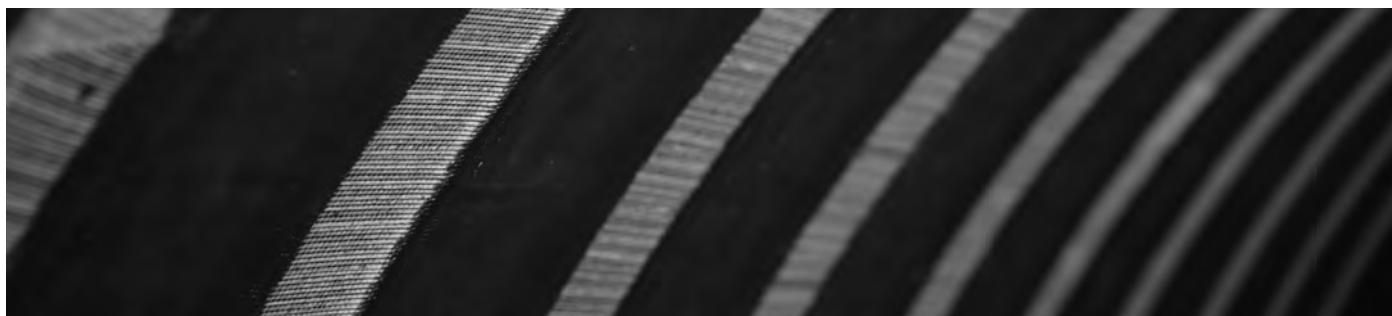




OUR FIBERGLASS TANKS PROVIDE **UNMATCHED BENEFITS**

The ZCL | Xerxes Advantage

ZCL | Xerxes double-wall underground storage tanks offer customers several significant design and performance differences that make them a superior choice to both steel tanks and other fiberglass tanks.



RIB DESIGN FOR STRUCTURAL INTEGRITY

As engineers, system designers and customers compare products, the rib geometry of our tanks is an important consideration in their analysis. Our uniform, high-profile ribs are fabricated directly into the tank cylinder. In some other tanks, ribs are incorporated as a separate step in the manufacturing process. Integrally constructed ribs increase the overall strength of the tank and create a structurally superior product.

30-YEAR WARRANTY

ZCL | Xerxes offers a 30-year limited warranty with no restrictions regarding water-bottom monitoring and removal. In contrast, many steel tank manufacturers now have a 10-year rather than 30-year warranty, and make ongoing maintenance and water-bottom removal a condition of warranty coverage.

PARABEAM®

Our proprietary 3D glass fabric, Parabeam®, also enhances the overall structural integrity of our tank by creating a bond between the tank walls, while providing a free-flowing interstitial space for monitoring capabilities. This technology also eliminates the potential for false alarms (created by fluctuating reservoir levels) that can occur in other hydrostatically monitored tanks.

MAINTENANCE-FREE

The presence of water in the bottom of fuel tanks is a common condition. Maintenance to remove it can be frequent and expensive. The requirement to do so, which is found in most steel-tank warranties, can leave a steel-tank owner vulnerable to a denied warranty claim should the tank corrode internally.

TRUCHEK® CONTINUOUS LEAK DETECTION

Our patented TRUCHEK® hydrostatic tank monitoring system for double-wall tanks is an easy, reliable method for true continuous leak detection and tank-tightness testing. Hydrostatic monitoring – now the industry standard for continuous monitoring – gives tank owners greater peace of mind than with a simple liquid sensor, which can fail to detect an outer-wall breach. (See p. 10 for more information.)



ZCL | XERXES STORAGE TANK SOLUTIONS

Today, double-wall tanks are the industry standard in fuel applications. To meet the needs of our customers we also offer several other fiberglass tank options for a variety of applications and requirements. Our tank options include: double-wall tanks, multicompartment tanks, triple-wall tanks, diesel exhaust fluid tanks and oil-water separators. We also have a tank upgrade system when tank replacement is not viable.

DOUBLE-WALL TANKS

Tank owners and system designers of underground fuel systems need tanks that provide secure storage of fuel over time. ZCL | Xerxes fiberglass double-wall tanks are an excellent solution because they are corrosion-resistant, both inside and out. Our tanks have a proven record of compatibility with traditional petroleum fuel as well as with new biofuels, which are increasing in use. Our double-wall fiberglass tanks are not vulnerable to the corrosion problems inherent in storing ethanol-blended fuels (E10, E15, E85), biodiesel fuels and ultra-low sulfur diesel (ULSD). Nor are they vulnerable to rust caused by corrosive soil environments. Options such as protective coatings and cathodic protection don't guard entirely against external corrosion and rust. This makes ZCL | Xerxes fiberglass double-wall tanks a superior choice for a wider range of fuel applications.

FEATURES

- UL-listed (1316) & ULC-listed (S615) for alcohol fuels
- Secondary containment around full tank circumference
- Dry & hydrostatic monitoring options
- Capacities up to 50,000 gal. (USA)
- Capacities up to 155,000 L (Canada)

MULTICOMPARTMENT TANKS

These tanks are a popular choice among retail gasoline marketers and fleet fueling owners. The ability to store two or three grades or types of fuel in a single tank is particularly appealing when the amount of onsite space makes multiple tanks impossible or difficult. Customers may also find installation and insurance cost savings with a multicompartment tank.

The ZCL | Xerxes double-wall multicompartment tank comes standard with a double-wall bulkhead, while some other tank manufacturers require an upgrade to a double-wall bulkhead. Tanks are available in a wide range of capacities and in diameters of 6 to 10 feet.

FEATURES

- UL-Listed (1316) & ULC-listed (S615) for alcohol fuels
- Secondary containment around full tank circumference
- Dry & hydrostatic monitoring options
- Two- & three-compartment models
- Capacities up to 40,000 gal. (USA)
- Capacities up to 155,000 L (Canada)



TRIPLE-WALL TANKS

Some customers and regulatory agencies now require protection beyond secondary containment. Site conditions that could lead to a requirement for tertiary containment are the following: the presence of sensitive groundwater aquifers, lakes or streams. Our UL-listed triple-wall tank, with an additional Parabeam® interstice, is the innovative and cost-effective answer for this level of containment.

FEATURES

- UL-listed (1316) for alcohol fuels
- Tertiary containment around full tank circumference
- Dry & hydrostatic monitoring options
- Capacities up to 50,000 gal. (USA)
- Capacities up to 155,000 L (Canada)

DIESEL EXHAUST FLUID TANKS

ZCL | Xerxes has become a leading provider of diesel exhaust fluid (DEF) tanks in truck stops and vehicle fleet fuel facilities in the relatively short time DEF has been in demand in North America. Many fueling facilities now need to add bulk storage of DEF to meet the growing number of vehicles with diesel engines that require diesel exhaust fluid. A fiberglass underground storage tank has a number of benefits over the alternatives.

Since DEF cannot be exposed to carbon steel, a tank constructed of fiberglass is the clear choice. Using our fiberglass underground tank avoids the need for protective coatings or linings to protect the integrity of the product.

Underground storage of DEF has clear advantages over aboveground storage, in part because of the product's specific temperature requirements. An underground DEF tank also allows for storage of larger capacities than an aboveground tank and avoids an unsightly, space-consuming aboveground installation.

FEATURES

- Single-wall & double-wall models
- UL label available for future product storage flexibility
- Extensive third-party compatibility testing
- Capacities up to 50,000 gal. (USA)
- Capacities up to 155,000 L (Canada)

OIL-WATER SEPARATORS

With a fiberglass underground tank at the heart of the design, a ZCL | Xerxes oil-water separator incorporates unique refinements within the vessel to create a separator that removes free-floating oils and settleable solids from oil-water mixtures.

A properly sized coalescer is designed to produce effluent quality acceptable to most regulatory requirements for water runoff. Our oil-water separator is an excellent choice for managing water runoff from parking lots or equipment washdown stations.

This product is also available as a UL-listed (2215) and ULC-listed (S656) model.

FEATURES

- UL-listed (2215) & ULC-listed (S656) models available
- Single-wall & double-wall models
- Flexible design options
- Coalescer & gravity-flow models available
- Capacities up to 30,000 gal. (USA)
- Capacities up to 113,000 L (Canada)



ZCL | XERXES STORAGE TANK SOLUTIONS



TANK UPGRADE SYSTEM

In a growing number of situations, secondary containment needs to be added to single-wall tanks, and site challenges make removal of existing tanks either cost-prohibitive or difficult. In instances where tanks are covered or surrounded by buildings, roads or rail lines, adding secondary containment to a single-wall fiberglass or steel tank can be accomplished with our Phoenix System®.

This upgrade system consists of two corrosion-resistant laminates with the proprietary Parabeam® glass fabric between the laminates creating an interstitial space. The interstice can be either dry or hydrostatically monitored. The Phoenix System®, applied onsite by trained installers, is compatible with biofuels, including ethanol-blended fuels and biodiesels.

FEATURES

- ULC/ORD-listed (C58)
- Corrosion-resistant fiberglass system
- Viable alternative in difficult tank replacement situations
- Suitable for both fiberglass & steel tanks



ZCL | XERXES FUEL TANK ACCESSORIES

Your Complete Solution

Today's retail and commercial fueling facilities are sophisticated systems that are installed in a highly regulated environment. While the storage tank is the critical component in an underground fuel system, other important accessories are necessary to provide spill containment, tank anchoring, secondary pipe-drain collection, leak detection and other important functions. ZCL | Xerxes engineers have designed innovative, complementary products that provide system designers and installers with cost-effective, easy-to-install accessories. Very few tank manufacturers provide the wide range of accessories that we can supply. This is yet another example of how our innovative spirit benefits customers.

Installation & Technical Support

ZCL | Xerxes provides a comprehensive Installation Manual and Operating Guidelines (IMOG) document that outlines the proper – yet easy – steps necessary for a successful installation.

LEARN MORE ONLINE

Search our online database (zcl.com) for hundreds of resources for our fuel tanks and accessories, including:

- a pdf version of the Installation Manual
- a video of our Installation Manual
- technical drawings (available in CAD, DWG & BIM)
- guide specifications
- typical installation drawings

CONTAINMENT SUMPS AND COLLARS

Sumps and collars are common accessories found on virtually all double-wall tanks installed today. ZCL | Xerxes offers factory-installed containment collars that provide secondary containment around tank fittings and manways.

Designed to be a custom-match to the collar, our containment sump comes in a variety of models and sizes, all engineered to accommodate different customer preferences and needs. Our sumps and collars are also available in double-wall models, which are growing in popularity given changes to tank regulations.

FEATURES

- Flat-sided & round models for various piping layouts
- Watertight or friction-fit cover & open top options
- Diameters of 42 & 48 inches
- Heights of 36-72 inches
- Field-adjustable heights
- Custom options



ANCHORING SYSTEM

Site-specific installation conditions generally dictate whether a tank-anchoring system is necessary. Some customers choose to anchor all their tanks.

ZCL | Xerxes offers a complete tank-anchoring system, including reinforced precast concrete deadmen (designed to American Concrete Institute standards), fiberglass anchoring straps and galvanized turnbuckles.

Each component is engineered to specific tank sizes and for ease of installation. In most cases, concrete deadmen can be delivered on the same trailer as the tank, which minimizes the shipping cost and assures that deadmen are ready when the tank is set.

FEATURES

- Deadmen sizes for tank diameters 6-12 feet
- Corrosion-resistant anchor straps
- Optional man-out-of-hole straps available
- Galvanized turnbuckles

TRUCHEK® CONTINUOUS MONITORING

TRUCHEK® is the ideal solution to the growing regulatory interest in leak-detection methods that provide true continuous leak detection. Unlike dry interstitial monitoring methods, TRUCHEK® is able to monitor both walls of a tank 24/7 in all installation conditions.

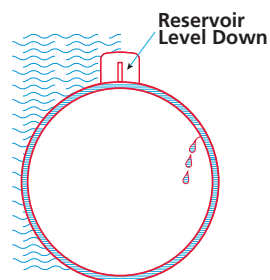
When you order our double-wall tank with the TRUCHEK® option, the interstice is filled at the factory with a calcium-chloride fluid that also partially fills a reservoir, creating an interstitial hydrostatic pressure. An electronic probe placed in the tank's reservoir alarms when the fluid level falls below or rises above the acceptable level.

FEATURES

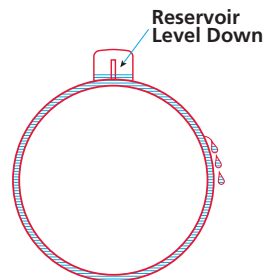
- 24/7 continuous tank monitoring regardless of installation conditions
- UL-verified as meeting the EPA criteria for tank-tightness testing
- Designed for dry-hole & wet-hole installations

How TRUCHEK® Works

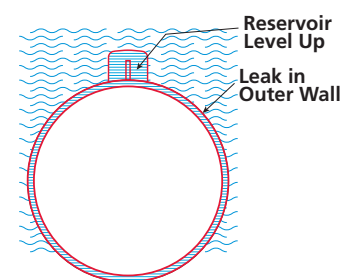
Primary-Tank Leak in Wet Hole or Dry Hole



Secondary-Tank Leak in Dry Hole



Secondary-Tank Leak in Wet Hole



TANK-TIGHTNESS TESTING

Besides providing true continuous monitoring of both tank walls – regardless of site conditions – TRUCHEK® also provides a simple and precise method to perform tank-tightness tests. A 10-hour tightness-test procedure meets the strict NFPA329 criteria. A 4-hour test (while product is dispensing) exceeds EPA's criteria for a tank-tightness test.

Underground Double-Wall Tank Data

	Nominal Capacity (gallons)	Tank Length (feet/inches)	Nominal Shipping Weights (lbs) (dry interstitial)	Nominal Shipping Weights (lbs) (wet interstitial)	Number of Anchor Straps Required	Nominal Capacity (liters)	Tank Length (mm)	Nominal Shipping Weights(Kg) (dry interstitial)	Nominal Shipping Weights (Kg) (wet interstitial)	Number of Anchor Straps Required
4'	600	7'-3 1/2"	900	1,100	2	2,500	2,303	400	500	2
	1,000	11'-7 1/2"	1,100	1,300	2	3,900	3,395	500	600	2
	2,000	22'-3 5/8"	2,800	3,400	2	5,000	4,380	600	700	2
6'	2,500	13'-5 3/4"	2,200	2,800	2	10,000	4,520	900	1,100	2
	3,000	16'-4 1/4"	2,600	3,300	2	15,000	6,604	1,300	1,600	4
	4,000	20'-8"	3,600	4,400	2	20,000	8,465	1,700	2,000	4
	5,000	26'-5"	4,300	5,200	4	25,000	10,420	2,200	2,500	4
	6,000	30'-8 3/4"	5,000	6,100	4					
8'	4,000	15'- 1/2"	2,700	3,600	2	15,000	3,994	900	1,100	2
	5,000	17'-8 1/2"	3,200	4,200	2	20,000	5,137	1,200	1,500	2
	6,000	20'-6 1/2"	3,700	4,900	2	25,000	6,090	1,400	1,700	2
	8,000	26'- 1/2"	4,800	6,200	4	30,000	7,264	1,700	2,100	4
	10,000	31'-6 1/2"	5,900	7,500	4	35,000	8,185	2,000	2,300	4
	12,000	37'- 1/2"	7,000	8,800	4	40,000	9,392	2,300	2,700	4
	15,000	46'- 9"	9,100	11,200	6	45,000	10,363	2,500	3,000	4
						50,000	11,328	2,700	3,200	4
10'	10,000	21'-5 1/4"	4,900	6,400	4	50,000	7,449	2,900	3,300	4
	12,000	24'- 1/4"	5,600	7,200	4	55,000	8,280	3,200	3,600	4
	15,000	29'-5 3/4"	7,000	8,900	4	60,000	8,827	3,300	3,800	5
	20,000	37'-8 3/4"	9,000	11,300	6	65,000	9,576	3,600	4,200	5
	25,000	47'-6 3/4"	11,800	14,600	8	70,000	10,395	3,900	4,500	6
	30,000	55'-9 3/4"	14,000	17,200	10	75,000	10,903	4,100	4,700	6
	35,000	64'- 3/4"	16,500	20,100	12	80,000	11,582	4,400	4,900	6
	40,000	73'-8 1/4"	19,000	23,100	14	85,000	12,268	4,700	5,300	7
						90,000	13,068	5,000	5,600	7
						100,000	14,345	5,400	6,100	8
12'	20,000	29'- 4"	14,000	16,700	6	110,000	15,723	5,900	6,700	9
	25,000	35'- 7"	16,600	19,700	8					
	30,000	43'- 1"	19,900	23,500	10					
	35,000	49'- 4"	22,500	26,500	12					
	40,000	54'- 4"	24,600	28,900	12					
	45,000	60'- 7"	27,400	32,100	16					
	48,000	65'- 7"	29,500	34,500	18					
	50,000	68'- 1"	30,500	35,700	18					

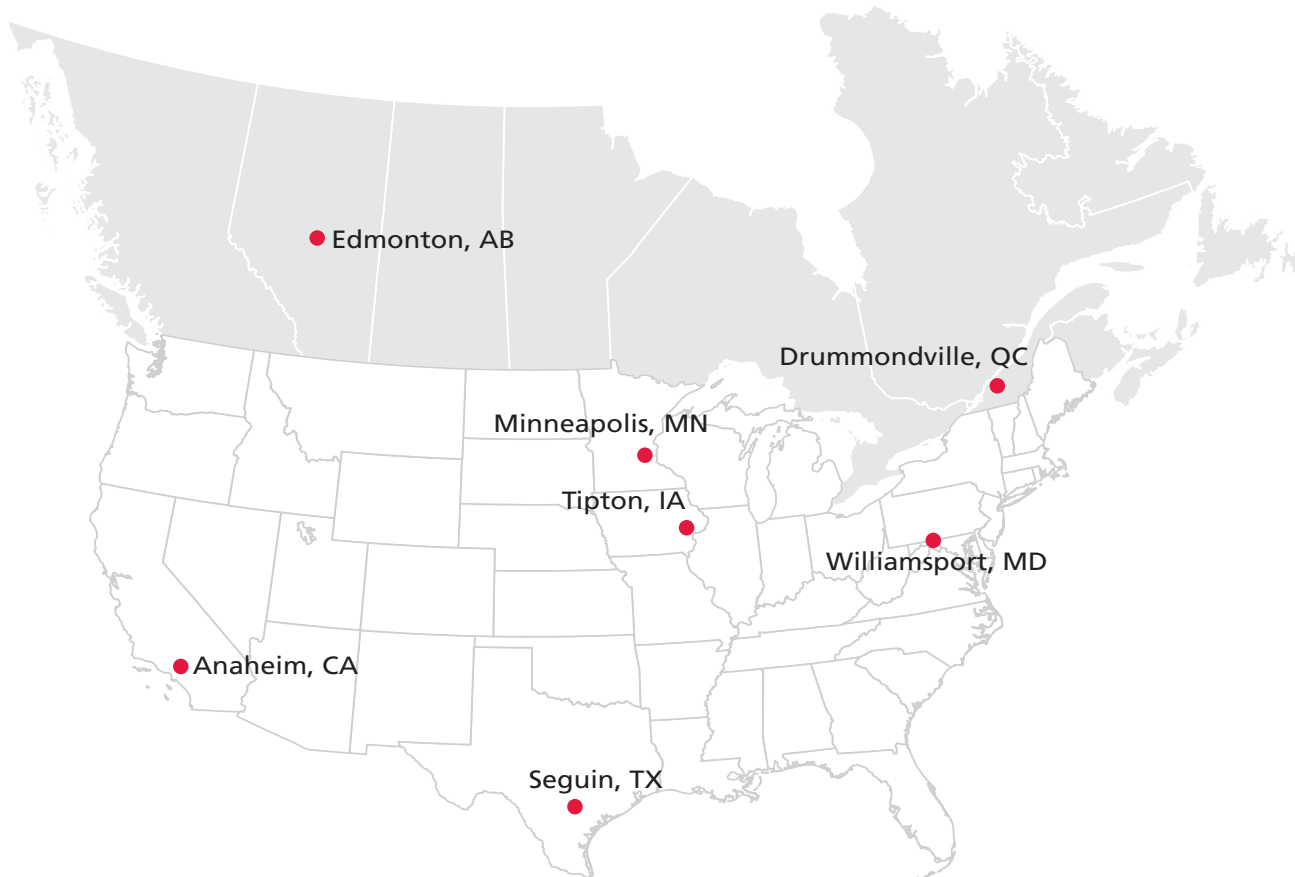
Notes:

1. Tank data for multicompartment tank models is available at www.zcl.com.
2. Actual height of the tank may be greater than the actual diameter due to fittings and accessories. Load height during shipping may vary due to tank placement on the shipping trailer.
3. If an overflow-protection device is installed in the tank, the actual capacity will be reduced.

Multiple Facilities

Customers Can Rely on Timely Manufacturing and Delivery of Tanks and Accessories.

With six manufacturing facilities – four in the United States and two in Canada – no matter where customers need fiberglass tanks and accessories shipped, a ZCL | Xerxes manufacturing facility is not far away. No other tank producer offers this kind of manufacturing capability in North America. All our facilities are either UL-listed or ULC-listed.



Contact Us

We're ready to design a double-wall tank, multi-compartment tank, triple-wall tank, diesel exhaust fluid tank or oil-water separator for your next project.

On the Web:
www.zcl.com

Technical Support:
1.800.661.8265
USA: 952.887.1890
Email: eng.support@zcl.com

Corporate Head Office

ZCL Composites Inc.
1420 Parsons Road SW
Edmonton, AB T6X 1M5

US Office

Xerxes Corporation
7901 Xerxes Avenue S
Minneapolis, MN 55431

Manufacturing Facilities:

Canada
Edmonton, AB
Drummondville, QC

USA
Anaheim, CA
Seguin, TX
Tipton, IA
Williamsport, MD

QuikTrip Corporation – Store No. 4166
UST Facility Plan Application

Attachment C: Alternative Design and Protection Method Tanks

Not applicable - This UST Plan Application is not requesting a variance to 30 TAC 334.43

Attachment D: Manufacturer Information for Piping

Dualoy™ 3000/L Fiberglass Pipe

(Product Data)



Applications

- Service Station
- Vent/Vapor Recovery
- Bulk Plant Terminals
- Fueling Terminals
- Central Fuel Oil Systems
- Marinas Terminals
- Ethanol Fuel Blends
- Diesel Exhaust Fluid
- UL/ULC Systems that require MV, HB, CT, A&M Fuels

Materials and Construction

Filament-wound fiberglass reinforced epoxy pipe with integral epoxy liner and exterior coating. When classified in accordance with ASTM D2310 and ASTM D2996, the pipe meets the following cell limits: RTRP 11CXF1-5420. The operating pressure of the pipe is up to 200 psig (13.8 bar) with continuous operating temperature to 150°F (66°C).

Dualoy 3000/L is Listed with Underwriters Laboratories Standard 971-2004 for nonmetallic underground piping for motor vehicle (MV), high blend (HB), concentrated (CT) and aviation and marine (A&M) fuels (File MH9162). Dualoy 3000/L pipe and fittings are

also Listed with Underwriters Laboratories of Canada (File CMH 715). In Great Britain the Dualoy 3000/L system has been tested and accepted by the London Fire and Civil Defence Authority. Dualoy 3000/L has been issued a Certificate of Compliance to the Institute of Petroleum (IP) Specification by ERA Technology, Ltd.

Performance

Individual system components may not have the same ratings as the pipe. Refer to the detailed product information for the specific components to determine the pressure rating for the system as a whole.

Fittings

Compression-molded and filament-wound fiberglass reinforced epoxy.

For dimensions of fittings, consult publication Dualoy 3000/L Fittings Dimensions.

Pressure ratings of fittings without UL listing are available on request

Joining System

- **Bell & Spigot** - The primary joining method for fitting joints.

Nominal Dimensional Data

Pipe Size		Inside Diameter		Outside Diameter ⁽¹⁾		Wall Thickness				Capacity		Weight		Max. Deflection per 20 ft Joint	Min. Length Req. for 10° Change		Stiffness Factor ⁽²⁾	
						Total		Structural										
in	mm	in	mm	in	mm	in	mm	in	mm	gal/ft	l/m	lb/ft	kg/m	deg	ft	m	lb•in ³ /in ²	N•m
2	50	2.21	56	2.37	60	0.080	2.03	0.060	1.5	0.20	2.50	0.47	0.70	15	13	4	45	5.1
3	80	3.32	84	3.50	89	0.085	2.16	0.065	1.6	0.45	5.60	0.72	1.07	9	22	7	75	8.5
4	100	4.33	110	4.50	114	0.087	2.21	0.070	1.8	0.77	2.92	1.00	1.49	7.5	27	8	60	6.8
6	150	6.39	162	6.63	168	0.120	3.10	0.100	2.5	1.67	6.35	2.10	3.13	5	40	12	275	31.1

⁽¹⁾ Typical outside diameters of 2 through 6-inch pipe are within API, ASTM and ANSI fiberglass and steel pipe dimensions.

⁽²⁾ At 5% deflection.

View of Joint Illustrations (Joint illustration only depicts type of connection available, not type of pipe featured in data sheet)



Bell & Spigot

Typical Pipe Performance

Nominal Pipe Size		Pressure Rating ⁽¹⁾		Ultimate Internal Pressure ⁽¹⁾		Ultimate Collapse Pressure ⁽²⁾	
in	mm	psig	MPa	psig	MPa	psig	MPa
2	50	200	2.07	3200	22.1	153	1.05
3	80	200	1.38	2400	16.5	90	0.62
4	100	175	1.21	2000	13.8	39	0.27
6	150	175	1.21	2000	13.8	38	0.26

⁽¹⁾ At 80°F (27°C).

⁽²⁾ At 80°F (27°C). For continuous service do not exceed 75% of these values.

Typical Mechanical Properties

Pipe Property ⁽¹⁾	Method		
Tensile Strength			
Longitudinal	35,000 psi	241.3 MPa	ASTM D2105
Circumferential	70,000 psi	482.7 MPa	ASTM D1599
Poisson's Ratio $v_{ha}^{(2)} - v_{ha}^{(3)}$	0.16 - 0.26		FGSTM
Tensile Modulus			
Longitudinal	25,000 psi	172.4 Mpa	ASTM D2105
Circumferential	38,000 psi	262.0 MPa	FGSTM
Compressive Strength			
Longitudinal	24,500 psi	168.9 MPa	FGSTM
Compressive Modulus			
Longitudinal	26,000 psi	179.3 MPa	FGSTM
Cyclic	8,000 psi	55.2 MPa	ASTM D2992 Procedure A

Typical Physical Properties

Pipe Property	Value	Value	Method
Thermal Conductivity	1.7 BTU-in/hr·ft ² ·°F	7.6 W/m·°C	ASTM C177
Thermal Expansion	8.5 x 10 ⁻⁶ in/in·°F	15.3 x 10 ⁻⁶ cm/cm·°C	ASTM D696
Friction Factor	Hazen-Williams 150.0		-
Absolute Roughness	0.00021 in	0.00053 mm	
Specific Gravity	1.8		ASTM D792
Barcol Hardness	65.0 (Impressor 934-1)		ASTM D2583

⁽¹⁾ Based on structural wall thickness.

⁽²⁾ v_{ha} = The ratio of axial strain to hoop strain resulting from stress in the hoop direction.

⁽³⁾ v_{ah} = The ratio of hoop strain to axial strain resulting from stress in the axial direction.

Pipe Length

Size		Standard		Random	
in	mm	ft	m	ft	m
2-6	50-150	20	6.1	17-21	5.2 - 6.4

Minimum Bending Radius

Size		Minimum Bending Radius ⁽¹⁾	
in	mm	ft	m
2	50	75	23
3	80	100	38
4	100	150	46
6	150	200	61

⁽¹⁾ At rated pressure. Sharper bends may create excessive stress concentrations. Do not bend pipe until adhesive has cured.

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Fiber Glass Systems

17115 San Pedro Avenue, Ste 200
 San Antonio, Texas 78232 USA
 Phone: 210 477 7500
 Fax: 210 477 7560

Dualoy® 3000/L Secondary Containment Pipe and Fittings

Uses and Applications

- Service station product, vent and vapor recovery piping
- Bulk plant terminals and fueling terminals
- Central fuel oil systems
- Marinas and marine terminals (onshore only)
- All piping systems requiring UL or ULC Listing for MV, HB, CT and A&M fuels
- Containment piping for all of the above

Description

Dualoy 3000/L secondary containment systems require pipe one size larger than the primary and specially designed fittings. The system provides complete enclosure of UL- and ULC-Listed Dualoy primary piping used in product lines and vapor recovery lines from the sump at the product storage tank to the shear valve connector at the dispenser, and vent lines from the tank. Dualoy containment systems have been sized for close make-up and ease of installation.

Features of Dualoy 3000/L containment systems include:

- Filament-wound, fiberglass-reinforced pipe with integral liner;
- Compact fittings dimensions to minimize trench excavation;
- Smooth exterior pipe surface that eliminates the need for special end preparation tools;
- Ready accessibility to and complete inspectability of primary fittings prior to closure of the containment;
- Complete testability during installation and at any time thereafter;
- Rapid joint makeup with pre-inserted nuts and ambient cure adhesive.

Listings

Dualoy 3000/L is Listed in the United States with Underwriters Laboratories Standard 971-2004 for nonmetallic underground piping for motor vehicle (MV), high blend (HB), concentrated (CT) and aviation and marine (A&M) fuels for both primary and contained piping systems (File MH9162). Dualoy 3000/L pipe and fittings are also Listed with Underwriters' Laboratories of Canada (File CMH715). In Great Britain the Dualoy/3000L system has been tested and accepted by the London Fire and Civil Defense Authority. Dualoy 3000/L has been issued a Certificate of Compliance to the Institute of Petroleum (IP) Specification by ERA Technology, Ltd.

Performance

Operating pressures to 100 psig

Continuous operating temperatures to 150°F (66°C)

Individual system components may not have the same ratings as the pipe. Refer to the detailed product information for the specific components to determine the pressure rating for the system as a whole.

Secondary employs full-performance pipe — Many contained fuel handling systems employ materials in the secondary that fall far short of the primary piping in regard to chemical resistance and mechanical strength. By contrast, Dualoy 3000/L systems are manufactured with the same high-performance fiberglass-reinforced pipe in the secondary as in the primary. Thus, Dualoy 3000/L containment systems easily withstand both high external loads from backfill and traffic as well as internal pressures as high as 100 psig.

Compact containment fittings — Dualoy 3000/L containment fittings are compact clamshell-type closure pieces. Crossovers can be made with the same centerline-to-centerline dimension as single-wall system.

Piping System Characteristics

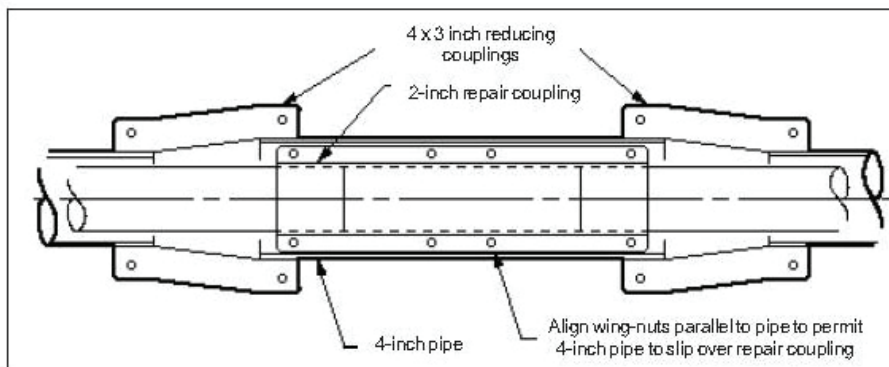
Precision pipe exterior eliminates scarfing — Dualoy pipe is manufactured in a proprietary continuous winding process that provides an extremely precise, consistent outside diameter. Light sanding of the pipe end to remove the surface gloss and obtain a suitable bonding surface is the only end prep required, although the scarfing feature of tapering tools can be used.

Easy containment fitting assembly — Dualoy 3000/L containment fitting clamshells are supplied in matched pairs. One half of each pair is fitted with pre-inserted propeller nuts, allowing the fitting to be assembled from one side, using the bolts provided.

Complete retestability — Dualoy 3000/L containment employs rigid-wall pipe and fittings that maintain their slope during the entire service life of the station. When installed with isolating penetration fittings (see page 3), Dualoy 3000/L containment piping can be repeatedly retested whenever desired.

Convenient repair capability — Contained piping systems are occasionally damaged after installation. Damage is generally caused by paving or excavation operations. Dualoy3000/L contained piping systems are designed so that only the damaged section need be replaced instead of the entire line. The 2-inch Dualoy repair coupling is sized so that it can be contained within 4-inch Dualoy 3000/L containment pipe.

Two-inch primary pipe contained within 3-inch containment pipe can be repaired with a UL-listed 2-inch repair coupling. The containment is restored by replacement of a section of the existing containment pipe with a 4-inch containment nipple. The 4-inch replacement nipple is then joined to the existing containment pipe with Dualoy reducing couplings.

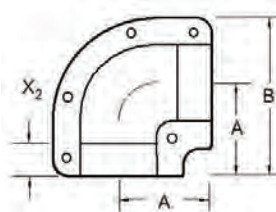


Containment Pipe and Fittings Dimensions

Pipe

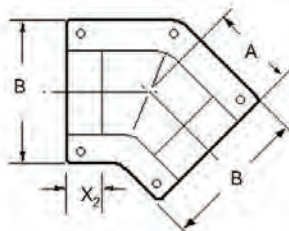
Nominal Pipe Size		A	B	C	X ₂	No. of Bolt Holes	Wt. lb
in	mm	in	in	in	in		
3	80	3.50	3.32	—	—	—	0.72
4	100	4.50	4.33	—	—	—	1.00
6	150	6.63	6.39	—	—	—	2.10

90° Elbows



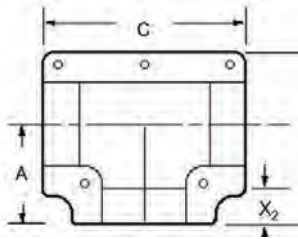
3	80	4.28	7.28	—	1.50	5	1.1
4	100	4.77	8.25	—	1.50	5	1.3
6	150	5.62	10.53	—	2.00	8	1.5

45° Elbows



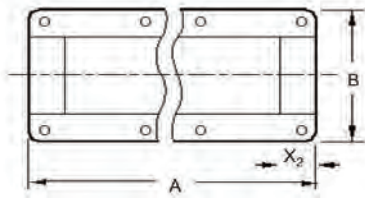
3	80	3.50	6.00	—	1.50	5	0.8
4	100	3.75	7.00	—	1.50	5	1.2
6	150	6.32	9.75	—	2.00	8	1.5

Tees



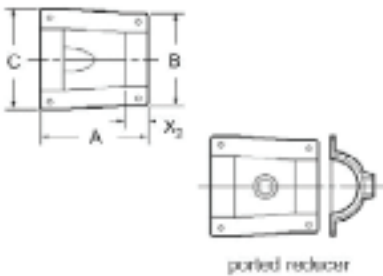
Nominal Pipe Size		A	B	C	X ₂	No. of Bolt Holes	Wt.
in	mm	in	in	in	in		lb
3	80	4.28	7.24	8.56	1.50	5	1.2
4	100	4.78	8.25	9.58	1.50	5	1.6
6	150	5.72	10.67	11.65	2.00	6	1.7

Couplings



2	50	14.00	4.00	—	1.50	8	1.3
3	80	14.00	6.00	—	1.50	8	1.7
4	100	14.00	7.00	—	1.50	8	2.0
6	150	5.37	9.75	—	4.00	10	2.0

Reducers, Plain and with 3/4 inch NPT Outlet

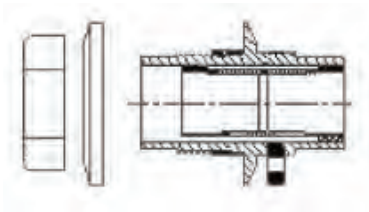


3 x 1½	80 x 40	6.25	4.48	6.10	1.50	4	0.6
3 x 1½	80 x 40	6.25	4.47	6.10	1.50	4	1.1 ⁽¹⁾
3 x 2	80 x 50	6.25	4.90	6.10	1.00	4	0.7
3 x 2	80 x 50	6.25	4.90	6.10	1.00	4	1.1 ⁽¹⁾
4 x 3	100 x 80	7.00	6.00	7.00	1.50	4	0.9
4 x 3	100 x 80	7.00	6.00	7.00	1.50	4	2.0 ⁽¹⁾
6 x 4	150 x 100	7.17	7.62	9.74	2.00	6	1.0

(1) Ported reducer

Sump Penetration Fittings

Sump penetrations are designed for use at turbine sumps and dispenser pans. Plain sump penetration fittings permit the annular space between the primary and secondary lines to communicate with the interior of the sump or pan. Penetration fittings with factory-installed centralizers, sleeve couplings and monitoring ports may be used to isolate the pipe annular space from the sump or pan. When the annular space is so isolated, the secondary containment line can be retested at any time and as often as desired.



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North America

17115 San Pedro Ave. Suite 200
San Antonio, Texas 78232 USA
Phone: 210 477 7500

South America

Avenida Fernando Simoes
Recife, Brazil 51020-390
Phone: 55 31 3326 69020

Europe

P.O. Box 6, 4190 CA
Geldermalsen, The Netherlands
Phone: 31 346 587 587

Asia Pacific

No. 7A, Tuas Avenue 3
Jurong, Singapore 639407
Phone: 65 6861 6118

Middle East

P.O. Box 17324
Dubai, UAE
Phone: 971 4881 3566

www.fgspipe.com • fgspipe@nov.com

NOV Fiber Glass Systems

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FH3510 March 2013

Attachment E: Alternative Design and Protection Method for Piping

Not Applicable

Attachment F: Tertiary Containment Method

Not Applicable

Attachment G: Exception to the Geologic Assessment

Not Applicable

**Attachment H: Profile Drawings of UST System
Updated UST System Plan Set for Modification**

GASOLINE SYSTEM, TANK & DISPENSER PIPING GENERAL NOTES

GENERAL NOTE:

A. IT IS REQUIRED THAT ONLY "CERTIFIED INSTALLERS" BE USED FOR INSTALLATION OF THE PIPING SYSTEM TO INSURE THAT PROPER PIPE FABRICATION, COUPLING AND INSTALLATION PERFORMED. "CERTIFIED INSTALLERS" ARE EQUIPPED WITH FACTORY MANUFACTURED COUPLING EQUIPMENT AND INSTALLATION TOOLS AND HAVE RECEIVED FACTORY TRAINING BY AMERON REPRESENTATIVE ON THE PROPER INSTALLATION AND TESTING PROCEDURES.

THIS ENVIRONMENTALLY SAFE, FRP UNDERGROUND PIPING SYSTEM PROVIDES PIPING RUNS BETWEEN USTS AND THE PRODUCT DISPENSERS.

B. ALL PRODUCT PIPING IS TO BE PRIMARY FUEL OIL SPECIFIED DIAMETER IN SECONDARY PIPING OF SPECIFIED DIAMETER. PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

C. WHERE FLEX CONNECTORS ARE COMPLETELY CONTAINED (NOT IN CONTACT WITH GROUND WATER, NATIVE SOIL OR BACKFILL MATERIAL), STAINLESS STEEL CONNECTORS ARE ACCEPTABLE. WHERE FLEX CONNECTORS ARE NOT COMPLETELY CONTAINED ISOLATION BOOTS OR PRIME AND WARP SHALL BE USED TO SEPARATE CONNECTOR FROM COMING INTO CONTACT WITH GROUND WATER, NATIVE SOIL OR BACKFILL MATERIAL. ALL FLEX CONNECTORS SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE.

D. THE GENERAL CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF PIPING SYSTEM. THE GENERAL CONTRACTOR SHALL INSURE THAT GOOD WORKMANSHIP AND CONSTRUCTION PROCEDURES ARE FOLLOWED THROUGHOUT THE INSTALLATION, REGARDLESS OF INCLUSION OR OMISSION OF ANY APPLICABLE SUGGESTION IN THESE INSTRUCTIONS OR ON THE DRAWINGS.

E. UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. MANUFACTURER'S SPECIALISTS ARE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE OWNER'S OR MANUFACTURER'S REPRESENTATIVE AT AN INSTALLATION SITE DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR A PROPER INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SAFEGUARDING OF THE INSTALLATION AND MATERIALS AND EQUIPMENT STORED ON THE SITE TO PREVENT THEFT, VANDALISM OR DAMAGE.

RESPONSIBILITY NOTE:

FUEL CONTRACTOR RESPONSIBLE FOR DISPENSER AND SYSTEM START-UP AND CALIBRATION.

CONCRETE NOTE:

ALL CONCRETE SHALL BE 4" THICK, 4000PSI @ 28 DAY READY MIX WITH MAXIMUM 4" SLUMP. FINISH SHALL BE HOOD FLOAT WITH MEDIUM BROOM FINISH.

A MEDIUM BROOM FINISH IS REQUIRED ON THE CONCRETE PAVING LOCATED BETWEEN THE GASOLINE ISLANDS AND THE SIDEWALK IN FRONT OF THE QUIKTRIP BUILDING. CONTRACTOR TO PROVIDE TEST AREA FOR QUIKTRIP REPRESENTATIVE APPROVAL.

SETTLEMENT NOTE:

CAUTION TANK SETTLEMENT, TANK DISTORTION, OR MOVEMENT IN CONCRETE COVER SLAB CANNOT BE TOLERATED AND IF SPECIFIED MATERIALS ARE USED AND SPECIFIED PROCEDURES ARE FOLLOWED, NO INSTALLATION FAILURE SHOULD OCCUR. THEREFORE, IF ANY MOVEMENT, SETTLEMENT OR DISTORTION OCCURS, IT WILL BE PRESUMED THE CONTRACTOR HAS NOT FOLLOWED THE SPECIFIED INSTRUCTIONS AND PROCEDURES AND THE CONTRACTOR SHALL IMMEDIATELY UNDERTAKE, AT HIS SOLE EXPENSE, ANY NECESSARY CORRECTIVE MEASURES, AS MAY BE APPROVED BY THE QUIKTRIP FIELD REPRESENTATIVE, UP TO AND INCLUDING COMPLETE REMOVAL AND RESETTING OF ALL UNDERGROUND TANKAGE AT THE SITE. IF IT IS DETERMINED THAT MOVEMENT, SETTLEMENT OR DISTORTION HAS BEEN CAUSED BY FACTORS BEYOND THE CONTRACTOR'S CONTROL, THE COST OF REMEDIAL MEASURES WILL BE BORNE BY OTHERS. THROUGH ACCEPTANCE OF THE GAS CONTRACT, THE GAS INSTALLATION CONTRACTOR DOES HEREBY AGREE TO GUARANTEE THE UNDERGROUND TANKAGE INSTALLATION AGAINST FAILURE AS OUTLINED HEREIN ABOVE, FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

TANK BACKFILL REQUIREMENTS

POLICY 2.22.0 - TANK (FIBERGLASS UST) BACKFILL MATERIAL REQUIREMENTS AND COMPLIANCE TO STANDARDS

POLICY

IN ORDER TO ASSURE COMPLIANCE TO UST MANUFACTURER'S REQUIREMENTS FOR UST BACKFILL MATERIALS, PROCEDURES WILL BE FOLLOWED TO MONITOR APPROVAL BY MANUFACTURER, VERIFICATION THAT APPROVED MATERIAL HAS BEEN DELIVERED TO THE SITE, AND DOCUMENTATION ON THE CONSISTENCY OF MATERIAL PLACED IN THE UST EXCAVATION.

PROCEDURE SPECIFICATIONS FOR ACCEPTABLE MATERIALS TO BE USED AS STRUCTURAL SUPPORT FOR FIBERGLASS USTS:

ROUNDED GRAVEL

WHEN USING ROUNDED GRAVEL, THE MATERIAL IS TO BE A MIX OF ROUNDED PARTICLES, SIZES BETWEEN 1/8" AND 3/4". THE ROUNDED GRAVEL MUST CONFORM TO THE SPECIFICATIONS OF ASTM C-33, PARAGRAPH 9.1, SIZES 6, 67, OR 7. NO MORE THAN 10% (BY WEIGHT) OF THE BACKFILL MAY PASS THROUGH A #8 SIEVE. THE MATERIAL IS TO BE WASHED, FREE-FLOWING, AND FREE OF ICE, SNOW AND DEBRIS.

CRUSHED STONE

WHEN USING CRUSHED STONE, THE MATERIAL IS TO BE A MIX OF ANGULAR PARTICLES, SIZES BETWEEN 1/8" AND 1/2". THE CRUSHED STONE MUST CONFORM TO THE SPECIFICATIONS OF ASTM C-33, PARAGRAPH 9.1, SIZES 7 OR 8. NO MORE THAN 10% (BY WEIGHT) OF THE BACKFILL MAY PASS THROUGH A #8 SIEVE. THE MATERIAL IS TO BE WASHED, FREE-FLOWING, AND FREE OF ICE, SNOW AND DEBRIS.

APPROVAL PROCESS

ROUNDED GRAVEL

A SAMPLE CONSISTING OF THREE (3) SEPARATE RANDOM INTERIOR STOCKPILE SAMPLES SHALL BE TAKEN AT THE QUARRY BY THE MATERIALS TESTING COMPANY. CLEAN ONE GALLON SIZED BUCKETS (APPROXIMATE) CAN BE USED FOR SAMPLING.

THE MATERIALS TESTING COMPANY SHALL COMPLETE A SIEVE ANALYSIS ON THIS MATERIAL AS IT HAS BEEN COMBINED. IF THIS MATERIAL MEETS THE ASTM C-33 SPECIFICATIONS, THE ANALYSIS SHALL BE SUBMITTED TO THE TANK MANUFACTURER FOR APPROVAL. THE TANK MANUFACTURER WILL ISSUE AN APPROVAL ON THAT SAMPLE AS REFERENCED TO A SPECIFIC QUARRY. THIS PROCESS SHOULD TAKE ABOUT TWO DAYS.

WITH ROUNDED GRAVEL ONLY, IT WILL NOT BE NECESSARY TO OBTAIN A NEW SAMPLE ON EACH INSTALLATION AS LONG AS THE QUARRY REMAINS THE SAME. AN APPROVAL FROM THE TANK MANUFACTURER WILL ONLY BE NEEDED ONCE TO DOCUMENT THE APPROVAL OF THE ROCK. IT WILL NOT BE NECESSARY TO ASK FOR APPROVAL ON ADDITIONAL INSTALLATIONS, UNLESS THE QUARRY LOCATION CHANGES.

IT WILL BE THE TANK INSTALLATION CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ANY MATERIAL THAT HAS BEEN APPROVED BY THE TANK MANUFACTURER ALWAYS COMES FROM THE SAME QUARRY, AND REMAINS CONSISTENT.

POLICY 2.22.0 - CONTINUED

CRUSHED STONE

A SAMPLE CONSISTING OF THREE (3) SEPARATE RANDOM INTERIOR STOCKPILE SAMPLES SHALL BE TAKEN AT THE QUARRY BY THE MATERIALS TESTING COMPANY. CLEAN ONE GALLON (APPROXIMATE) SIZED BUCKETS CAN BE USED FOR SAMPLING.

THE MATERIALS TESTING COMPANY SHALL COMPLETE A SIEVE ANALYSIS ON THIS MATERIAL AS IT HAS BEEN COMBINED. IF THIS MATERIAL MEETS THE ASTM C-33 SPECIFICATIONS WITH NO VARIATION, IT WILL NOT BE NECESSARY TO SUBMIT A SIEVE ANALYSIS FOR APPROVAL BY THE TANK MANUFACTURER. IT IS NOT UNCOMMON TO RECEIVE AN ANALYSIS THAT INDICATES MATERIAL SIZES OUTSIDE OF THE ASTM-33 STANDARD. THESE VARIABLE REPORTS WILL NEED TO BE SUBMITTED TO THE TANK MANUFACTURER FOR APPROVAL. THIS PROCESS SHOULD TAKE ABOUT TWO DAYS.

A NEW SAMPLE AND SIEVE ANALYSIS WILL BE REQUIRED FOR EVERY LOCATION AS WELL AS AN APPROVAL FROM THE TANK MANUFACTURER.

- * QUIKTRIP WILL REQUIRE AN ON-SITE INSPECTION AND DOCUMENTATION BY THE TESTING COMPANY AS TO THE CONSISTENCY OF THE MATERIAL DELIVERED TO THE SITE AND ITS SIMILARITY TO THE MATERIAL APPROVED BY THE TANK MANUFACTURER. QUIKTRIP WILL ALSO REQUIRE TESTING COMPANY DOCUMENTATION TO VERIFY THAT THE MATERIAL PLACED IN THE TANK EXCAVATION REMAINS CONSISTENT THROUGHOUT THE BACKFILL PROCESS. DOCUMENTATION SHALL BE PROVIDED TO QUIKTRIP.
- * MATERIAL DISCOVERED ON SITE THAT DOES NOT MEET THE ASTM C-33 SPECIFICATION, FOR ANY REASON, WILL BE REMOVED AND REPLACED AT THE UST INSTALLER'S EXPENSE.
- * ANY LIMESTONE MATERIAL USED SHALL ONLY BE PROVIDED FROM A D.O.T. APPROVED QUARRY. DOCUMENTATION OF APPROVAL SHALL BE PROVIDED TO QUIKTRIP.

BEDDING AND BACKFILL

1. MATERIAL SHALL CONFORM TO THE SPECIFICATIONS OF ASTM C-33 GRADING REQUIREMENTS FOR COARSE AGGREGATES.
 - a. MATERIAL MUST BE FROM A TESTED AND APPROVED STATE DEPARTMENT OF TRANSPORTATION SUPPLIER OR SOURCE.
 - b. CONTRACTOR SHALL PROVIDE THE FOLLOWING TESTING RESULTS WHICH HAVE BEEN PERFORMED WITHIN THE PRIOR 12 MONTHS OR MORE FREQUENT AS REQUIRED BY THE STATE DEPARTMENT OF TRANSPORTATION OF JURISDICTION, FORM THE SUPPLIER OR SOURCE PRIOR TO FUEL TANK INSTALLATION:
 - i. SIEVE ANALYSIS
 - ii. DELETERIOUS SUBSTANCES
 - iii. SOUNDNESS
2. MATERIALS SHALL MEET GRADUATION REQUIREMENTS LISTED IN CURRENT MANUFACTURER'S INSTALLATION MANUAL.
3. ADHERENCE TO ALL INSTALLATION METHODS AND PRE-CAUTIONS AS INDICATED BY THE MANUFACTURER IS REQUIRED.
4. SUBMIT 5 SAMPLE TO QUIKTRIP'S TESTING AGENCY FOR SIEVE ANALYSIS PRIOR TO FUEL TANK INSTALLATION.

TANK AND DISPENSER NOTE:

- A. THE SPECIFIC SITE PLAN AND SPECIFICATIONS WILL GOVERN THE EXACT LOCATION, NUMBER, SIZE, AND TYPE OF EQUIPMENT TO BE INSTALLED AND INSTALLATION TO BE FOLLOWED.
- B. PLANS AND SPECIFICATIONS REPRESENT MINIMUM REQUIREMENTS. CONTRACTOR SHALL MAKE THE INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, FEDERAL, STATE, AND LOCAL ORDINANCES WHEN SUCH ORDINANCES EXCEED THESE MINIMUMS.
- C. CONTRACTOR SHALL SECURE, ARRANGE FOR AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND TESTS AND INCLUDE THE COST IN THEIR BID (UNLESS SPECIFIED DIFFERENTLY IN SCOPE OF WORK).
- D. THE SCOPE OF WORK OR SPECIFICATIONS WILL LIST MATERIAL AND EQUIPMENT TO BE FURNISHED BY QUIKTRIP. CONTRACTOR SHALL STORE, SAFEGUARD AND FURNISH ALL OTHER MATERIALS REQUIRED TO COMPLETE INSTALLATION.
- E. MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND OPERATIONAL TESTING OF DISPENSERS SHALL BE FOLLOWED TO AVOID POSSIBILITY OF DAMAGE TO EQUIPMENT.
- F. ALL INSTALLATIONS SHALL INCLUDE THE INSTALLATION OF STAGE I VAPOR RECOVERY.
- G. CONTRACTOR SHALL PLACE ALL UNDERGROUND PIPING WHERE AND AS SHOWN WITH A MINIMUM NUMBER OF BENDS AND CONTINUOUSLY PITCHED TO PROVIDE MAXIMUM SLOPE FROM RISER TO THE LOW POINT AT THE CONNECTION. MINIMUM SLOPE OF 1/8" PER FOOT. INSTALL ALL PRODUCT AND VENT LINES IN A COMMON TRENCH.
- H. ALL PRODUCT AND VENT LINES (UNDERGROUND) SHALL BE FIBERGLASS UNLESS OTHERWISE NOTED. ALL PRODUCT LINES SHALL BE 3" / 2" FIBERGLASS. THE MANUFACTURE TO BE DETERMINED BY QUIKTRIP REPRESENTATIVE.

1. CONTRACTOR SHALL IDENTIFY UNDERGROUND PIPING, AND VENT PIPING ONCE IT HAS BEEN BACKFILLED AND COVERED UP SO FINISH GRADING AND CONCRETE CONTRACTOR KNOW WHERE UNDERGROUND PIPING IS LOCATED.

PIPE TRENCH LINER NOTE:

PIPING TRENCH LINERS SHALL BE 6oz NON-WOVEN GEOTECH FABRIC - OVERLAP TOP COURSE. CONTACT LOCAL QUIKTRIP REPRESENTATIVE FOR LOCAL REQUIREMENTS.

CERAMIC TILE NOTE:

CERAMIC TILE SHALL BE "CONTINENTAL SLATE C653 ASIAN BLACK 6x6 WITH LATICRETE PERMACOLOR BLACK 22 GROUT". TILE MUST BE CENTERED ON THE ISLAND IN BOTH DIRECTIONS.

FINISH NOTE:

(ALL PRODUCTS ARE SHERWIN-WILLIAMS)

- A. EXPOSED STEEL: 1 COAT KEM KROMIK METAL PRIMER
ISLAND FORMS: DEHYDRANE 2740VA ALIPHATIC URETHANE GLOSS ENAMEL
VENT PIPE: GLOSS BLACK
VENT PIPE: AMARILLO WHITE (PHOENIX ONLY)
- B. EXPOSED STEEL: 1 COAT KEM KROMIK METAL PRIMER
GUARD POSTS (ALL DIVISIONS EXCEPT PHOENIX): 2 COATS INDUSTRIAL ENAMEL.

- C. EXPOSED METAL COMPONENTS IN SUMPS: 2 COATS OF OIL RESISTANT, SPRAY CAN ENAMEL, BLUE IN COLOR

CANOPY NOTE:

CANOPY IS A PREFAB STEEL STRUCTURE. CONTACT QUIKTRIP REPRESENTATIVE FOR NAME OF MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR STRUCTURAL DESIGN AND INSTALLATION INFORMATION. SEE ARCHITECTURAL SITE PLAN FOR LOCATION OF CANOPY AND GAS ISLANDS. THE GASOLINE CANOPY STRUCTURE IS FINISHED AND INSTALLED BY QUIKTRIP.

INSURANCE NOTE:

SEE LOCAL REPRESENTATIVE FOR REQUIREMENTS.

INSTALLATION NOTE:

CANOPY, TANKS AND BUILDING TO BE INSTALLED AT THE SAME TIME. THESE PLANS MUST BE USED IN COORDINATION WITH SEPARATE SITE, BUILDING AND CANOPY PLANS.

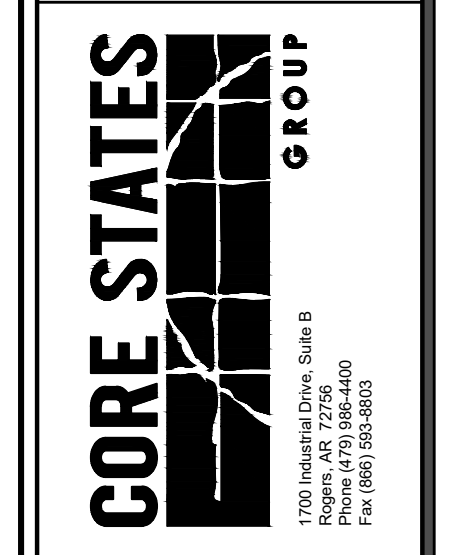
CONTRACTOR NOTE:

- A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
- B. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF THE GASOLINE USTS AND SHALL INSURE THAT GOOD WORKMANSHIP PRACTICES AND CONSTRUCTION PROCEDURES ARE FOLLOWED REGARDLESS OF THE INCLUSION OR OMISSION OF ANY INSTRUCTION.
- C. UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE AND THE MANUFACTURER'S INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. MANUFACTURER'S SPECIALISTS ARE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE MANUFACTURER OR OBSERVER AT AN INSTALLATION SITE DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE PROPER INSTALLATION OF THE TANKS.
- D. QUESTIONS REGARDING INSTALLATION PROCEDURES OR TANK REPAIRS SHOULD BE DIRECTED TO THE QUIKTRIP FIELD REPRESENTATIVE.
- E. GASOLINE UNDERGROUND TANKS MUST BE INSTALLED ACCORDING TO THESE INSTRUCTIONS, THE MANUFACTURER'S INSTRUCTIONS AND NFPA 30 AND 30A UL471. LOCAL CODES MAY APPLY AND MUST BE ADHERED TO. FAILURE TO FOLLOW THESE INSTALLATION INSTRUCTIONS WILL VOID THE WARRANTY AND WILL RESULT IN TANK FAILURE. PROPER INSTALLATION OF GASOLINE USTS HELP PREVENT TANK DAMAGE AND SHOULD INSURE LONG-TERM CORROSION-PROOF SERVICE. IT IS IMPERATIVE TO READ, UNDERSTAND AND FOLLOW THESE INSTRUCTIONS.
- F. THESE SPECIFICATIONS ARE SUPPLEMENTED BY THE RESPECTIVE TANK MANUFACTURER'S SPECIFICATIONS. THE INSTALLATION PROCEDURE SHALL COMPLY WITH BOTH SETS OF INSTRUCTIONS AND SPECIFICATIONS. IF, IN THE CONTRACTOR'S JUDGEMENT, THERE APPEARS TO BE A CONFLICT IN THESE SPECIFICATIONS AND THE TANK MANUFACTURER'S INSTRUCTIONS, CONTACT THE LOCAL QUIKTRIP REPRESENTATIVE FOR CLARIFICATION AND GUIDANCE.
- G. CONTRACTOR SHALL SECURE, ARRANGE FOR AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND TESTS AND INCLUDE THE COST IN HIS BID (UNLESS SPECIFIED DIFFERENTLY IN SCOPE OF WORK).
- H. CONTRACTOR SHALL INSPECT AND CONFIRM ALL PIPING TO BE CLEAR OF ALL BEDDING MATERIAL, TRASH, ANY TYPE OF LIQUID OR DEBRIS PRIOR TO AND AFTER INSTALLATION.
- I. TANK AND PRODUCT LINE TESTING AND REPORTING REQUIRED. COORDINATE REQUIREMENTS WITH QUIKTRIP REPRESENTATIVE.
- J. XERXES TRUCHECK TANK TIGHTNESS TESTING PROCEDURES SHALL BE FOLLOWED FOR ALL TANK BEING INSTALLED. TRUCHECK DATA LOG SHALL BE COMPLETED BY THE CONTRACTOR AND SUBMITTED TO THE QUIKTRIP REPRESENTATIVE AFTER TESTING IS COMPLETE. CONTRACTOR SHALL ALSO RETAIN A COPY AS PART OF THE TANK RECORDS THAT MAY BE REQUIRED BY FEDERAL, STATE AND/OR LOCAL REGULATIONS OR CODES.
- K. SUMP VENTILATION SYSTEM SHALL BE INSTALLED AND TESTED BY CONTRACTOR TO PROVIDE CONTINUOUS AIR MOVEMENT BETWEEN SUMPS. REFER TO SHEET XF410 AND DIRECTION FROM THE QUIKTRIP REPRESENTATIVE.
- L. CONTRACTOR SHALL PROVIDE TANK EXCAVATION HOLE PROTECTION AT ALL TIMES UNTIL PAVING IS IN PLACE PER OSHA STANDARD 1910. COVERS AND/OR GUARDRAILS SHALL BE PROVIDED TO PROTECT PERSONNEL FROM THE HAZARDS OF OPEN PITS, TANKS, VATS, DITCHES, ETC.
- M. ALL TANK, TRANSITION, AND DISPENSER SUMPS SHALL BE COVERED DURING CONSTRUCTION TO PREVENT DEBRIS AND WATER FROM ACCUMULATING. ANY ACCUMULATION SHALL BE REMOVED AND SUMPS KEEP CLEAN.
- N. CONTRACTOR TO CONTACT QUIKTRIP REPRESENTATIVE AND QUIKTRIP ENVIRONMENTAL FOR TANK TESTING REQUIREMENTS.
- O. ALL UNDERGROUND STORAGE TANKS SHALL BE BALLASTED WITH CLEAN WATER AT TIME OF TANK INSTALLATION PER MANUFACTURER INSTALLATION INSTRUCTIONS. THE PRACTICE OF BALLASTING WITH PRODUCT IS STRICTLY PROHIBITED AND NOT ALLOWED BY QUIKTRIP.
- P. CONTRACTOR SHALL PERFORM ALL REQUIRED TANK TIGHTNESS TESTING WITH WATER ONLY. THE USE OF PRODUCT FOR THESE TEST IS STRICTLY PROHIBITED AND NOT ALLOWED BY QUIKTRIP.

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CANOPY CONDUIT LAYOUT	XF303.1
DISPENSER CONDUIT LAYOUT & DETAILS	XF304
UST CONDUIT LAYOUT & DETAILS	XF305
UST CONDUIT LAYOUT & DETAILS	XF306
VEEDER ROOT SCHEMATIC & DETAILS	XF307
VEEDER ROOT SCHEDULE & DETAILS	XF308
SENSOR NUMBERING PLAN	XF309
NEC CLASSIFIED AREAS	XF310
ELECTRICAL DETAILS	XF311
ELECTRICAL DETAILS	XF312
ELECTRICAL DETAILS	XF313
UNDERGROUND PIPING SYSTEM PLAN	XF401
UST SECTIONS	XF402
TANK TOP EQUIPMENT DETAILS	XF403
DISPENSER & ISLAND DETAILS	XF404
DISPENSER & ISLAND SECTION	XF405
UST, TRANSITION SUMP & MISCELLANEOUS DETAILS	XF406
UST, TRANSITION SUMP & MISCELLANEOUS DETAILS	XF406.1
UST & PIPING DETAILS	XF407
DISPENSER & PIPING DETAILS	XF408
DISPENSER & PIPING DETAILS	XF409
VAPOR, VENT DETAILS	XF410
BILL OF MATERIALS	XF600
BILL OF MATERIALS	XF601



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QuikTrip No. 4166
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QT	
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PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
05/24/23		TANK REVISION

SHEET TITLE:
GASOLINE SYSTEM
TANK AND DISPENSER
PIPING GENERAL NOTES

SHEET NUMBER:
XF101

TEXAS NEW STORE UST INSTALL CHECKLIST

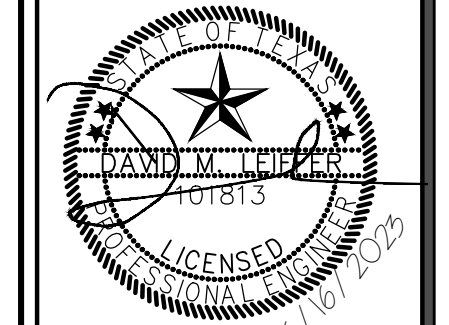
30-DAY NOTIFICATION (TCEQ-0495 FORM) FOR SENT TO THE TCEQ CENTRAL OFFICE IN AUSTIN, ALSO SEND RECEIPT OF SUBMISSION TO QTENVIRO@QUIKTRIP.COM - FUEL INSTALLER RESPONSIBLE

PROPER 24-72 HOUR NOTIFICATIONS TO BE MADE TO THE LOCAL TCEQ OFFICE FOR SETTING THE TANKS, COMPLETING THE PIPING INSTALLATION, AND THE FINAL INSPECTION. - FUEL INSTALLER RESPONSIBLE

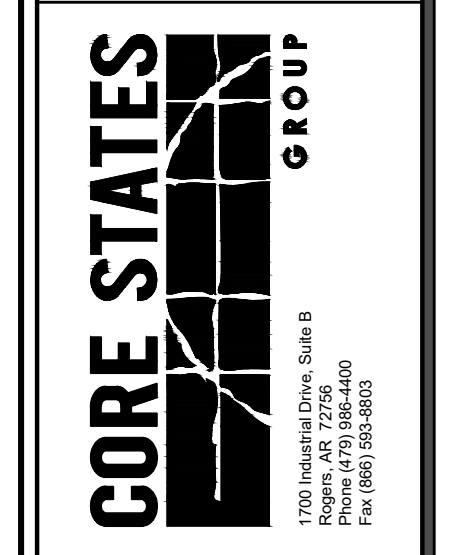
TANK REGISTRATION APPLICATION - TCEQ-0724 FORM- FUEL INSTALLER RESPONSIBLE

REQUIRED DOCUMENTATION FOR NEW UST SYSTEMS:

1. 3RD PARTY VAPOR RECOVERY TESTING - INCLUDES A PRESSURE DECAY TEST, TIE-TANK TEST, AND PRESSURE/VACUUM (P/V) VENT VALVE TEST.(TX)- FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
2. 50 PSI PRIMARY AND FUTURE LINE AND 5 PSI SECONDARY LINE PRESSURE TEST COMPLETED PRIOR TO SYSTEM GOING IN SERVICE. TESTER TO DOCUMENT THAT PRESSURE WAS HOLDING ON SECONDARY LINES AT PROJECT COMPLETION. THE TEST RESULTS FOR CAN BE DOCUMENTED ON THE PRODUCT PIPING MANUFACTURER CHECKLIST FOR EACH TYPE OF PIPE OR CONTRACTOR FORM. (QT) FUEL INSTALLER RESPONSIBLE
3. 3RD PARTY TANK TIGHTNESS TESTING (MUST TEST WITH WATER PRIOR TO FUEL DELIVERY)(QT, TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
4. 3RD PARTY LINE TIGHTNESS TESTING (QT, TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
5. 3RD PARTY MANUAL/FORCED LINE LEAK DETECTOR OPERABILITY TEST FOLLOWING MANUFACTURERS GUIDELINES TO SIMULATE 3.0 GPH LEAK (QT, TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
6. TRUCKET OR HYDROSTATIC STAND PIPE TANK TEST FOR EACH TANK (QT) FUEL INSTALLER RESPONSIBLE
7. 3RD PARTY DISPENSER CALIBRATION RESULTS (QT) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
8. 3RD PARTY SENSOR FUNCTIONALITY TESTING (TX)
 - NEED SENSOR STATUS PRINTOUT WITH ALL SENSORS IN NORMAL STATUS
 - NEED LEAK DETECTION CONSOLE PRINTOUT DOCUMENTING THE FUNCTIONALITY OF EACH INTERSTITIAL SENSOR. THE SENSOR FUNCTIONALITY TEST IS CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN GUIDELINES AND SHOULD CONSIST OF PRINTOUTS DOCUMENTING THE STATUS OF EACH SENSOR BEFORE, DURING, AND AFTER THE FUNCTIONALITY TEST. SENSOR STATUS PRINTOUTS BEFORE AND AFTER THE TEST SHOULD INDICATE A STATE OF NON-ALARM, SUCH AS A "NORMAL" OR "OK". (TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
9. 3RD PARTY REMOTE FILL PRESSURE (IF APPLICABLE) (QT REQUIRED TEST FORM) (QT) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
10. OVERFILL OPERABILITY TESTING/VERIFICATION (TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
11. 3RD PARTY SUMP HYDROSTATIC TEST RESULTS (TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
12. 3RD PARTY SPILL BUCKET HYDROSTATIC OR VACUUM TEST RESULTS (TX) - FUEL INSTALLER TO COORDINATE WITH QT ENV FOR APPROVED TESTING VENDOR (QTENVIRO@QUIKTRIP.COM)
13. TANK CHART FOR EACH TANK (QT) FUEL INSTALLER RESPONSIBLE
14. TANK WEIGHT AT DELIVERY (IF POSSIBLE). PLEASE WRITE ON UST MANUFACTURER CHECKLIST OR USE CONTRACTOR FORM. (QT) FUEL INSTALLER RESPONSIBLE
15. UST MANUFACTURER CHECKLIST (TX) 16. PRODUCT PIPING MANUFACTURER CHECKLIST FOR EACH TYPE OF PIPE (QT) FUEL INSTALLER RESPONSIBLE
16. PRODUCT PIPING MANUFACTURER CHECKLIST FOR EACH TYPE OF PIPE (QT) FUEL INSTALLER RESPONSIBLE



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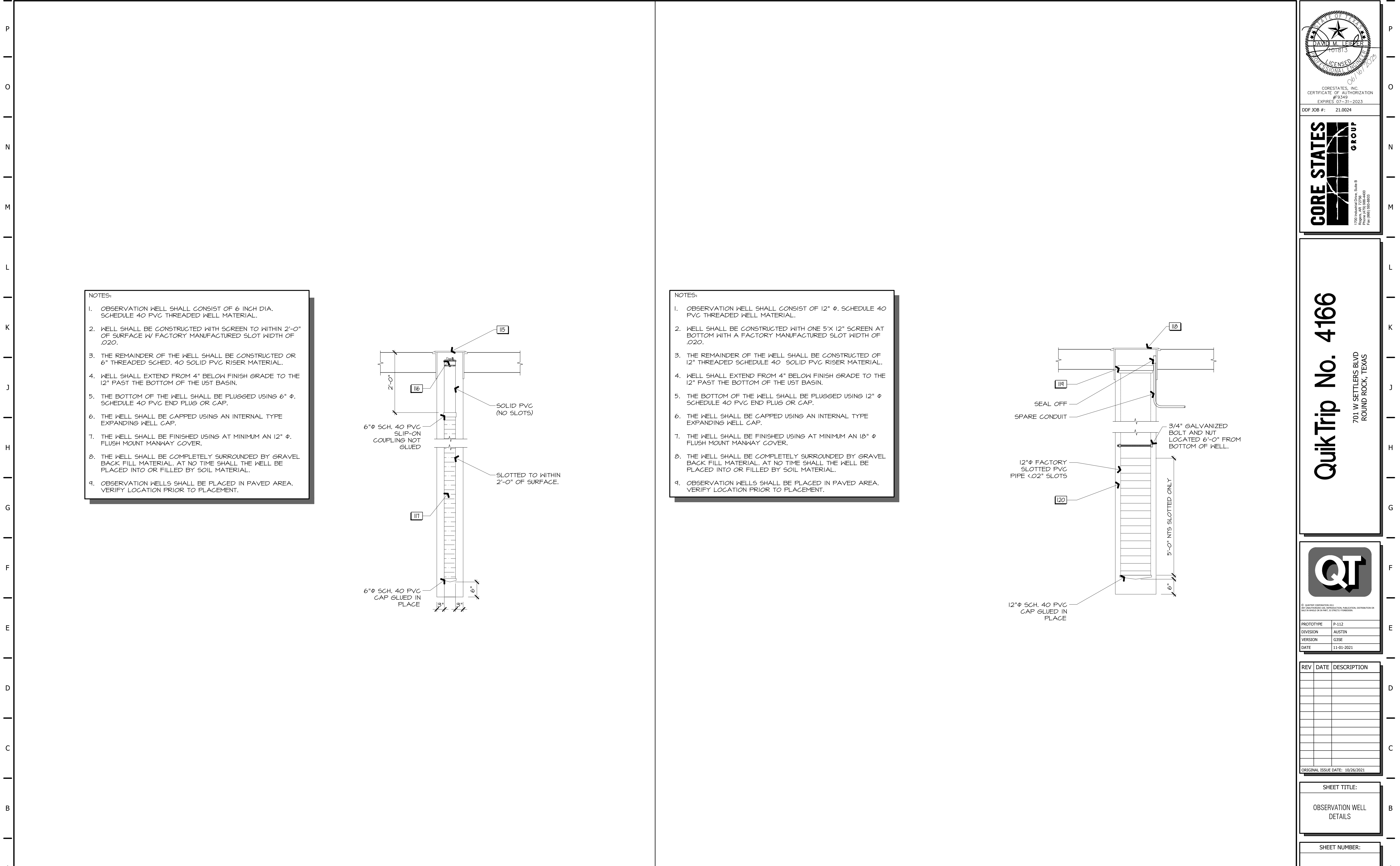
PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION

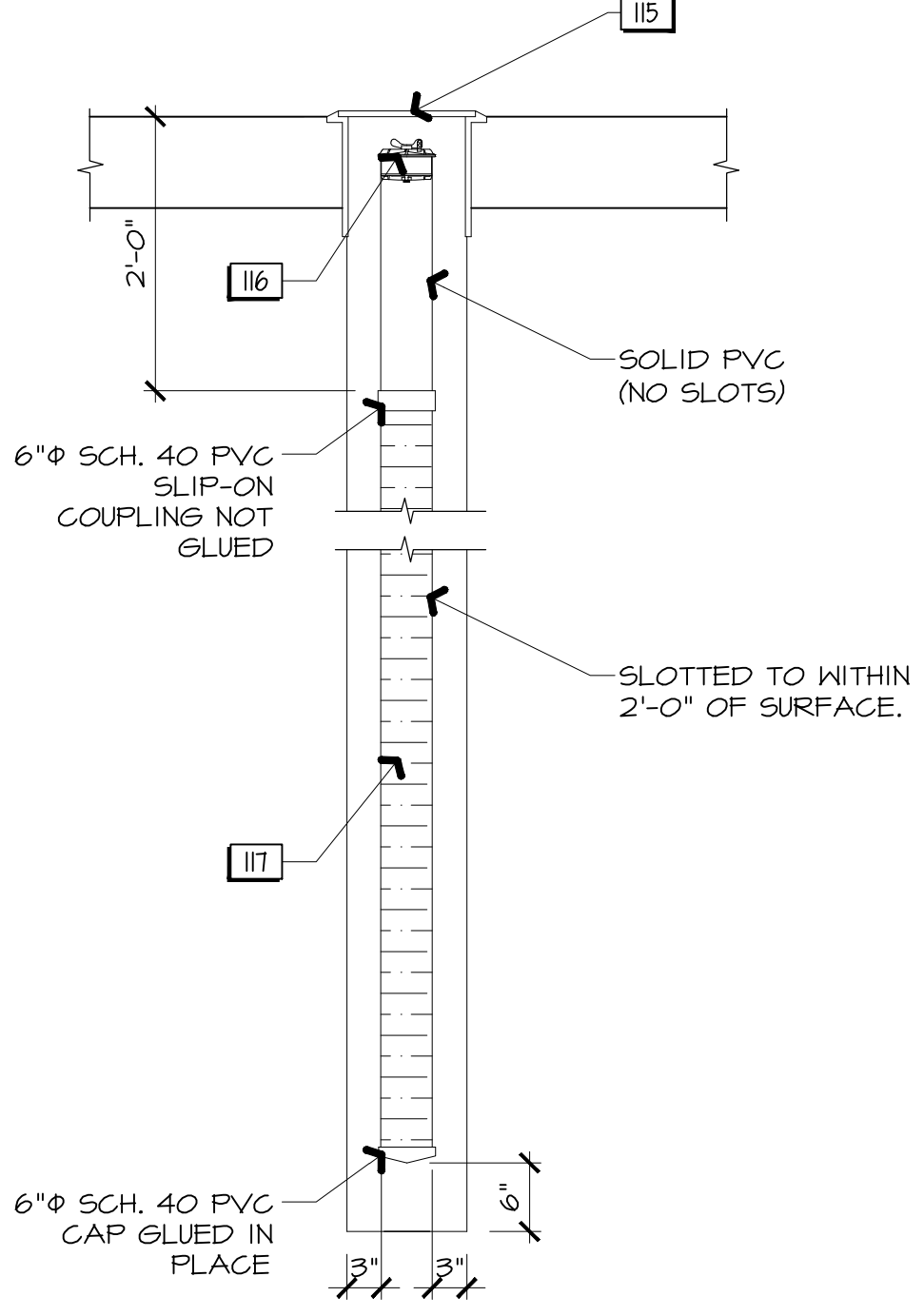
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
TEXAS NEW STORE
UST INSTALL
CHECKLIST

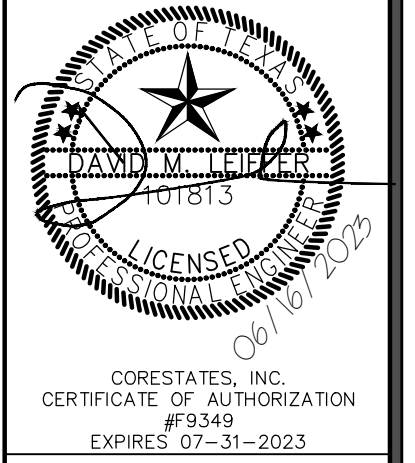
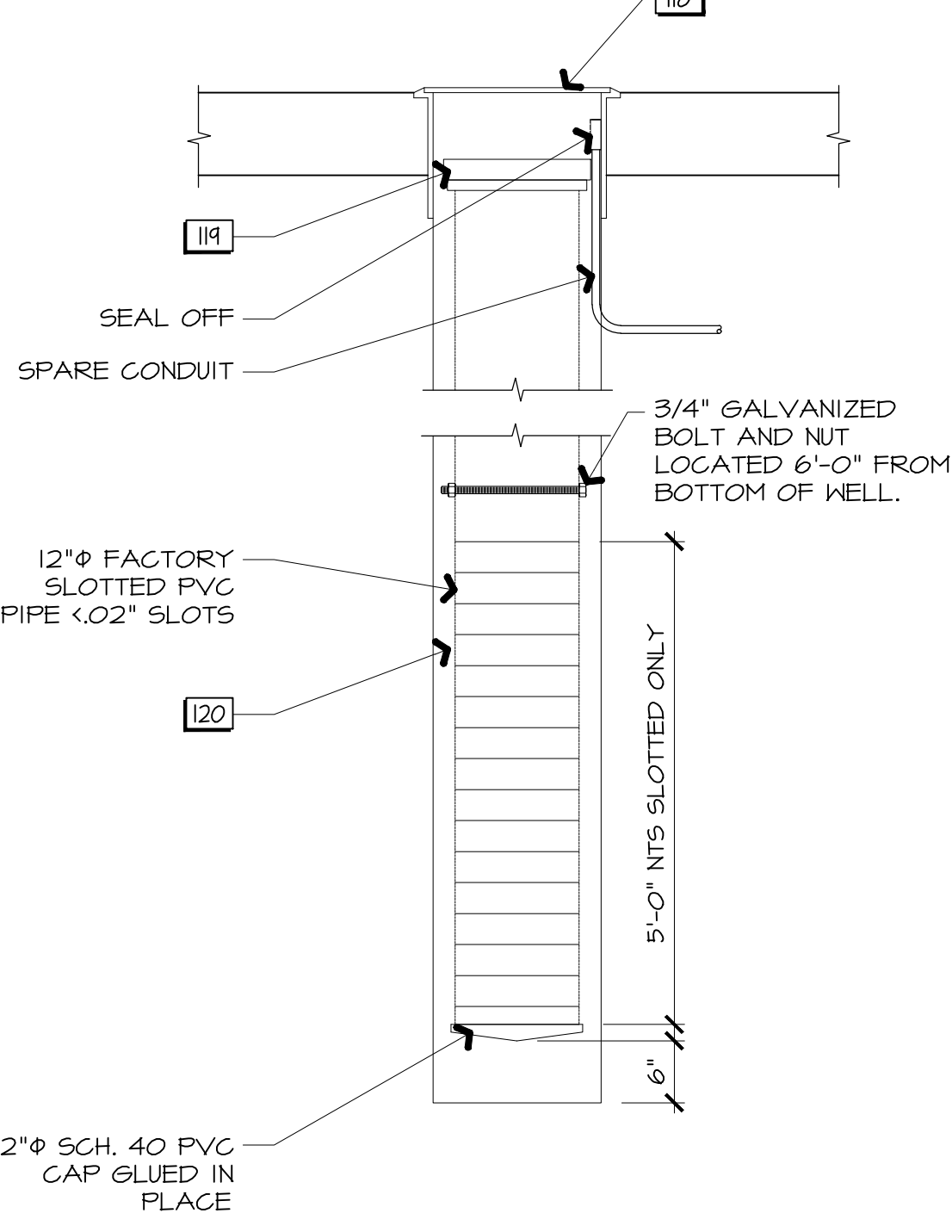
SHEET NUMBER:
XF101.1



- NOTES:**
- OBSERVATION WELL SHALL CONSIST OF 6 INCH DIA. SCHEDULE 40 PVC THREADED WELL MATERIAL.
 - WELL SHALL BE CONSTRUCTED WITH SCREEN TO WITHIN 2'-0" OF SURFACE W/ FACTORY MANUFACTURED SLOT WIDTH OF .020.
 - THE REMAINDER OF THE WELL SHALL BE CONSTRUCTED OR 6" THREADED SCHED. 40 SOLID PVC RISER MATERIAL.
 - WELL SHALL EXTEND FROM 4" BELOW FINISH GRADE TO THE 12" PAST THE BOTTOM OF THE UST BASIN.
 - THE BOTTOM OF THE WELL SHALL BE PLUGGED USING 6" ϕ . SCHEDULE 40 PVC END PLUG OR CAP.
 - THE WELL SHALL BE GAPPED USING AN INTERNAL TYPE EXPANDING WELL CAP.
 - THE WELL SHALL BE FINISHED USING AT MINIMUM AN 12" ϕ . FLUSH MOUNT MANWAY COVER.
 - THE WELL SHALL BE COMPLETELY SURROUNDED BY GRAVEL BACK FILL MATERIAL. AT NO TIME SHALL THE WELL BE PLACED INTO OR FILLED BY SOIL MATERIAL.
 - OBSERVATION WELLS SHALL BE PLACED IN PAVED AREA. VERIFY LOCATION PRIOR TO PLACEMENT.



- NOTES:**
- OBSERVATION WELL SHALL CONSIST OF 12" ϕ . SCHEDULE 40 PVC THREADED WELL MATERIAL.
 - WELL SHALL BE CONSTRUCTED WITH ONE 5'X 12" SCREEN AT BOTTOM WITH A FACTORY MANUFACTURED SLOT WIDTH OF .020.
 - THE REMAINDER OF THE WELL SHALL BE CONSTRUCTED OF 12" THREADED SCHEDULE 40 SOLID PVC RISER MATERIAL.
 - WELL SHALL EXTEND FROM 4" BELOW FINISH GRADE TO THE 12" PAST THE BOTTOM OF THE UST BASIN.
 - THE BOTTOM OF THE WELL SHALL BE PLUGGED USING 12" ϕ SCHEDULE 40 PVC END PLUG OR CAP.
 - THE WELL SHALL BE GAPPED USING AN INTERNAL TYPE EXPANDING WELL CAP.
 - THE WELL SHALL BE FINISHED USING AT MINIMUM AN 18" ϕ FLUSH MOUNT MANWAY COVER.
 - THE WELL SHALL BE COMPLETELY SURROUNDED BY GRAVEL BACK FILL MATERIAL. AT NO TIME SHALL THE WELL BE PLACED INTO OR FILLED BY SOIL MATERIAL.
 - OBSERVATION WELLS SHALL BE PLACED IN PAVED AREA. VERIFY LOCATION PRIOR TO PLACEMENT.



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 CERTIFICATE OF AUTHORIZATION
 #0349
 EXPIRES 07-31-2023
 DDF JOB #: 21.0024
CORE STATES GROUP
 1700 Westpark Drive, Suite B
 Round Rock, TX 78664
 Phone: (787) 886-4460
 Fax: (787) 886-4460

QuikTrip No. 4166
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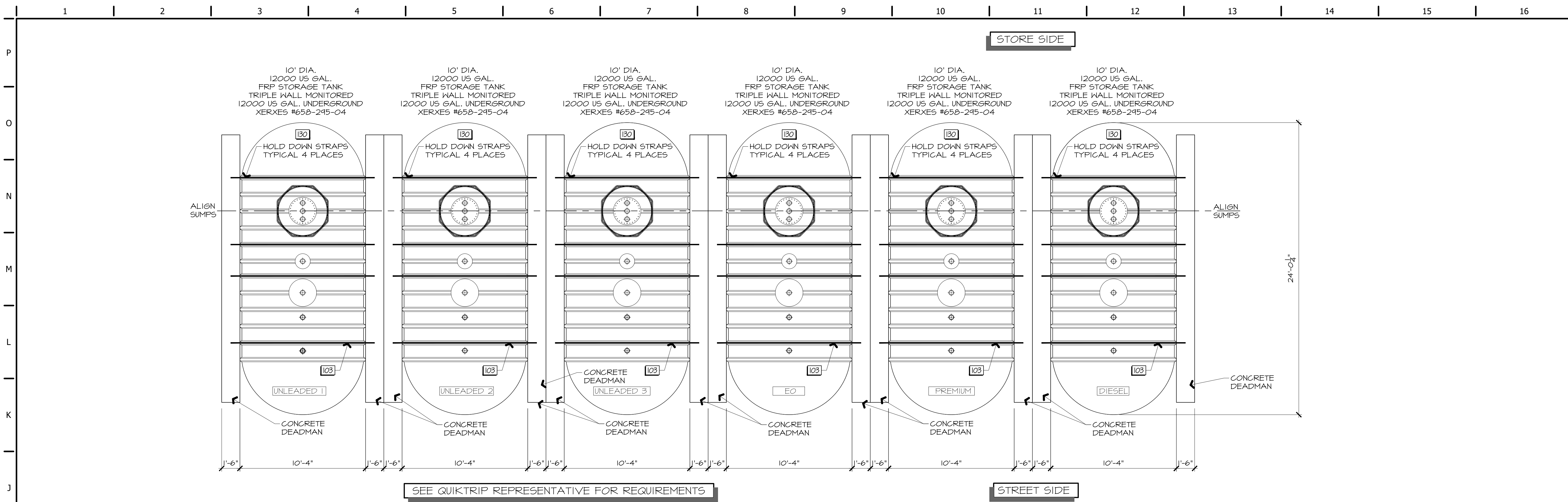
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DIVISION	AUSTIN
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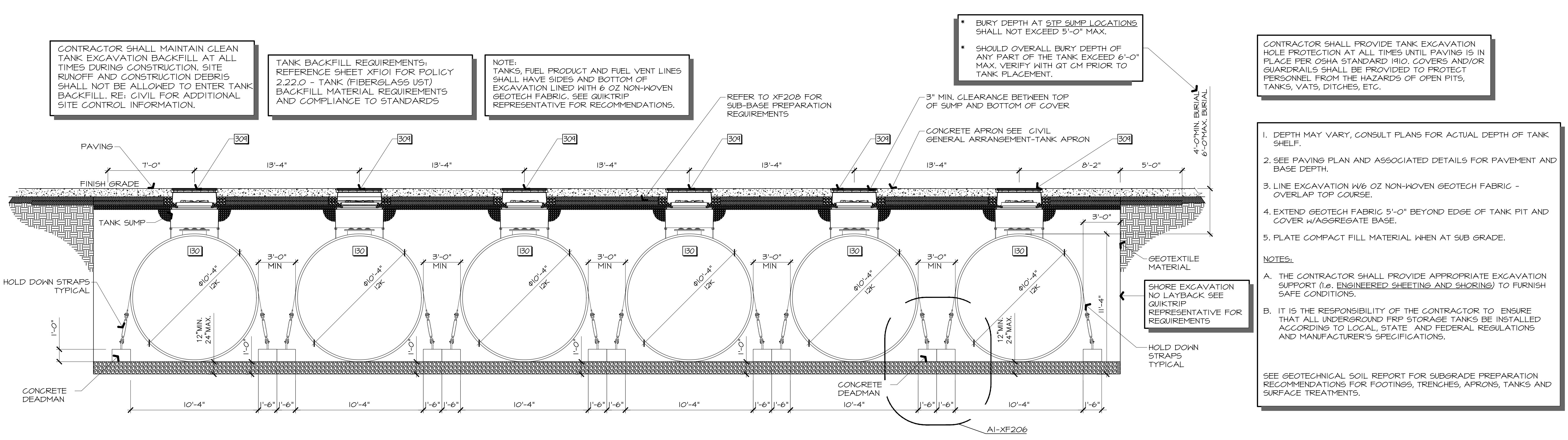
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
OBSERVATION WELL DETAILS

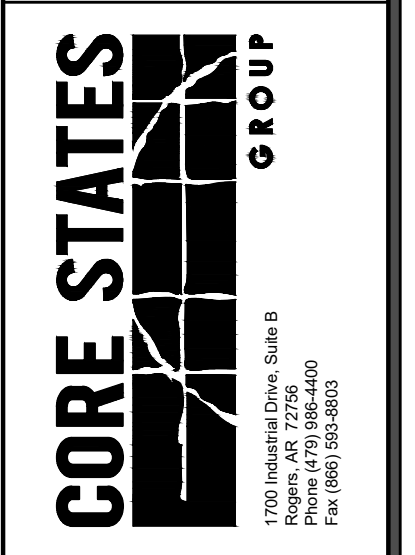
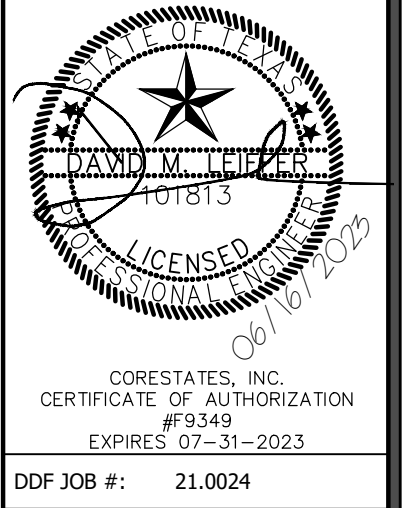
SHEET NUMBER:
XF204



H1 TANK AND DEADMAN PLAN
 1/4" = 1'-0"
 A1-XF205



A1 TANK ANCHORING PLAN
 1/4" = 1'-0"
 A1-XF205



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PROTOTYPE	P-112
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BE	02/07/23	P112 REROLL
BE	05/24/23	TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 UST DEADMAN & BURIAL DETAILS

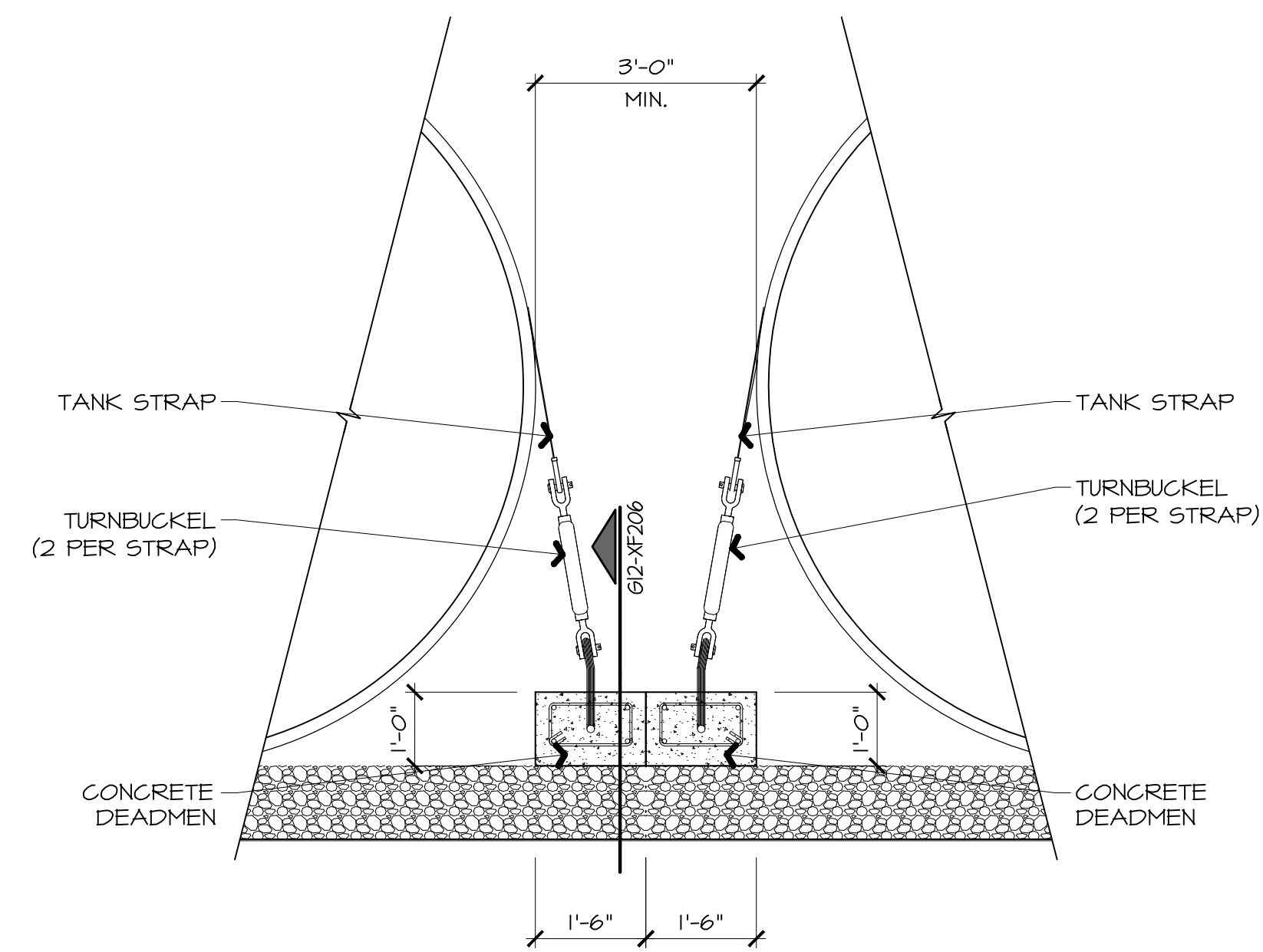
SHEET NUMBER:
XF205

CONTRACTOR SHALL PROVIDE TANK EXCAVATION HOLE PROTECTION AT ALL TIMES UNTIL PAVING IS IN PLACE PER OSHA STANDARD 1910. COVERS AND/OR GUARDRAILS SHALL BE PROVIDED TO PROTECT PERSONNEL FROM THE HAZARDS OF OPEN PITS, TANKS, VATS, DITCHES, ETC.

- DEPTH MAY VARY, CONSULT PLANS FOR ACTUAL DEPTH OF TANK SHELF.
- SEE PAVING PLAN AND ASSOCIATED DETAILS FOR PAVEMENT AND BASE DEPTH.
- LINE EXCAVATION W/6 OZ NON-WOVEN GEOTECH FABRIC - OVERLAP TOP COURSE.
- EXTEND GEOTECH FABRIC 5'-0" BEYOND EDGE OF TANK PIT AND COVER W/AGGREGATE BASE.
- PLATE COMPACT FILL MATERIAL WHEN AT SUB GRADE.

- NOTES:
- THE CONTRACTOR SHALL PROVIDE APPROPRIATE EXCAVATION SUPPORT (I.E. ENGINEERED SHEETING AND SHORING) TO FURNISH SAFE CONDITIONS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL UNDERGROUND FRP STORAGE TANKS BE INSTALLED ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS AND MANUFACTURER'S SPECIFICATIONS.

SEE GEOTECHNICAL SOIL REPORT FOR SUBGRADE PREPARATION RECOMMENDATIONS FOR FOOTINGS, TRENCHES, APRONS, TANKS AND SURFACE TREATMENTS.



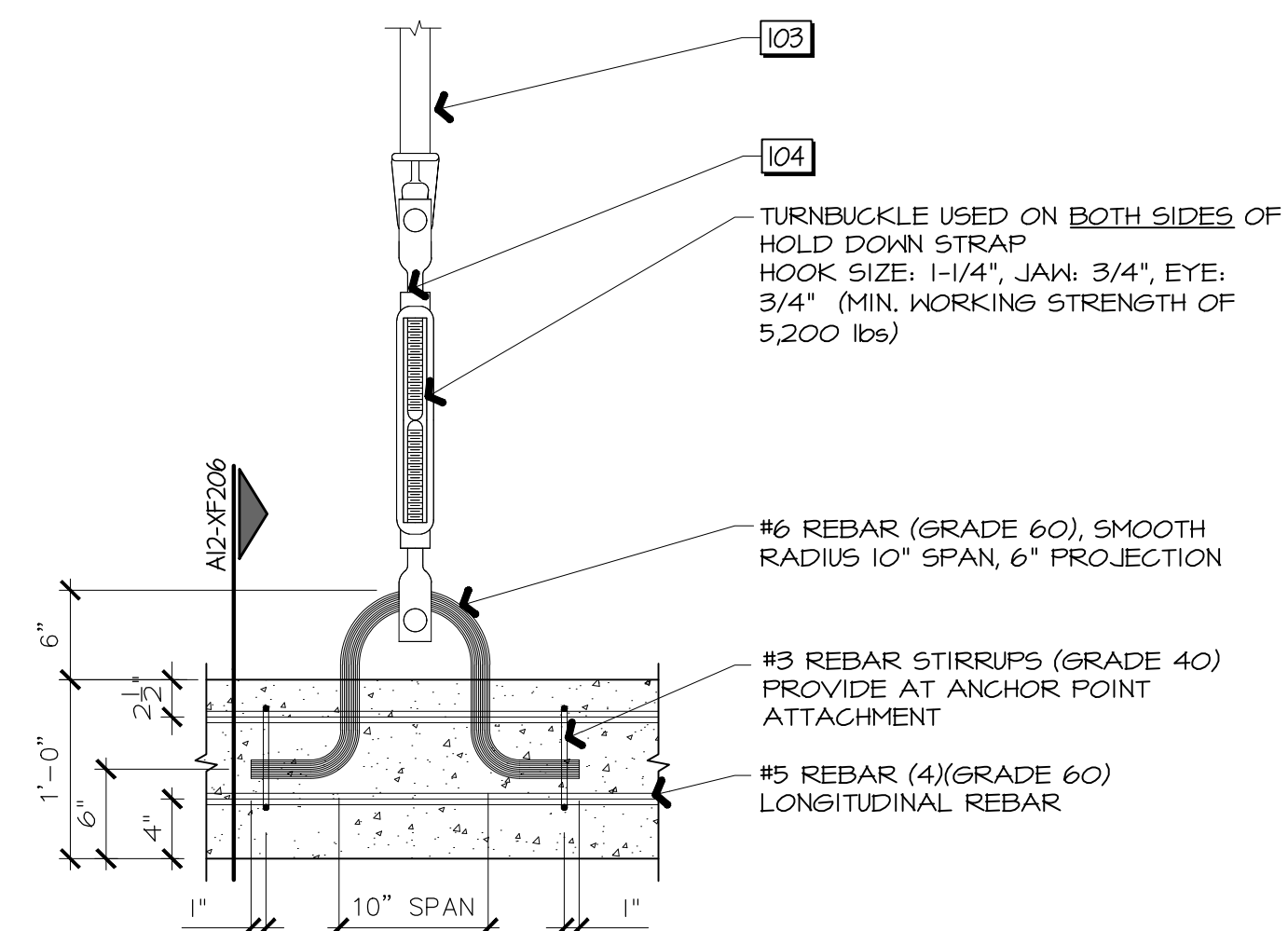
NOTE:
ALL EXPOSED METAL ON ANCHORING SYSTEM AND TURNBUCKLES MUST BE GALVANIZED TO PROTECT AGAINST CORROSION.

NOTES:

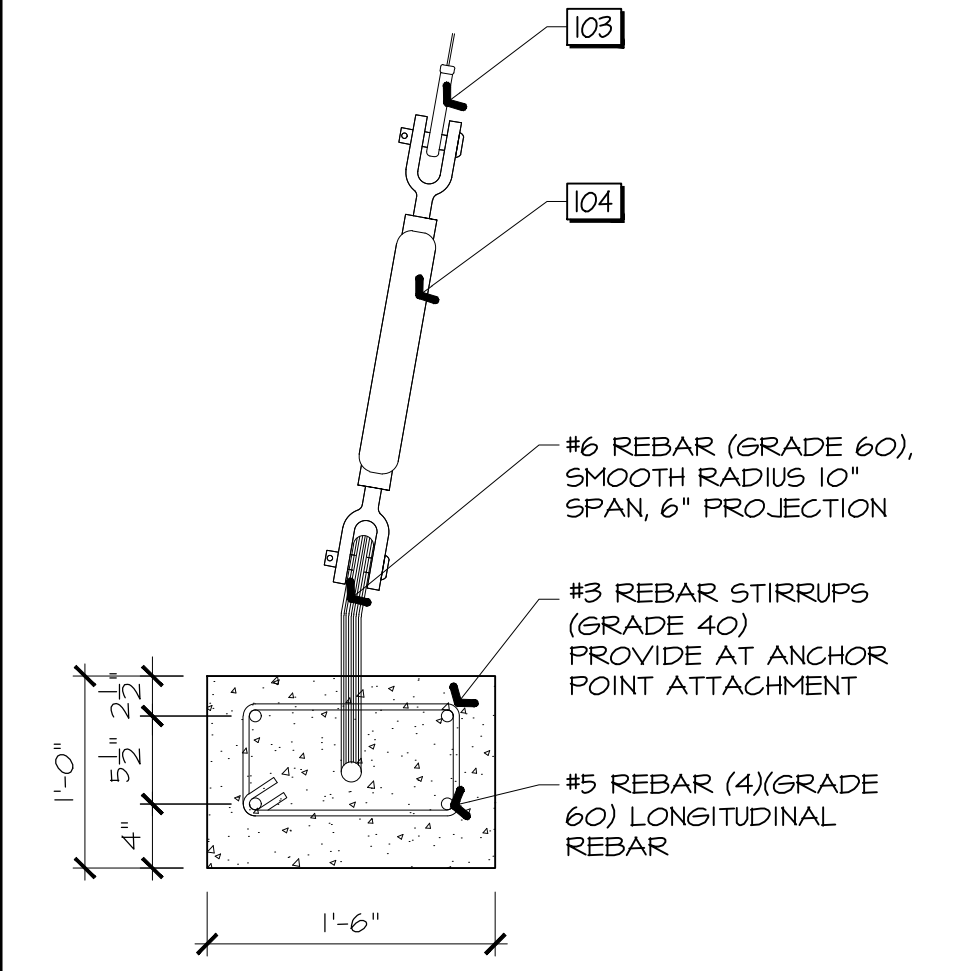
- MECHANICAL TANK ANCHORING IS REQUIRED FOR ALL TANK INSTALLATIONS. ANCHORS/DEADMEN TO BE DESIGNED BY TANK MANUFACTURER AND ARE TO BE INSTALLED PER TANK MANUFACTURER'S SPECIFICATIONS.
- DEADMAN TO BE PROVIDED BY GENERAL CONTRACTOR OR PROVIDED BY QUIKTRIP AT GENERAL CONTRACTORS REQUEST. GENERAL CONTRACTOR TO COORDINATE WITH QUIKTRIP REPRESENTATIVE.
- USE ONLY TANK MANUFACTURER'S SPECIFIED ANCHOR STRAPS. NUMBER AND LOCATION IN ACCORDANCE WITH TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ALL HOLD-DOWN STRAPS MUST BE UNIFORMLY TIGHTENED. STRAPS MUST BE TIGHTENED UNTIL SNUG, BUT CAUSE NO DEFLECTION OF THE TANK.
- WIRE ROPE ANCHORS OVER THE TANKS ARE NOT ACCEPTABLE AS A MEANS OF ANCHORING TANKS. UNLESS WRITTEN CONFIRMATION IS RECEIVED FROM TANK MANUFACTURER AND OWNER AS AN ALTERNATIVE METHOD.

ALL EXPOSED METAL ON ANCHORING SYSTEM AND TURNBUCKLES MUST BE GALVANIZED TO PROTECT AGAINST CORROSION.

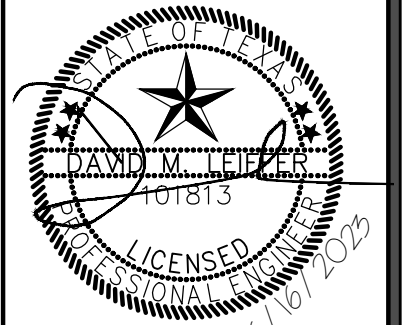
ULTIMATE STRENGTH
WORKING STRENGTH
SAFETY FACTOR OF 5.0 REQUIRED



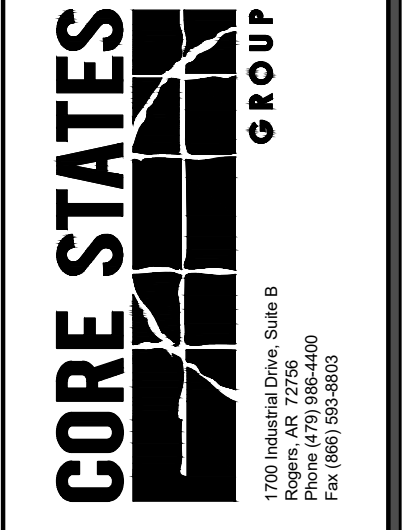
G12 TANK ANCHORING HARDWARE
1" = 1'-0" A1-XF206



A12 TANK ANCHORING HARDWARE EDGE OF TANK
1" = 1'-0" G12-XF206



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DATE	11-01-2021

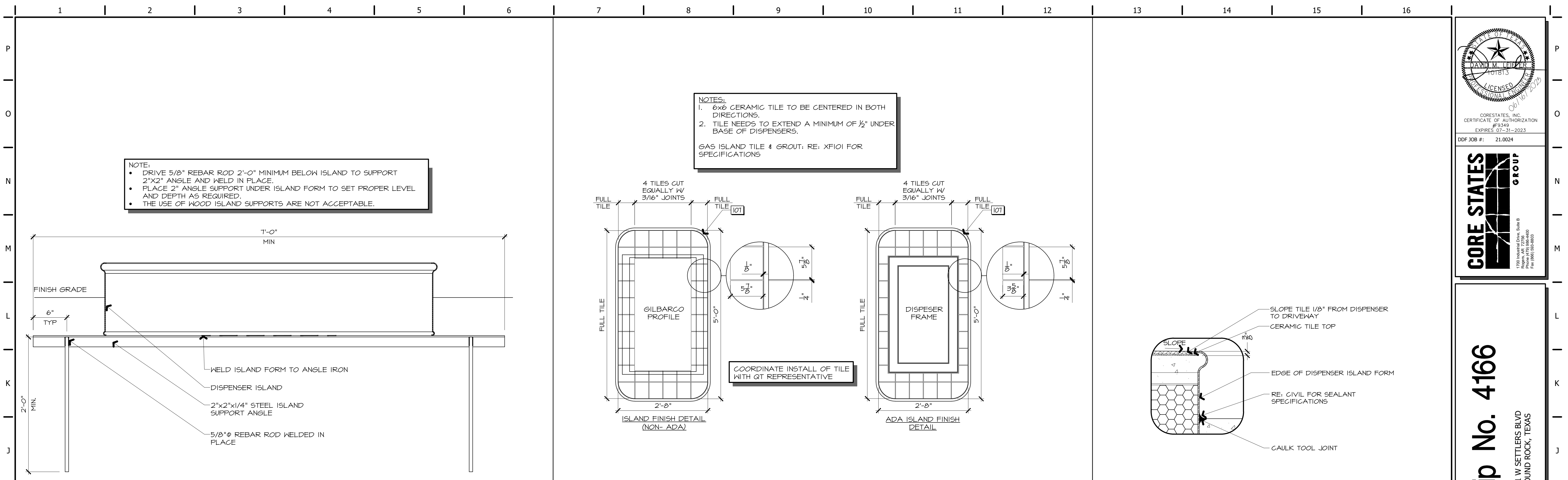
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
UST DEADMAN & BURIAL DETAILS

SHEET NUMBER:
XF206

A1 TYPICAL TANK ANCHORING HARDWARE
1/2" = 1'-0" A1-XF205



NOTE:

- DRIVE 5/8" REBAR ROD 2'-0" MINIMUM BELOW ISLAND TO SUPPORT 2"x2" ANGLE AND WELD IN PLACE.
- PLACE 2" ANGLE SUPPORT UNDER ISLAND FORM TO SET PROPER LEVEL AND DEPTH AS REQUIRED.
- THE USE OF WOOD ISLAND SUPPORTS ARE NOT ACCEPTABLE.

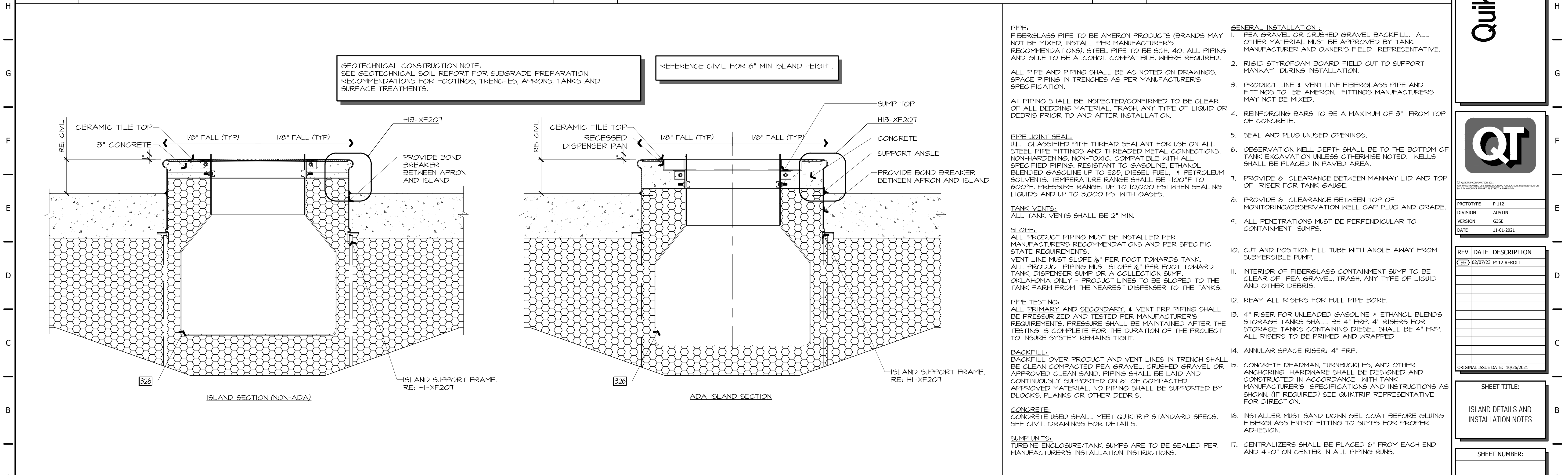
NOTES:

1. 6"x6" CERAMIC TILE TO BE CENTERED IN BOTH DIRECTIONS.
2. TILE NEEDS TO EXTEND A MINIMUM OF 1/2" UNDER BASE OF DISPENSERS.

GAS ISLAND TILE & GROUT. RE: XF101 FOR SPECIFICATIONS

COORDINATE INSTALL OF TILE WITH QT REPRESENTATIVE

H1 ISLAND SUPPORT FRAME 1 1/2"=1'-0"
H7 ISLAND FINISH DETAIL 3/4"=1'-0"
H13 ISLAND SECTION DETAIL 3"=1'-0" A1-XF207



GEOTECHNICAL CONSTRUCTION NOTE:
 SEE GEOTECHNICAL SOIL REPORT FOR SUBGRADE PREPARATION RECOMMENDATIONS FOR FOOTINGS, TRENCHES, APRONS, TANKS AND SURFACE TREATMENTS.

REFERENCE CIVIL FOR 6" MIN ISLAND HEIGHT.

PIPE:
 FIBERGLASS PIPE TO BE AMERON PRODUCTS (BRANDS MAY NOT BE MIXED, INSTALL PER MANUFACTURER'S RECOMMENDATIONS). STEEL PIPE TO BE SCH. 40. ALL PIPING AND GLUE TO BE ALCOHOL COMPATIBLE, WHERE REQUIRED.

GENERAL INSTALLATION:

1. PEA GRAVEL OR CRUSHED GRAVEL BACKFILL. ALL OTHER MATERIAL MUST BE APPROVED BY TANK MANUFACTURER AND OWNER'S FIELD REPRESENTATIVE.
2. RIGID STYROFOAM BOARD FIELD CUT TO SUPPORT MANKAY DURING INSTALLATION.
3. PRODUCT LINE & VENT LINE FIBERGLASS PIPE AND FITTINGS TO BE AMERON. FITTINGS MANUFACTURERS MAY NOT BE MIXED.
4. REINFORCING BARS TO BE A MAXIMUM OF 3" FROM TOP OF CONCRETE.
5. SEAL AND PLUG UNUSED OPENINGS.
6. OBSERVATION WELL DEPTH SHALL BE TO THE BOTTOM OF TANK EXCAVATION UNLESS OTHERWISE NOTED. WELLS SHALL BE PLACED IN PAVED AREA.
7. PROVIDE 6" CLEARANCE BETWEEN MANKAY LID AND TOP OF RISER FOR TANK GAUGE.
8. PROVIDE 6" CLEARANCE BETWEEN TOP OF MONITORING/OBSERVATION WELL CAP PLUG AND GRADE.
9. ALL PENETRATIONS MUST BE PERPENDICULAR TO CONTAINMENT SUMPS.
10. CUT AND POSITION FILL TUBE WITH ANGLE AWAY FROM SUBMERSIBLE PUMP.
11. INTERIOR OF FIBERGLASS CONTAINMENT SUMP TO BE CLEAR OF PEA GRAVEL, TRASH, ANY TYPE OF LIQUID AND OTHER DEBRIS.
12. REAM ALL RISERS FOR FULL PIPE BORE.
13. 4" RISER FOR UNLEADED GASOLINE & ETHANOL BLENDS STORAGE TANKS SHALL BE 4" FRP. 4" RISERS FOR STORAGE TANKS CONTAINING DIESEL SHALL BE 4" FRP. ALL RISERS TO BE PRIMED AND WRAPPED.
14. ANNULAR SPACE RISER: 4" FRP.
15. CONCRETE DEADMAN, TURNBUCKLES, AND OTHER ANCHORING HARDWARE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH TANK MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AS SHOWN. (IF REQUIRED) SEE QUIKTRIP REPRESENTATIVE FOR DIRECTION.
16. INSTALLER MUST SAND DOWN GEL COAT BEFORE GLUING FIBERGLASS ENTRY FITTING TO SUMPS FOR PROPER ADHESION.
17. CENTRALIZERS SHALL BE PLACED 6" FROM EACH END AND 4'-0" ON CENTER IN ALL PIPING RUNS.

PIPE JOINT SEAL:
 UL CLASSIFIED PIPE THREAD SEALANT FOR USE ON ALL STEEL PIPE FITTINGS AND THREADED METAL CONNECTIONS. NON-HARDENING, NON-TOXIC, COMPATIBLE WITH ALL SPECIFIED PIPING. RESISTANT TO GASOLINE, ETHANOL BLENDED GASOLINE UP TO E85, DIESEL FUEL, & PETROLEUM SOLVENTS. TEMPERATURE RANGE SHALL BE -100°F TO 600°F. PRESSURE RANGE: UP TO 10,000 PSI WHEN SEALING LIQUIDS AND UP TO 3,000 PSI WITH GASES.

TANK VENTS:
 ALL TANK VENTS SHALL BE 2" MIN.

SLOPE:
 ALL PRODUCT PIPING MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PER SPECIFIC STATE REQUIREMENTS.
 VENT LINE MUST SLOPE 1/8" PER FOOT TOWARDS TANK.
 ALL PRODUCT PIPING MUST SLOPE 1/8" PER FOOT TOWARD TANK, DISPENSER SUMP OR A COLLECTION SUMP.
 OKLAHOMA ONLY - PRODUCT LINES TO BE SLOPED TO THE TANK FARM FROM THE NEAREST DISPENSER TO THE TANKS.

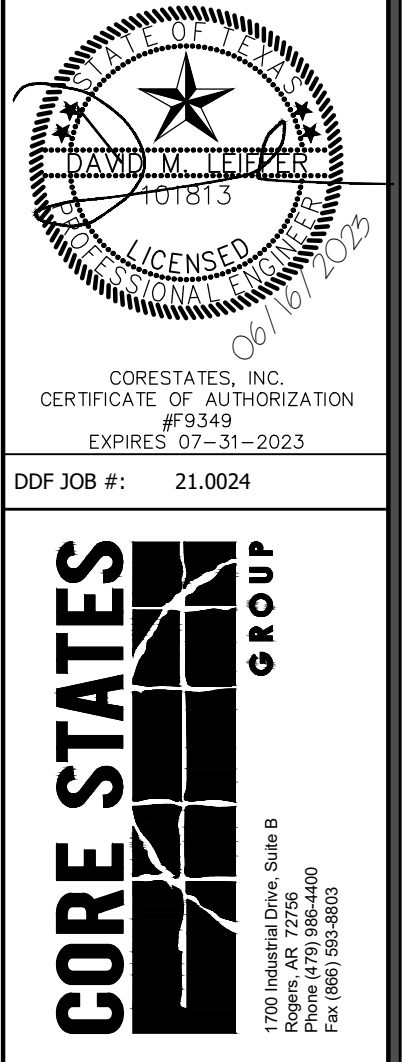
PIPE TESTING:
 ALL PRIMARY AND SECONDARY, & VENT FRP PIPING SHALL BE PRESSURIZED AND TESTED PER MANUFACTURER'S REQUIREMENTS. PRESSURE SHALL BE MAINTAINED AFTER THE TESTING IS COMPLETE FOR THE DURATION OF THE PROJECT TO INSURE SYSTEM REMAINS TIGHT.

BACKFILL:
 BACKFILL OVER PRODUCT AND VENT LINES IN TRENCH SHALL BE CLEAN COMPACTED PEA GRAVEL, CRUSHED GRAVEL OR APPROVED CLEAN SAND. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON 6" OF COMPACTED APPROVED MATERIAL. NO PIPING SHALL BE SUPPORTED BY BLOCKS, PLANKS OR OTHER DEBRIS.

CONCRETE:
 CONCRETE USED SHALL MEET QUIKTRIP STANDARD SPECS. SEE CIVIL DRAWINGS FOR DETAILS.

SUMP UNITS:
 TURBINE ENCLOSURE/TANK SUMPS ARE TO BE SEALED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

A1 ISLAND SECTION 1 1/2"=1'-0"
A12 INSTALLATION NOTES 3/5"=1'-0"



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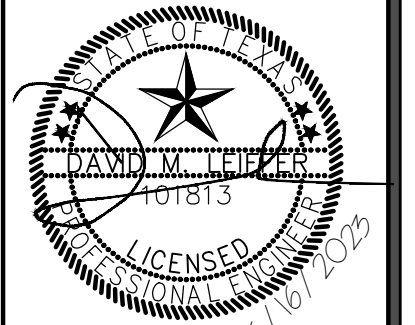
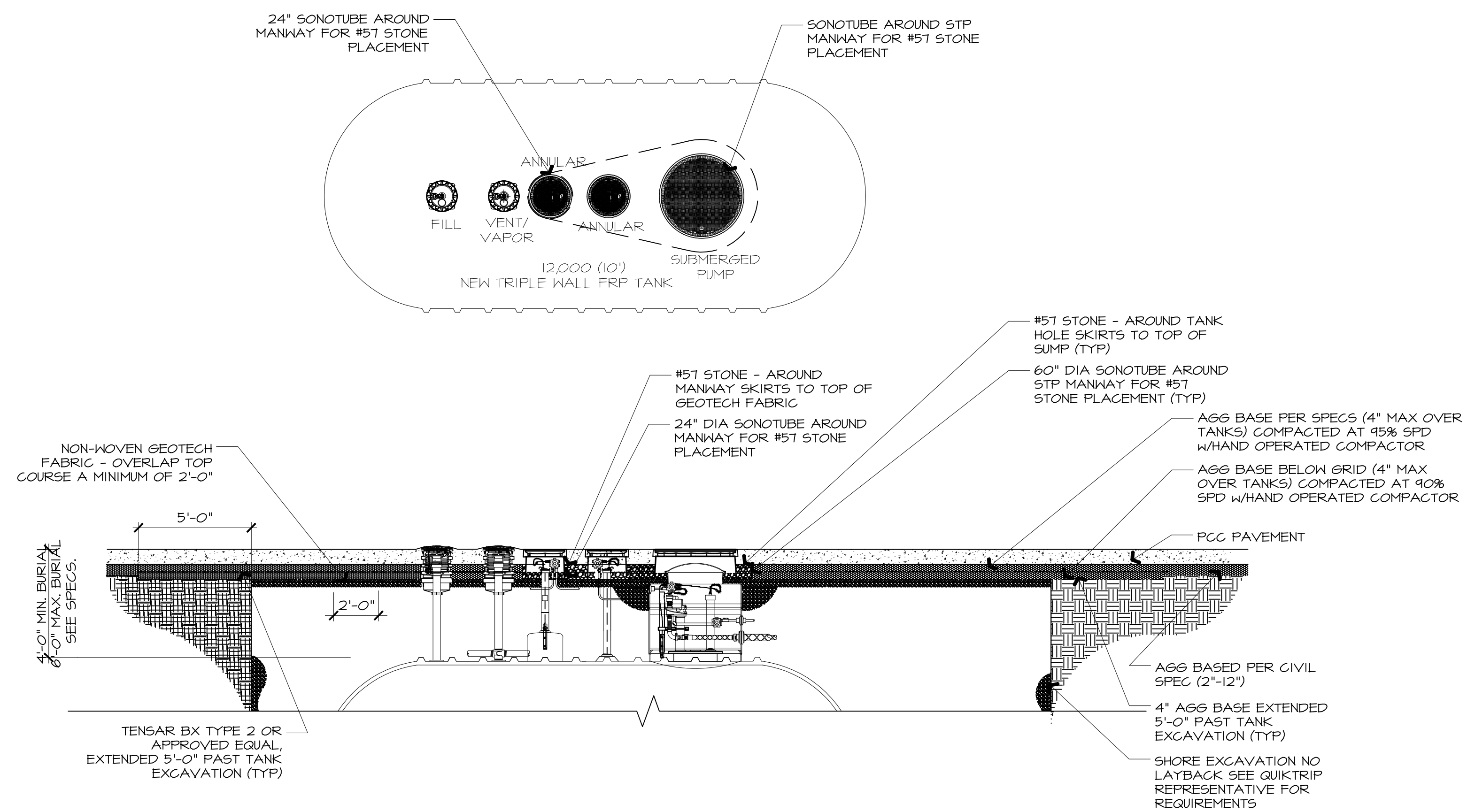
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REV	DATE	DESCRIPTION
02	02/07/23	P112 REROLL

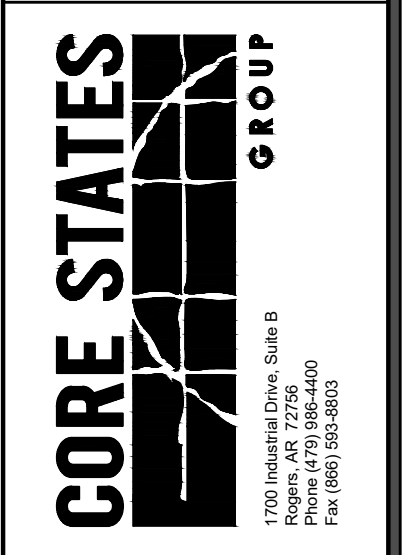
SHEET TITLE:
 ISLAND DETAILS AND INSTALLATION NOTES

SHEET NUMBER:
 XF207

J1 NOT USED



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ROUND ROCK, TEXAS



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PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

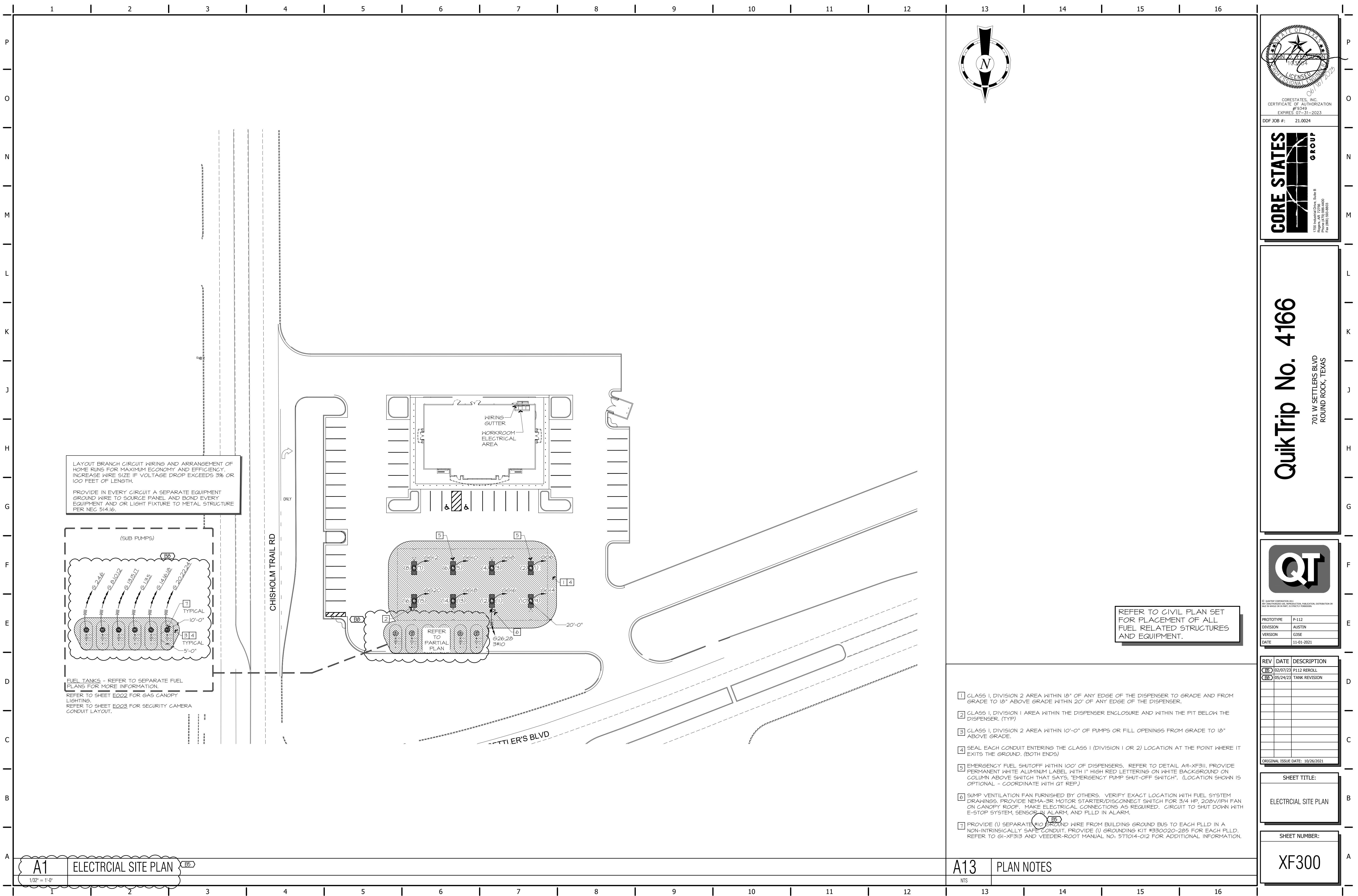
REV	DATE	DESCRIPTION
05/24/23		TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
UST AREA SUB-BASE
PREP PLAN AND
SECTIONS

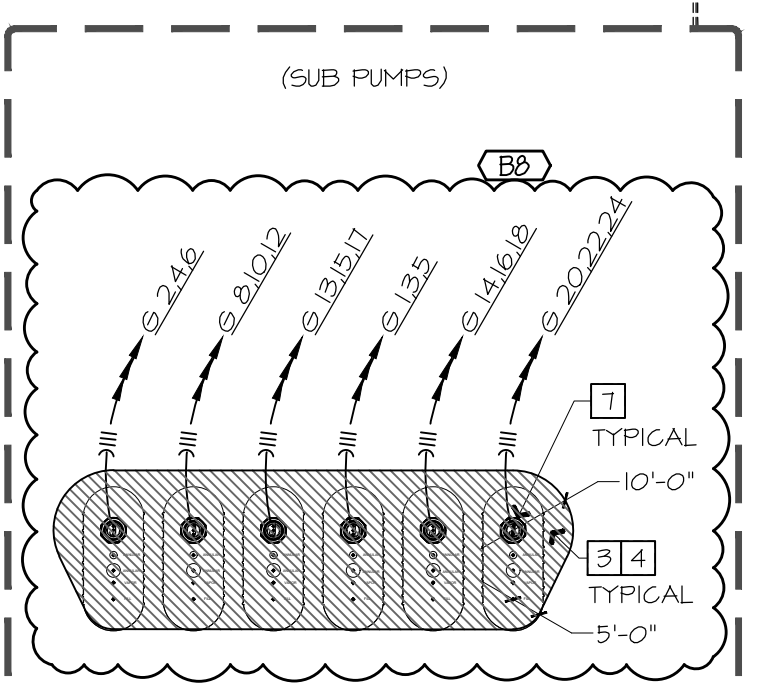
SHEET NUMBER:
XF208

A1 STANDARD TANK BACKFILL SECTION



LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF VOLTAGE DROP EXCEEDS 3% OR 100 FEET OF LENGTH.

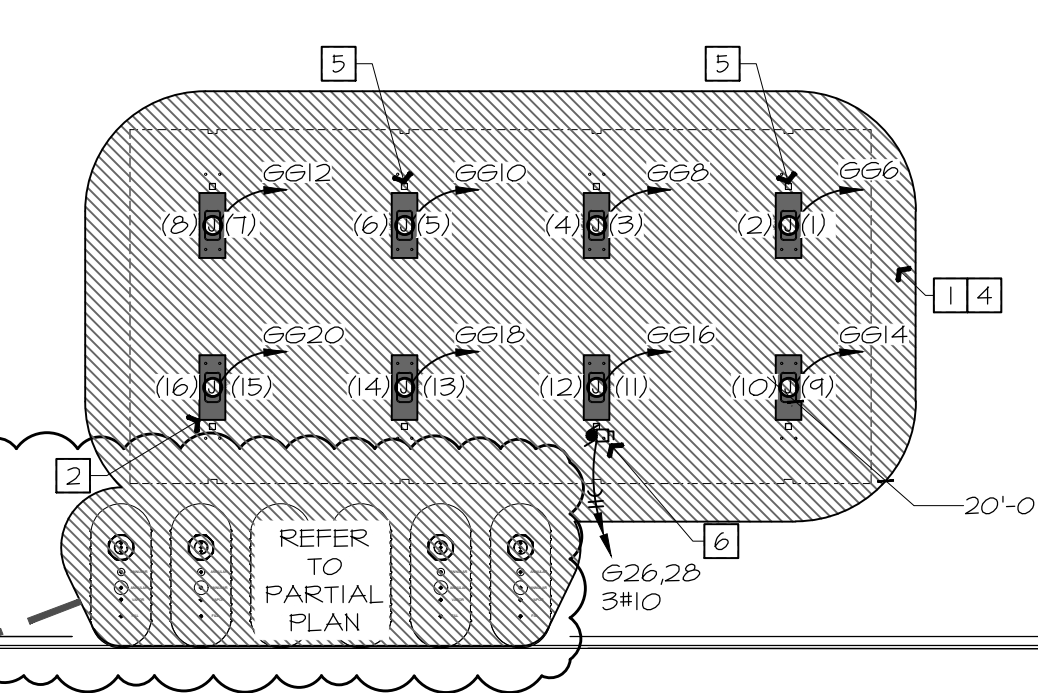
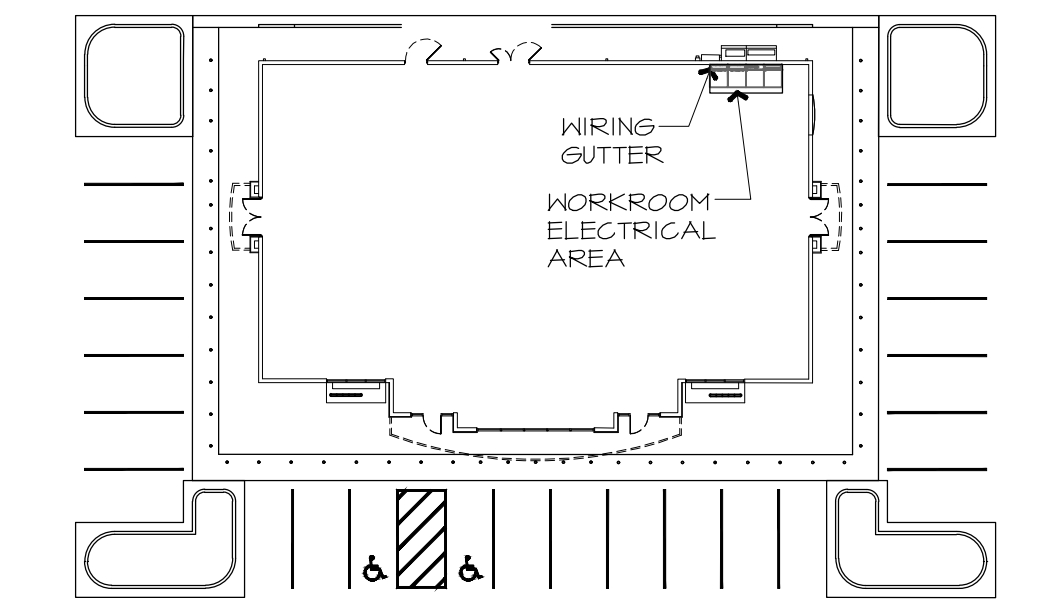
PROVIDE IN EVERY CIRCUIT A SEPARATE EQUIPMENT GROUND WIRE TO SOURCE PANEL AND BOND EVERY EQUIPMENT AND OR LIGHT FIXTURE TO METAL STRUCTURE PER NEC 514.16.



FUEL TANKS - REFER TO SEPARATE FUEL PLANS FOR MORE INFORMATION.

REFER TO SHEET EQ02 FOR GAS CANOPY LIGHTING.

REFER TO SHEET EQ03 FOR SECURITY CAMERA CONDUIT LAYOUT.

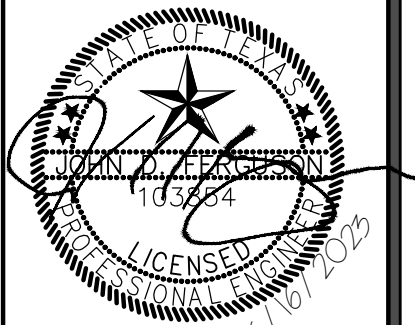


REFER TO CIVIL PLAN SET FOR PLACEMENT OF ALL FUEL RELATED STRUCTURES AND EQUIPMENT.

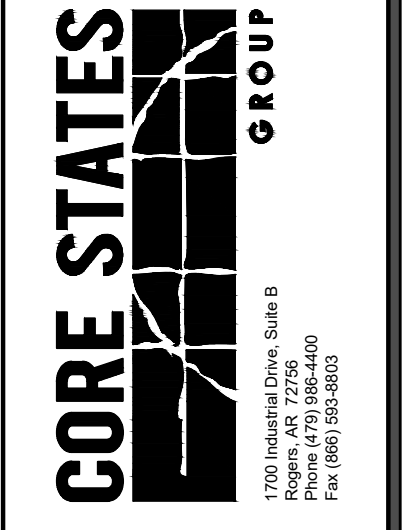
- 1 CLASS 1, DIVISION 2 AREA WITHIN 18" OF ANY EDGE OF THE DISPENSER TO GRADE AND FROM GRADE TO 18" ABOVE GRADE WITHIN 20' OF ANY EDGE OF THE DISPENSER.
- 2 CLASS 1, DIVISION 1 AREA WITHIN THE DISPENSER ENCLOSURE AND WITHIN THE PIT BELOW THE DISPENSER. (TYP)
- 3 CLASS 1, DIVISION 2 AREA WITHIN 10'-0" OF PUMPS OR FILL OPENINGS FROM GRADE TO 18" ABOVE GRADE.
- 4 SEAL EACH CONDUIT ENTERING THE CLASS 1 (DIVISION 1 OR 2) LOCATION AT THE POINT WHERE IT EXITS THE GROUND. (BOTH ENDS)
- 5 EMERGENCY FUEL SHUTOFF WITHIN 100' OF DISPENSERS. REFER TO DETAIL A4-XF311. PROVIDE PERMANENT WHITE ALUMINUM LABEL WITH 1" HIGH RED LETTERING ON WHITE BACKGROUND ON COLUMN ABOVE SWITCH THAT SAYS, "EMERGENCY PUMP SHUT-OFF SWITCH". (LOCATION SHOWN IS OPTIONAL - COORDINATE WITH QT REP)
- 6 SUMP VENTILATION FAN FURNISHED BY OTHERS. VERIFY EXACT LOCATION WITH FUEL SYSTEM DRAWINGS. PROVIDE NEMA-3R MOTOR STARTER/DISCONNECT SWITCH FOR 3/4 HP, 208V/1PH FAN ON CANOPY ROOF. MAKE ELECTRICAL CONNECTIONS AS REQUIRED. CIRCUIT TO SHUT DOWN WITH E-STOP SYSTEM, SENSOR-IN-ALARM, AND PLLD IN ALARM.
- 7 PROVIDE (1) SEPARATE #10 GROUND WIRE FROM BUILDING GROUND BUS TO EACH PLLD IN A NON-INTRINSICALLY SAFE CONDUIT. PROVIDE (1) GROUNDING KIT #330020-285 FOR EACH PLLD. REFER TO G1-XF313 AND VEEDER-ROOT MANUAL NO. 571014-012 FOR ADDITIONAL INFORMATION.

A1 ELECTRICAL SITE PLAN

A13 PLAN NOTES



CORE STATES, INC.
 CERTIFICATE OF AUTHORIZATION
 #0349
 EXPIRES 07-31-2023
 DDF JOB #: 21.0024



QuikTrip No. 4166
 701 W SETTLERS BLVD
 ROUND ROCK, TEXAS



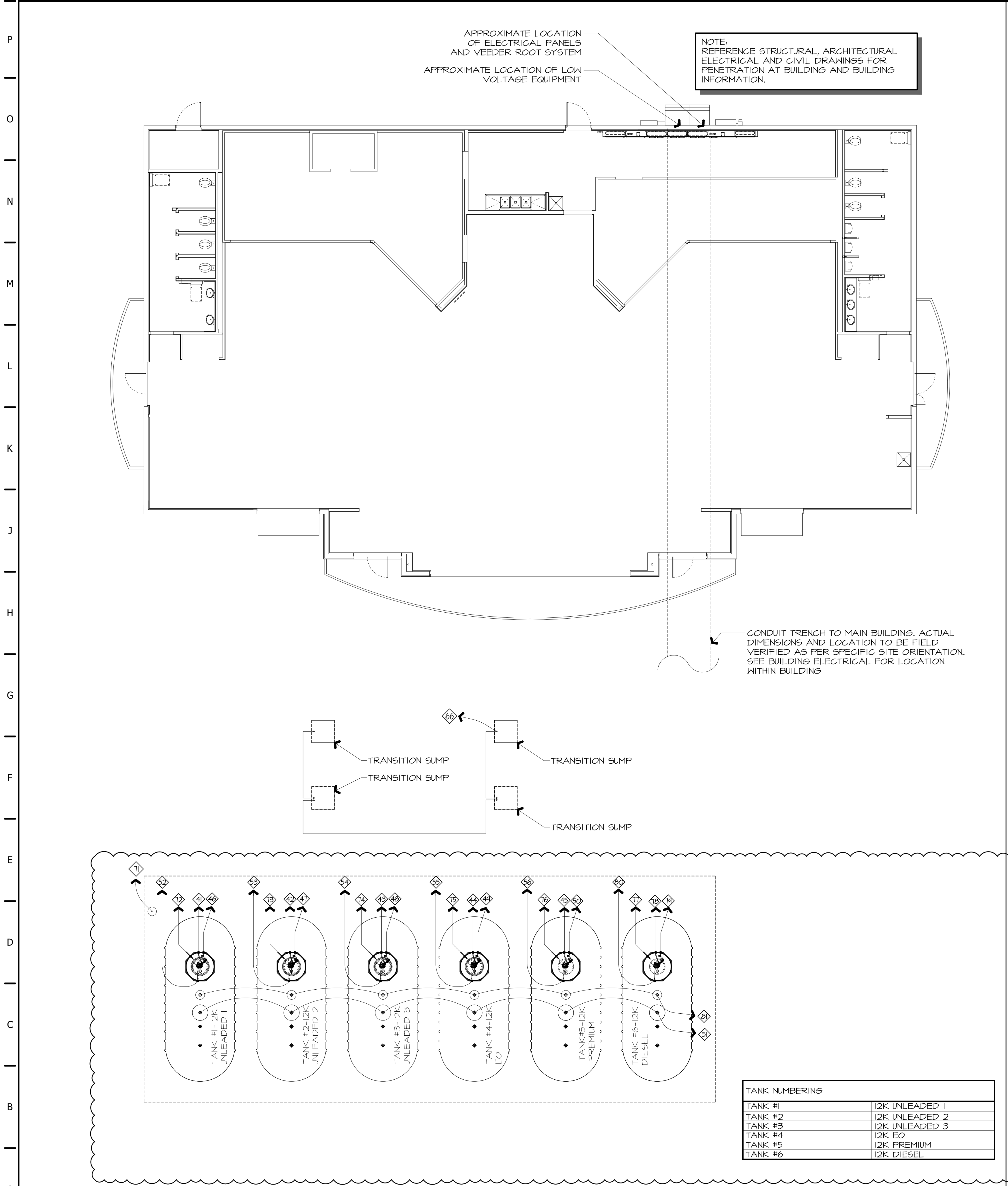
PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
BB	02/07/23	P112 REROLL
BB	05/24/23	TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
XF300



RETAIL/GASOLINE CONDUIT SCHEDULE

NUMBER	DESCRIPTION (TRADE SIZE)	WIRE COUNT PER CONDUIT	TERMINATES TO
1 TO 2 (12 TOTAL)	DISPENSER POWER (3/4") (HOME RUN)	(2)#12, (1)#12G - DISPENSER POWER @ ALL LOCATIONS (5)#12 STP CONTROLLER WIRES TOTAL @ ALL LOCATIONS (2) FUTURE @3+0 / (1) FUTURE @3+1	MAIN ELEC. TROUGH MAIN ELEC. TROUGH
3 TO 4 (12 TOTAL)	DISPENSER DATA (3/4") (HOME RUN)	WINDY CITY WIRE: TWISTED PAIR (VIOLET/BROWN) #032051-1012QT	L.V. ELEC. TROUGH
5 TO 6 (12 TOTAL)	DISPENSER SUMP SENSORS (3/4") (HOME RUN)	(1) #18 WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
7 - 10 (4 TOTAL)	DISPENSER INTERCOM (1" HR - 1" LOOP) (3 DISPENSERS MAX)	(UP TO 6) BELDEN 6502FE (1 PER DISPENSER)	L.V. ELEC. TROUGH
11 TO 15 (5 TOTAL)	STP CTRL/POWER- (3/4") UNLEADED #1 UNLEADED #2 UNLEADED #3 EO PREMIUM (HOME RUN)	(3) #10 STP POWER, (1) #10 GROUND	DEDICATED CONDUIT BACK TO STP CONTROLLERS
16 TO 20 (5 TOTAL)	PLLD / (1) SUMP SENSOR (3/4") (1) CONDUIT PER TANK (HOME RUN)	(2) WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
21	HYDROSTATIC RESERVOIR SENSOR (3/4")	(4) 18 WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
22 TO 26 (5 TOTAL)	UST ATG PROBE (3/4")	(1) WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
27	CANOPY LIGHTING CONDUITS (1")	CANOPY LIGHTING = RE: ARCH MEP	MAIN ELEC. TROUGH
28 - 29 (2 TOTAL)	FUTURE POWER CONDUITS (1") (ROUTE TO JBOX @TOP OF CANOPY)	PULL STRING TO DECK	MAIN ELEC. TROUGH
30 - 31 (2 TOTAL)	FUTURE LOW VOLTAGE CONDUITS (1") (ROUTE TO PULL BOX)	PULL STRING TO PULL BOX	1/5 WIRING TROUGH
32 - 33 (2 TOTAL)	FUTURE DATA CONDUITS (1") (ROUTE TO PULL BOX)	PULL STRING TO PULL BOX	L.V. ELEC. TROUGH
34	CANOPY GROUND WIRE (1-1/4") (ROUTE TO JBOX @TOP OF CANOPY)	FIELD DETERMINED	MAIN ELEC. "T" PANEL
35	SUMP VENT CIRCULATION FAN	FAN = (3) #12 POWER, (1) #12 GROUND	MAIN ELEC. TROUGH
36	TRANSITION SUMP SENSOR (3/4")	(1) #18 WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
37	OBSERVATION WELL SPARE (3/4")	PULL STRING	1/5 WIRING TROUGH
38	EMERGENCY SHUTOFF (3/4")	FIELD DETERMINED (RE ARCH)	MAIN ELEC. TROUGH
39	CANOPY LIGHTING CONDUITS (1") (HOME RUN)	CANOPY LIGHTING = RE: ARCH MEP	MAIN ELEC. TROUGH
40 - 41 (2 TOTAL)	SECURITY CAMERA HOMERUN (1")	FIELD DETERMINED	FIELD DETERMINED
42 - 43 (2 TOTAL)	PLLD GROUND (3/4")	#10 AWG GROUND THIN2 (1 PER PLLD)	PLLD & TLS GROUND BARRIER
44	STP CTRL/POWER- (3/4") DIESEL (HOME RUN)	(3) #10 STP POWER, (1) #10 GROUND	DEDICATED CONDUIT BACK TO STP CONTROLLERS
45	PLLD / (1) SUMP SENSOR (3/4") (1) CONDUIT PER TANK (HOME RUN)	(2) WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
46	UST ATG PROBE (3/4")	(1) WINDY CITY 18 AWG SHIELDED CABLE	1/5 WIRING TROUGH
47	DRY-ANNULAR SENSOR (3/4")	(5) #18 WINDY CITY WIRE 18AWG SHIELDED CABLE	1/5 WIRING TROUGH

NOTE: ALL FUTURE USE CONDUITS SHALL EXTEND 12 INCHES ABOVE CANOPY DECK AND BE SEALED WITH WEATHER PROOF JUNCTION BOX.

NOTE: WINDY CITY WIRE CONTACT INFORMATION: KIMBERLY DePAOLA 1.800.374.1191 KDEPAOLA@SMARTWIRE.COM

NOTE: WINDY CITY WIRE TO BE PROVIDED BY QUIKTRIP.

CORE STATES, INC. LICENSED ELECTRICAL CONTRACTOR #03449 EXPIRES 07-31-2023
DDF JOB #: 21.0024

CORE STATES GROUP

1700 W. WINDY CITY BLVD. SUITE B
ROUND ROCK, TEXAS 78664
PH: (737) 319-4400
FAX: (737) 319-4400

QuikTrip No. 4166

701 W. SETTLERS BLVD
ROUND ROCK, TEXAS

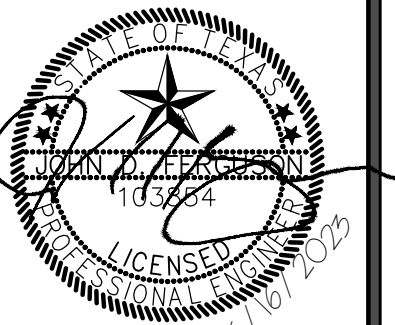
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1	02/07/23	P112 REROLL
2	05/24/23	TANK REVISION

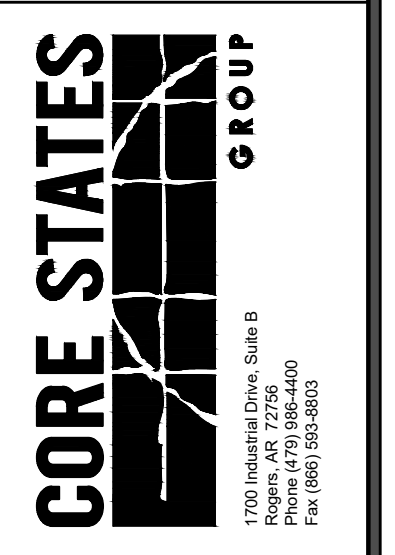
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
UST AREA CONDUIT LAYOUT

SHEET NUMBER:
XF301



CORE STATES, INC.
CERTIFICATE OF AUTHORIZATION
#0349
EXPIRES 07-31-2023
DDF JOB #: 21.0024



QuikTrip No. 4166
701 W SETTLERS BLVD
ROUND ROCK, TEXAS



PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
02/07/23		P112 REROLL

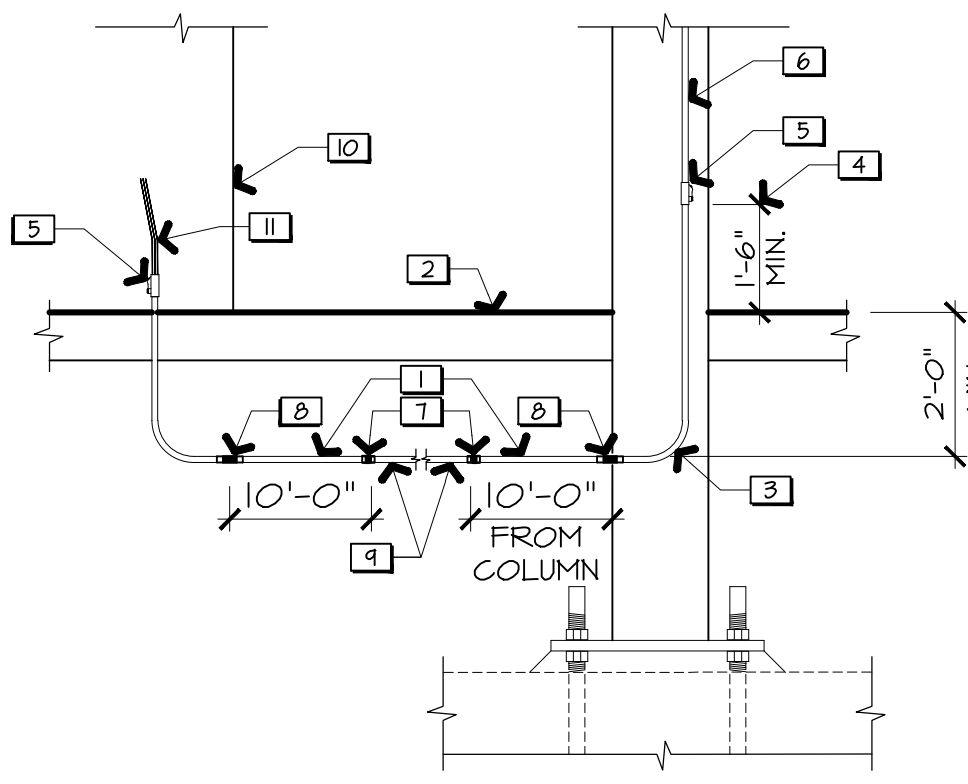
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
CONDUIT GENERAL
INFORMATION &
DETAILS

SHEET NUMBER:
XF302

- 1 PVC COATED RIGID STEEL CONDUIT 10'-0" HORIZONTALLY FROM COLUMN.
- 2 FINISHED GRAD.
- 3 TURN CONDUIT UP INSIDE CANOPY COLUMN.
- 4 COORDINATE WITH CANOPY MANUFACTURER HEIGHT OF ACCESS PANEL REQUIRED (18" MIN).
- 5 SEAL FITTING WHERE REQUIRED & SPECIFIED.
- 6 RIGID STEEL CONDUIT TO CANOPY DECK, SIZE AS NOTED ON SCHEDULE.
- 7 PVC FEMALE ADAPTER W/ ROBROY SEALING LOCK RING. (REFER TO XF-304/A1)
- 8 ROYROY PVC COATED RIGID METAL CONDUIT. SIZE AS NOTED ON SCHEDULE. (REFER TO XF-304/A1)
- 9 NON-METALLIC CONDUIT (RIGID PVC) SIZE AS NOTED ON SCHEDULE.
- 10 ELECTRICAL DISTRIBUTION EQUIPMENT.
- 11 ELECTRICAL CIRCUIT WIRING.

NOTE:
ANY EXPOSED PVC COATED RIGID STEEL CONDUIT SHALL BE COATED WITH PLASTI-BOND EPOXY TOUCH UP COMPOUND AT CONNECTIONS.



CONDUITS CONDITIONS
1. STP/TURBINE POWER
STP POWER CONDUITS, PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC TO WITHIN 10' OF THE STP SUMPS, WHERE THE CONDUIT SHALL TRANSITION TO PVC COATED RIGID STEEL FOR THE PENETRATIONS.

2. TANK FARM AREA
FOR TANK FARM EQUIPMENT, PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC TO WITHIN 10' OF THE TANK FARM EQUIPMENT WHERE THE CONDUIT SHALL TRANSITION TO PVC COATED RIGID STEEL FOR THE PENETRATIONS OR CONNECTION TO JBOX.

3. DISPENSER AREA
FOR DISPENSERS, PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC TO WITHIN 10' OF THE DISPENSER AND/OR TRANSITION SUMPS, WHERE THE CONDUIT SHALL TRANSITION TO PVC COATED RIGID STEEL FOR THE PENETRATIONS.

4. CANOPY AREA:
FOR CANOPY, PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC TO WITHIN 10' OF THE CANOPY WHERE THE CONDUIT SHALL TRANSITION TO PVC COATED RIGID STEEL FOR ALL CONNECTIONS TO THE CANOPY.

H1 CONDUIT STUB-UP DETAIL (B5)
NTS.

GENERAL INFORMATION

I. SITE PREPARATION :
A. CONTRACTOR IS TO ENSURE ALL EXISTING UTILITIES ARE LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.

2. EQUIPMENT :
A. ALL EQUIPMENT INSTALLATIONS MUST COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF N.E.C. LATEST EDITION AND NFPA 30A. ALL COMPONENTS FOR ELECTRICAL INSTALLATIONS MUST BE UL RATED, BEAR THE UL SEAL, AND COMPLY WITH N.E.C. ARTICLE 110-3, 514-3 AND 514-4. ALL WORKING CLEARANCES IN FRONT OF PANELS AND EQUIPMENT SHALL BE MAINTAINED.
B. THE WIRE SIZES SHALL BE INCREASED IF NECESSARY AS REQUIRED BY NEC. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING REVISED CONDUIT SIZE.

3. CONDUIT :
A. FOR EACH ELECTRICAL RACEWAY SYSTEM INDICATED, PROVIDE A COMPLETE ASSEMBLY OF CONDUIT WITH FITTINGS, INCLUDING, BUT NOT NECESSARILY LIMITED TO, CONNECTORS, NIPPLES, COUPLINGS, EXPANSION FITTINGS, BUSHINGS LOCKOUTS, OTHER COMPONENTS AND ACCESSORIES AS NEEDED TO FORM A COMPLETE SYSTEM OF THE TYPE INDICATED, AND AS REQUIRED BY THE NEC.
B. ALL CONDUIT WITHIN CLASS I AREA SHALL BE PVC COATED HEAVY WALL STEEL EXCEPT AS NOTED OTHERWISE ON THE DRAWINGS. PVC CONDUIT IS ACCEPTABLE FOR USE OUTSIDE CLASS I DIV I AREA. CONTRACTOR MAY SWITCH TO PVC CONDUIT OUTSIDE OF CLASS I AREA PROVIDED ALL INSTALLATIONS COMPLY WITH THE NATIONAL ELECTRICAL CODE AND NFPA 30A. ALL TRANSITION FITTINGS ARE TO BE UL APPROVED FOR DIRECT BURIAL. ALL CONDUIT SHALL BE FREE OF FOREIGN MATTER FROM OBSTRUCTING THE CONDUIT. ALL WIRING AND FITTINGS SHALL BE CLASS I, GROUP O, AS REQUIRED BY CODE. ALL REQUIRED SEAL-OFF FITTINGS SHALL BE PROPERLY SEALED. SEAL SHALL BE POURED AFTER TESTING PROCEDURES ARE COMPLETE.
C. CONDUIT RUNS EXCEEDING 25 FEET IN LENGTH SHALL BE EQUIPPED WITH SUITABLE WIRE INSERT TO ENABLE THE PULLING OF A FISH TAPE FOR ADDITIONAL WIRING.
D. WHERE APPLICABLE ALL CONDUIT SHALL BE RIGIDLY SUPPORTED FROM STRUCTURAL MEMBERS WITH MALLEABLE IRON CONDUIT CLAMPS. NOT TO EXCEED 8 FEET ON CENTER. ALL THREAD IS NOT ACCEPTABLE FOR MOUNTING, USE U-BOLTS INSTEAD.
E. PROVIDE CONDUIT AND FITTINGS AS INDICATED.
1. PVC COATED RIGID STEEL CONDUIT.
2. RIGID STEEL CONDUIT FITTINGS : ANSI C80.4.
3. FLEXIBLE METAL CONDUIT :
A. LIQUID-TIGHT FLEXIBLE METAL CONDUIT : LIQUID-TIGHT FLEXIBLE METAL CONDUIT COMPRISED OF SINGLE STRIP, CONTINUOUS, FLEXIBLE, INTERLOCKED, DOUBLE-WRAPPED STEEL, GALVANIZED INSIDE AND OUTSIDE, FORMING SMOOTH INTERNAL WIRING CHANNEL WITH LIQUID-TIGHT JACKET OF FLEXIBLE PVC.
B. LIQUID-TIGHT FLEXIBLE METAL CONDUIT FITTINGS: LIQUID-TIGHT, ZINC COATED STEEL. PROVIDE FITTINGS BY CROUSE-HINDS, APPLETON OR EQUAL. FITTINGS SHALL HAVE RUBBER OR NEOPRENE GASKETS WHERE INSTALLED IN DAMP AREAS. FITTINGS INSTALLED IN HAZARDOUS AREA SHALL COMPLY WITH NEC AND UL 885.
F. ALL PENETRATIONS THROUGH RATED WALL AND ROOF ASSEMBLIES MUST CONFORM TO UL STANDARD PENETRATION DETAIL, (SYSTEM #F-C-5010), NEC, AND ALL APPLICABLE LOCAL CODES.

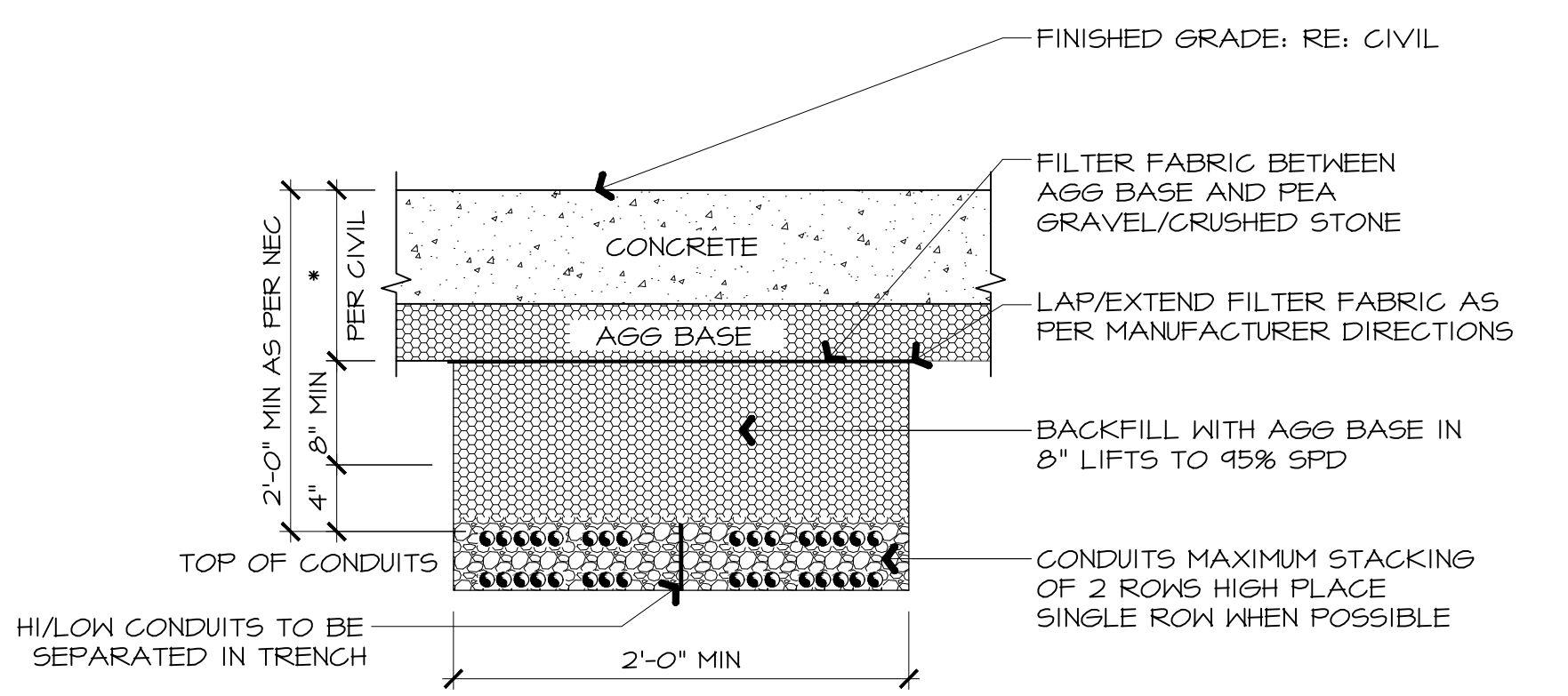
6. ALL PENETRATIONS THROUGH RATED SLAB ASSEMBLIES MUST CONFORM TO UL STANDARD PENETRATION DETAIL, (SYSTEM #C-AJ-1064), NEC, AND ALL APPLICABLE LOCAL CODES.

H. MAGNETIC SAFETY TAPE SHALL BE INSTALLED ABOVE ALL UNDERGROUND PRODUCT PIPING AND ELECTRICAL CONDUIT.

I. ALL CONDUIT LAYOUTS SHOWN ARE FOR REFERENCE ONLY. ACTUAL FIELD INSTALLATION MAY VARY DUE TO MECHANICAL PIPING INTERFERENCE.

4. CABLE AND WIRE CONNECTORS :
A. WIRE AND CABLE: PROVIDE FACTORY-FABRICATED WIRE AND CABLE OF THE SAME SIZE RATING, MATERIAL AND TYPE AS INDICATED FOR EACH USE, AS SPECIFIED OR UNLESS NOTED OTHERWISE.
B. CONDUCTORS: PROVIDE SOFT OR ANNEALED COPPER WIRES MEETING, BEFORE STRANDING, THE REQUIREMENTS OF ASTM B-3, STANDARD SPECIFICATIONS FOR SOFT OR ANNEALED COPPER WIRE FOR ELECTRICAL PURPOSES, LATEST EDITION.
1. CONDUCTORS FOR POWER AND CONTROL WIRING SHALL BE STRANDED COPPER.
NO ALUMINUM OR COPPER CLAD ALUMINUM WIRING IS PERMITTED.
2. THE MINIMUM SIZE FOR POWER WIRING IS #12 AWG UNLESS STATED OTHERWISE ON THE DRAWINGS.
C. INSTALLATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 83, STANDARD FOR THERMOPLASTIC INSULATION WIRES.
1. INSULATION FOR CONDUCTORS SIZED NO. 18 AWG THROUGH NO. 16 AWG SHALL BE UL TYPE TFFN GASOLINE AND OIL RESISTANT AND BE SO MARKED.
2. INSULATION FOR CONDUCTORS SIZED NO. 14 AWG THROUGH NO. 8 AWG SHALL BE UL TYPE THHN/THWN GASOLINE AND OIL RESISTANT AND BE SO MARKED.
3. ALL WIRING INSIDE LIGHTING FIXTURES SHALL BE TEMPERATURE RATED PER THE NEC.
D. CONNECTORS FOR BUILDING WIRE AND CABLE: PROVIDE FACTORY-FABRICATED, METAL CONNECTORS OF THE SIZE, RATING, MATERIAL TYPE, AND CLASS REQUIRED FOR EACH USE.
1. TERMINAL LUGS ARE TO BE USED WHENEVER POSSIBLE. CONNECTORS FOR CONDUCTORS UP TO A MAXIMUM OF NO. 6 AWG WIRE WITH TWO NO. 8 AWG WIRES MAY USE TWIST-ON PRESSURE CONNECTORS OF REQUIRED SIZE. LUG/BOLTED CONNECTIONS ARE REQUIRED FOR ALL CONDUCTORS LARGER THAN #6 AWG.
2. ALL MOTOR LEADS, #10 AWG OR LARGER, SHALL BE CONNECTED USING PRESSURE FITTED LUGS AND BOLTED.
3. SPLICES ARE NOT PERMITTED IN FEEDERS, MOTOR LEADS, OR COMMUNICATION/DATA WIRING.
4. THE USE OF TERMINAL STRIPS FOR WIRING CONNECTIONS IS ENCOURAGED EXCEPT WHEN IN CONFLICT WITH #3 ABOVE.

5. WIRING NOTES :
DISPENSER POWER SUPPLY WIRING :
A. CONDUCTOR: #14 AWG (MINIMUM), USE WIRES RATED AT LEAST 90 C (194 F)
B. VOLTAGE RATING: MAXIMUM OPERATING VOLTAGE OF 600V
C. ENVIRONMENTAL: GAS AND OIL RESISTANT, UL LISTED WIRE; SUITABLE FOR WET OR DRY LOCATIONS



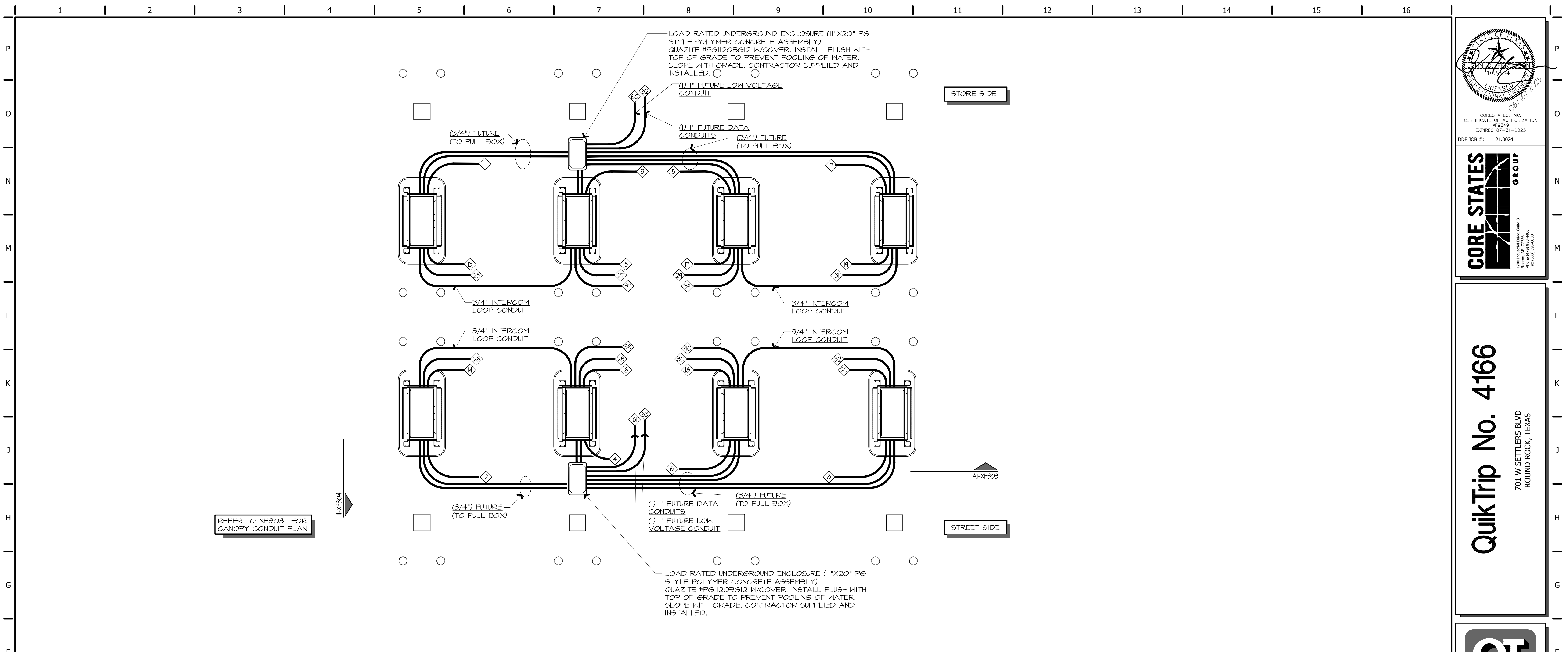
WHEN PLACING ELECTRICAL CONDUITS FROM THE TANK PIT TO THE BUILDING, THIS SPECIFICATION SHALL BE FOLLOWED TO INSURE RUNOFF IS NOT INTRODUCED INTO THE TANK PIT, OR OUT OF THE TANK PIT AND TOWARD THE BUILDING.

CONTRACTOR NOTE:
CONTRACTOR TO SEPARATE HIGH AND LOW VOLTAGE CONDUITS WITHIN THE CONDUIT TRENCH.

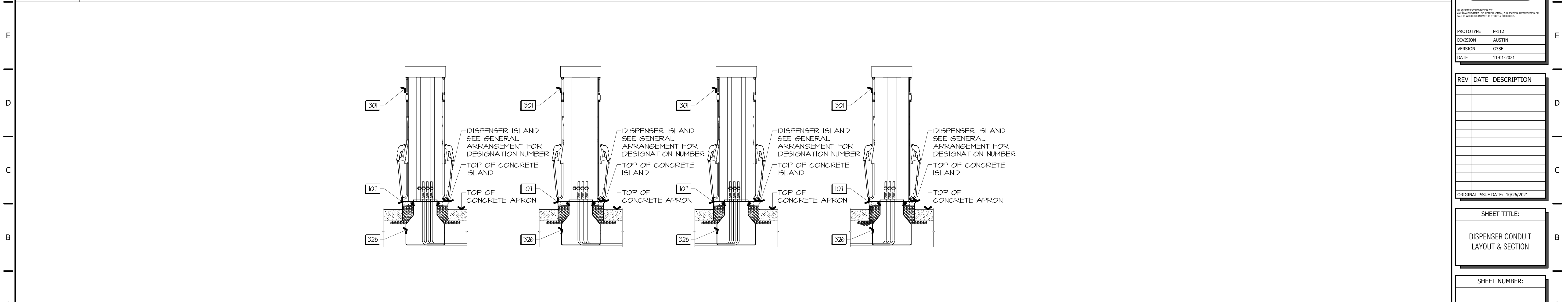
CONTRACTOR NOTE:
ELECTRICAL CONDUIT TRENCH FILTER FABRIC NOT NEEDED IF AGG BASE IS USED FOR THE ENTIRE BACKFILL.

A1 ELECTRICAL CONDUIT TRENCH SECTION FROM TANK PIT TO BUILDING
NTS.

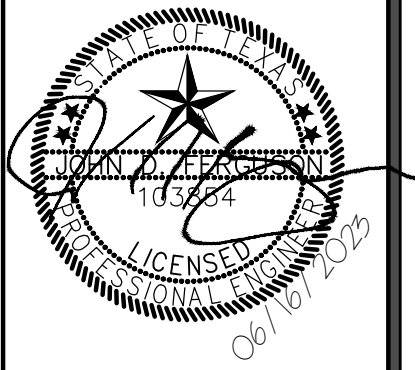
A7 GENERAL INFORMATION
NTS.



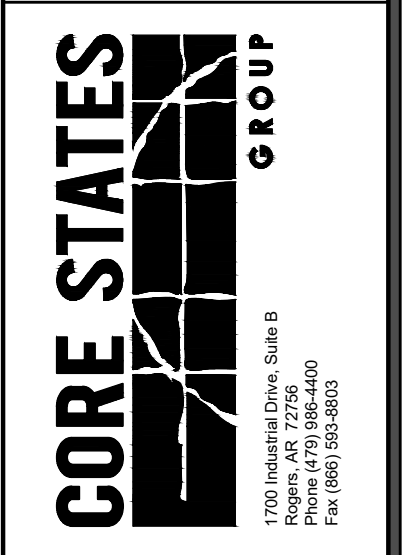
F1 DISPENSER SUMP CONDUIT - PLAN
3/8"=1'-0" A1-XF303



A1 DISPENSER CONDUIT SECTION
3/8"=1'-0" F1-XF303



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CERTIFICATE OF AUTHORIZATION
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QuikTrip No. 4166
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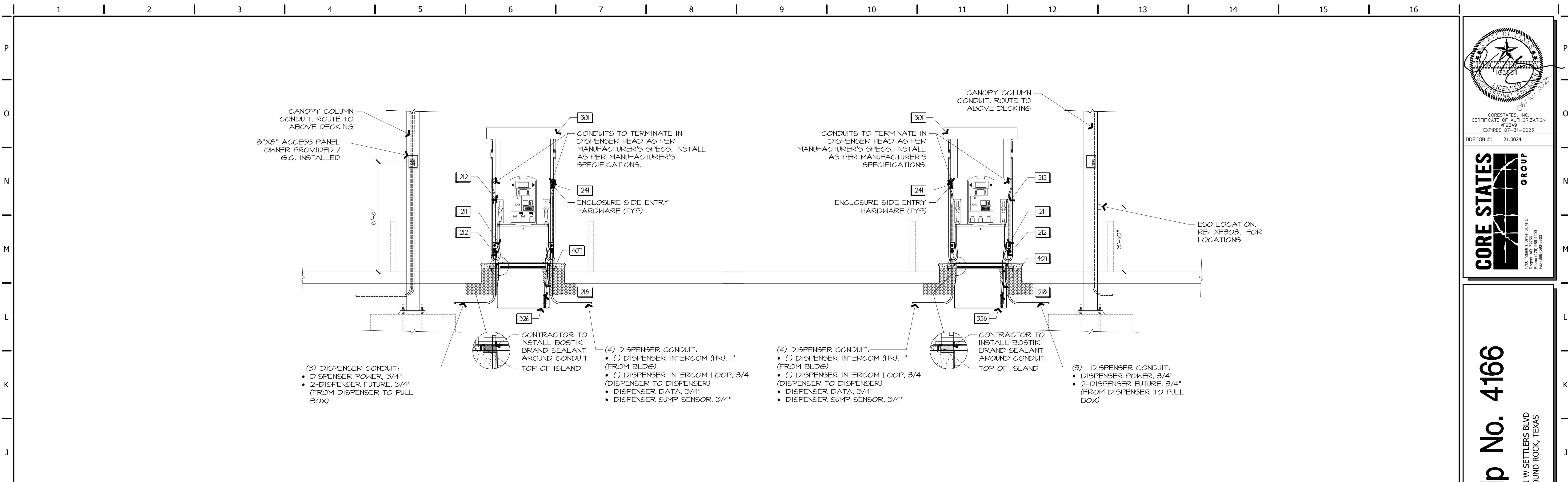
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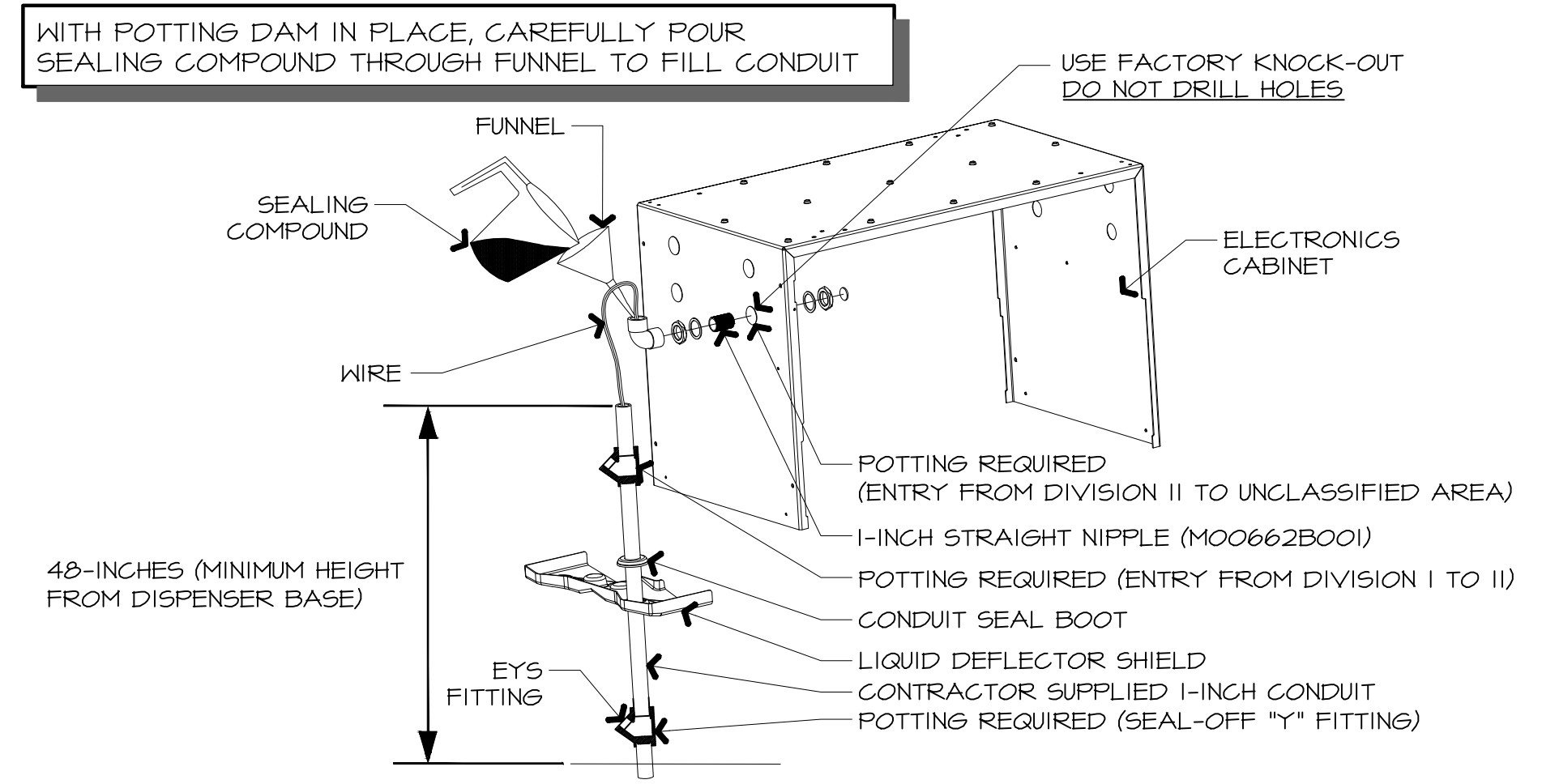
SHEET TITLE:
DISPENSER CONDUIT LAYOUT & SECTION

SHEET NUMBER:
XF303

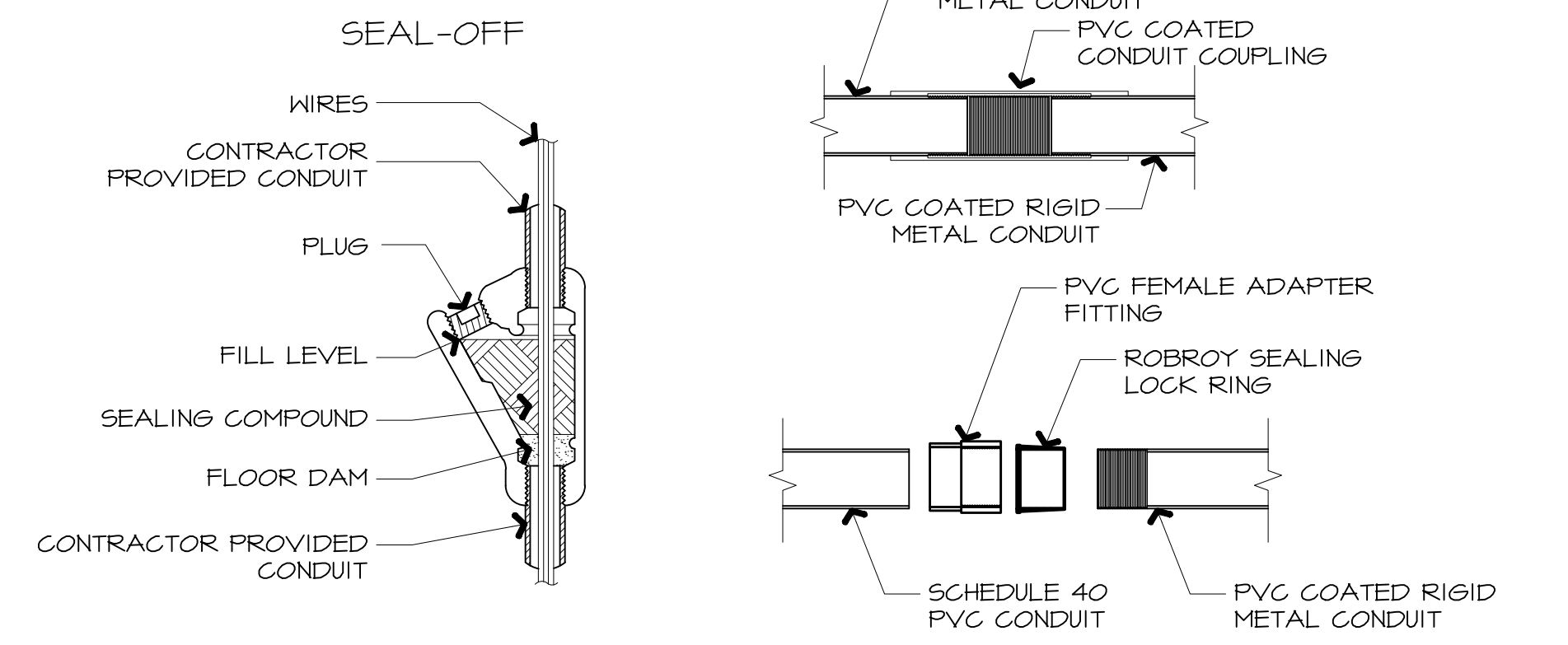


H1 DISPENSER CONDUIT ELEVATION

3/8" = 1'-0" F1-XF303



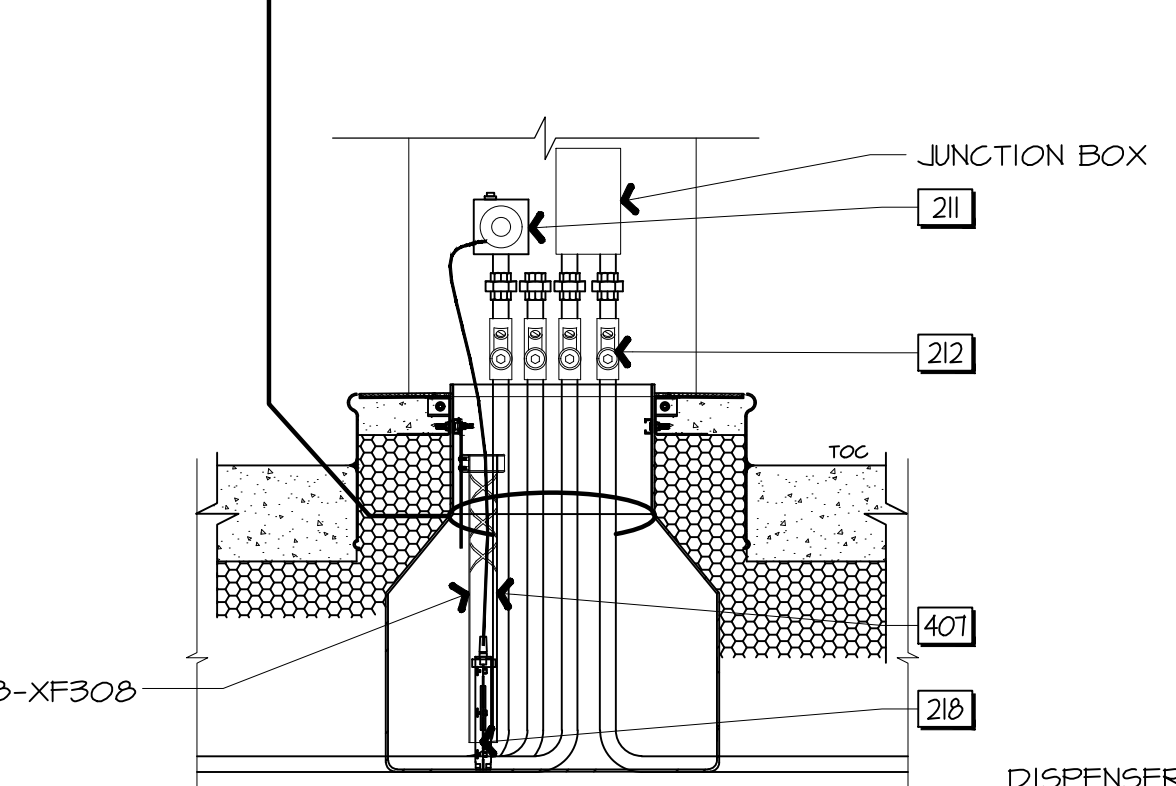
NOTE: THIS DEFLECTOR SHIELD IS ONLY USED FOR UNITS ORIGINALLY EQUIPPED WITH ONE. IT IS NOT NECESSARY FOR SIDE ELECTRONICS CABINET CONDUIT ENTRY INSTALLATIONS ON UNITS ORIGINALLY EQUIPPED WITHOUT THE SHIELD.



A1 REQUIRED CONDUIT SEAL DETAILS

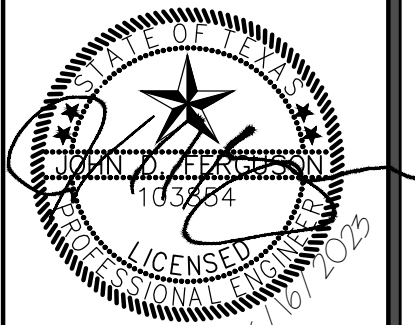
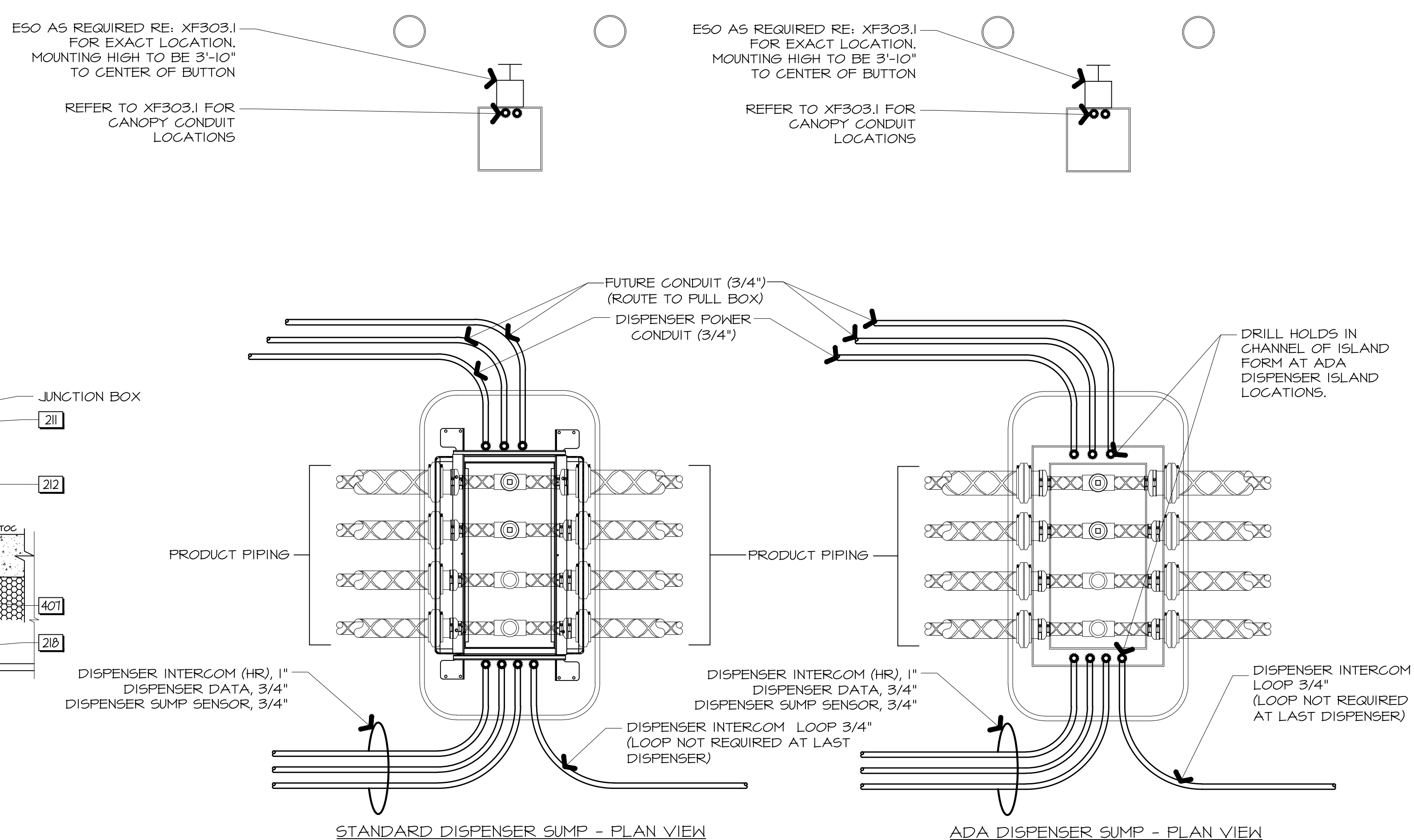
N.T.S.

- (7) DISPENSER CONDUIT (TOTAL):
- DISPENSER POWER, 3/4" (BEYOND) (FROM BLDG)
 - FUTURE, 3/4" (BEYOND) (ROUTE TO FULL BOX)
 - FUTURE, 3/4" (BEYOND) (ROUTE TO FULL BOX)
 - (1) DISPENSER INTERCOM, 3/4" (FROM BLDG OR DISPENSER)
 - (1) DISPENSER INTERCOM LOOP, 3/4" (DISPENSER TO DISPENSER)
 - DISPENSER DATA, 3/4" (FROM BLDG)
 - DISPENSER SUMP SENSOR, 3/4" (FROM BLDG)

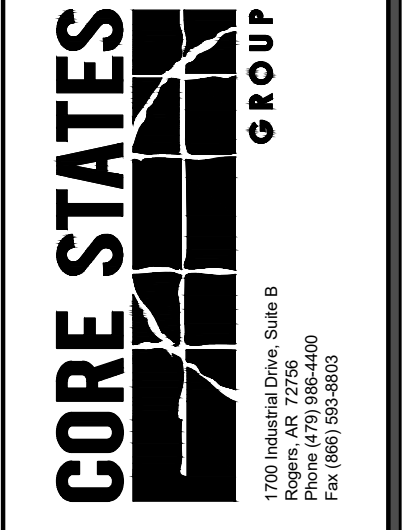


A6 DISPENSER CONDUIT DETAIL

N.T.S.



CORE STATES, INC.
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 #0349
 EXPIRES 07-31-2023
 DDF JOB #: 21.0024



QuikTrip No. 4166
 701 W SETTLERS BLVD
 ROUND ROCK, TEXAS



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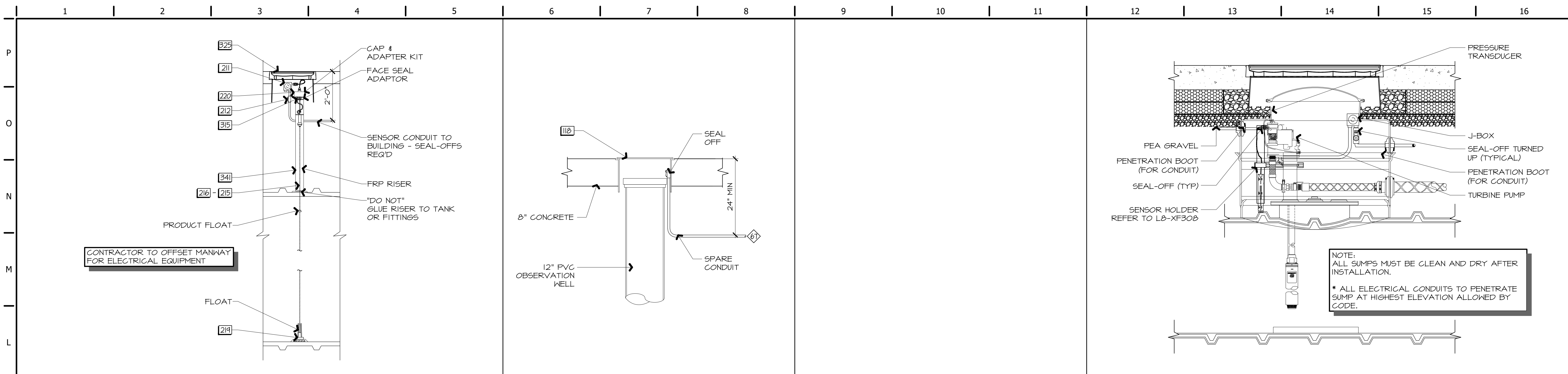
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DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
02/07/23		P112 REROLL

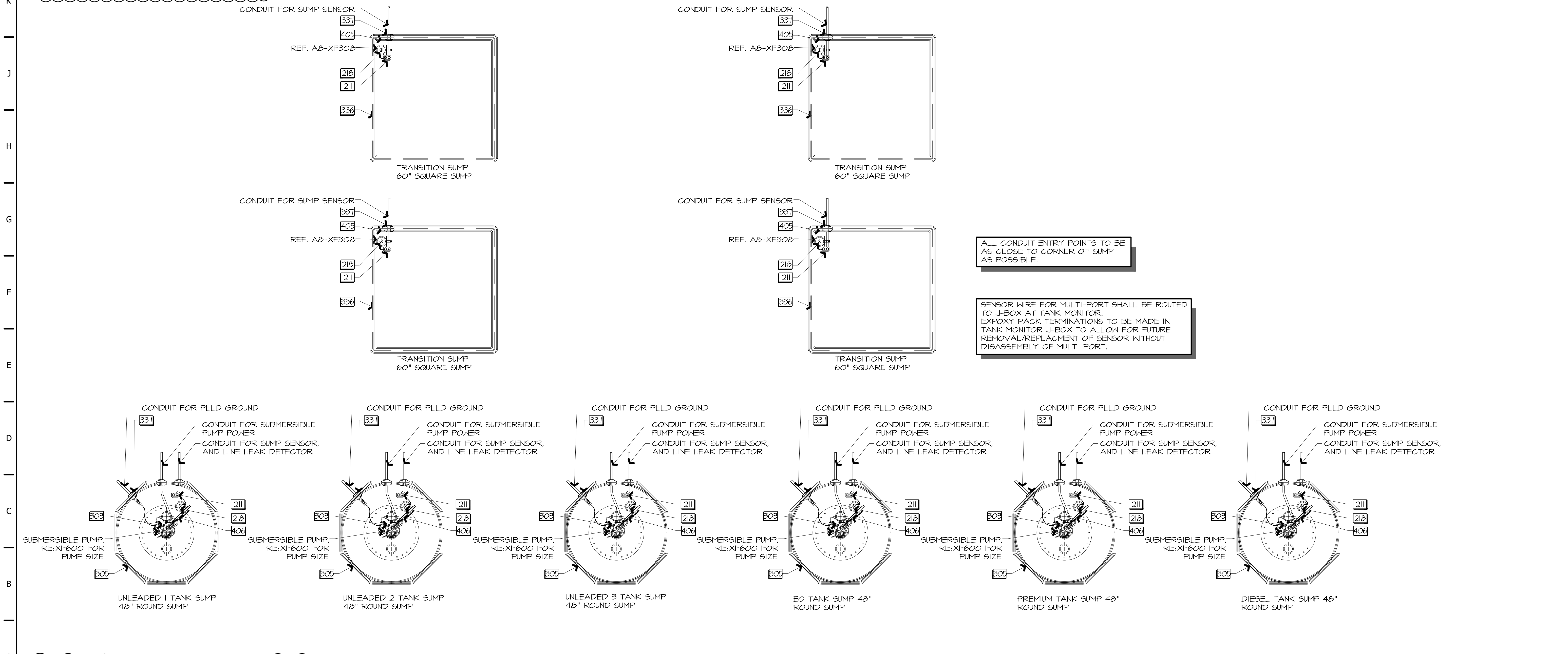
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 DISPENSER CONDUIT LAYOUT & DETAILS

SHEET NUMBER:
 XF304



K1	AUTOMATIC TANK GAUGE	K6	OBSERVATION WELL	K9	NOT USED	K12	TANK SUMP ELECTRICAL ELEVATION
1/2" = 1'-0"	AB/US-XF203 A1/E1-XF305 A1/J1-XF402 A1-XF412	N.T.S.	E1/J1-XF305			3/4" = 1'-0"	A1/E1-XF305



ALL CONDUIT ENTRY POINTS TO BE AS CLOSE TO CORNER OF SUMP AS POSSIBLE.

SENSOR WIRE FOR MULTI-PORT SHALL BE ROUTED TO J-BOX AT TANK MONITOR. EXPOXY PACK TERMINATIONS TO BE MADE IN TANK MONITOR J-BOX TO ALLOW FOR FUTURE REMOVAL/REPLACEMENT OF SENSOR WITHOUT DISASSEMBLY OF MULTI-PORT.

A1	TANK & TRANSITION SUMP ELECTRICAL PLAN
1/2" = 1'-0"	

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(B)	02/07/23	P112 REROLL
(B)	05/24/23	TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
UST CONDUIT LAYOUT & DETAILS

SHEET NUMBER:
XF306

SENSING OPTIONS

VEEDER ROOT CONSOLE TLS 450 c/w PRINTER		VR-860090-100		
QTY	MODULE MODEL #	SENSOR/PROBE MODEL #	MODEL NUMBER	QTY
2	UNIVERSAL SENSOR/PROBE MODULE VR-332812-001	DUAL-POINT SINGLE FLOAT HYDROSTATIC SENSOR	794380-303	6
		NON-DISCRIMINATING DISPENSER PAN AND CONTAINMENT SUMP SENSORS	794380-208 (w/12' CABLE) 794380-209 (w/30' CABLE)	18 -
		MAG PLUS MAGNETOSTRICTIVE TANK LEVEL MONITOR PROBE	846396-109 (10') USE ON 10'-0" TANK 846396-111 (11') USE ON 10'-6" TANK 846396-112 (12') USE ON 11'-6" TANK	6 - -
		VEEDER-ROOT DRY INTERSTITIAL TANK SENSOR	794390-409 (11') USE ON 10'-6" TANK	6
1	UNIVERSAL INPUT/OUTPUT MODULE VR-332813-001	PLLD LINE LEAK SENSOR	859080-001 (F.E. PETRO PUMPS)	4

COMMUNICATIONS OPTIONS

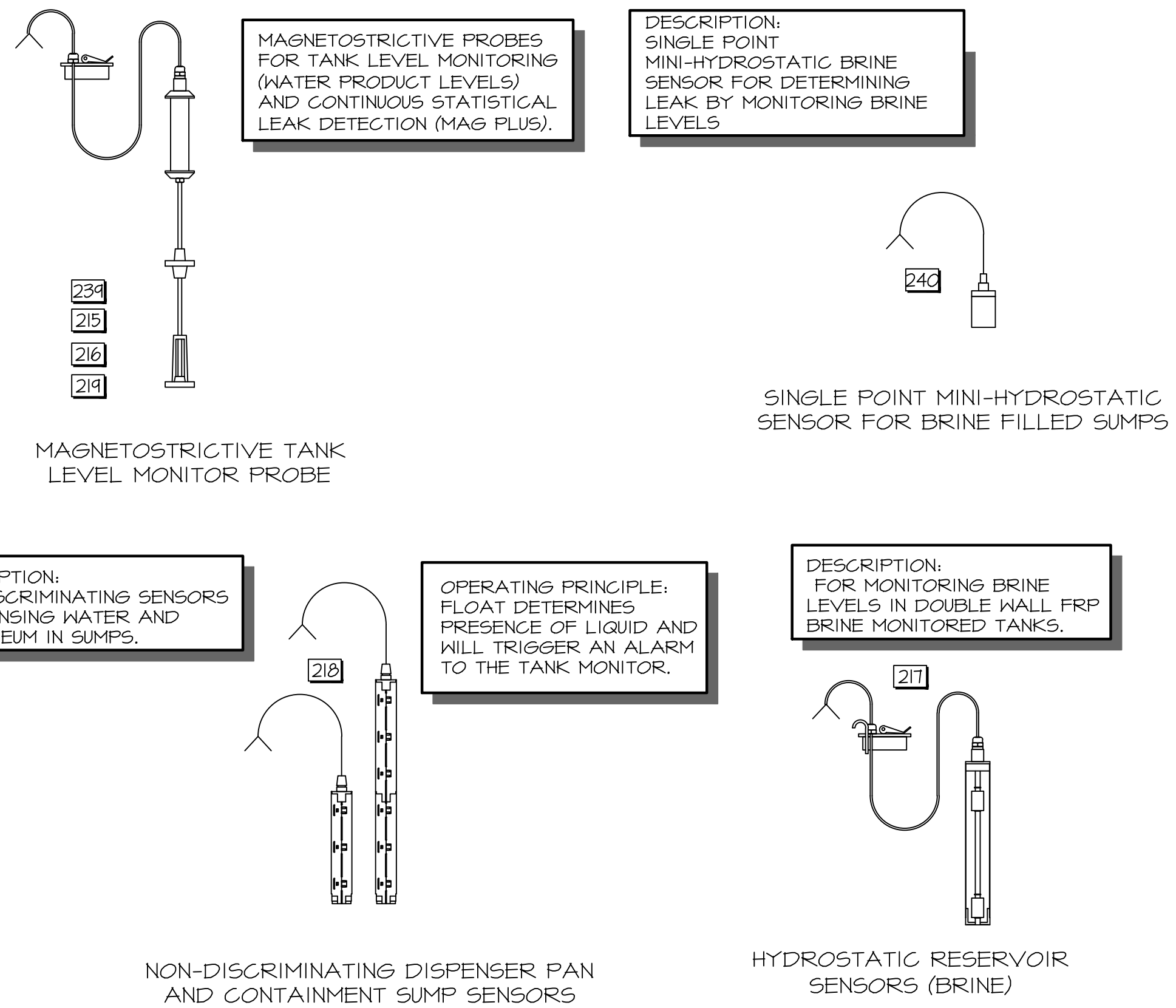
RISK MGMT LEAK DETECTION PLLD	VR-32912-008	1
USB/ETHERNET DUAL MODULE	INCLUDED W/TLS 450 CONSOLE	-
RS-232 DUAL INTERFACE MODULE	INCLUDED W/TLS 450 CONSOLE	-
PRINTER INTERFACE	INCLUDED W/TLS 450 CONSOLE	-

HARDWARE/SOFTWARE

PROBE INSTALLATION KITS (GASOLINE)	849800-000	5
PROBE INSTALLATION KITS (DIESEL)	849800-001	1
4" COMPOSITE CAP AND RING KIT (MAG PROBES)	312020-282	-
SUMP SENSOR MOUNTING KIT	330020-012	-
4" METAL CAP AND RING KIT (MAG PROBES)	312020-452	6

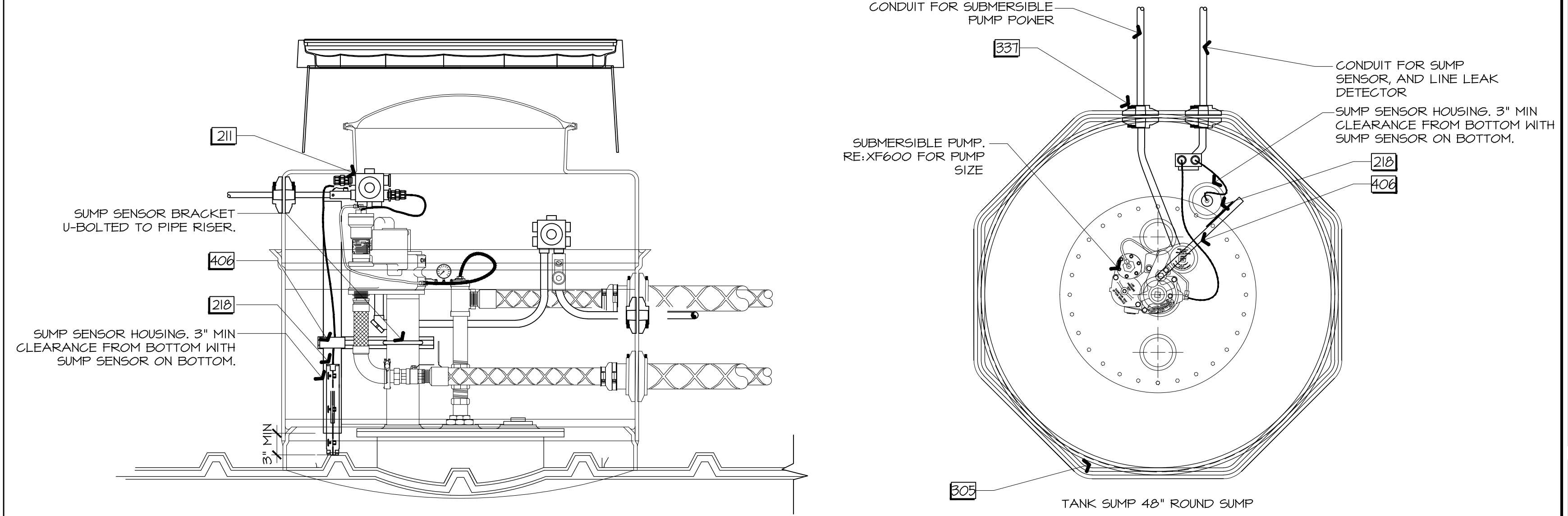
H1 SCHEDULES

N.T.S.



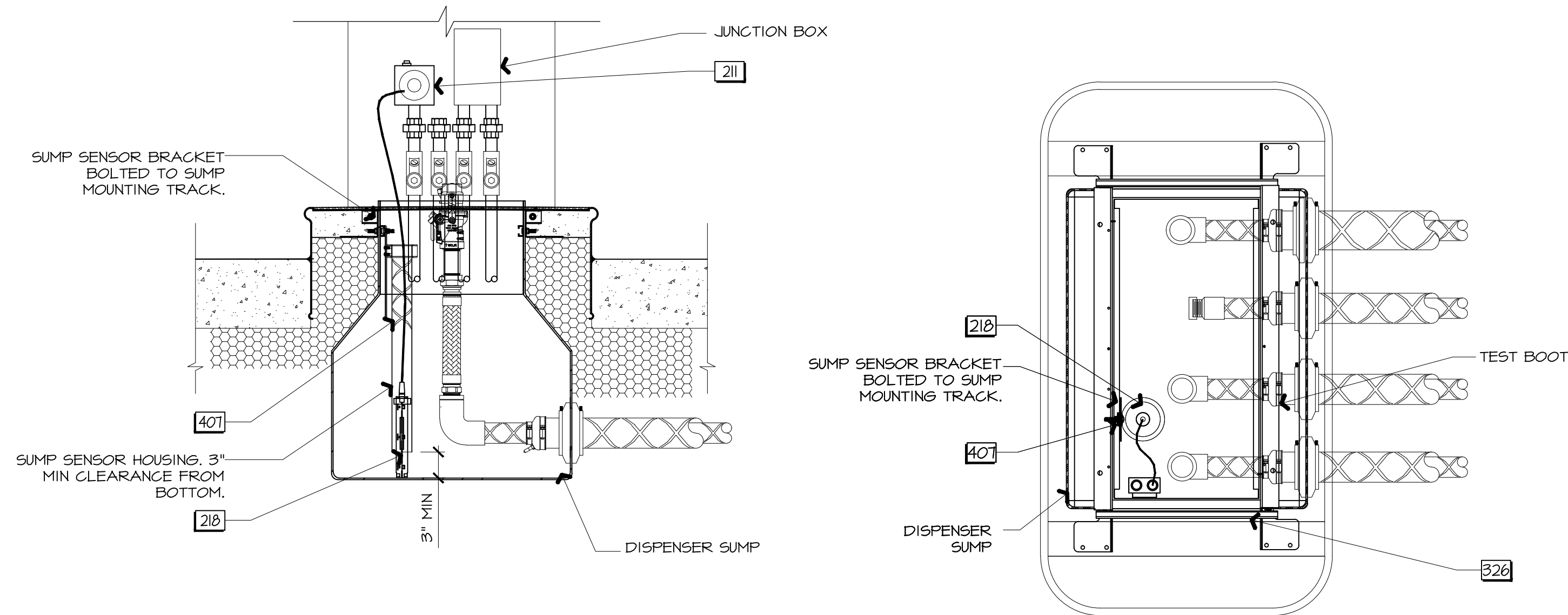
A1 VEEDER DETAILS

N.T.S.



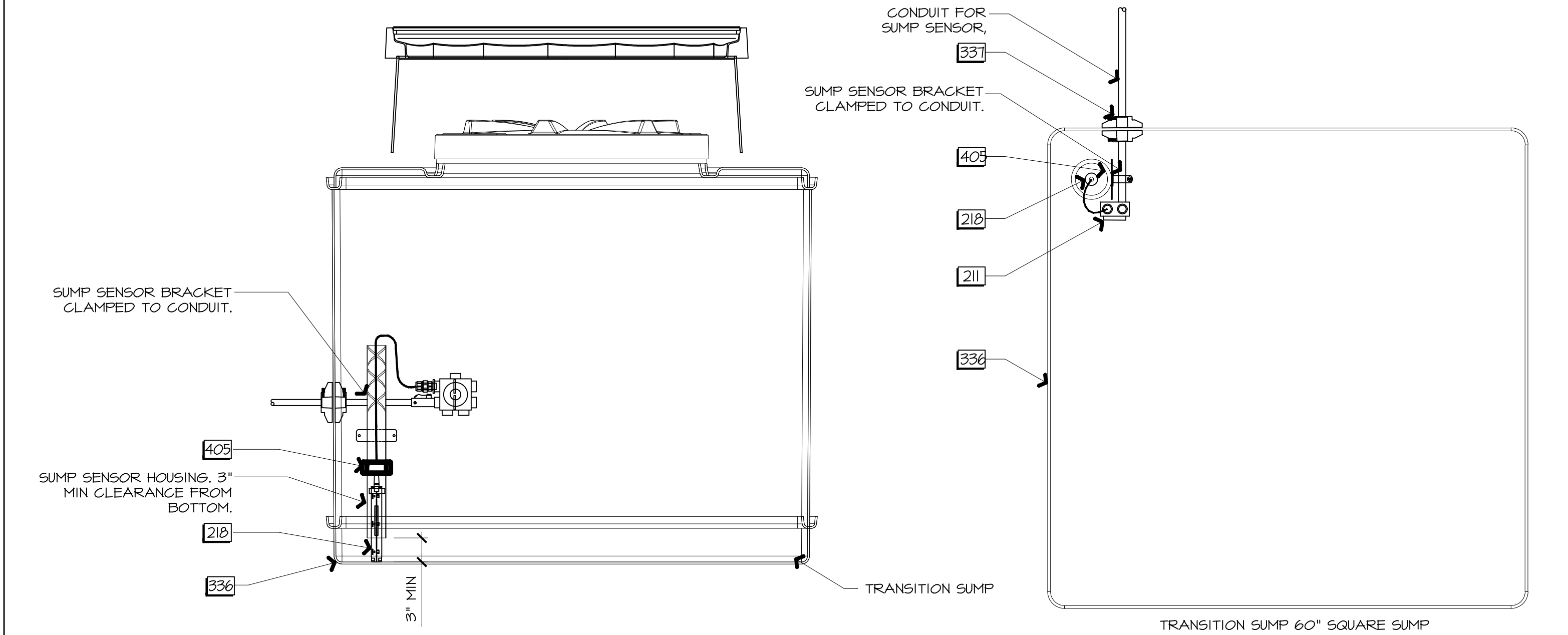
L8 STP SUMP SENSOR

1" = 1'-0"



F8 DISPENSER SUMP SENSOR

1" = 1'-0"



A8 TRANSITION SUMP SENSOR

1" = 1'-0"

CORE STATES GROUP
 LICENSED PROFESSIONAL ENGINEER
 CORE STATES, INC.
 CERTIFICATE OF AUTHORIZATION #0349
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 DDF JOB #: 21.0024

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QT

PROTOTYPE: P-112
 DIVISION: AUSTIN
 VERSION: G3SE
 DATE: 11-01-2021

REV	DATE	DESCRIPTION
BE	02/07/23	P112 REROLL
BE	05/24/23	TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 VEEDER ROOT SCHEDULE & DETAILS

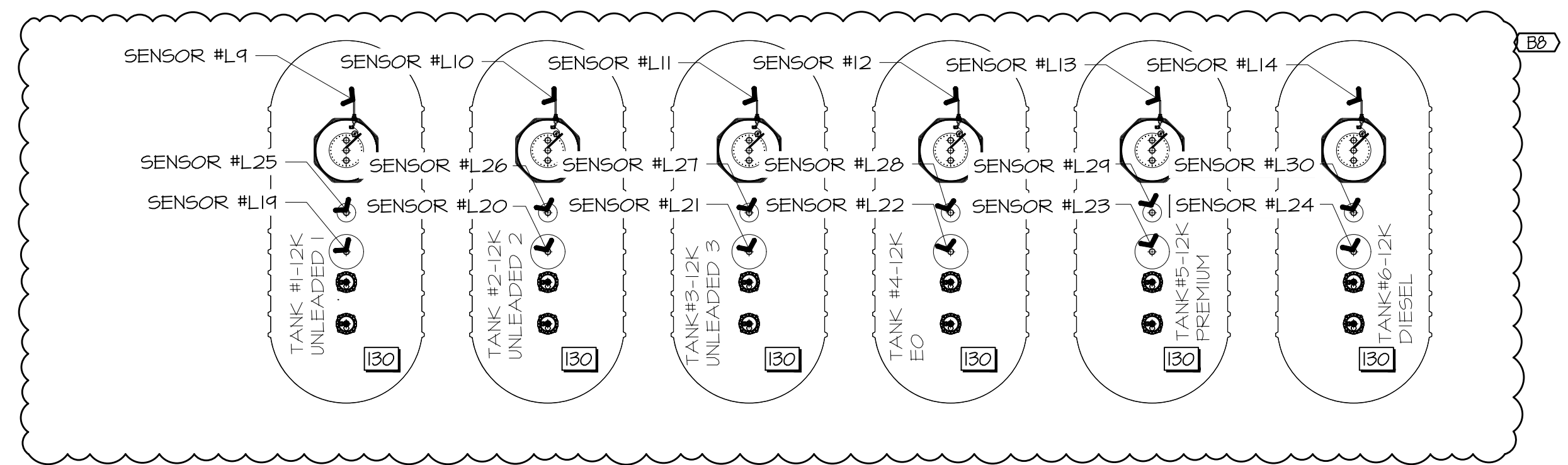
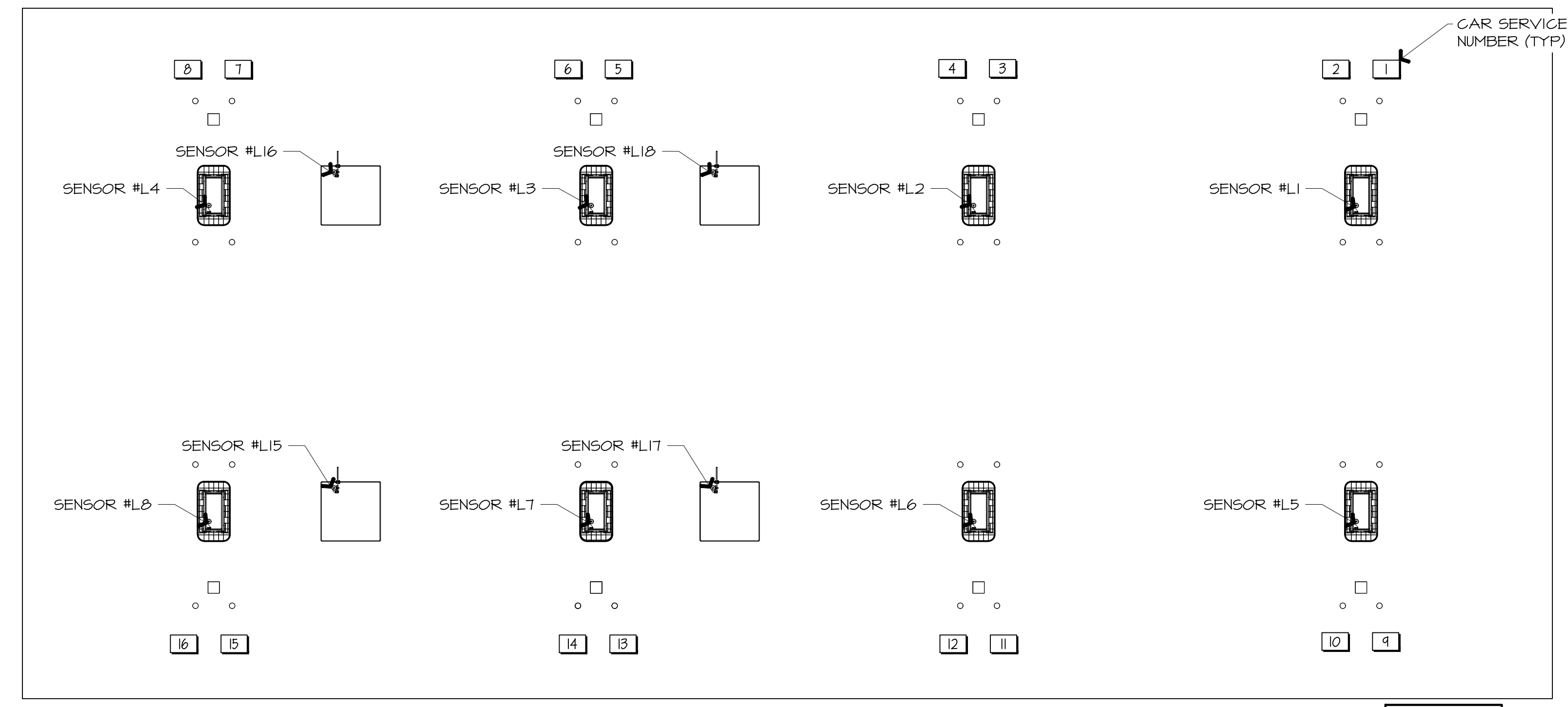
SHEET NUMBER:
XF308

I. SENSOR NOTE:
 SENSORS AND VEEDER-ROOT TO BE WIRED AND PROGRAMMED TO MATCH NUMBERING ON DETAIL A1-XF309. VEEDER-ROOT NUMBERING IS DETERMINED FOR CONSISTENCY BETWEEN STORES. IF IT IS UNCLEAR AS TO THE CORRECT PROGRAMMING DUE TO SOFTWARE REVISIONS OR ANY OTHER REASON, PROGRAMMER MUST NOTIFY APPROPRIATE QUIKTRIP PERSONNEL.

FOR WIRING REFER TO QT
 TLS-450+ PROGRAMING SCRIPT

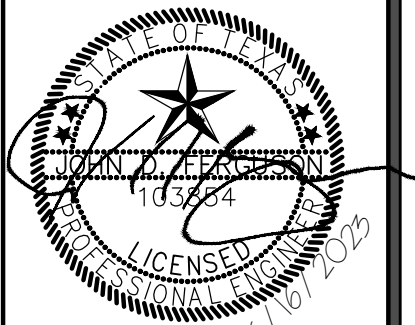
STORE SIDE

STREET SIDE

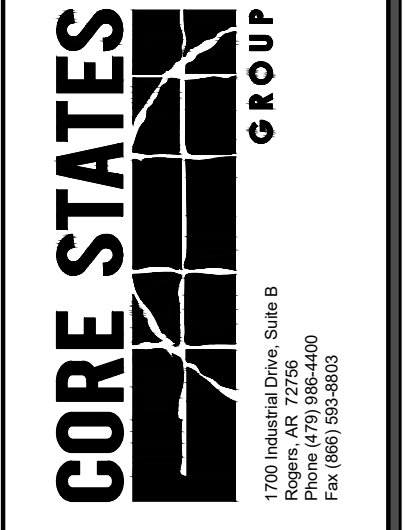


LIQUID SENSOR CHART

EQUIP. TAG	SENSOR NUMBER	LOCATION	NON-DISCRIMINATING SUMP SENSOR			HYDROSTATIC RESERVOIR SENSOR (BRINE)			DRY INTERSTITIAL SENSOR		
			21B	21T	24C						
DISPENSER SUMPS	L1	DISP 1-2	●								
	L2	DISP 3-4	●								
	L3	DISP 5-6	●								
	L4	DISP 7-8	●								
	L5	DISP 9-10	●								
	L6	DISP 11-12	●								
	L7	DISP 13-14	●								
	L8	DISP 15-16	●								
STP SUMP	L9	UST T1 UNL 1 STP SUMP	●								
	L10	UST T2 UNL 2 STP SUMP	●								
	L11	UST T3 UNL 3 STP SUMP	●								
	L12	UST T4 EO STP SUMP	●								
	L13	UST T4 PREMIUM STP SUMP	●								
TRANSITION SUMP	L14	UST T5 DIESEL STP SUMP	●								
	L15	TRANS SUMP #1	●								
	L16	TRANS SUMP #2	●								
	L17	TRANS SUMP #3	●								
WET TANK INTERSTITIAL (ANNULAR)	L18	TRANS SUMP #4	●								
	L19	INTERSTITIAL UNL T1				●					
	L20	INTERSTITIAL UNL T2				●					
	L21	INTERSTITIAL UNL T3				●					
DRY INTERSTITIAL (ANNULAR)	L22	INTERSTITIAL EO				●					
	L23	INTERSTITIAL PREMIUM				●					
	L24	INTERSTITIAL DIESEL				●					
	L25	INTERSTITIAL UNL T1						●			
L26	INTERSTITIAL UNL T2						●				
L27	INTERSTITIAL UNL T3						●				
L28	INTERSTITIAL EO						●				
L29	INTERSTITIAL PREMIUM						●				
L30	INTERSTITIAL DIESEL						●				



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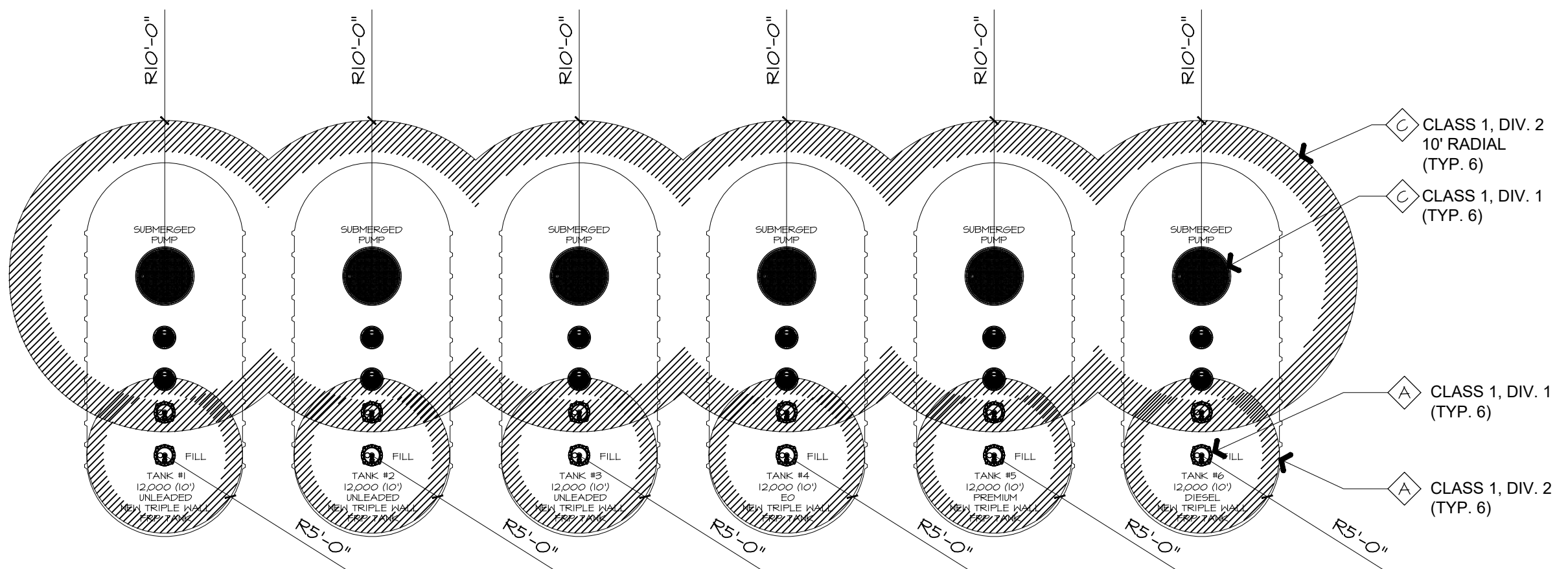
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 DIVISION: AUSTIN
 VERSION: G3SE
 DATE: 11-01-2021

REV	DATE	DESCRIPTION
B2	02/07/23	P112 REROLL
B3	05/24/23	TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 SENSOR NUMBERING PLAN

SHEET NUMBER:
 XF309

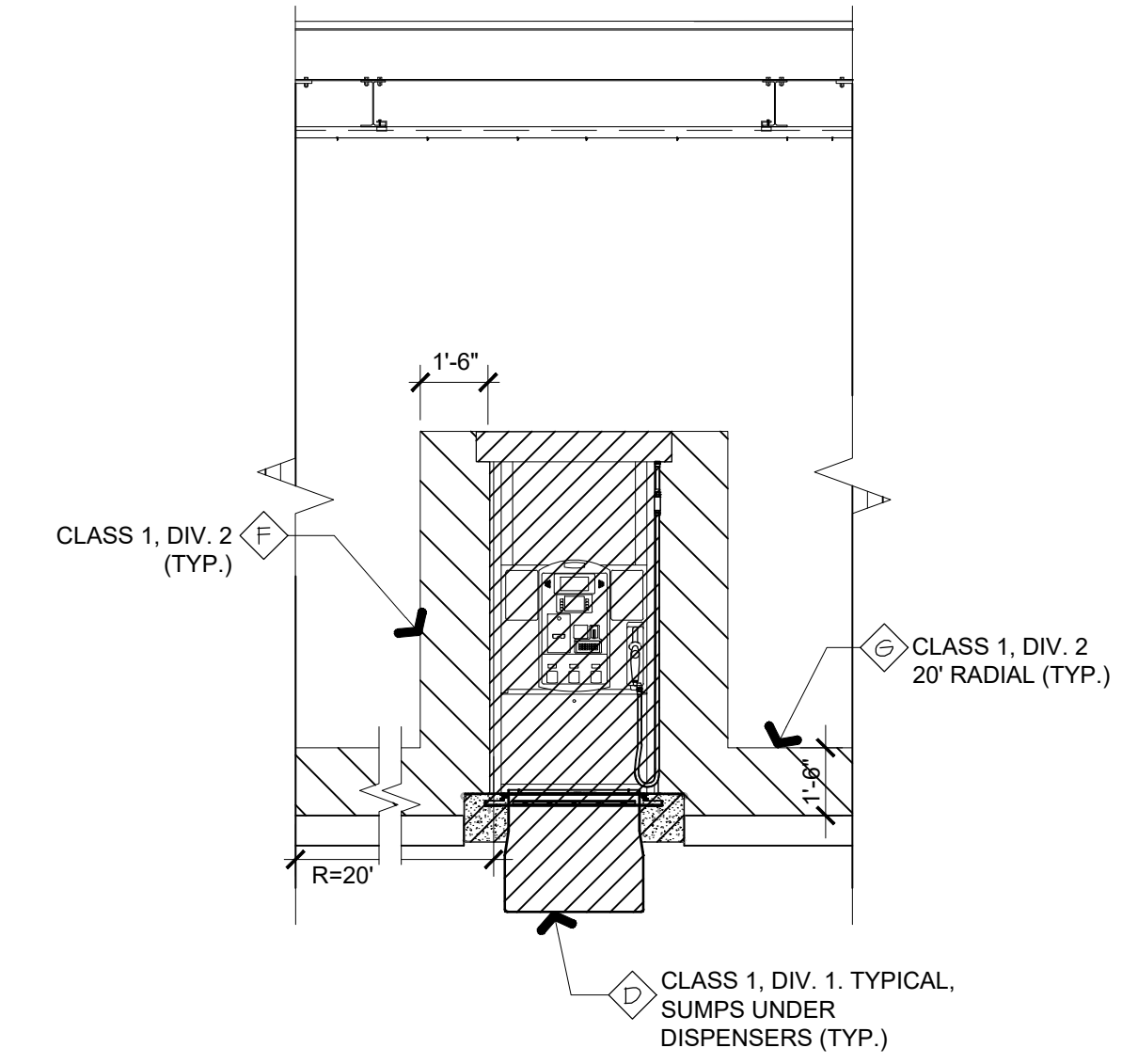
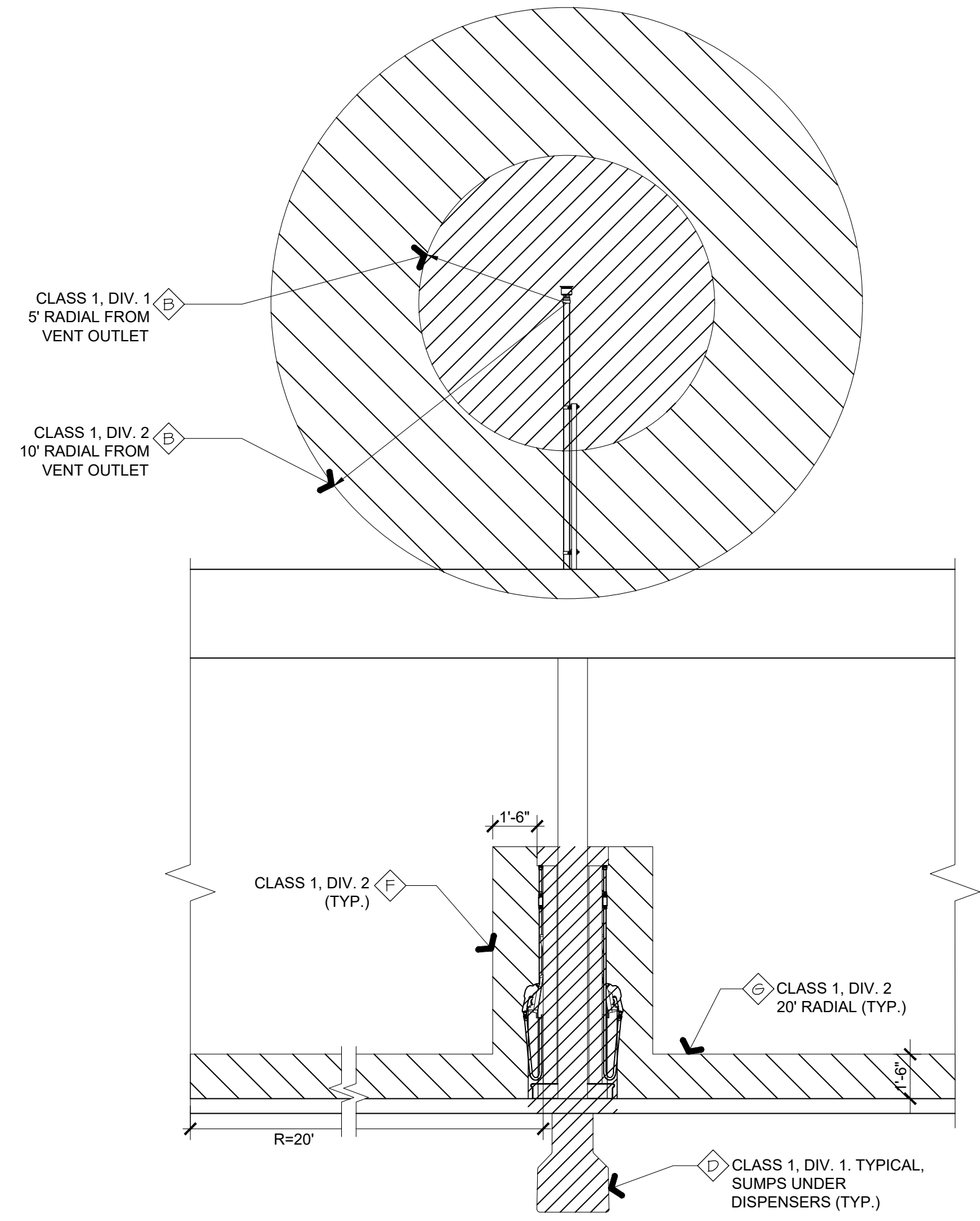
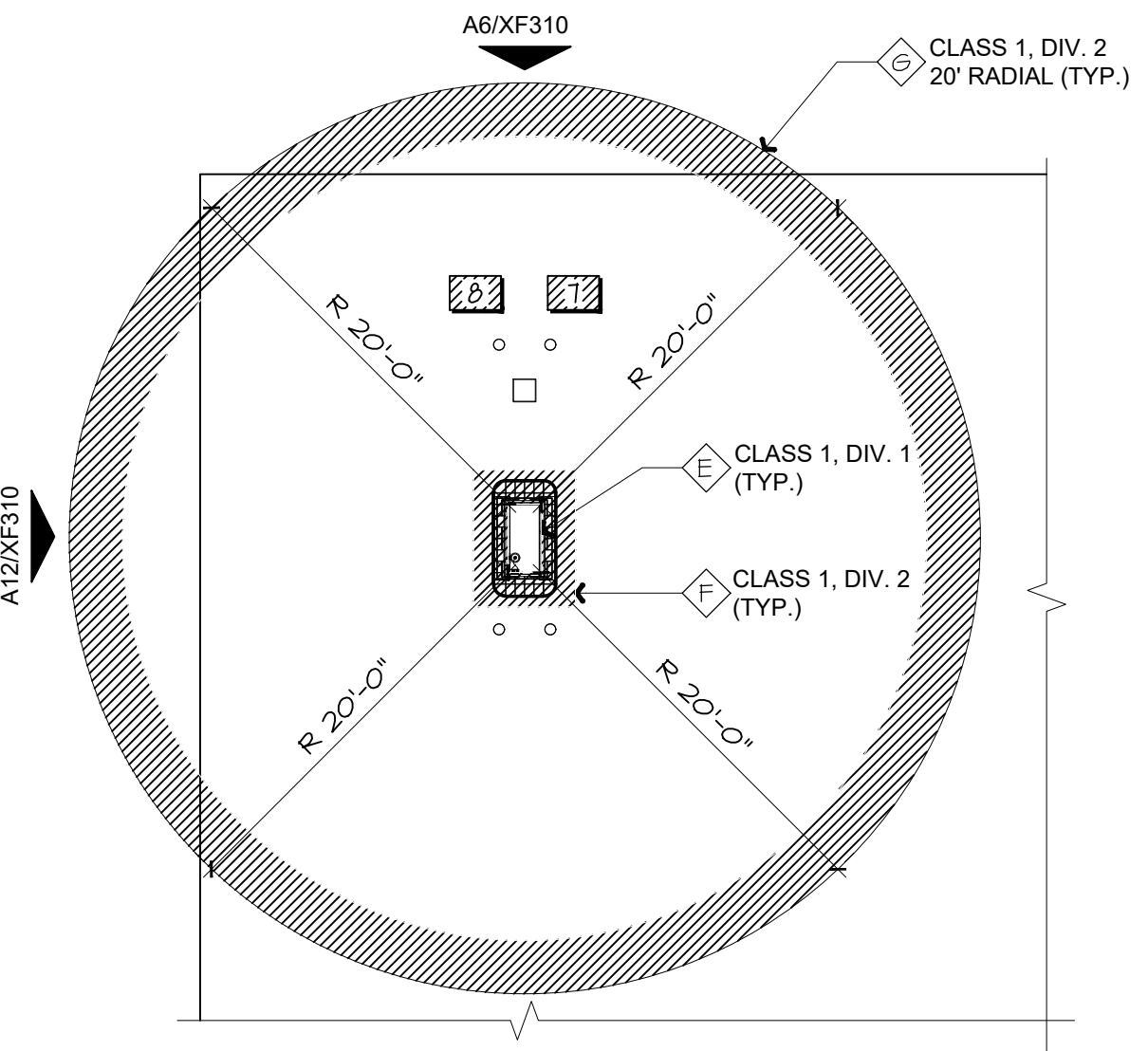


N.E.C. HAZARDOUS AREA NOTES

<p>A TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.</p> <p>B TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.</p> <p>C TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP - OUTDOOR)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP.</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 3 FEET OF ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTION, ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.</p>	<p>D TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - PITS)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFICATION LOCATION.</p> <p>E TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSULUL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."</p> <p>F TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS. SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSULUL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."</p> <p>G TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)</p> <p>EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.</p>
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K1 NEC CLASSIFIED AREA AT GROUND LEVEL BB

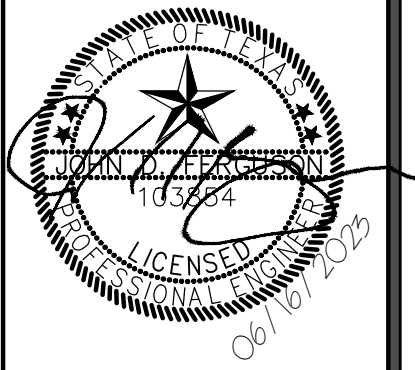
K10 NEC HAZARDOUS AREA NOTES



A1 NEC CLASSIFIED AREA AT DISPENSERS

A6 NEC CLASSIFIED SIDE ELEVATION

A12 NEC CLASSIFIED FRONT ELEVATION



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DDF JOB #: 21.0024

CORE STATES GROUP

1700 W. SETTLEERS BLVD., SUITE B
ROUND ROCK, TEXAS 78664
PHONE: (787) 888-4840
FAX: (787) 888-4840

QuikTrip No. 4166

701 W SETTLEERS BLVD
ROUND ROCK, TEXAS

QT

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PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
BB	02/07/23	P112 REROLL
BB	05/24/23	TANK REVISION

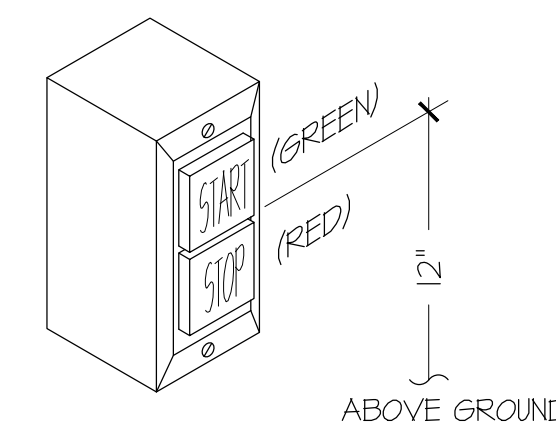
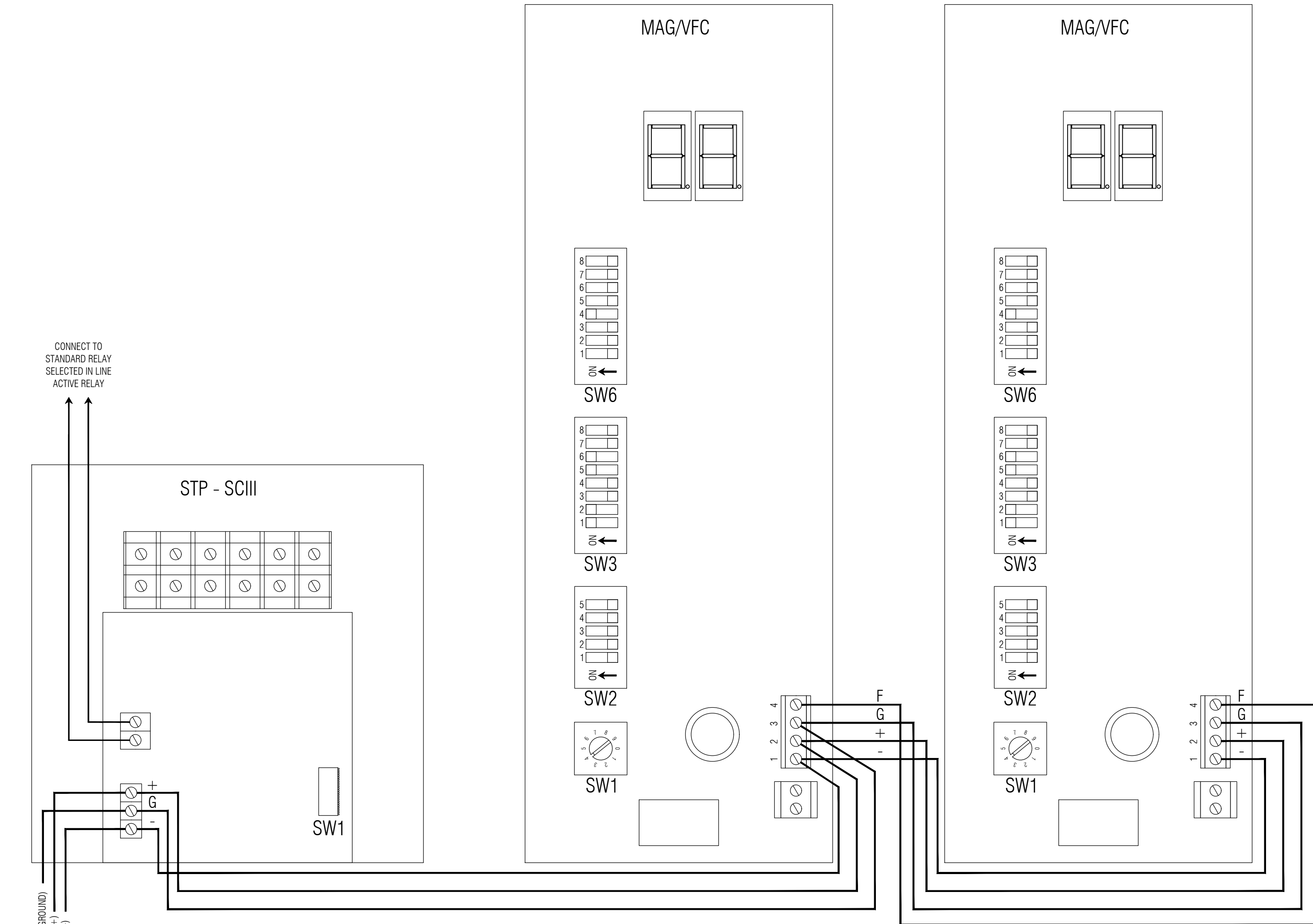
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
NEC CLASSIFIED AREAS

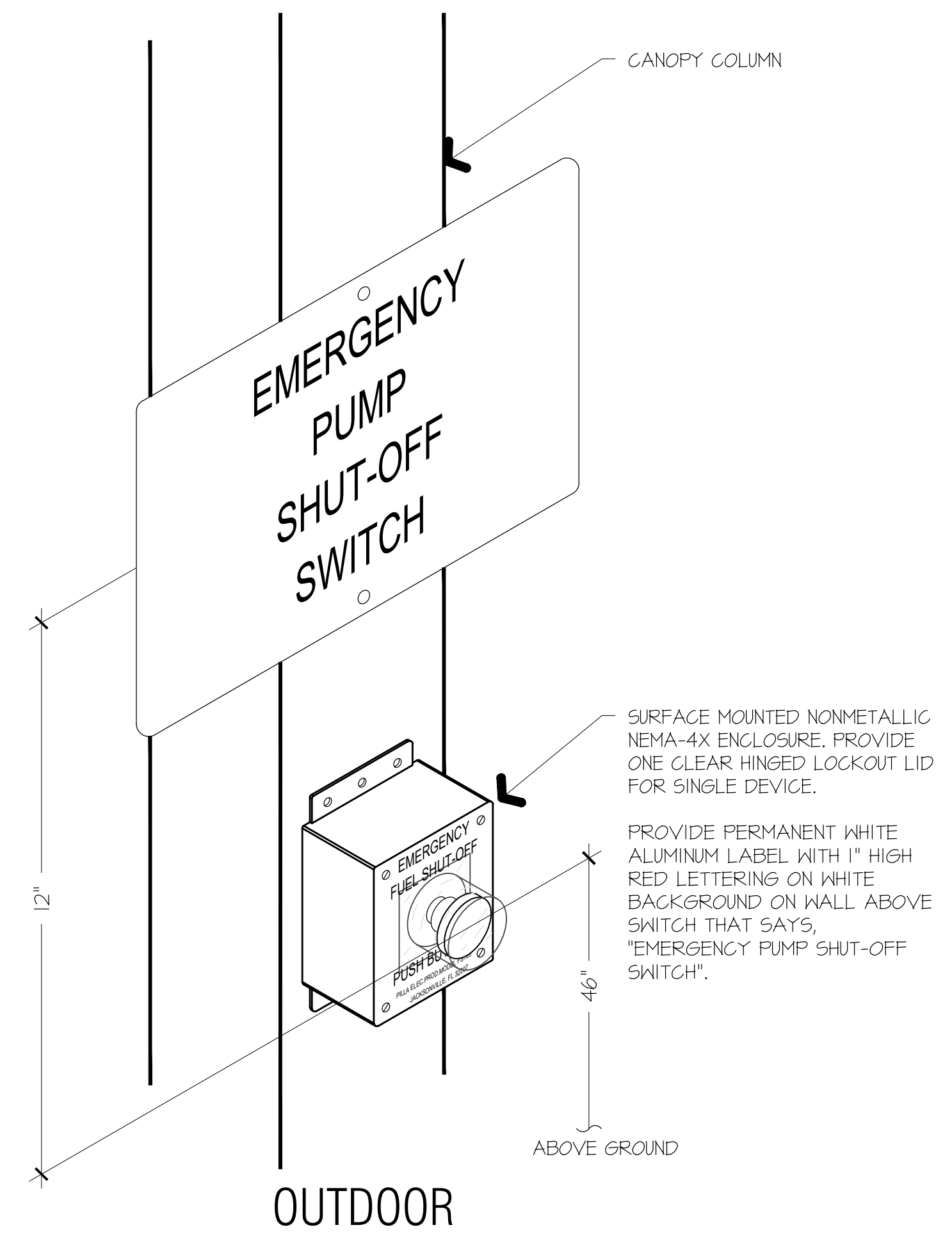
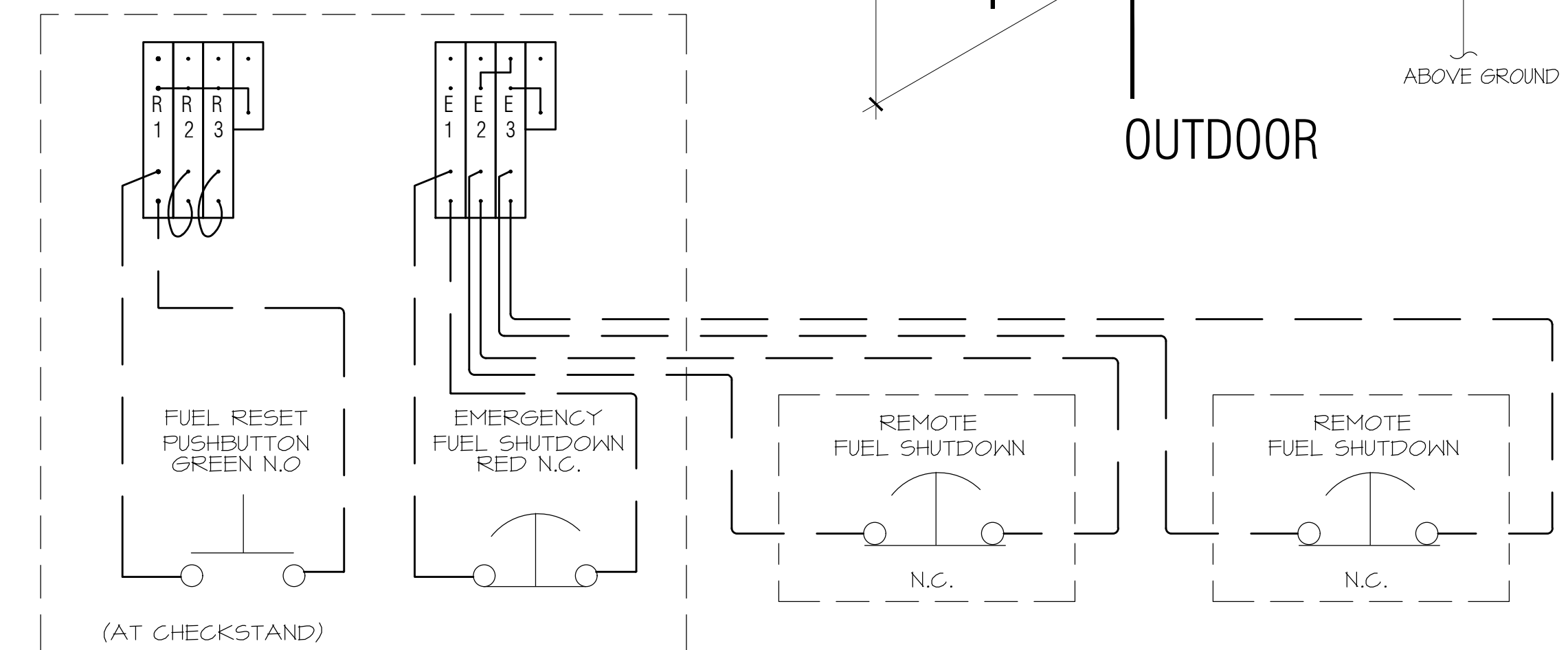
SHEET NUMBER:
XF310

ELECTRICAL EQUIPMENT LIST AND CONNECTION SCHEDULE

TAG #	DESCRIPTION	MAKE & MODEL	VOLTAGE / PHASE / WIRE	LOAD AMPS	TYPE OF CONNECTION	WIRE AND CONDUIT	MOUNTING HEIGHT (AFF)	FURNISHED BY	ITEM REMARKS
302	EMERGENCY GASOLINE SHUT-OFF SWITCH	PILLA #FS120M06RYCLMXD	24VAC/2W	-	HARDWIRED		*	GC	*SEE DETAIL A9/XF311



FUEL SHUTDOWN CIRCUITRY



SUMMARY OF INTEGRATED HV AND LV DISCONNECT SYSTEM:
FULL NEC 514 COMPLIANCE INTEGRATED HV AND LV DISCONNECTING MEANS

SYSTEM INCORPORATES A FUEL CONTROL PANEL THAT IS INTEGRATED INTO THE PREMANUFACTURED CABINET, FORMER E-STOP BOX AND CONTACTORS, ALONG WITH THE F.E. PETRO DHI RELAY FUNCTIONS ARE ALL INTEGRATED INTO THE CONTROL PANEL. SYSTEM AND COMPONENTS SHALL BE PRE-WIRED TO THE EXTENT POSSIBLE WITHIN THE CABINET, INCLUDING ALL LOW VOLTAGE COMMUNICATION CABLES TO THE PANEL SYSTEM OR LINE SIDE OF THE LOW VOLTAGE WIRING TERMINALS.

1. SYSTEM SHALL PRE WIRE FOR STP POWER, DISPENSER POWER AND COMMUNICATIONS ON A TERMINAL BLOCK FOR TERMINATION OF FIELD WIRING.
2. SYSTEM SHALL PRE-WIRE HOOK SIGNALS IN A COLOR CODED ROW OF TERMINALS ALL SIDE BY SIDE AT THE BOTTOM OF THE PANEL.
3. CONTROL PANEL DESIGN SHALL INCLUDE A "DIESEL" TERMINAL BLOCK FOR ANY DISPENSER WIRED AS A SPARE.
4. CONTROL PANEL DESIGN SHALL BE FULLY COMPLIANT WITH 514-II AND 514-13. THE EMERGENCY SHUTOFF SHALL BE SET UP SUCH THAT ANY ONE KILL SWITCH WILL SHUT DOWN THE ENTIRE SYSTEM, INCLUDING OPENING ALL LINE VOLTAGE AND LOW VOLTAGE WIRES TO THE DISPENSERS AND FUEL PUMPS. A MANUAL RESET BUTTON LOCATED IN THE ELECTRICAL CABINET ACCESSIBLE TO AUTHORIZED PERSONNEL SHALL BE REQUIRED FOR RE-ENERGIZING THE SYSTEM.
5. IN ADDITION, A SINGLE DISCONNECTING SWITCH SHALL BE LOCATED ON THE CONTROL PANEL TO ALLOW SERVICING TO ANY SINGLE DISPENSER BY DISCONNECTING BOTH THE DISPENSER POWER AND COMMUNICATIONS/DATA TO THAT DISPENSER ONLY WHILE LEAVING THE REMAINDER OF THE LOCATION UP AND RUNNING.

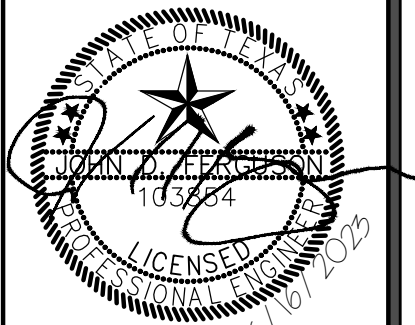
ON-OFF SWITCH(ES) SHALL BE PROVIDED BY GENERAL CONTRACTOR AS SCHEDULED, WIRED AS INDICATED AND PER MFR INSTALLATION INSTRUCTIONS.

1. INDOOR EMERGENCY SHUT-OFF (ESO) SWITCH AND RESET AT CHECKSTAND.
2. EXTERIOR EMERGENCY SHUT-OFF(S) (ESO) OUTSIDE STORE.

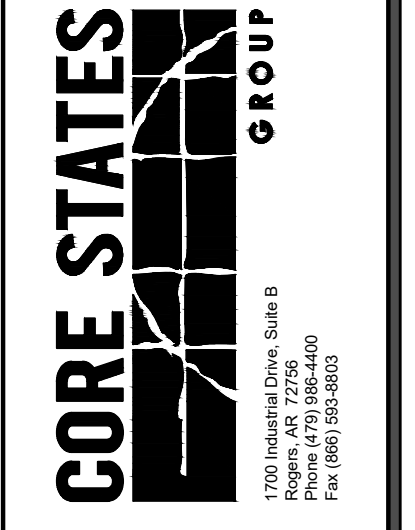
RE: XF 300 FOR LOCATIONS.

A1 MULTI CONTROLLER WIRING DIAGRAM

A9 EMERGENCY FUEL CUTOFF DIAGRAM



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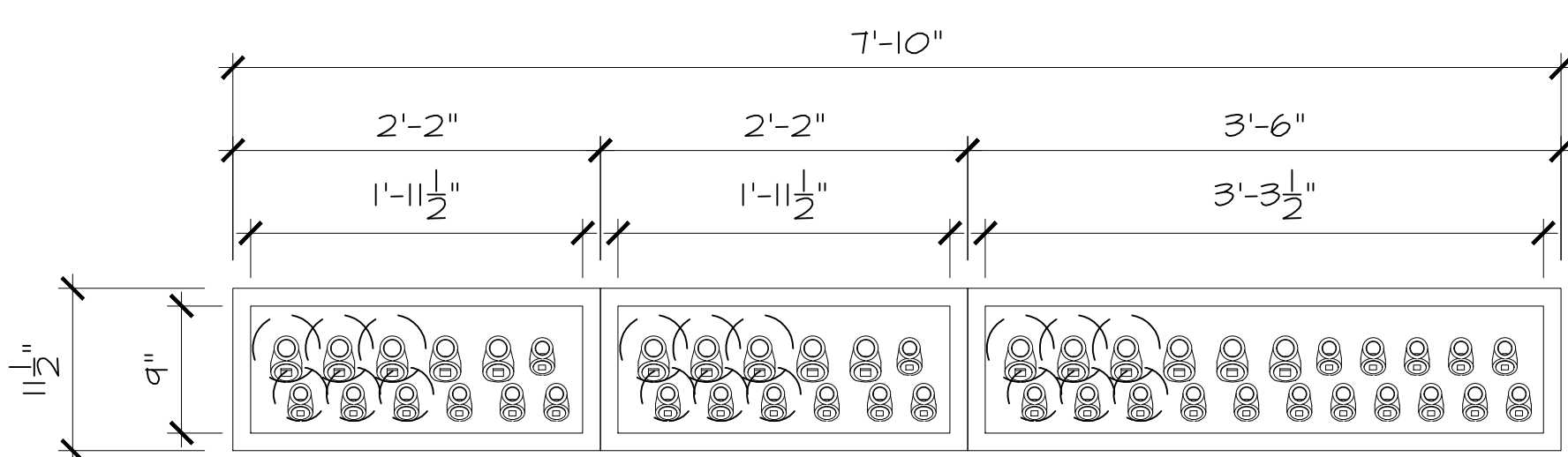
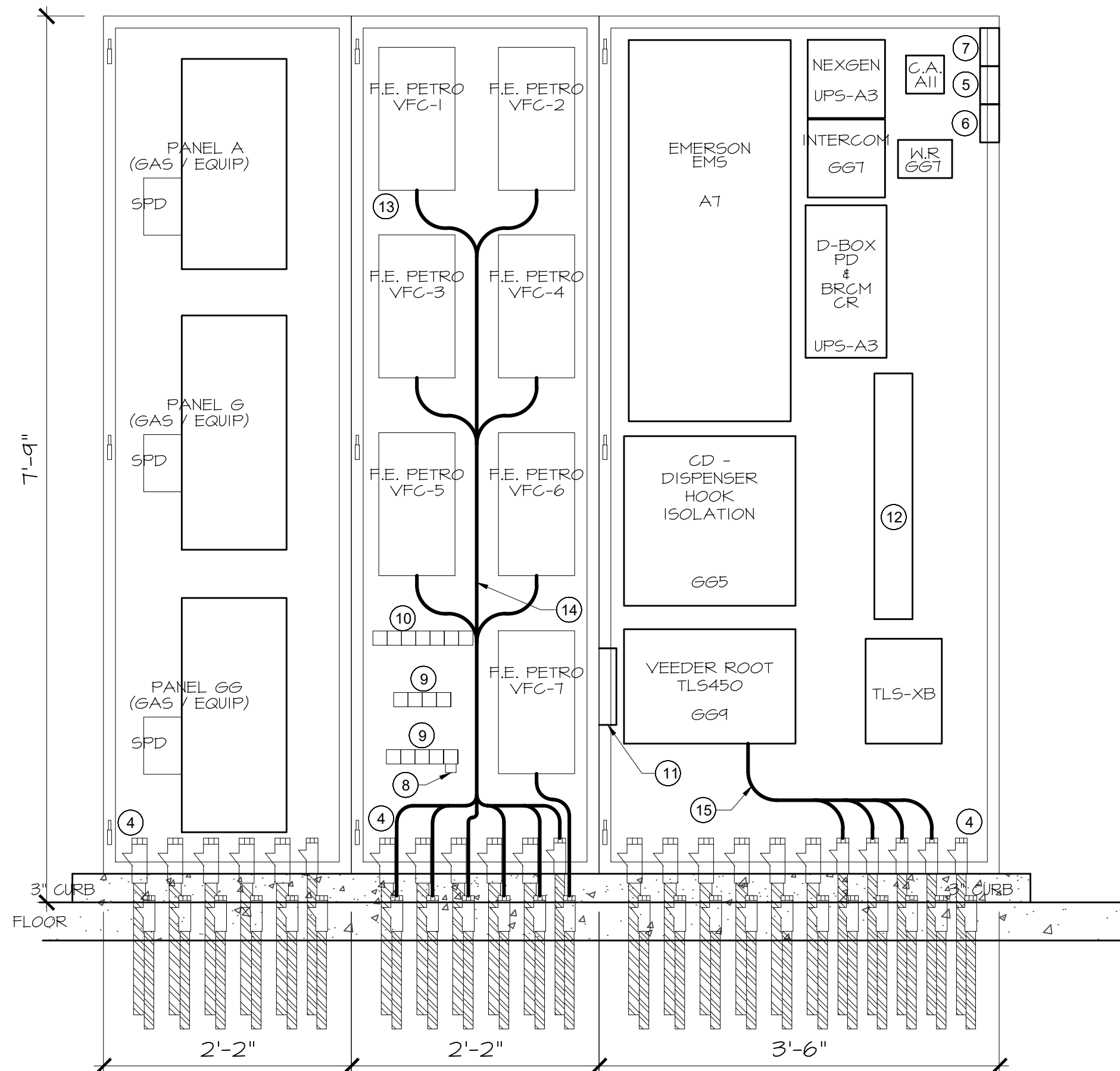
PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
02	02/07/23	P112 REROLL

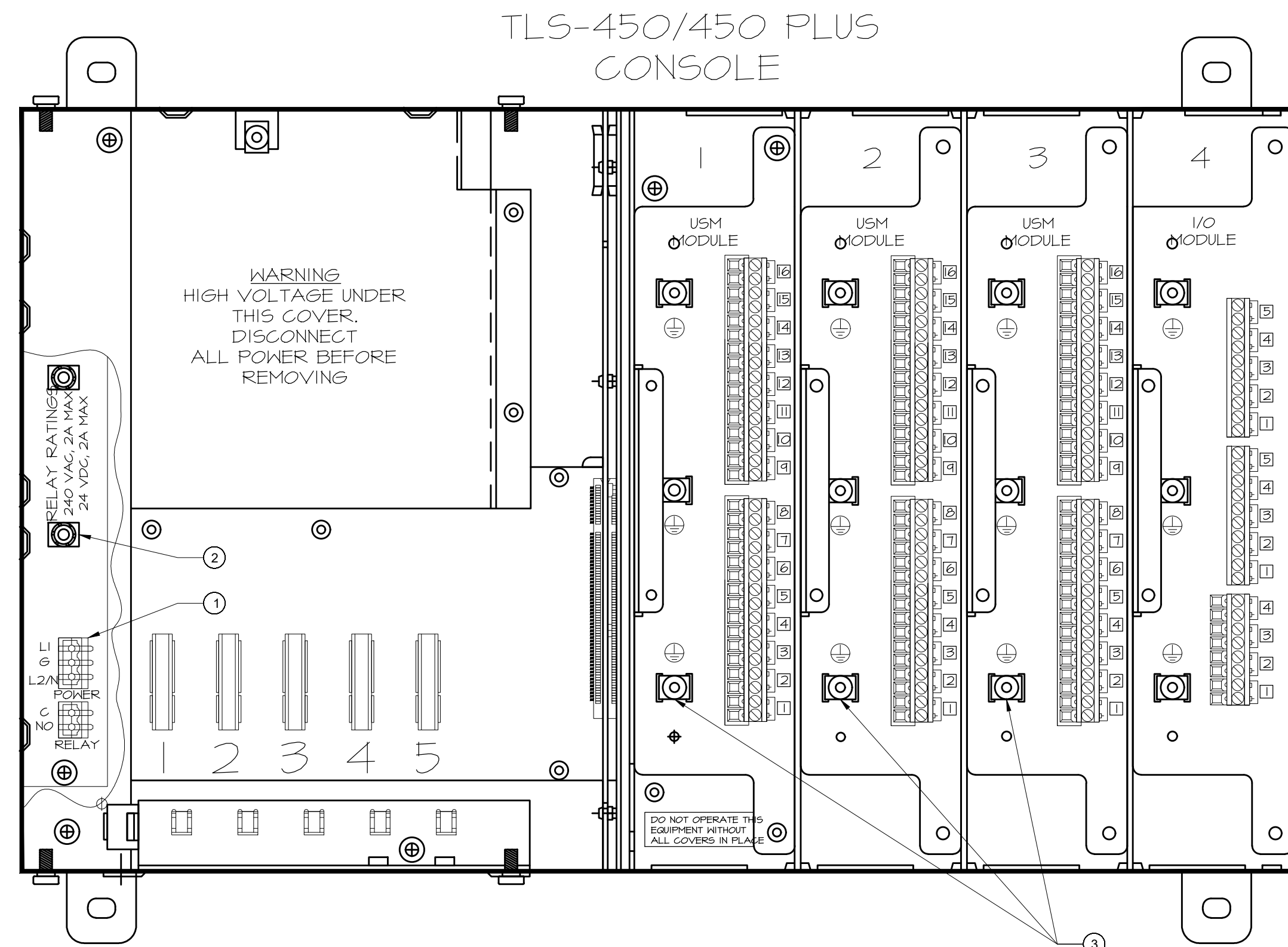
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
DETAILS

SHEET NUMBER:
XF311



SECTION A-A



NOTE: THE VEEDER-ROOT MONITORING SYSTEM TO BE FULLY FUNCTIONAL PRIOR TO INTRODUCING ANY FUEL PRODUCTS INTO THE TANKS.

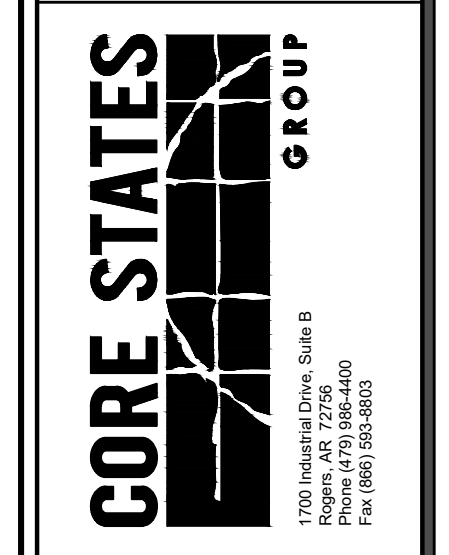
NOTE: VEEDER-ROOT PROGRAMMING DISPLAYED FOR GENERAL EXAMPLE PURPOSES. CONTACT QT REPRESENTATIVE FOR LATEST PROGRAMMING SCRIPT.

TL5-450/450 PLUS CONSOLE

KEYNOTES	
1	PULL THREE #14 AWG OR LARGER COLOR-CODED WIRES FOR AC LINE (HOT), AC NEUTRAL AND CHASSIS GROUND BETWEEN THE POWER PANEL AND THE CONSOLE.
2	PROVIDE A BARRIER GROUND FROM GROUNDING TERMINAL BAR IN POWER PANEL TO GROUNDING CLAP IN THE CONSOLE. FOR UL/GUL APPROVED SYSTEMS, USE A #12 AWG BARRIER GROUND WIRE.
3	FOR EACH BAY HOUSING A USM MODULE, PROVIDE A #12 AWG GROUND FROM THE GROUNDING CLAMP TO GROUNDING LUGS.
4	EXPLOSION PROOF SEAL-OFF, ONE PER CONDUIT. SEE SECTION A-A FOR APPROXIMATE CONDUIT LAYOUT. QUANTITY AND SIZE OF CONDUITS MAY VARY. USE FLOOR TEMPLATE FURNISHED BY ELECTRICAL PANEL MANUFACTURER TO LAYOUT FLOOR CONDUIT PENETRATIONS.
5	PREMOUNTED QUAD RECEPTACLE FOR SECURITY SYSTEM.
6	PREMOUNTED INTERCOM / WARREN ROGERS DUPLEX RECEPTACLE.
7	PREMOUNTED QUAD RECEPTACLE FOR UPS.
8	MOTOR STARTER FOR CANOPY EXHAUST FAN.
9	MPD ISOLATION MODULES. QUANTITY MAY VARY.
10	SUBMERSIBLE PUMP CONTACTORS.
11	TVSS FOR VEEDER-ROOT.
12	DISPENSING EQUIPMENT LOW VOLTAGE DISCONNECT (TWISTED PAIR & CAT-5).
13	REFER TO SHEET E503 & E610 FOR CIRCUIT NUMBERING
14	3/4" FLEXIBLE CONDUIT FROM MAGVFC'S TO SEAL-OFF'S.
15	3/4" FLEXIBLE CONDUIT FROM VEEDER ROOT TO SEAL-OFF'S.

VEEDER-ROOT PROGRAMMING (NON-TRAVEL CENTERS)					
CARD #1		CARD #2		CARD #3	
#16	DIESEL STP SUMP	#16	PROBE PREMIUM	#16	(ADDITIONAL SENSOR) **
#15	PREMIUM STP SUMP	#15	PROBE UNL #2	#15	(ADDITIONAL SENSOR) **
#14	UNL #2 STP SUMP	#14	PROBE UNL #1	#14	(ADDITIONAL SENSOR) **
#13	UNL #1 STP SUMP	#13	(ADDITIONAL SENSOR) **	#13	(ADDITIONAL SENSOR) **
#12	DISP PAN 3/24 **	#12	(ADDITIONAL SENSOR) **	#12	(ADDITIONAL SENSOR) **
#11	DISP PAN 2/22 **	#11	MULTI-PORT SUMP #1 **	#11	MULTI-PORT SUMP #2 **
#10	DISP PAN 1/20 **	#10	(ADDITIONAL SENSOR) **	#10	TRANS SUMP #4 **
#9	DISP PAN 1/18 **	#9	(ADDITIONAL SENSOR) **	#9	TRANS SUMP #3 **
#8	DISP PAN 1/16 **	#8	INTERSTITIAL DIESEL	#8	OFFSET FILL SUMP #2 (REMOTE) **
#7	DISP PAN 1/14 **	#7	INTERSTITIAL PREM/E0 (PROD X) **	#7	PLLD E0 (PROD X) **
#6	DISP PAN 1/12	#6	INTERSTITIAL UNL #2	#6	PLLD DIESEL
#5	DISP PAN 1/10	#5	INTERSTITIAL UNL #1	#5	PLLD PREMIUM
#4	DISP PAN 1/8	#4	TRANS SUMP #2	#4	PLLD UNL #2
#3	DISP PAN 1/6	#3	TRANS SUMP #1	#3	PLLD UNL #1
#2	DISP PAN 1/4	#2	OFFSET FILL SUMP #1 **	#2	PROBE E0 (PROD X) **
#1	DISP PAN 1/2	#1	E0 (PROD X) STP SUMP **	#1	PROBE DIESEL

** - IF EQUIPPED



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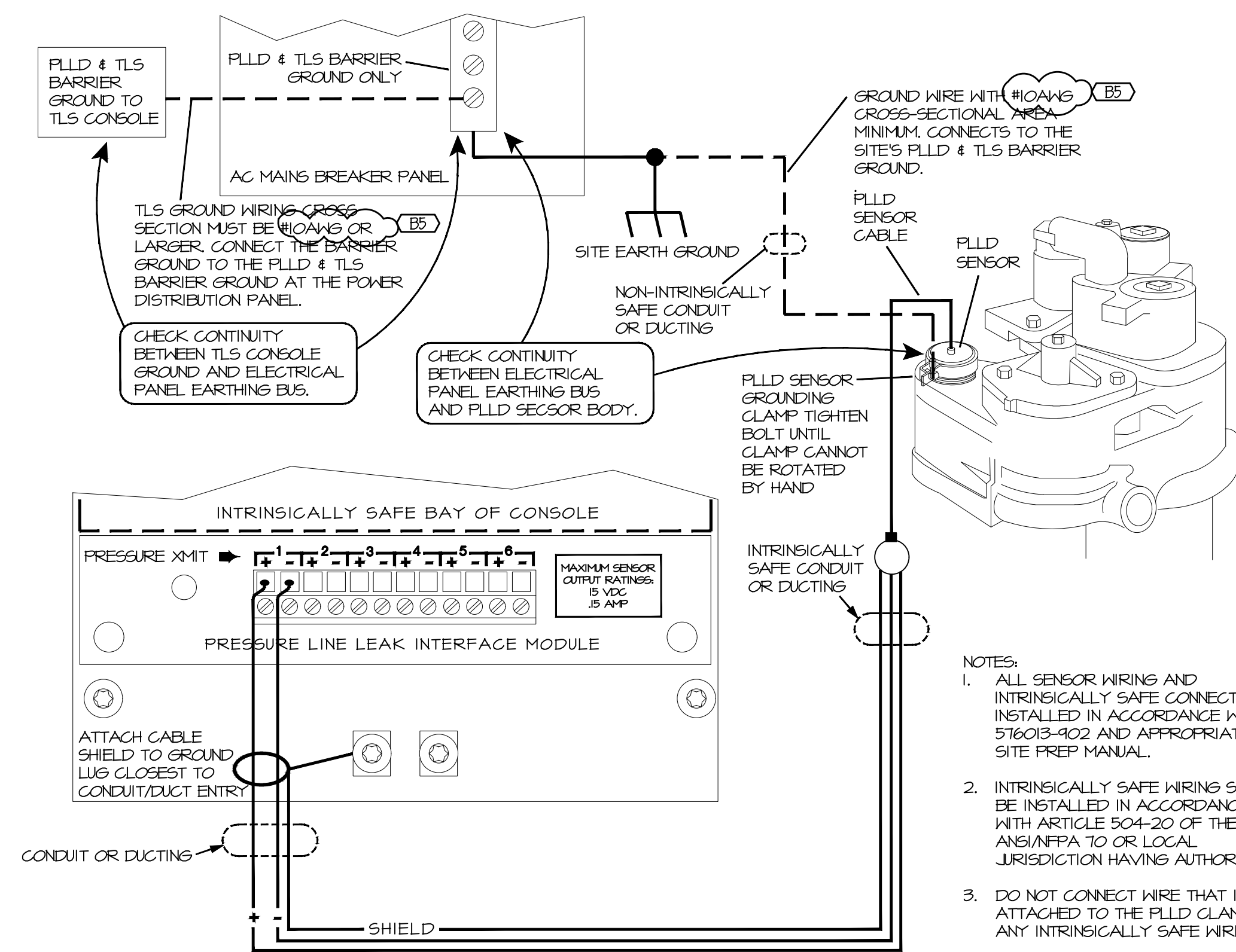
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DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
02	02/07/23	P112 REROLL

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
DETAILS

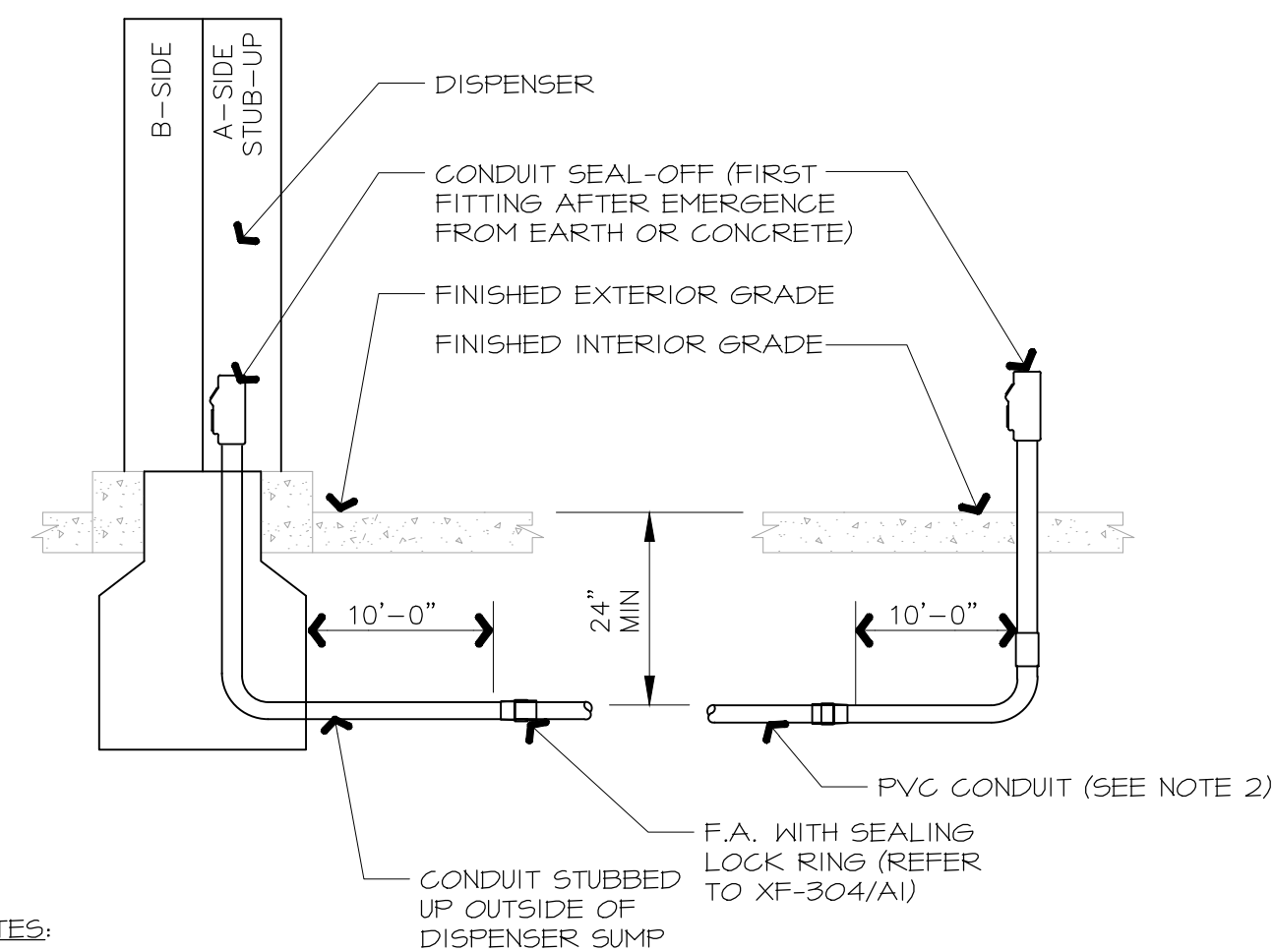
SHEET NUMBER:
XF312



- NOTES:
1. ALL SENSOR WIRING AND INTRINSICALLY SAFE CONNECTIONS INSTALLED IN ACCORDANCE WITH 516.013-402 AND APPROPRIATE SITE PREP MANUAL.
 2. INTRINSICALLY SAFE WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 504-20 OF THE NEC ANSI/NFPA TO OR LOCAL JURISDICTION HAVING AUTHORITY.
 3. DO NOT CONNECT WIRE THAT IS ATTACHED TO THE FLLD CLAMP TO ANY INTRINSICALLY SAFE WIRING.

G1 PLLD GROUND DETAIL

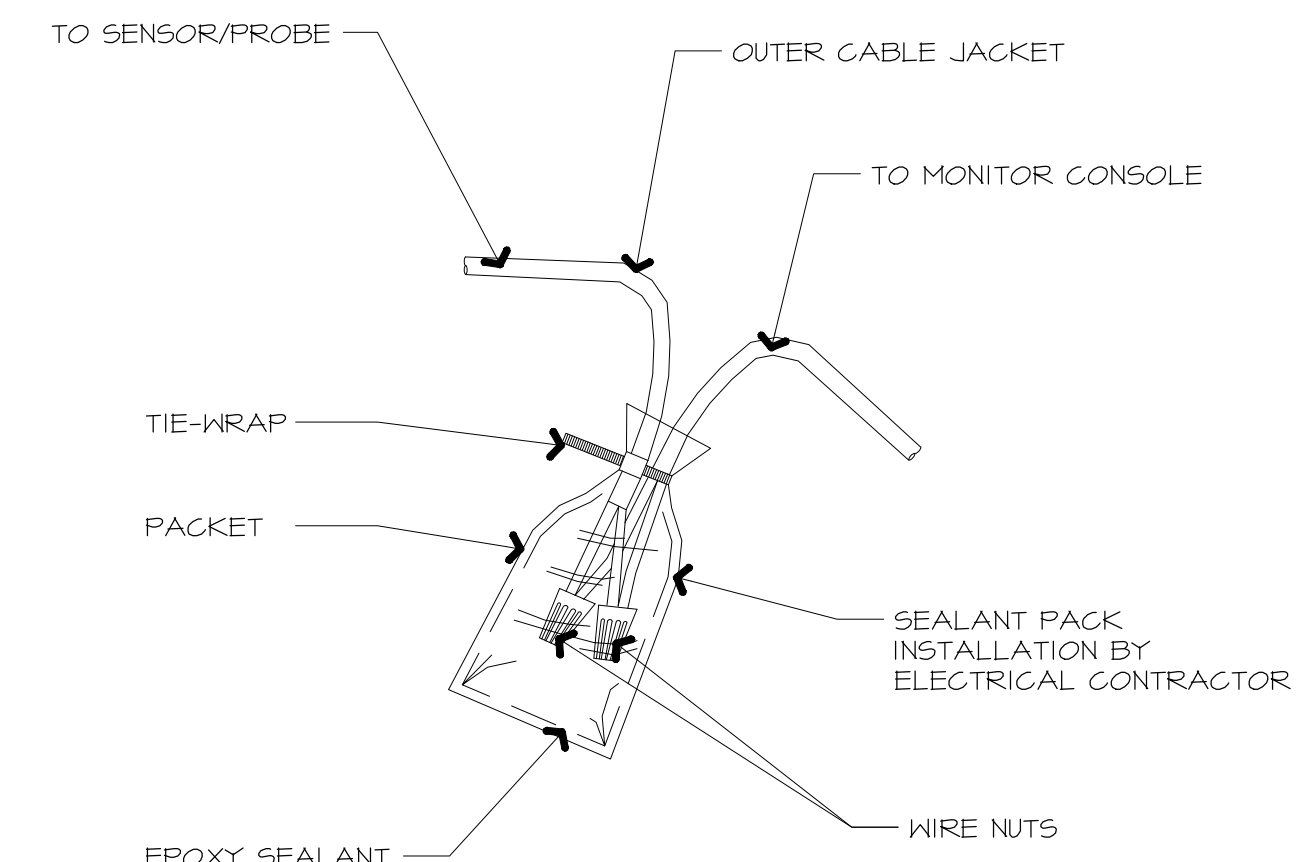
NTS



- NOTES:
1. THREADED PVC COATED RIGID/ROB ROY CONDUIT SHALL BE USED FOR THE FIRST AND LAST 10 FEET OF UNDERGROUND RUN TO EMERGENCE PER NEC 514.
 2. UNDERGROUND PVC CONDUIT SHALL BE USED ONLY AS ALLOWED BY NEC 514-8, EXCEPTION NO. 2 AND APPLICABLE LOCAL CODES. VERIFY SUITABILITY WITH ALL APPROPRIATE AGENCIES. PVC CONDUIT SHALL BE SCHEDULE 40 OR HEAVIER WITH ALL PORTIONS BURIED A MINIMUM 2 FEET BELOW GRADE.
 3. THE DISPENSER CONDUITS ARE TO BE STUBBED UP OUTSIDE OF THE DISPENSER SUMP. NO CONDUITS WILL PENETRATE THE DISPENSER SUMPS.

A6 CONDUIT STUB UP DETAILS

NTS

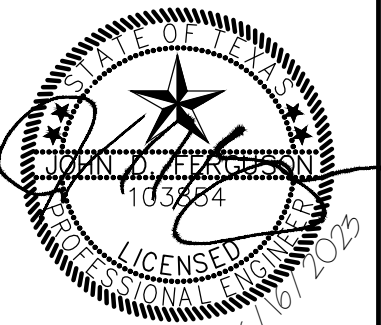


A12 EPOXY FILLED SPLICE KIT

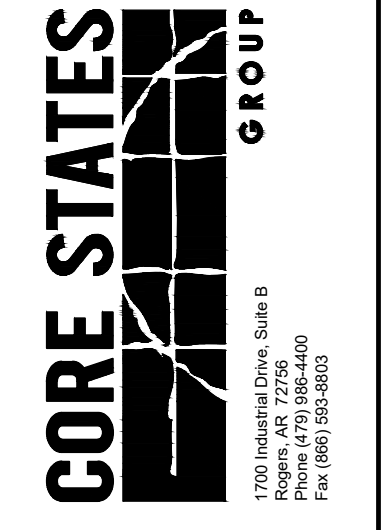
NTS

A1 NOT USED

NTS



CORE STATES, INC.
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 #9349
 EXPIRES: 07-31-2023
 ODF JOB #: 21.0024



QuikTrip No. 4166
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PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
(B)	02/07/23	P112 REROLL

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 DETAILS

SHEET NUMBER:
 XF313

I. GENERAL NOTE:

THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF THE GASOLINE UNDERGROUND STORAGE TANKS AND SHALL INSURE THAT GOOD WORKMANSHIP PRACTICES AND CONSTRUCTION PROCEDURES ARE FOLLOWED REGARDLESS OF THE INCLUSION OR OMISSION OF ANY INSTRUCTION.

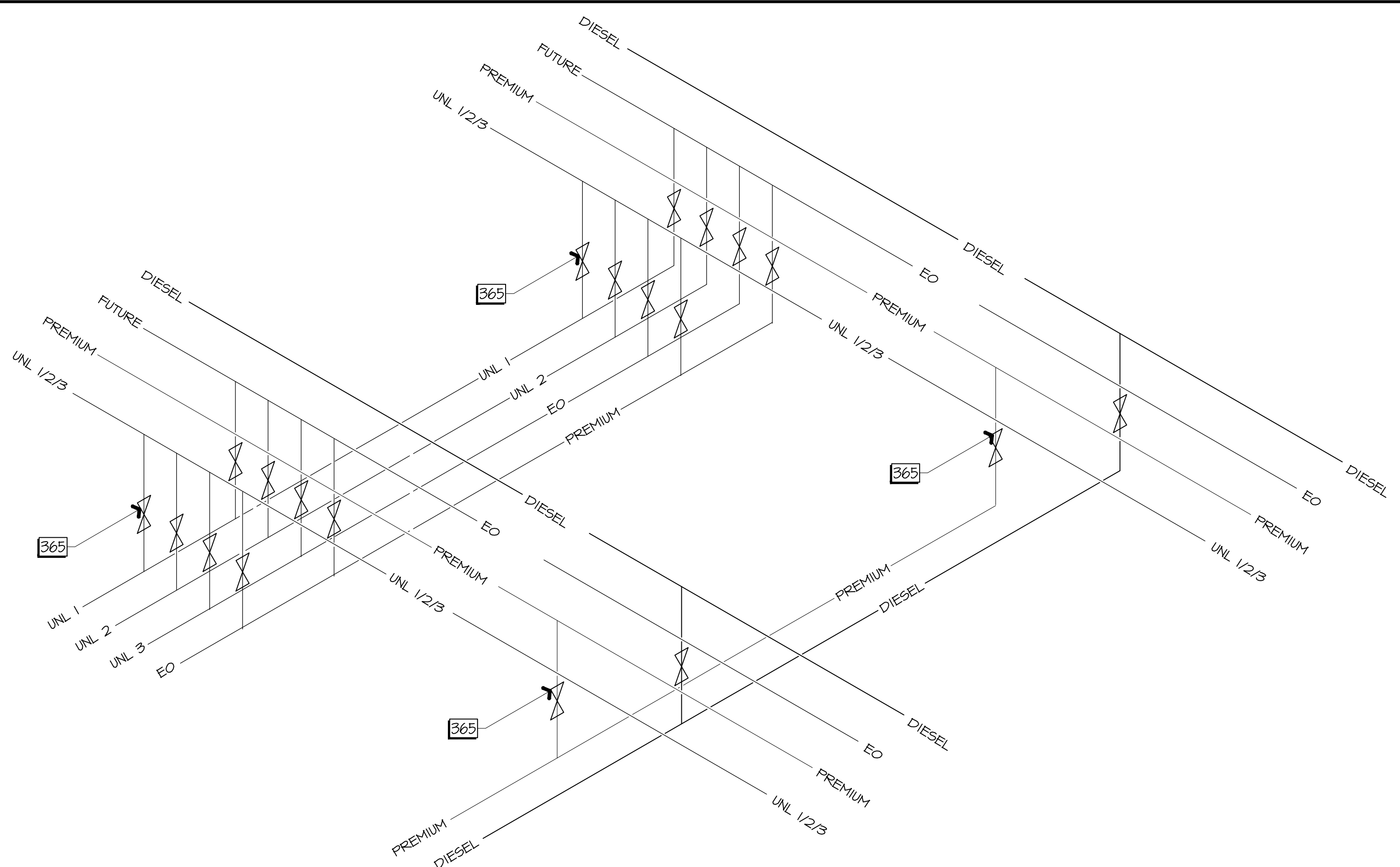
UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE AND THE MANUFACTURER'S INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. MANUFACTURER'S SPECIALISTS ARE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE MANUFACTURER OR OBSERVER AT AN INSTALLATION SITE DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE PROPER INSTALLATION OF THE TANKS.

QUESTIONS REGARDING INSTALLATION PROCEDURES OR TANK REPAIRS SHOULD BE DIRECTED TO THE QUIKTRIP FIELD REPRESENTATIVE.

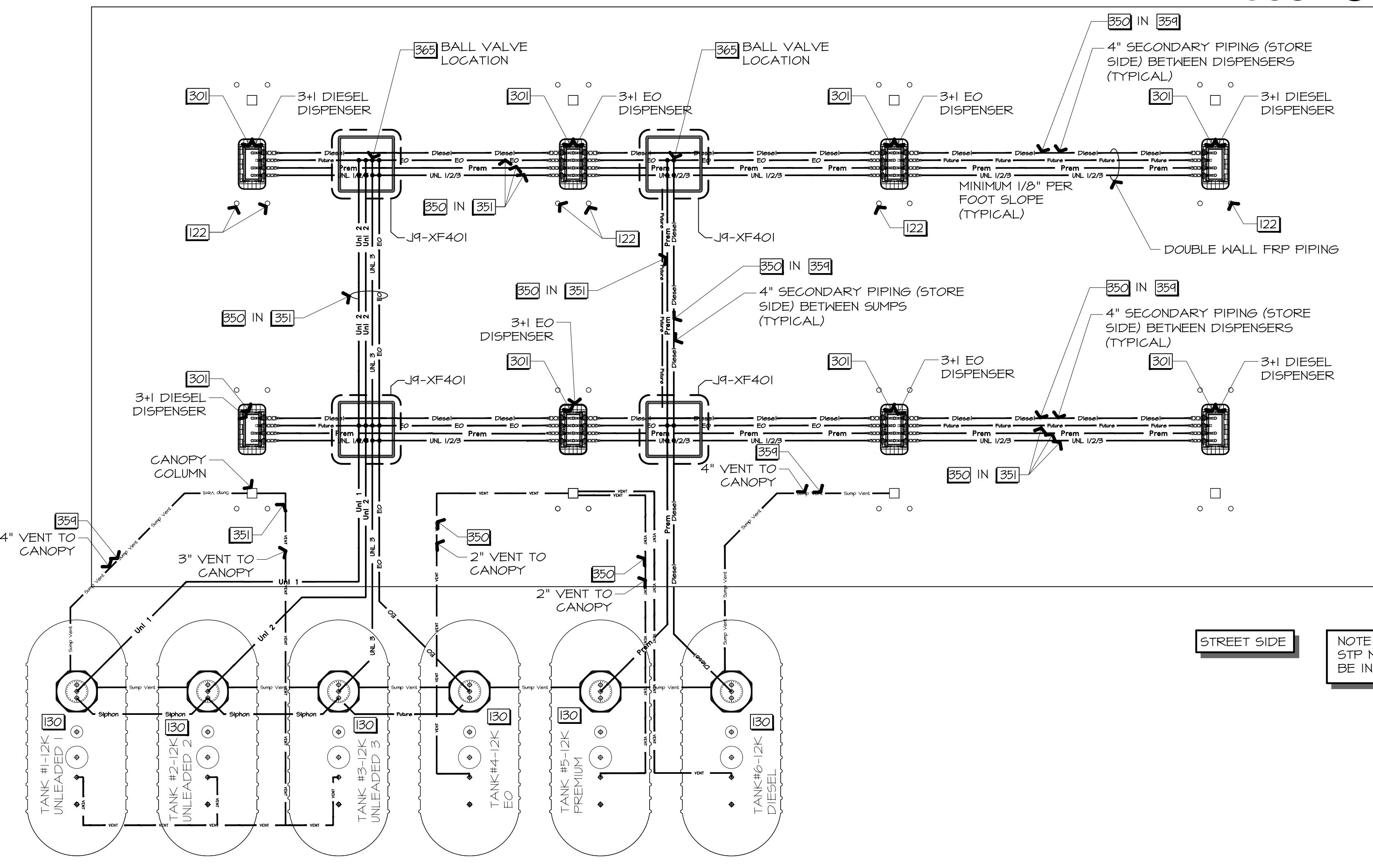
GASOLINE UNDERGROUND TANKS MUST BE INSTALLED ACCORDING TO THESE INSTRUCTIONS, THE MANUFACTURER'S INSTRUCTIONS AND NFPA 30 AND 30A. LOCAL CODES MAY APPLY AND MUST BE ADHERED TO. FAILURE TO FOLLOW THESE INSTALLATION INSTRUCTIONS WILL VOID THE WARRANTY AND WILL RESULT IN TANK FAILURE. PROPER INSTALLATION OF GASOLINE UNDERGROUND STORAGE TANKS HELPS PREVENT TANK DAMAGE AND SHOULD INSURE LONG-TERM CORROSION-PROOF SERVICE. IT IS IMPERATIVE TO READ, UNDERSTAND AND FOLLOW THESE INSTRUCTIONS.

THESE SPECIFICATIONS ARE SUPPLEMENTED BY THE RESPECTIVE TANK MANUFACTURER'S SPECIFICATIONS. THE INSTALLATION PROCEDURE SHALL COMPLY WITH BOTH SETS OF INSTRUCTIONS AND SPECIFICATIONS. IF, IN THE CONTRACTOR'S JUDGMENT, THERE APPEARS TO BE A CONFLICT IN THESE SPECIFICATIONS AND THE TANK MANUFACTURER'S INSTRUCTIONS, CONTACT THE LOCAL QUIKTRIP REPRESENTATIVE FOR CLARIFICATION AND GUIDANCE.

1. ALL PRODUCT LINES ARE SECONDARILY CONTAINED.
2. EVERY TANK CONTAINMENT SUMP AND DISPENSER CONTAINMENT SUMP SHALL CONTAIN A LIQUID SENSING PROBE.
3. PERPENDICULAR PENETRATIONS OF THE CONTAINMENT SUMPS ARE PREFERRED. 5° IS THE MAXIMUM ALLOWABLE PENETRATION ANGLE.
4. SPARE ELECTRICAL CONDUITS MUST BE SEALED.
5. SEE ELECTRICAL SHEETS FOR ELECTRICAL CONDUIT LAYOUT.
6. FILL, VENT/VAPOR AND AUTOMATIC TANK GAUGE RISER MUST BE SCHEDULE 40 PRIMED AND WRAPPED PIPE. EACH RISER MUST BE PRIMED AND WRAPPED IF BACK FILL IS TOUCHING THE RISER.
7. EACH PIPING SECTION BETWEEN DISPENSERS SHALL HAVE (3) 3" SECONDARY PIPING SEGMENTS AND (1) 4" SECONDARY PIPING SEGMENT. 4 INCH SECONDARY PIPING SEGMENT SHALL BE LOCATED ON STORE SIDE OF PIPING LAYOUT.
8. PIPING SECTION BETWEEN TRANSITION SUMPS SHALL HAVE (3) 3" SECONDARY PIPING SEGMENTS AND (1) 4" SECONDARY PIPING SEGMENT. REFER TO XF406 FOR 4" SECONDARY PIPING LOCATION.
9. BRAYO ADHESIVE EPOXY KIT SHALL ONLY BE USED ON PRE-PLUMBED UNDER DISPENSER CONTAINMENT SUMP FITTINGS.
10. AMERON ADHESIVE EPOXY KIT SHALL BE USED ON ALL PIPE CONNECTION FITTINGS, STP SUMP ENTRY FITTINGS AND TRANSITION SUMP ENTRY FITTINGS.



J9 TRANSITION SUMP ISOMETRIC VIEW



NOTE: STP MANKAYS SHALL BE INSTALLED INLINE.

TANK NUMBERING:

TANK #1	15K UNLEADED #1
TANK #2	15K UNLEADED #2
TANK #3	15K UNLEADED #3
TANK #4	15K EO
TANK #5	15K PREMIUM
TANK #6	15K DIESEL

HYDROSTATIC SUMP TESTING STANDARD
NEW STORE

HYDROSTATIC TESTING OF ALL DISPENSER, TANK TOP, AND TRANSITION SUMPS WILL BE MANDATORY. ALL PETROLEUM PRODUCT, AND DIESEL EXHAUST FLUID SUMPS IN ALL MARKETS ARE TO BE INCLUDED.

DURING THE CONSTRUCTION PROCESS, ALL SUMPS SHOULD BE PROTECTED FROM STORMWATER, AND DEBRIS. CORROSION OF METALLIC PARTS PRIOR TO PLACING THE SITE INTO SERVICE SHOULD BE KEPT TO A MINIMUM.

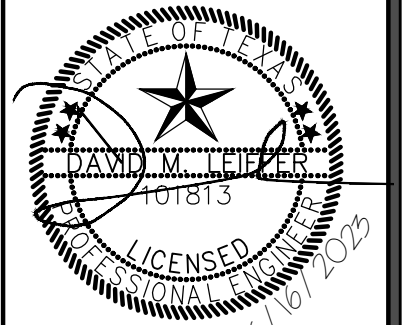
PRIOR TO TESTING THE FOLLOWING WORK WILL NEED TO BE COMPLETED.

- ALL EQUIPMENT INSTALLATION HAS BEEN COMPLETED WITHIN SUMPS, ALL BOOTS IN PLACE
- JUMPER TUBES CONNECTED WITHIN SUMP
- SUMPS HAVE BEEN CLEANED OF DIRT, AND DEBRIS
- ALL ELECTRICAL WORK HAS BEEN COMPLETED, AND INSPECTED

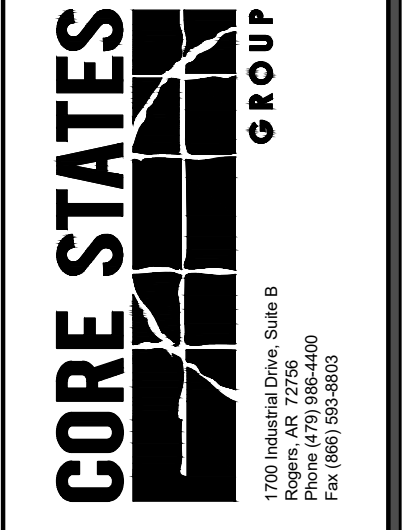
ALL TESTING WILL BE PERFORMED, AND PASSED PRIOR TO THE INTRODUCTION OF PETROLEUM, OR OTHER PRODUCTS TO TANKS, OR LINES.

TEST PROCESS:

- TESTS TO BE PERFORMED USING CLEAN MUNICIPALLY TREATED WATER.
- TEMPORARY CAPS TYPICALLY USED IN PLUMBING SYSTEMS WILL NEED TO BE USED TO SEAL ALL OPEN 4 INCH VENTILATION LINES IN TANK SUMPS.
- MAINTAIN 5 PSI OF PRESSURE ON SECONDARY PIPING UNTIL A PASSING RESULT IS OBTAINED
- TEST ALL SUMPS TO AN ELEVATION OF APPROX. 2 INCHS ABOVE THE HIGHEST SEALED PENETRATION.
- FOR THE PURPOSE OF CONSISTENCY QUIKTRIP WILL REQUIRE THE USE OF A "CALDWELL SUMP TESTER" AVAILABLE THROUGH CALDWELL INSTRUMENTS. PHONE #(916)259-4567.
- A PASSING TEST WILL REQUIRE NO MOVEMENT IN THE TEST DEVICE INDICATOR FOR A TERM OF ONE HOUR. A PRE-TEST MAY BE ADVISED TO DETERMINE THE EXISTENCE OF HIGH VOLUME LEAKS
- QUIKTRIP WILL REQUIRE THE REMOVAL OF ALL WATER IN SUMPS IMMEDIATELY AFTER PASSING TEST RESULTS ARE DOCUMENTED. THE REMOVAL OF CLEAN SYSTEM WATER SHOULD NOT REQUIRE ANY TYPE OF DISPOSAL CONSIDERATIONS.
- THE PROCESS FOR TESTING SUMPS, AND DISPOSING OF WATER ON FACILITIES THAT HAVE BEEN PLACED INTO OPERATION SHALL BE COORDINATED WITH QUIKTRIP REPRESENTATIVE PRIOR TO TESTING FOR APPROVAL FROM QUIKTRIP ENVIRONMENTAL GROUP.
- ALL SUMPS MUST PASS THIS TEST PRIOR TO THE INTRODUCTION OF MOTOR FUEL PRODUCTS INTO THE TANKS, OR LINES
- THIS TESTING PROCESS IS INTENDED TO COMPLY WITH QUIKTRIP'S DESIRE TO VERIFY THAT ALL SUMPS ARE LIQUID TIGHT PRIOR TO OPERATING ANY SYSTEM. THIS TESTING PROCESS MAY NEED TO BE MODIFIED IN ORDER TO COMPLY WITH STATE BY STATE REQUIREMENTS.
- REPORTING WILL BE REQUIRED BY SITE, AND BY SUMP. DOCUMENTATION SHALL BE FORWARDED TO THE QUIKTRIP ENVIRONMENTAL GROUP ALONG WITH OTHER REQUIRED FUEL SYSTEM DOCUMENTATION.



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DDF 308 #: 21.0024



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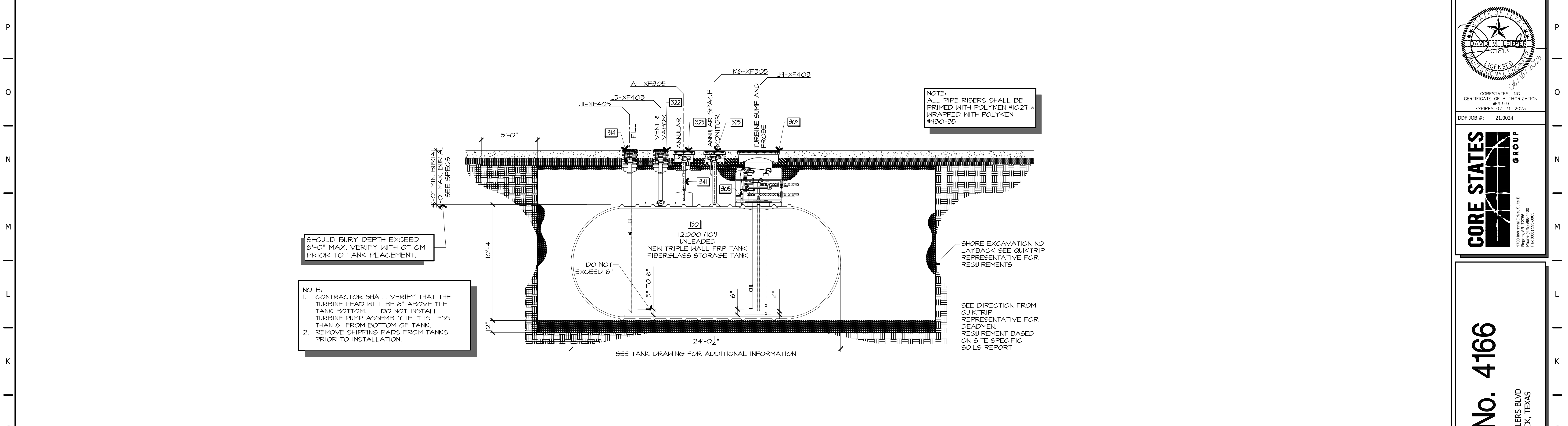
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DIVISION	AUSTIN
VERSION	G3E
DATE	11-01-2021

REV	DATE	DESCRIPTION
1	02/07/23	P112 REROLL
2	05/24/23	TANK REVISION

SHEET TITLE:
UNDERGROUND PIPING SYSTEM PLAN

SHEET NUMBER:
XF401

A1 PETROLEUM DISPENSING SYSTEM UNDERGROUND PIPING AND CONFIGURATION



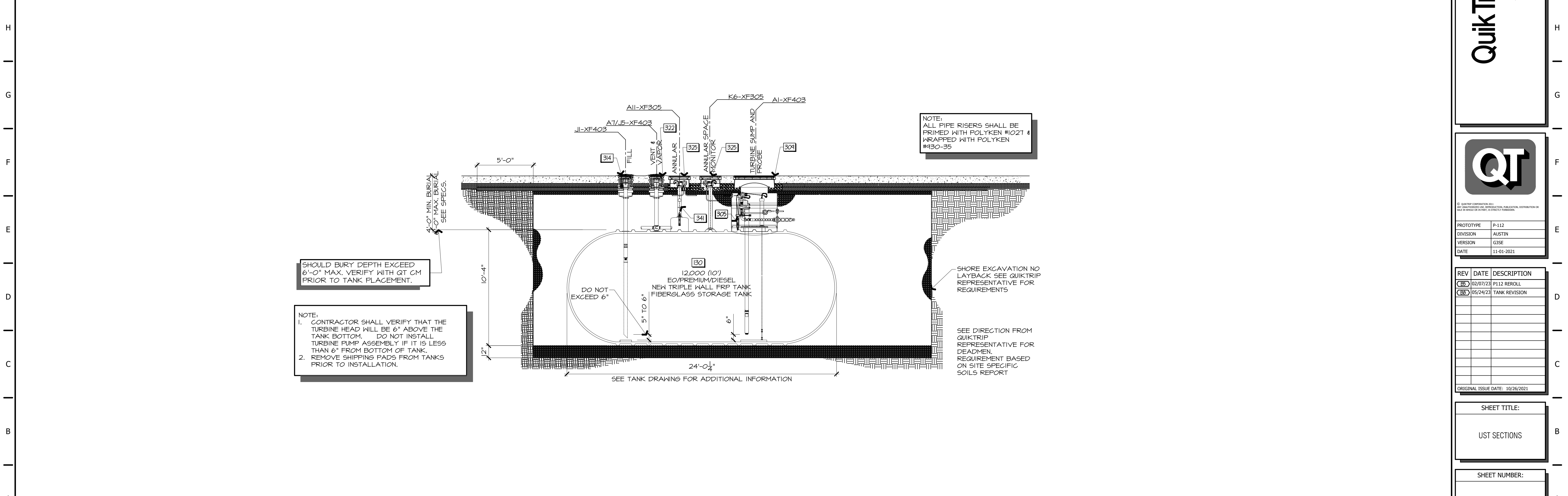
SHOULD BURY DEPTH EXCEED 6'-0" MAX. VERIFY WITH QT CM PRIOR TO TANK PLACEMENT.

NOTE:
 1. CONTRACTOR SHALL VERIFY THAT THE TURBINE HEAD WILL BE 6" ABOVE THE TANK BOTTOM. DO NOT INSTALL TURBINE PUMP ASSEMBLY IF IT IS LESS THAN 6" FROM BOTTOM OF TANK.
 2. REMOVE SHIPPING PADS FROM TANKS PRIOR TO INSTALLATION.

NOTE:
 ALL PIPE RISERS SHALL BE PRIMED WITH POLYKEN #102T & WRAPPED WITH POLYKEN #430-35

SHORE EXCAVATION NO LAYBACK SEE QUIKTRIP REPRESENTATIVE FOR REQUIREMENTS
 SEE DIRECTION FROM QUIKTRIP REPRESENTATIVE FOR DEADMEN. REQUIREMENT BASED ON SITE SPECIFIC SOILS REPORT

J1 15K TANK MECHANICAL - SECTION (B5 X B2) 1/4"=1'-0"



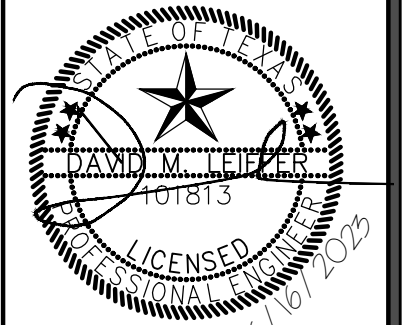
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NOTE:
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 2. REMOVE SHIPPING PADS FROM TANKS PRIOR TO INSTALLATION.

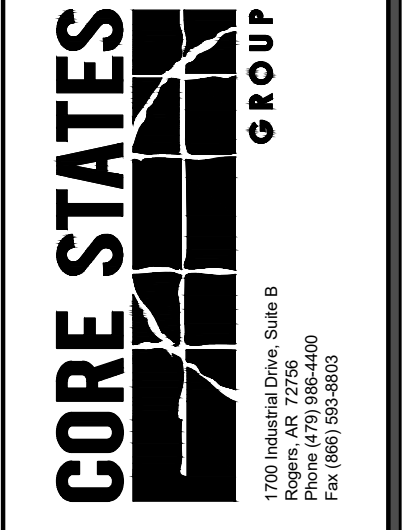
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 SEE DIRECTION FROM QUIKTRIP REPRESENTATIVE FOR DEADMEN. REQUIREMENT BASED ON SITE SPECIFIC SOILS REPORT

A1 15K TANK MECHANICAL - SECTION (B5 X B2) 1/4"=1'-0"



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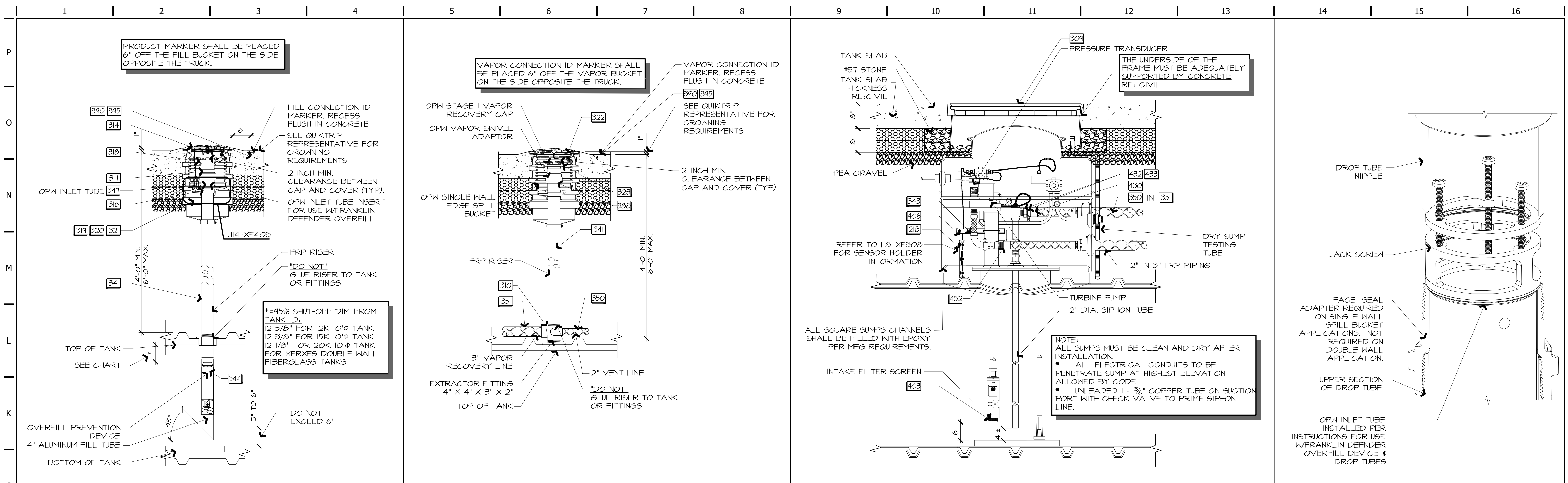
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DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
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(B2)	05/24/23	TANK REVISION

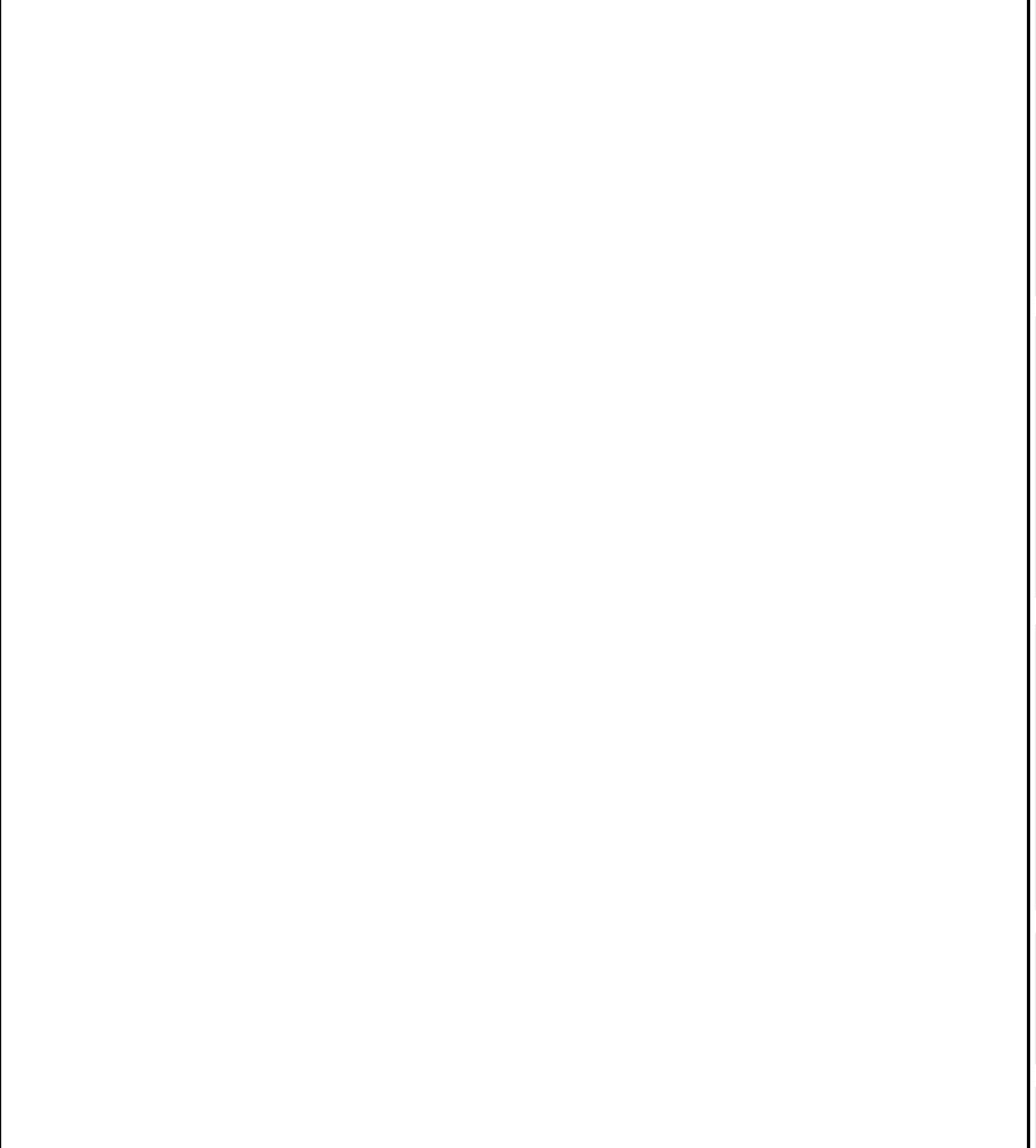
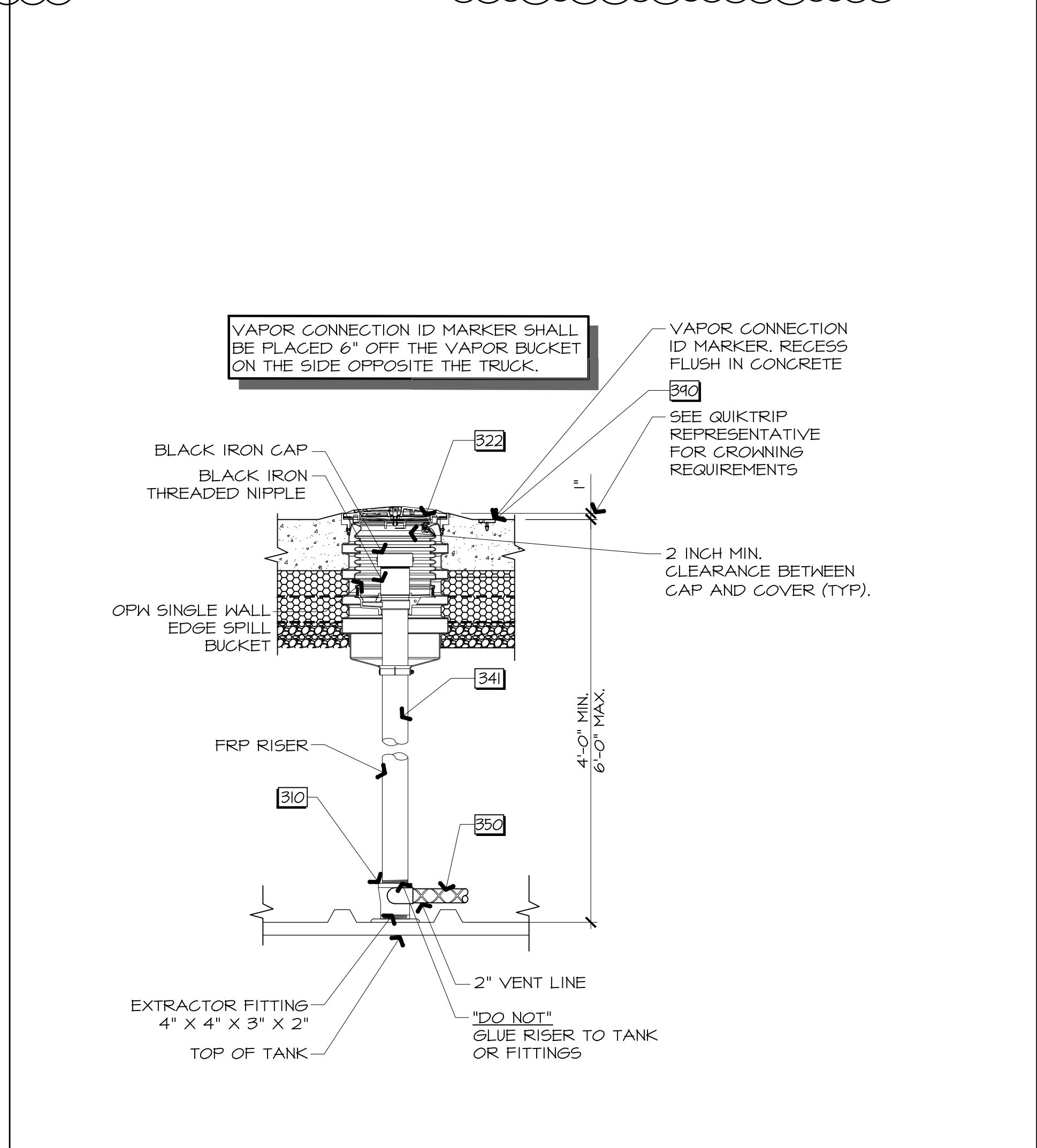
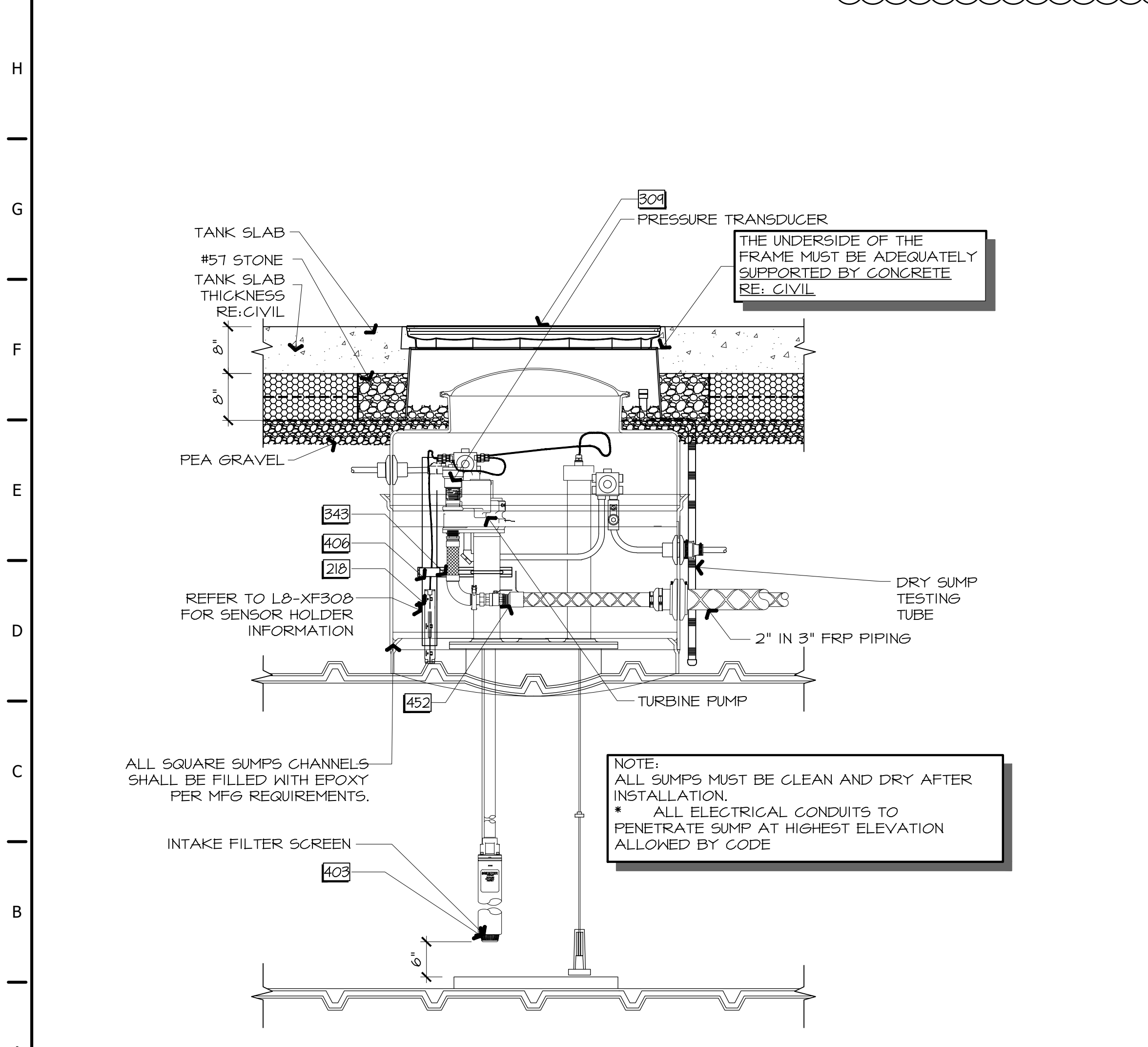
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 UST SECTIONS

SHEET NUMBER:
 XF402



J1 UST FILL DETAIL **J5 VAPOR RECOVERY DETAIL** **J9 UNLEADED TURBINE SUMP** **J14 JACK SCREW DETAIL**



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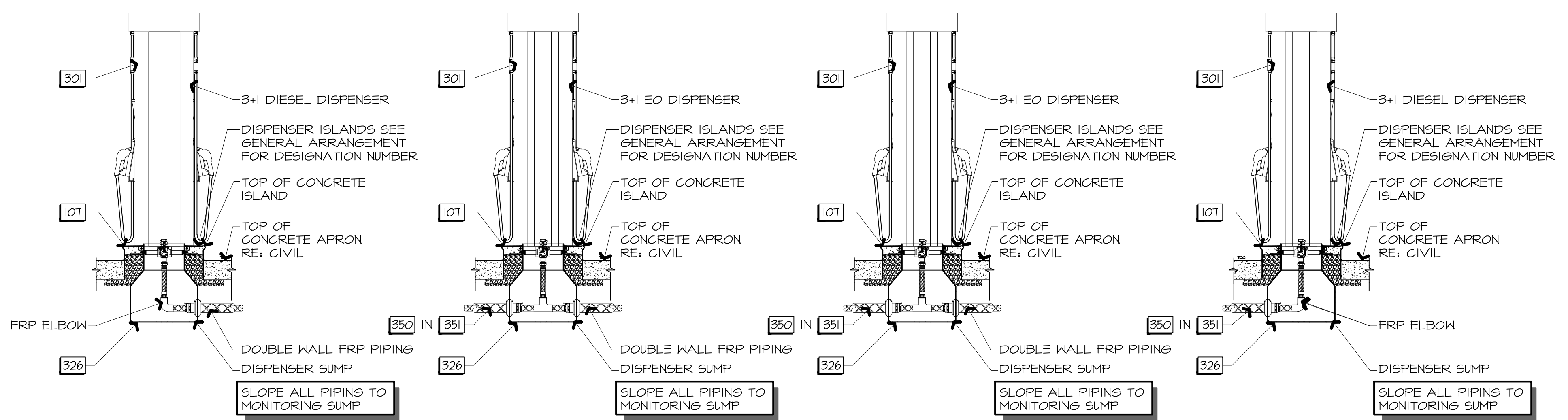
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BB	05/24/23	TANK REVISION

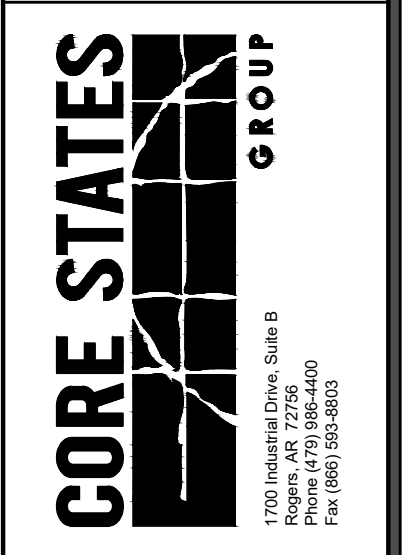
ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
TANK TOP EQUIPMENT DETAILS

SHEET NUMBER:
XF403



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 DATE 11-01-2021

REV	DATE	DESCRIPTION
02	02/07/23	P112 REROLL

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
 DISPENSER & ISLAND SECTION

SHEET NUMBER:
XF405

A1 DISPENSER SUMP-END VIEW ^{B5}
 3/8" = 1'-0" A1-XF404

NOTES:

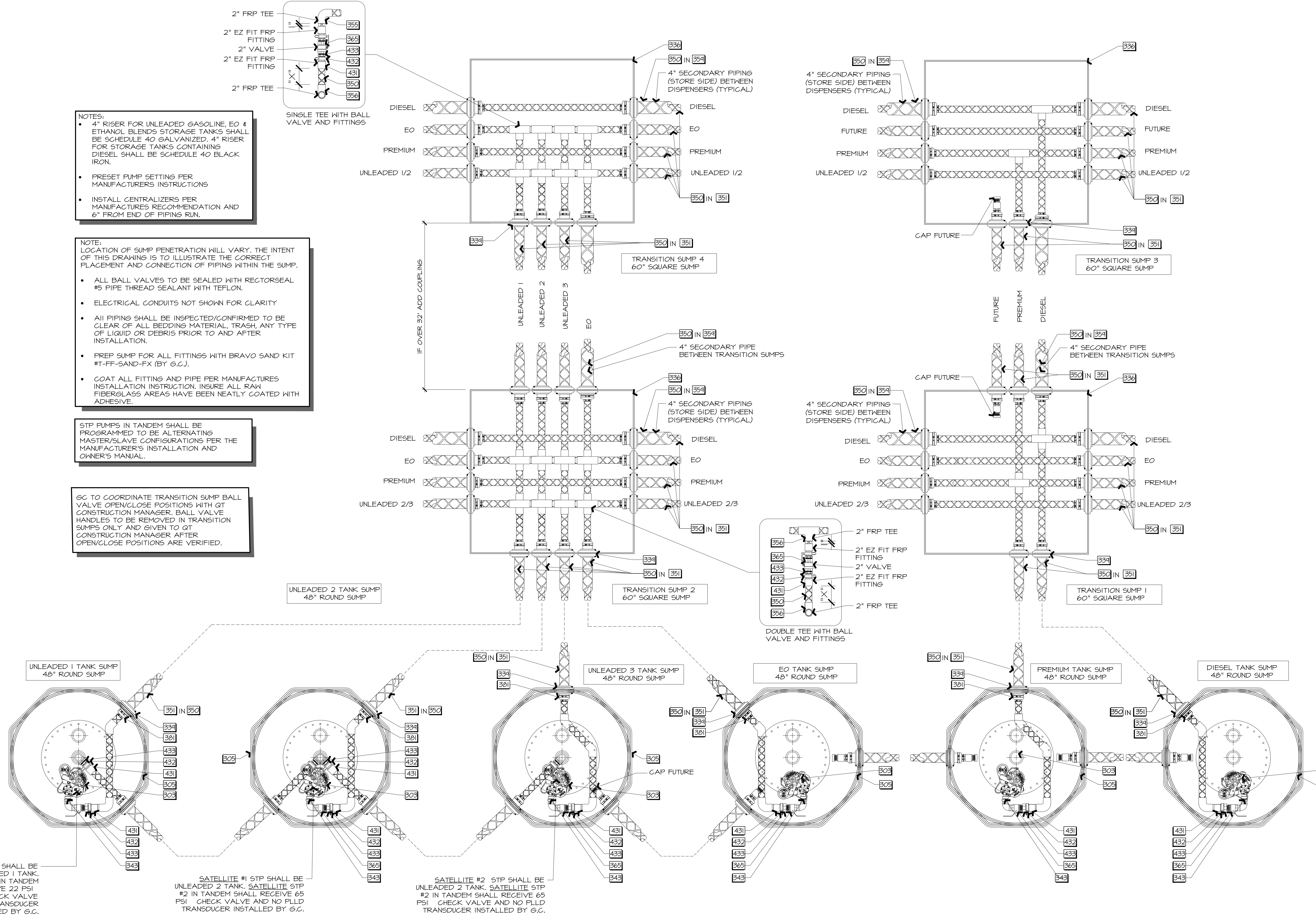
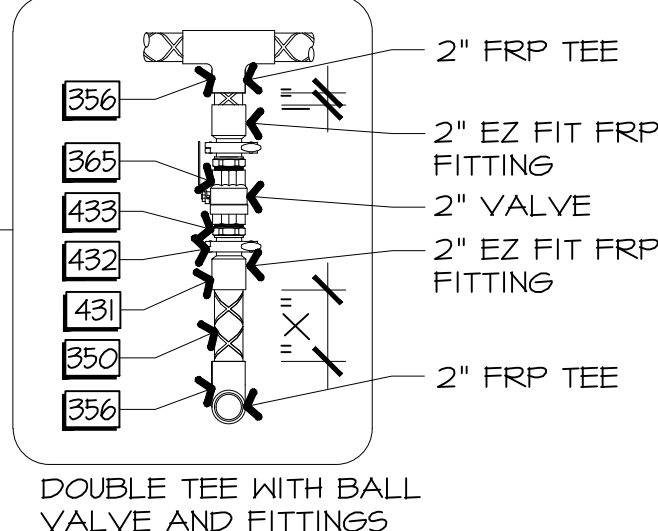
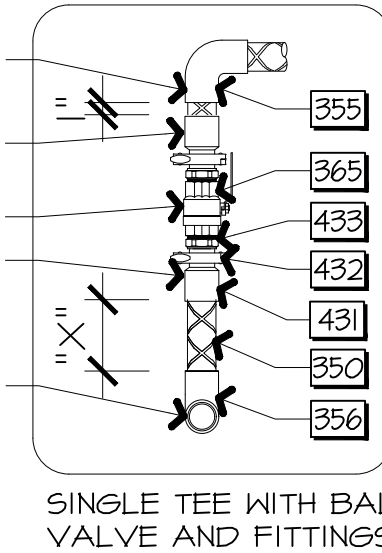
- 4" RISER FOR UNLEADED GASOLINE, EO & ETHANOL BLENDS STORAGE TANKS SHALL BE SCHEDULE 40 GALVANIZED. 4" RISER FOR STORAGE TANKS CONTAINING DIESEL SHALL BE SCHEDULE 40 BLACK IRON.
- PRESET PUMP SETTING PER MANUFACTURERS INSTRUCTIONS
- INSTALL CENTRALIZERS PER MANUFACTURERS RECOMMENDATION AND 6" FROM END OF PIPING RUN.

NOTE:
LOCATION OF SUMP PENETRATION WILL VARY. THE INTENT OF THIS DRAWING IS TO ILLUSTRATE THE CORRECT PLACEMENT AND CONNECTION OF PIPING WITHIN THE SUMP.

- ALL BALL VALVES TO BE SEALED WITH RECTORSEAL #5 PIPE THREAD SEALANT WITH TEFLON.
- ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY
- ALL PIPING SHALL BE INSPECTED/CONFIRMED TO BE CLEAR OF ALL BEDDING MATERIAL, TRASH, ANY TYPE OF LIQUID OR DEBRIS PRIOR TO AND AFTER INSTALLATION.
- PREP SUMP FOR ALL FITTINGS WITH BRAVO SAND KIT #T-FF-SAND-FX (BY G.C.).
- COAT ALL FITTING AND PIPE PER MANUFACTURES INSTALLATION INSTRUCTION. INSURE ALL RAW FIBERGLASS AREAS HAVE BEEN NEATLY COATED WITH ADHESIVE.

STP PUMPS IN TANDEM SHALL BE PROGRAMMED TO BE ALTERNATING MASTER/SLAVE CONFIGURATIONS PER THE MANUFACTURER'S INSTALLATION AND OWNER'S MANUAL.

GC TO COORDINATE TRANSITION SUMP BALL VALVE OPEN/CLOSE POSITIONS WITH QT CONSTRUCTION MANAGER. BALL VALVE HANDLES TO BE REMOVED IN TRANSITION SUMPS ONLY AND GIVEN TO QT CONSTRUCTION MANAGER AFTER OPEN/CLOSE POSITIONS ARE VERIFIED.



MASTER STP SHALL BE UNLEADED 1 TANK. MASTER STP IN TANDEM SHALL RECEIVE 22 PSI "TYPE R" CHECK VALVE AND PLLD TRANSDUCER INSTALLED BY G.C.

SATELLITE #1 STP SHALL BE UNLEADED 2 TANK. SATELLITE STP #2 IN TANDEM SHALL RECEIVE 65 PSI CHECK VALVE AND NO PLLD TRANSDUCER INSTALLED BY G.C.

SATELLITE #2 STP SHALL BE UNLEADED 2 TANK. SATELLITE STP #2 IN TANDEM SHALL RECEIVE 65 PSI CHECK VALVE AND NO PLLD TRANSDUCER INSTALLED BY G.C.

A1 TANK AND TRANSITION SUMP DETAILED PLAN (B5 X B0)
3/4" = 1'-0"



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EXPIRES 07-31-2023
DDF JOB #: 21.0024
CORE STATES GROUP
1700 W. SETTLERS BLVD. SUITE B
ROUND ROCK, TEXAS 78664
PH: (787) 306-4400
FAX: (787) 306-4400

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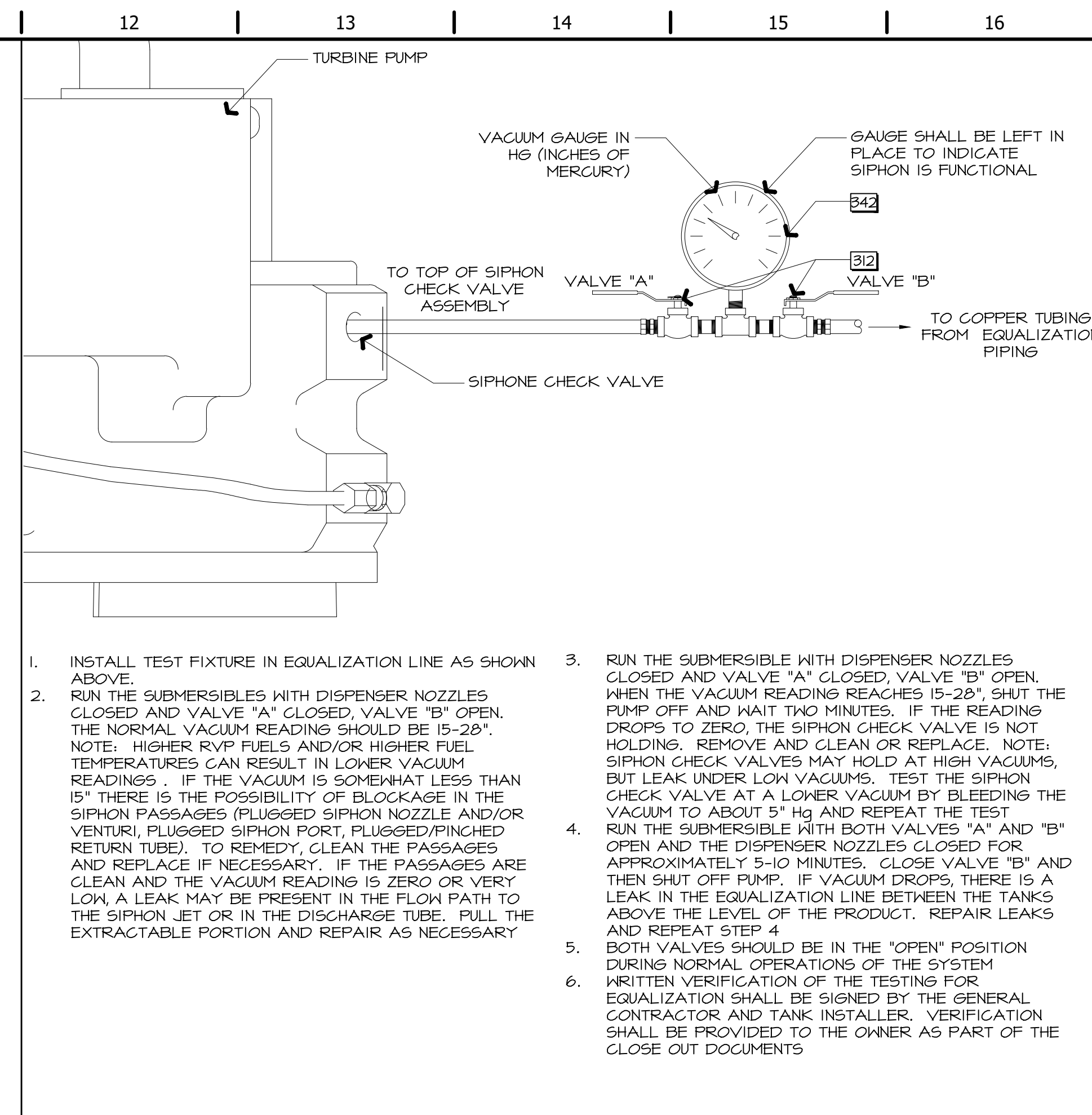
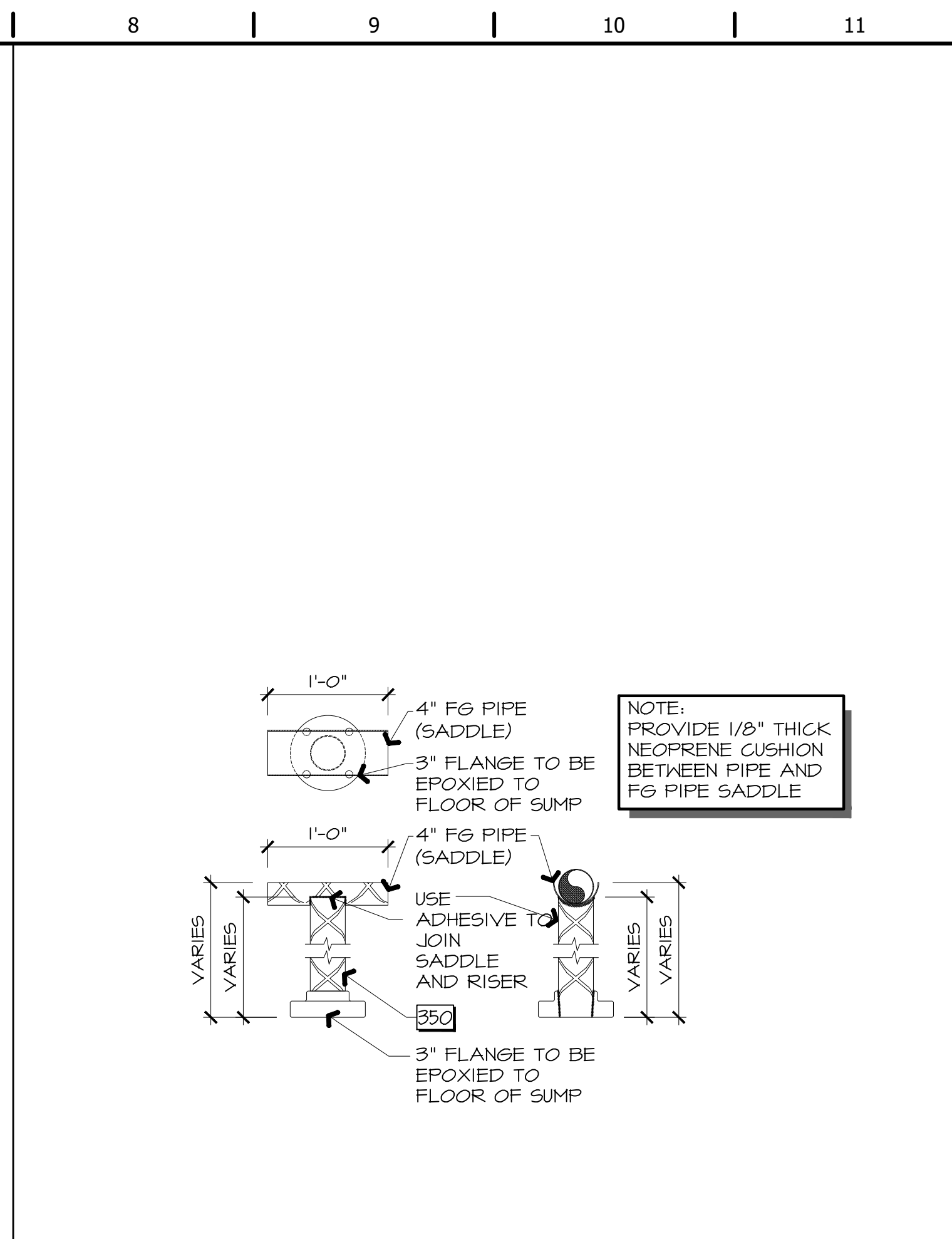
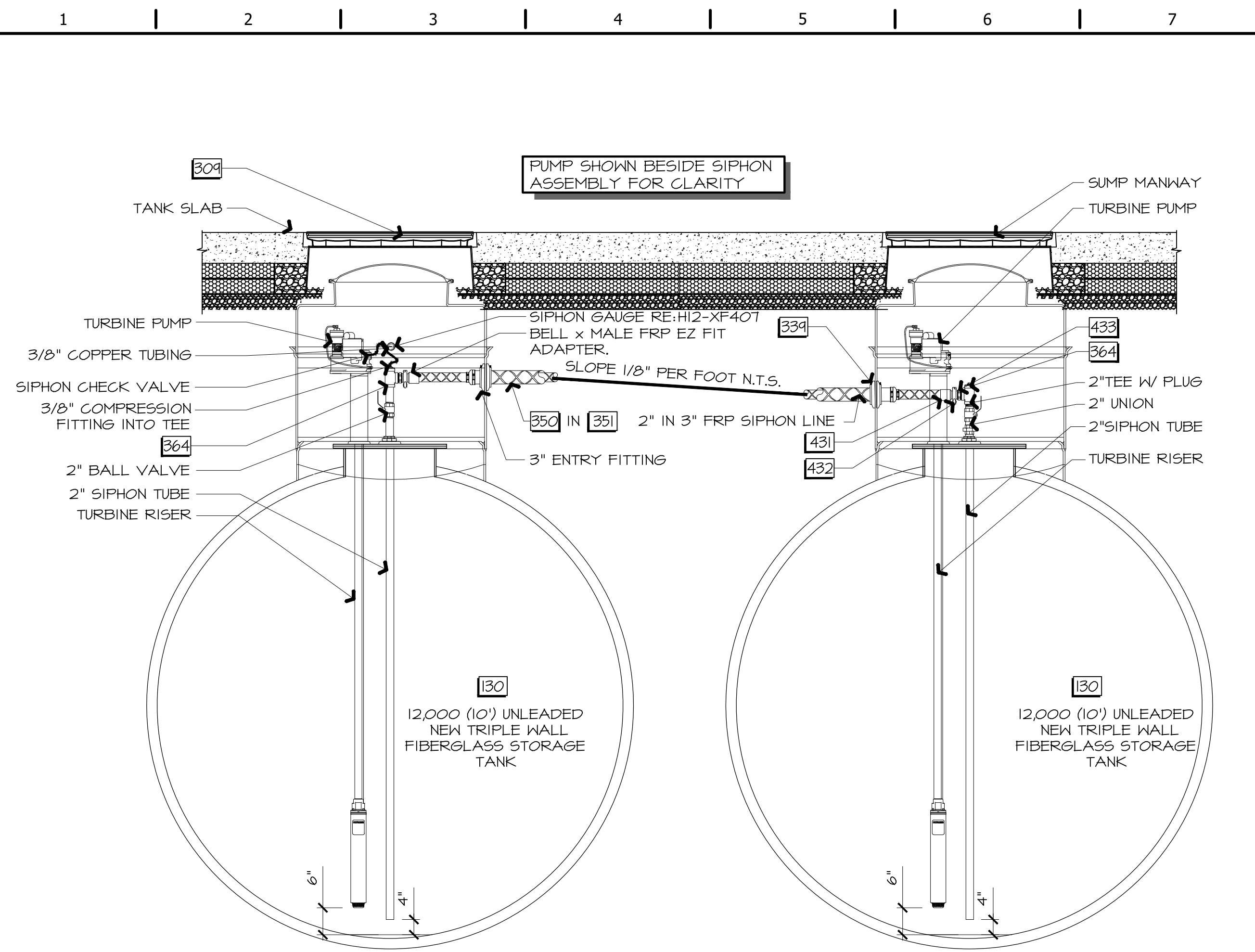
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PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
CB	02/07/23	P112 REROLL
CB	05/24/23	TANK REVISION

ORIGINAL ISSUE DATE: 10/26/2021

SHEET TITLE:
UST, TRANSITION SUMP AND MISCELLANEOUS DETAILS

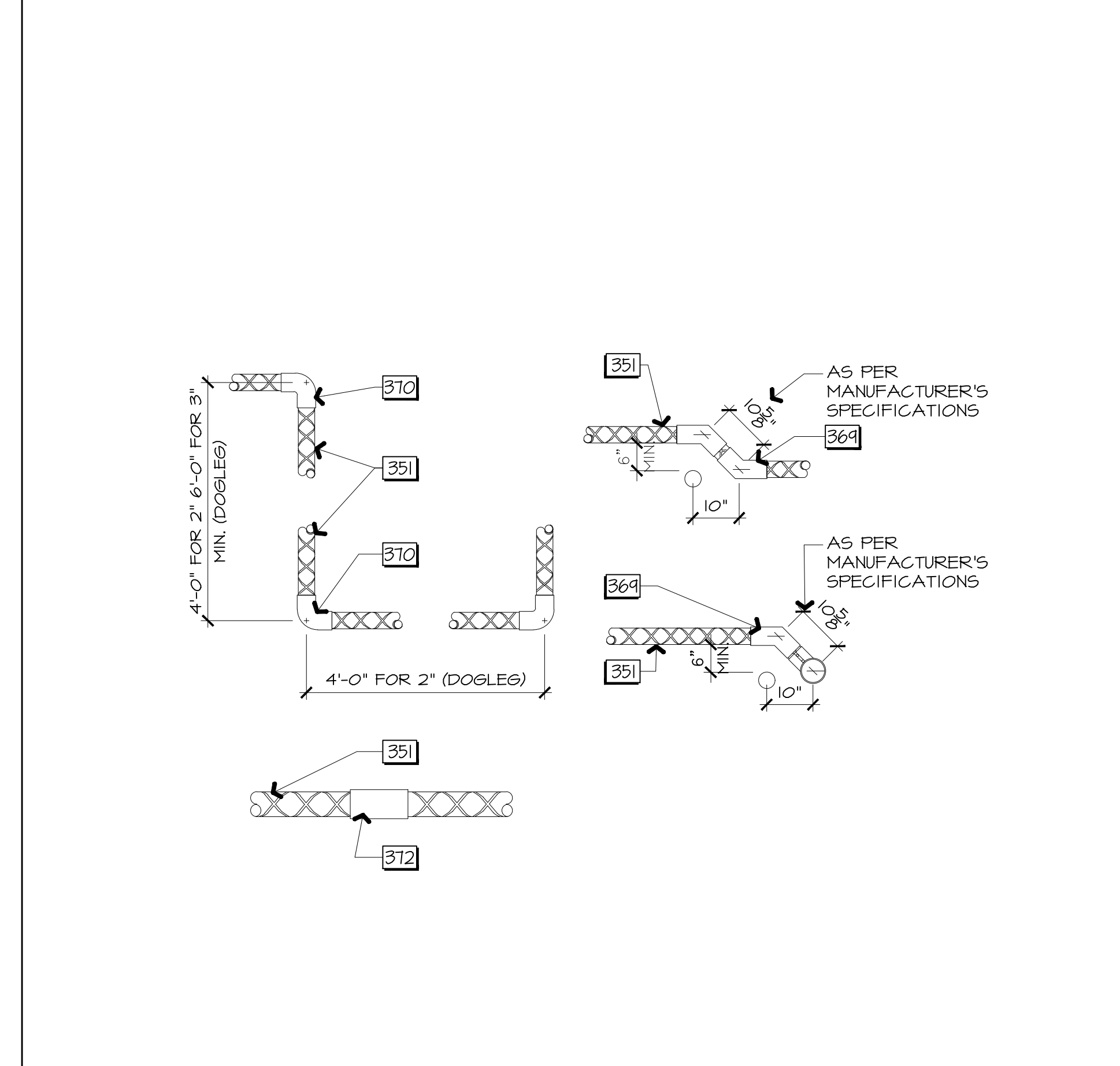
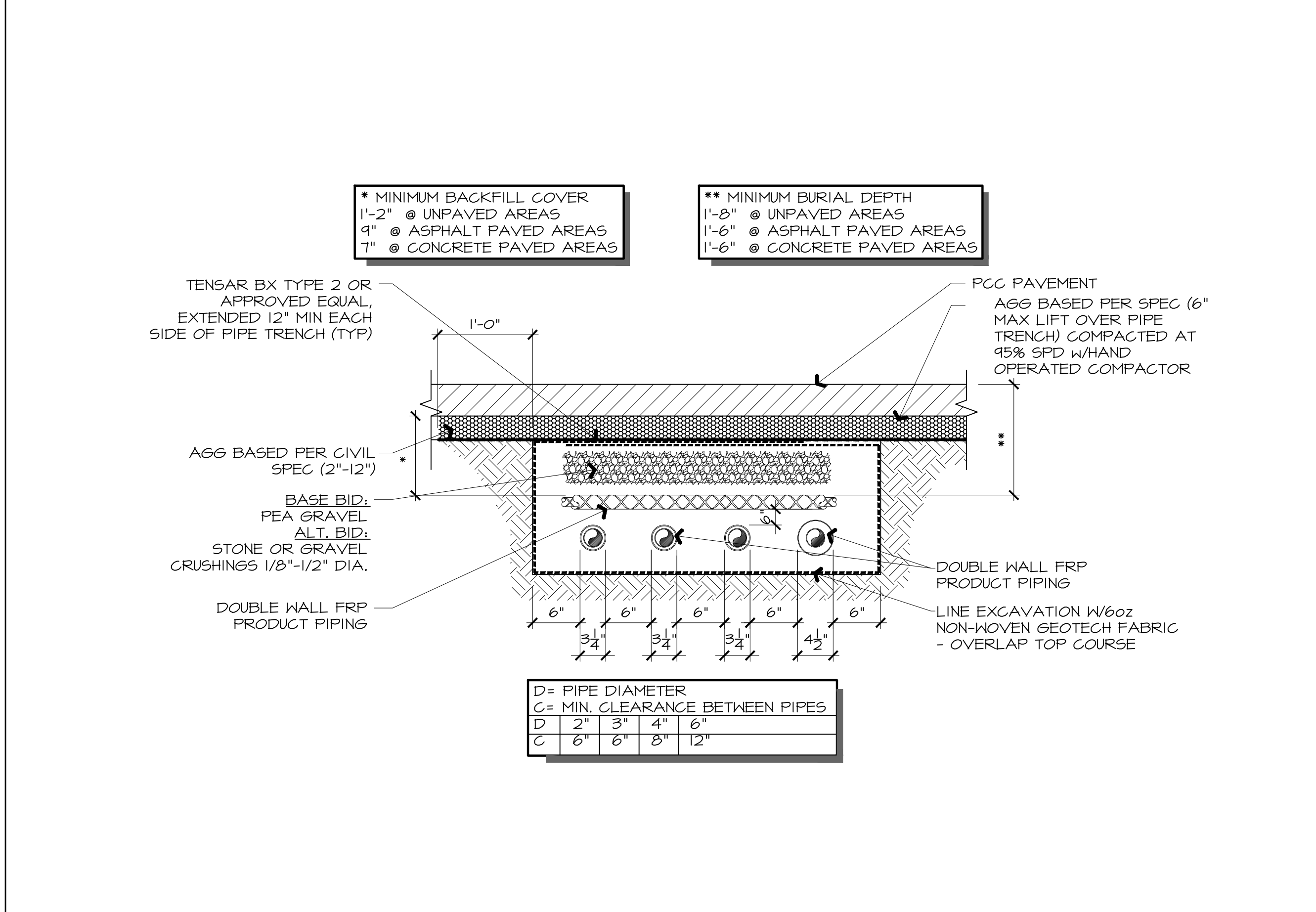
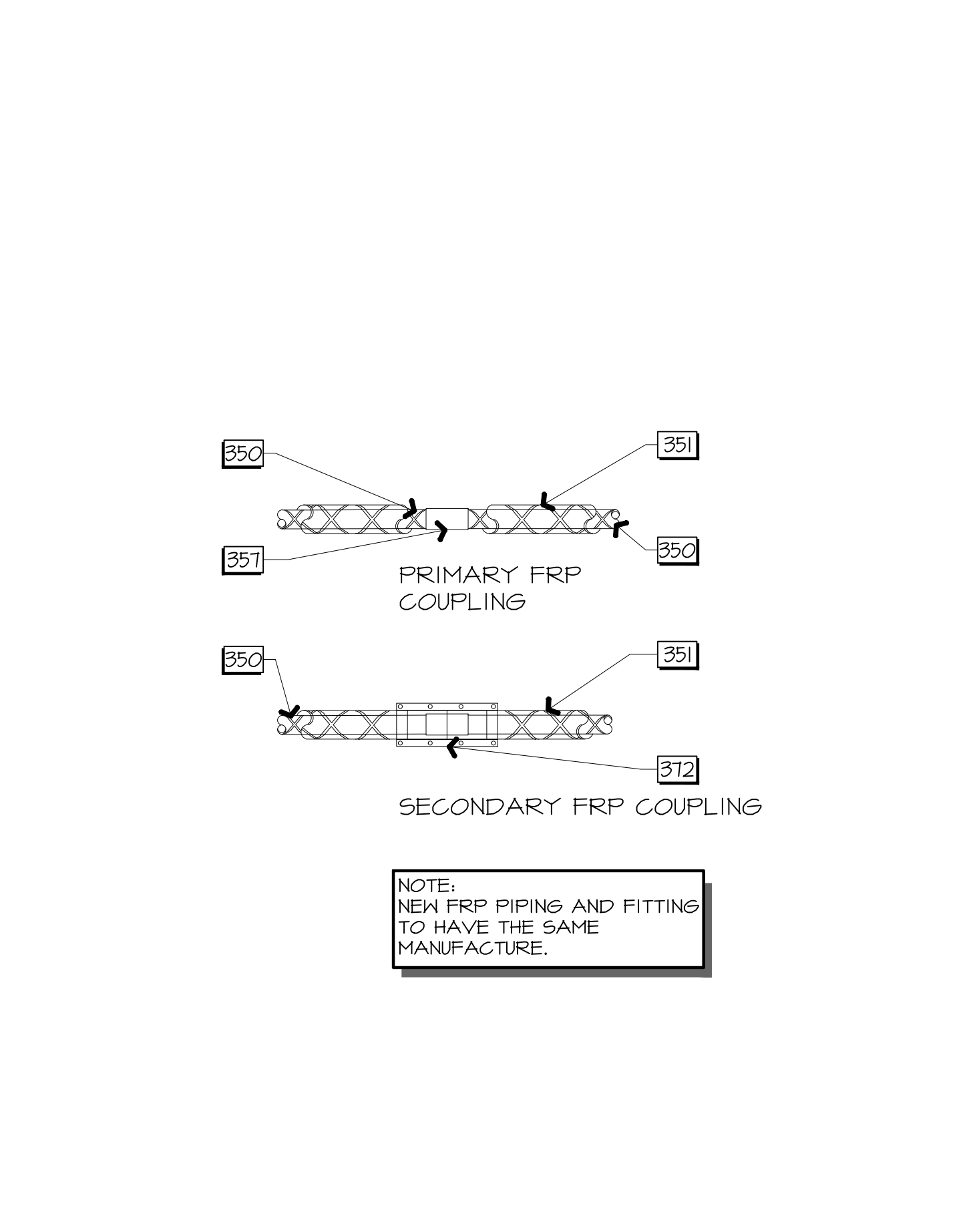
SHEET NUMBER:
XF406



H1 UNLEADED TANK SIPHON ONLY DETAILS
1/2" = 1'-0"

H8 PIPE SUPPORT IN TRANSITION SUMP DETAIL
1/2" = 1'-0"

H12 SIPHON GAUGE DETAIL



A1 DOUBLE WALL PIPE COUPLING DETAIL
1/2" = 1'-0"

A5 UNDERGROUND PIPING TRENCH AND COVER DETAIL
N.T.S.

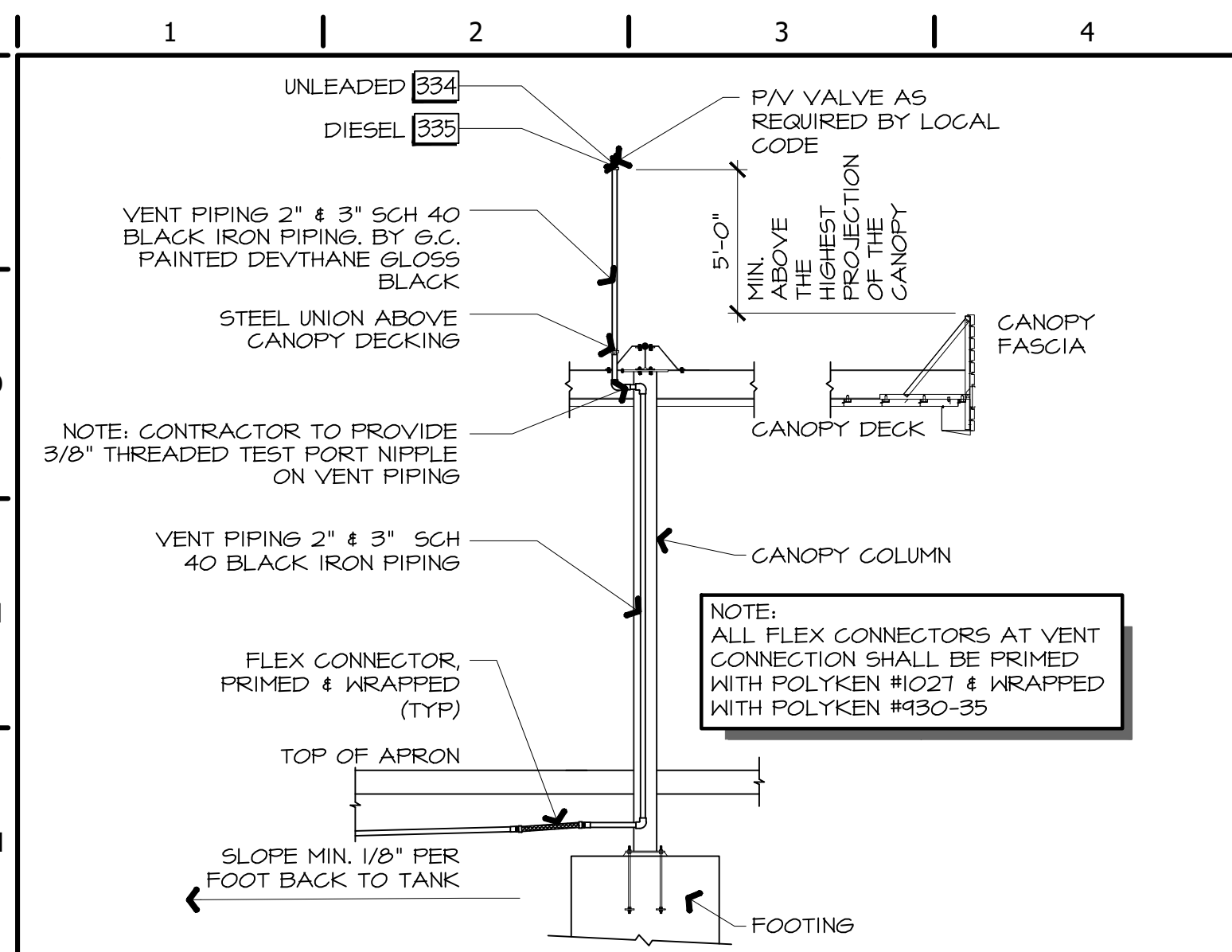
A12 FIBERGLASS PIPING FITTING AND CONNECTION TYPICAL DETAILS
N.T.S.

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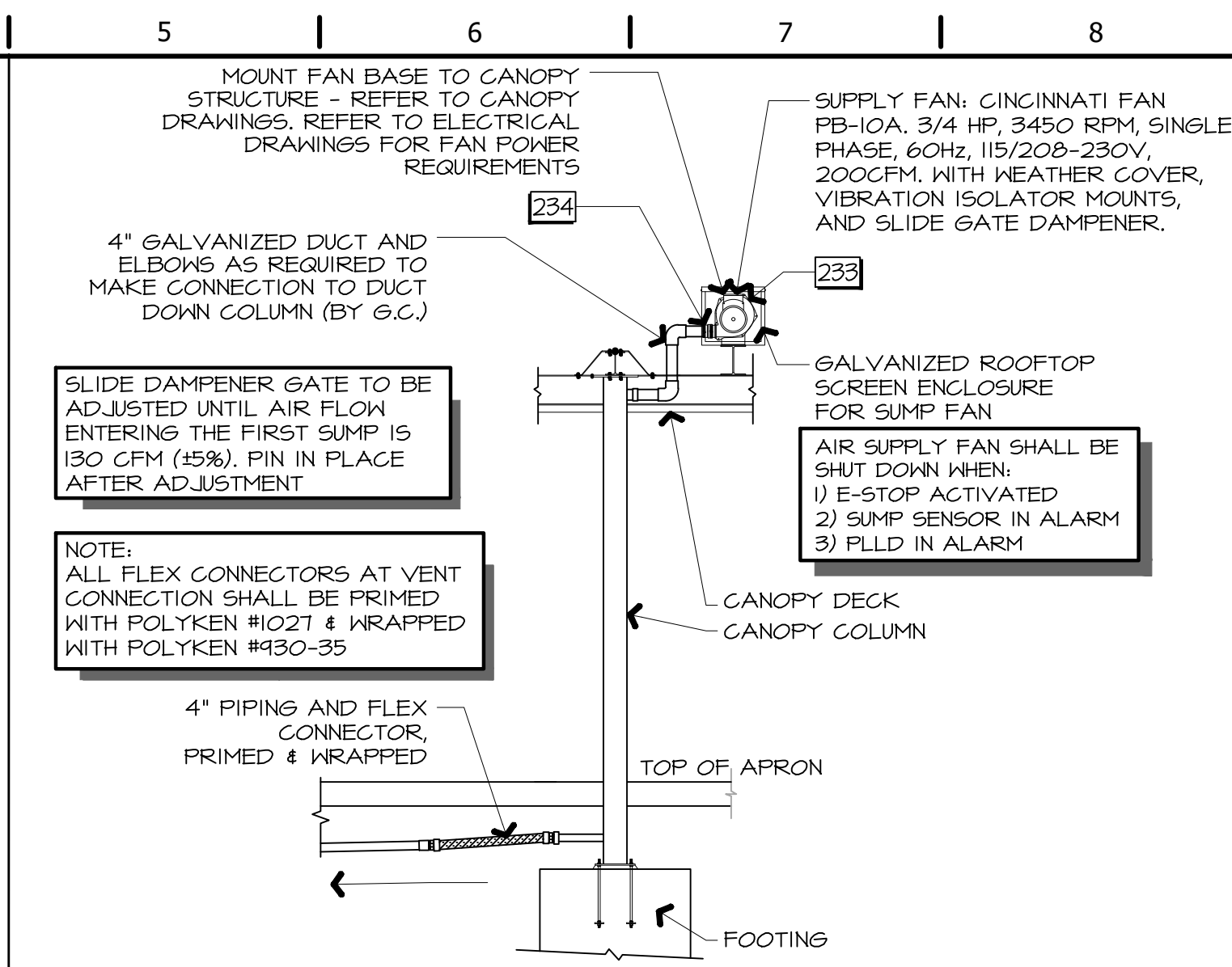
REV	DATE	DESCRIPTION
02	07/23	P112 REROLL

SHEET TITLE:
UST & PIPING DETAILS

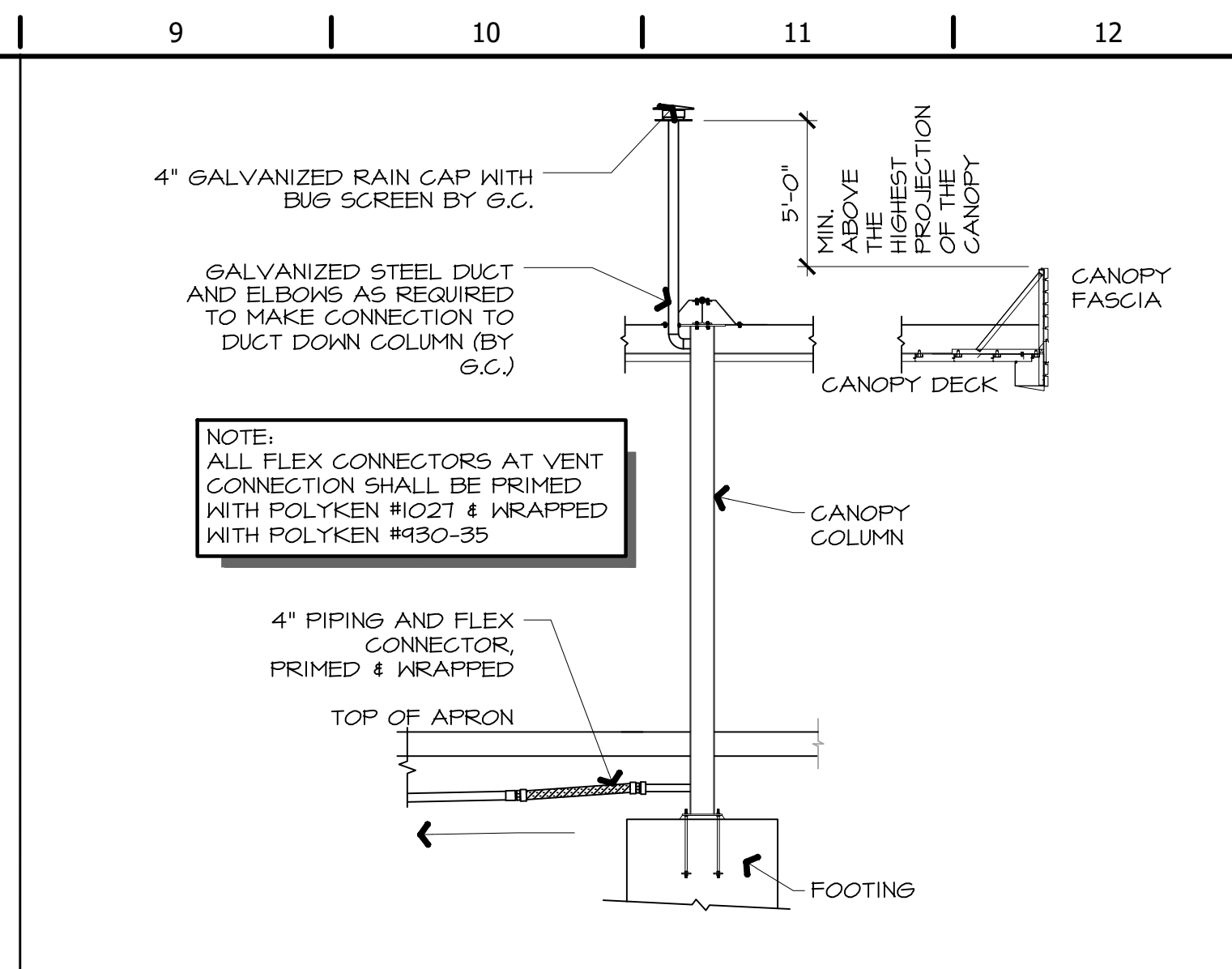
SHEET NUMBER:
XF407



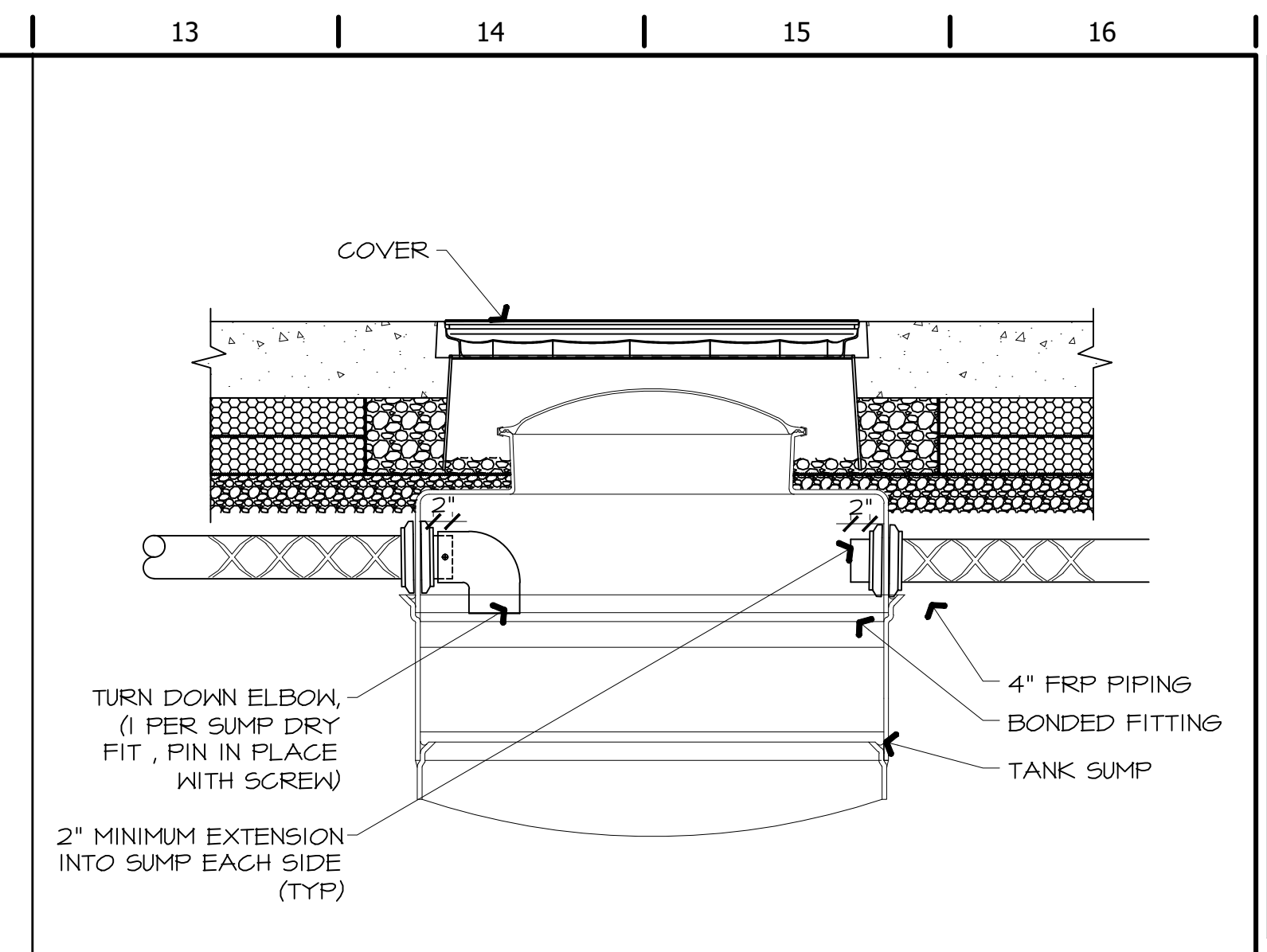
L1 VENT CONFIGURATION
3/16" = 1'-0"



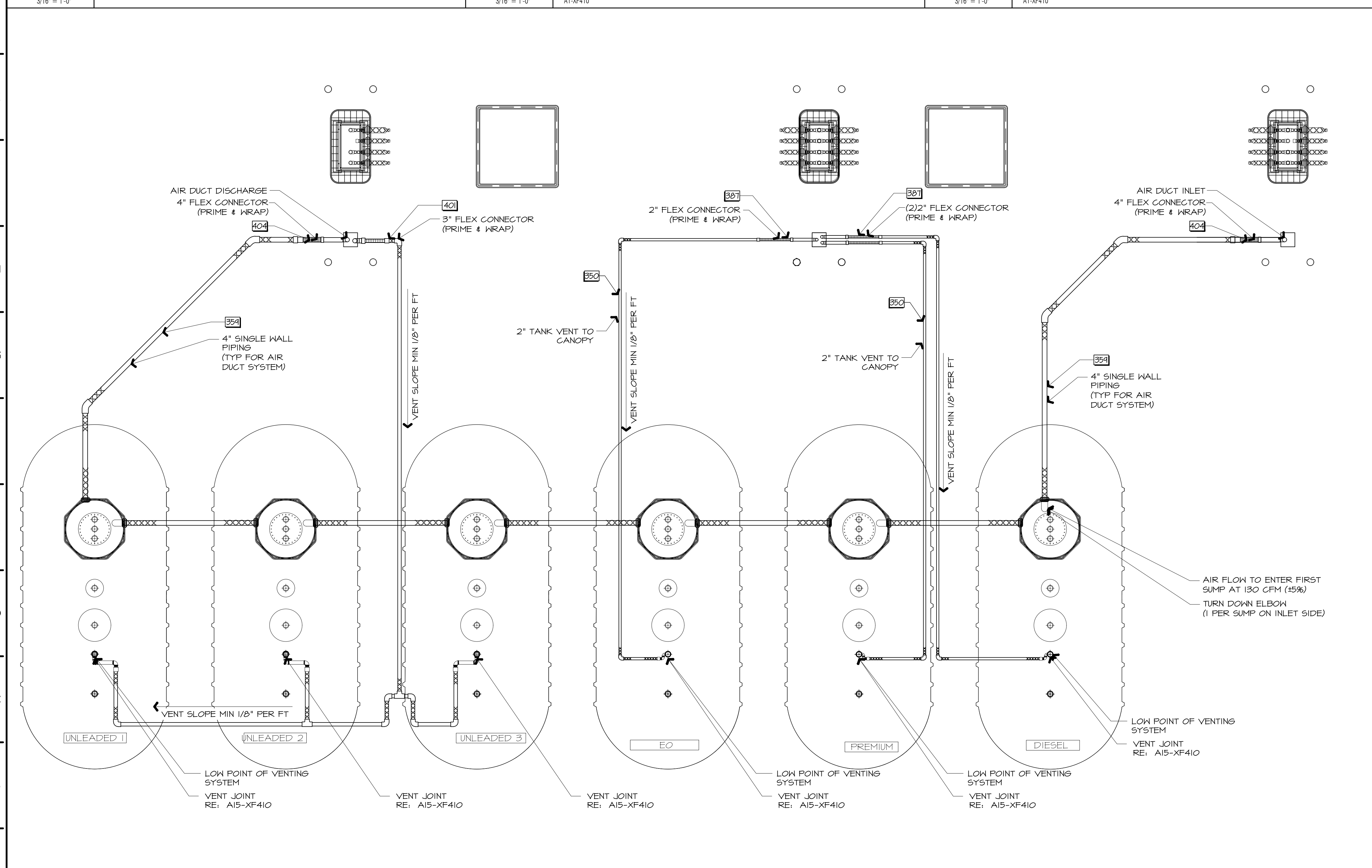
L5 SUMP VENTILATION INLET DETAIL
3/16" = 1'-0" A1-XF410



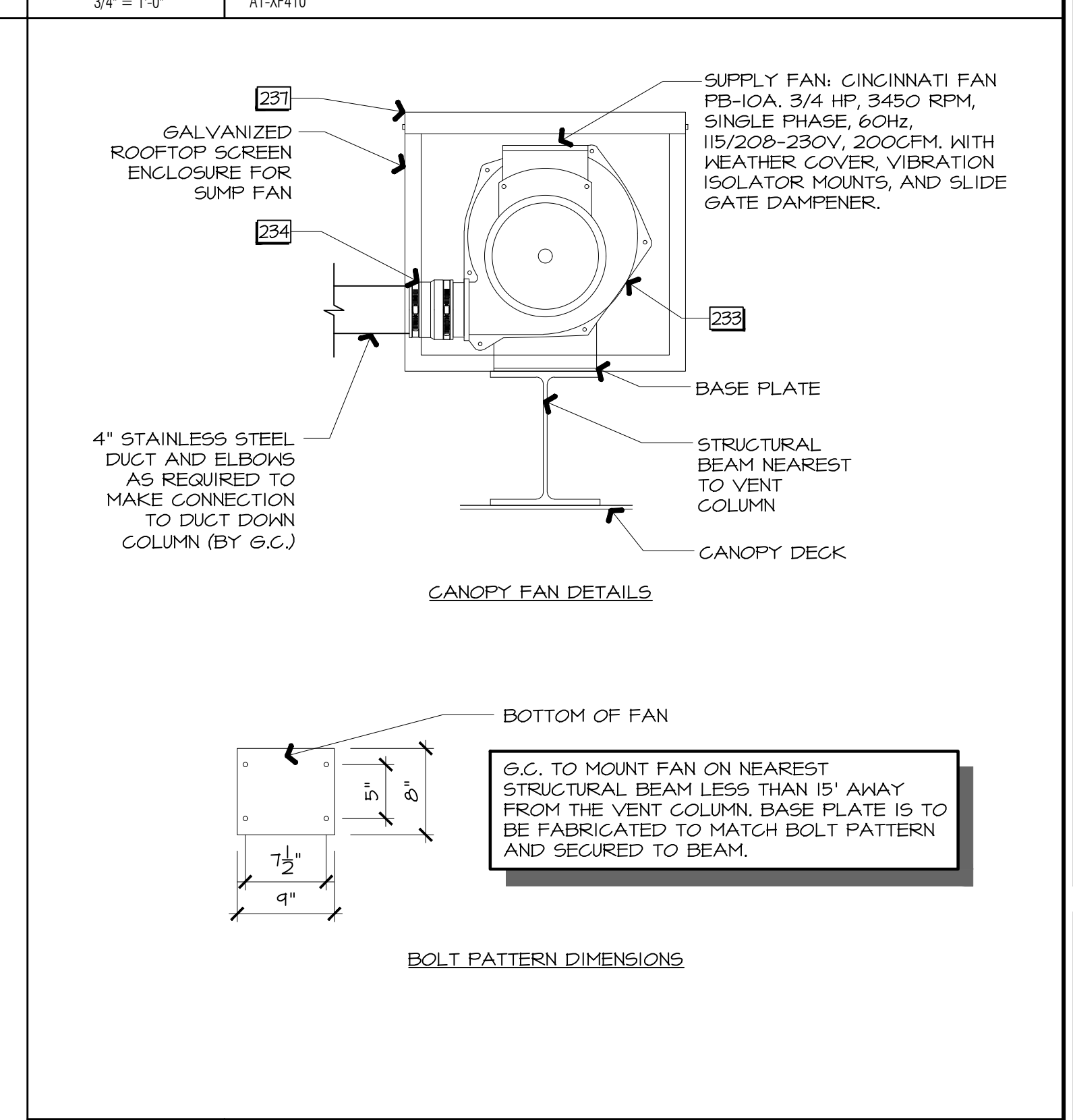
L9 SUMP VENTILATION DISCHARGE DETAIL
3/16" = 1'-0" A1-XF410



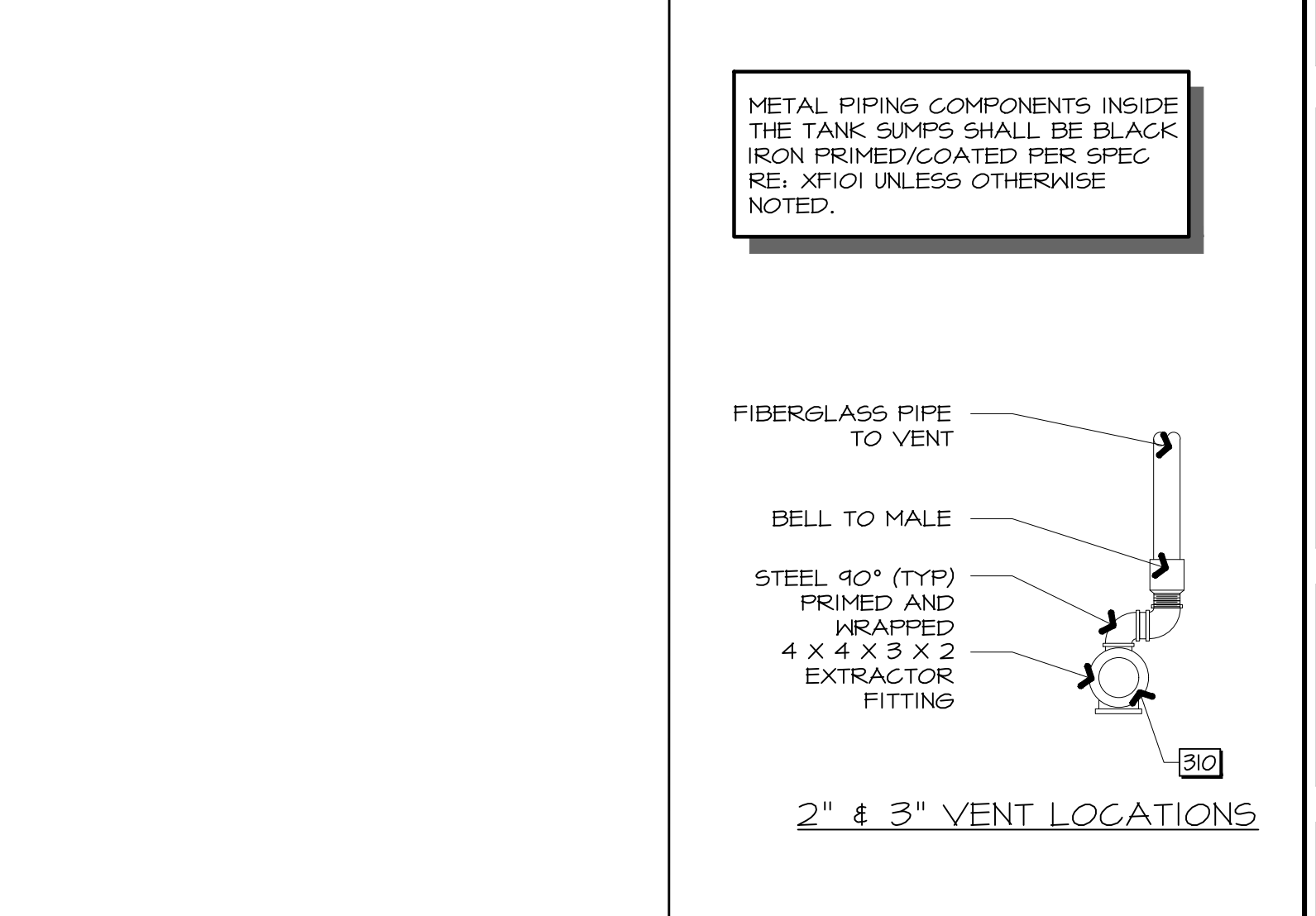
L13 SUMP SECTION
3/4" = 1'-0" A1-XF410



A1 VENT/DUCT PIPING ENLARGED DETAIL
1/4" = 1'-0"



E13 CANOPY FAN DETAILS
1" = 1'-0" A1-XF410



A15 SWING JOINT DETAIL
1" = 1'-0" A1-XF410

QuikTrip No. 4166
701 W SETTLERS BLVD
ROUND ROCK, TEXAS

PROTOTYPE	P-112
DIVISION	AUSTIN
VERSION	G3SE
DATE	11-01-2021

REV	DATE	DESCRIPTION
05/24/23		TANK REVISION

SHEET TITLE:
VAPOR, VENT DETAILS

SHEET NUMBER:
XF410

LEGEND			
EQUIPMENT LOCATION ON SITE			
ABBREVIATION	INSTALLATION LOCATION IN SYSTEM		
U.A.	UST AREA		
D.A.	DISPENSER AREA		
U.S.	UST SUMP		
T.S.	TRANSITION SUMP		
D.S.	DISPENSER SUMP		
T.T.E.	TANK TOP EQUIPMENT		
S.B.	STORE BUILDING		
COUNTY / AREA SENSITIVE EQUIPMENT			
ABBREVIATION	FACILITY LOCATION	STATE	VAPOR RECOVERY REQUIRED
(ATL)	ATLANTA AREA	GEORGIA	STAGE I
(DAL)	DALLAS AREA	TEXAS	STAGE I
(OMA)	OMAHA AREA	NEBRASKA	STAGE I
(IWA)	IOWA AREA	IOWA	STAGE I
(STL)	ST. LOUIS AREA	MISSOURI	STAGE I
(PHX)	PHOENIX AREA	ARIZONA	STAGE I
(KC)	KANSAS CITY AREA	KANSAS	STAGE I
(WIC)	WICHITA AREA	KANSAS	STAGE I
(TUL)	TULSA AREA	OKLAHOMA	STAGE I
(TUC)	TUCSON AREA	ARIZONA	STAGE I
(NC)	CHARLOTTE AREA	N. CAROLINA	STAGE I
(SC)	SOUTH CAROLINA AREA	S. CAROLINA	STAGE I
PARTS LISTED IN BILL OF MATERIAL WITHOUT ADDED ABBREVIATION IN THE EQUIPMENT DESCRIPTION ARE STANDARD			

QUIKTRIP SUPPLIED / INSTALLED SUMMARY							
AREA AND ITEM DESCRIPTION	SUPPLIED BY OWNER / VENDOR		RECEIVED BY CONTRACTOR		INSTALLED BY CONTRACTOR		FINAL CONNECTIONS & TESTING BY CONTRACTOR
	T	U	S	R	I	N	
T UNDERGROUND TANKS							
1 GASOLINE TANKS	●				●	●	●
2 TANK ANCHORING EQUIPMENT	●				●	●	●
3 TANK TOP EQUIPMENT	●				●	●	●
4 SUBMERSIBLE PUMPS	●				●	●	●
G GAS CANOPY							
1 GAS CANOPY (NO LIGHTS)	●	●	●				●
2 CANOPY SIGNAGE	●	●	●				●
3 CANOPY ANCHOR BOLTS	●				●	●	●
4 DISPENSERS	●				●	●	●
5 DISPENSER NUMBERS, SIGNAGE & DECALS	●				●	●	●
6 PAPER TOWEL HOLDERS	●				●	●	●
7 FIRE EXTINGUISHERS & CABINETS	●				●	●	●
8 TRASH CANS	●				●	●	●
9 BUG BUCKETS/SQUEEGEES	●				●	●	●
10 COMMUNICATION	●	●					●
11 E-STOPS	●				●	●	●
12 FITTINGS AND PIPING	●				●	●	●
13 HOSES AND NOZZLES	●				●	●	●
14 CANOPY DRAINS AND DRAIN LINES	●				●	●	●
15 CANOPY LIGHTS	●				●	●	●
16 CAMERAS	●	●					●
17 INTERCOM SYSTEM	●				●	●	●
18 WIRING (POWER, DATA, & INTERCOM)	●				●	●	●
19 VEEDER ROOT SYSTEM	●				●	●	●
20 VEEDER ROOT WIRING (BELDEN 8760)	●				●	●	●
21 FUEL EQUIPMENT, DATA BOXES, GSM, PAM, ETC.	●				●	●	●
22 FUEL PRE- MANUFACTURED PANELS, TRANSFORMERS, UPS UNITS, & ISOLATION BOXES	●				●	●	●
23 CERAMIC TILE (CONTINENTAL SLATE C553 "ASIAN BLACK" 6X6, LATICRETE PERMACOLOR "BLACK" 22 GROUT)	●				●	●	●

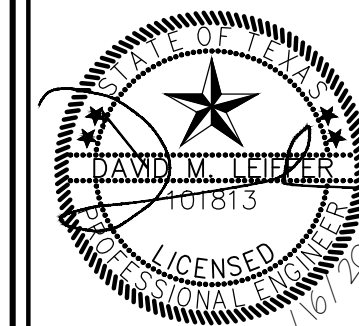
GENERAL EQUIPMENT					
TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
101	20,000 GALLON DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANKS.	OWNER	660-214-00	U.A.	-
102	12,000 GALLON DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANKS.	OWNER	660-216-00	U.A.	-
103	TANK HOLD DOWN STRAPS	OWNER	10 FOOT STRAP	U.A.	20
			8 FOOT STRAP		0
104	TURNBUCKLE - GALVANIZED	OWNER	10 FOOT TURNBUCKLE	U.A.	40
			8 FOOT TURNBUCKLE		0
105	CONCRETE DEADMAN CAST IN PLACE. SEE QUIKTRIP REPRESENTATIVE FOR REQUIREMENTS	CONTRACTOR	-	U.A.	-
106	NUMBER CURRENTLY NOT USED	-	-	-	-
107	STEEL ISLAND FORMS 2'-8"X5'-0"	OWNER	#RS-2.8X5I3 GALV	D.A.	4
	STEEL ISLAND FORMS 2'-8"X5'-0" (ADA)		#RS-163205I304GF		4
108	NUMBER CURRENTLY NOT USED	-	-	-	-
109	DEEP BURY TANK STICK 3 PG 20'	OWNER	B3-3520	U.A.	1
110	NUMBER CURRENTLY NOT USED	-	-	-	-
111	FIRE EXTINGUISHER MIN. SIZE AS PER LOCAL INSPECTOR	OWNER	SUPPLIED LOCALLY	D.A.	2
112	SAMSON IND. FIRE EXTINGUISHER CABINET WHITE W/ HAMMER AND CHAIN. SURFACE MOUNT OR EQUAL	OWNER	#9263230	D.A.	2
113	WASHER BUCKET W/GT GRAPHICS.	OWNER	DC-SWBC-GH	D.A.	16
114	NUMBER CURRENTLY NOT USED	-	-	-	-
115	12" DIA MONITOR/OBSERVATION WELL MANKAY	OWNER	OPW 104A0W-1200	U.A.	2
116	6 INCH DIA MONITOR/OBSERVATION WELL CAP	OWNER	GRAINGER- 2T0261	U.A.	2
117	6 INCH FACTORY SLOTTED PVC PIPE, 2" SLOTS OR PER LOCAL REQUIREMENTS W/ CAPPED BOTTOM. ATLANTIC SCREEN OR EQUIV.	CONTRACTOR	-	U.A.	-
118	18" DIA MONITOR/OBSERVATION WELL MANKAY	OWNER	OPW 104A0W-1800	U.A.	1
119	12" DIA MONITOR/OBSERVATION WELL CAP	OWNER	TITAN CAP-12	U.A.	1
120	12" FACTORY SLOTTED PVC PIPE, 2" SLOTS OR PER LOCAL REQUIREMENTS W/ CAPPED BOTTOM. ATLANTIC SCREEN OR EQUIV.	CONTRACTOR	-	U.A.	-
121	STEEL BOLLARD W/ CAP AND SLEEVE BY 5/8" - SCH40 (END PAINTED BLUE)	OWNER	E823240	D.A.	16
122	STEEL BOLLARD W/ CAP AND SLEEVE BY 5/8" - SCH80 (END PAINTED GREEN)	OWNER	E826216	D.A.	16
123	BACKFILL SHIELD MATERIAL APPROVED BY SITE REPRESENTATIVE	CONTRACTOR	-	U.A.	-
124	20,000 GALLON DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANKS.	OWNER	660-225-00	U.A.	-
125	19,500 GALLON, COMPARTMENTAL DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANK, 10/4500 SPLIT, PREMIUM / PRODUCT X	OWNER	660-226-00	U.A.	-
126	12,000 GALLON DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANKS.	OWNER	660-223-00	U.A.	-
127	NUMBER CURRENTLY NOT USED	-	-	-	-
128	19,500 GALLON, COMPARTMENTAL DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANK, 10/4500 SPLIT, PREMIUM / PRODUCT X	OWNER	660-221-00	U.A.	-
129	12,000 GALLON DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANK (10' DIAMETER)	OWNER	660-224-00	U.A.	-
130	12,000 GALLON DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANK (10' DIAMETER) SW CONTAINMENT COLLAR AND 60" HIGH 8 SIDED SW SUMP WITH 36" DIA WATERTIGHT TOP COVER	OWNER	658-245-04	U.A.	6

SUBMERSIBLE PUMP OPTIONS	
VERTICAL 6-8 LAYOUTS	DOUBLE STACKED 9-12 LAYOUTS
4HP PUMP FOR UNLEADED 1	4HP PUMP FOR UNLEADED 1
4HP PUMP FOR UNLEADED 2	4HP PUMP FOR UNLEADED 2
4HP PUMP FOR PREMIUM (IF <500' OF PIPING)	4HP PUMP FOR PREMIUM (IF <500' OF PIPING)
4HP PUMP FOR DIESEL (IF <500' OF PIPING)	4HP PUMP FOR DIESEL (IF <500' OF PIPING)
4HP PUMP FOR EO/FLEX FUEL (IF <500' OF PIPING)	4HP PUMP FOR EO/FLEX FUEL (IF <500' OF PIPING)
VERTICAL 9-12 LAYOUT	DOUBLE STACKED 14 LAYOUTS
4HP PUMP FOR UNLEADED 1	(2)4HP PUMP IN TANDEM FOR UNLEADED 1
4HP PUMP FOR UNLEADED 2	(2)4HP PUMP IN TANDEM FOR UNLEADED 2
4HP PUMP FOR PREMIUM (IF <500' OF PIPING)	4HP PUMP FOR PREMIUM (IF <500' OF PIPING)
4HP PUMP FOR DIESEL (IF <500' OF PIPING)	4HP PUMP FOR DIESEL (IF <500' OF PIPING)
4HP PUMP FOR EO/FLEX FUEL (IF <500' OF PIPING)	4HP PUMP FOR EO/FLEX FUEL (IF <500' OF PIPING)
DOUBLE STACKED 6-8 LAYOUTS	
4HP PUMP FOR UNLEADED 1	
4HP PUMP FOR UNLEADED 2	
4HP PUMP FOR PREMIUM (IF <500' OF PIPING)	
4HP PUMP FOR DIESEL (IF <500' OF PIPING)	
4HP PUMP FOR EO/FLEX FUEL (IF <500' OF PIPING)	

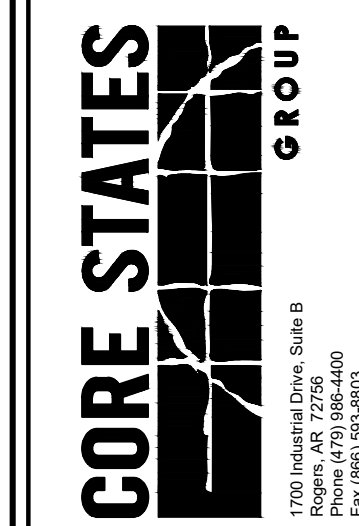
ELECTRICAL EQUIPMENT					
TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
201	NUMBER CURRENTLY NOT USED	-	-	-	-
202	NUMBER CURRENTLY NOT USED	-	-	-	-
203	NUMBER CURRENTLY NOT USED	-	-	-	-
204	NUMBER CURRENTLY NOT USED	-	-	-	-
205	F.E. PETRO 2/4HP VFC PUMP CONTROL BOX	OWNER	MODEL FE-MAG-VFC	S.B.	6
206	NUMBER CURRENTLY NOT USED	-	-	-	-
207	ISLAND EMERGENCY SHUTDOWN SWITCH - PILLA ELECTRICAL PRODUCTS INC. - SURFACE MOUNT NEMA	CONTRACTOR	F9120M0 GRYCLM	D.A.	-
208	E-STOP BUTTON (INSTALLED AT RETAIL CASHIER)	CONTRACTOR	20C794	S.B.	-
209	NUMBER CURRENTLY NOT USED	-	-	-	-
210	WEATHER-PROOF JUNCTION BOX (INTRINSICALLY SAFE WIRING COMPONENTS)	CONTRACTOR	-	D.A./D.S./U.S./T.S.	-
211	EXPLOSION PROOF JUNCTION BOX	CONTRACTOR	-	-	-
212	SEAL FITTING (SIZE TO SUIT)	CONTRACTOR	-	-	-
213	UNION (SIZE TO SUIT)	CONTRACTOR	-	-	-
214	VEEDER-ROOT: TLS 450 CONSOLE W/PRINTER INCLUDES: USB/ETHERNET DUAL MODULE RS-232 DUAL INTERFACE MODULE UNIVERSAL SENSOR/PROBE MODULE UNIVERSAL INPUT/OUTPUT MODULE RISK MGMT LEAK DETECT - PILD INTELLIGENT PUMP CONTROL SOFTWARE	OWNER	VEEDER-ROOT: VR-860040-301	S.B.	1
215	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (8')	OWNER	VR-846346-107	T.T.E.	-
216	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (10')	OWNER	VR-846346-109	T.T.E.	6
217	NON-DISCRIMINATING STEEL TANK INTERSTITIAL SENSOR	OWNER	VR-744380-303	T.T.E.	6
218	VEEDER-ROOT SUMP SENSOR (w/12' CABLE)	OWNER	VR-744380-208	D.S./U.S./T.S.	18
	VEEDER-ROOT SUMP SENSOR (w/30' CABLE)		VR-744380-209		-
219	VEEDER-ROOT 4 INCH DIESEL FLOAT KIT W/10' CABLE	OWNER	VR-846400-011	T.T.E.	1
	VEEDER-ROOT PHASE SEP GAS FLOAT KIT W/10' CABLE		VR-846100-010		5
220	4" ATG CAP & ADAPTER	OWNER	305 XPA-1100AK EVR	T.T.E.	6
221	VEEDER-ROOT ELECTRONIC LINE LEAK DETECTOR	OWNER	VR-859080-001	U.S.	6
222	GILBARCO UNIVERSAL DISTRIBUTION BOX	OWNER	-	S.B.	1
223	3M INTERCOM 20 STATION COMM CONTROLLER MODEL 3M 4 STATION I/O CARD 3M COMBO STATION SELECTOR 3M CEILING SPEAKER CEILING T-BAR SUPPORT, ANS AMPLIFIER (10 WATT), B6-220	OWNER	E5-941-0064	S.B.	1
			E5-941-0063		-
			E5-941-0061		3
			78-6911-1530-3		3
			78-6911-1503-TB		1
224	NUMBER CURRENTLY NOT USED	-	-	-	-
225	NUMBER CURRENTLY NOT USED	-	-	-	-
227	PIPE TRACING TAPE - HANSON CO	OWNER	16632	-	1000 FT
230	ALTERNATIVE FLUIDS MAG PLUS PROBE - 10' TANK	OWNER	VR-846347-409	-	-
231	VEEDER-ROOT E85 FLOAT KIT-10' CABLE	OWNER	VR-846400-014	-	-
232	WINDY CITY - 18 AWG 2-CONDUCTOR SHIELDED CABLE	OWNER	FEP-18-02-0A5	-	10
233	CINCINNATI FAN (CANOPY) 3/4 HP SINGLE PHASE, 60HZ, 115/208-230V 200CFM, 3450 RPM WITH WEATHER COVER, VIBRATION ISOLATOR MOUNT AND SLIDE GATE DAMPENER.	OWNER	PB-10A E820006 SIDE DRAFT	-	1
234	CINCINNATI FAN (GROUND) 3/4 HP SINGLE PHASE, 60HZ, 115/208-230V 200CFM, 3450 RPM WITH WEATHER COVER, VIBRATION ISOLATOR MOUNT AND SLIDE GATE DAMPENER.	OWNER	PB-10A E820005 DOWN DRAFT	-	-
235	FERNGO 4" BOOT FOR CANOPY FAN	OWNER	1051-44	-	1
236	GALVANIZED SCREEN FAN ENCLOSURE	OWNER	E822810	-	1
237	GROUND MOUNTED FAN CAGE	OWNER	E817542	-	-
238	MULTIPORT SENSOR HOLDER	OWNER	AH-650450	-	-
239	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (11')	OWNER	VR-846346-111	T.T.E.	-
240	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (12')	OWNER	VR-846346-112	T.T.E.	-

NOTE: ALL EQUIPMENT INSTALLED BY CONTRACTOR UNLESS SPECIFIED OTHERWISE BY MANUFACTURER OR FIELD CONSTRUCTION MANAGER.

NOTE: THIS MATERIALS EQUIPMENT SCHEDULE IS NOT A COMPLETE LIST OF MATERIALS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MISCELLANEOUS EQUIPMENT, FITTINGS, MATERIALS AND DEVICES NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR TO COORDINATE MATERIALS DELIVERY SCHEDULE AND VERIFY EQUIPMENT COUNTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL EQUIPMENT ARRIVES AT SITE IN UNDAMAGED CONDITION. CONTRACTOR AND/OR SUBCONTRACTOR RESPONSIBLE TO CONFIRM ACTUAL QUANTITIES OF MATERIALS/EQUIPMENT NECESSARY FOR COMPLETE AND OPERABLE SYSTEM.



CORE STATES, INC.
CERTIFICATE OF AUTHORIZATION
#9349
EXPIRES 07-31-2023
DOF JOB #: 21.0024



QuikTrip No. 4166
701 W SETTLERS BLVD
ROUND ROCK, TEXAS



PROTOTYPE P-112
DIVISION AUSTIN
VERSION G3SE
DATE 11-01-2021

REV	DATE	DESCRIPTION
05/24/23		TANK REVISION

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
XF600

MECHANICAL EQUIPMENT

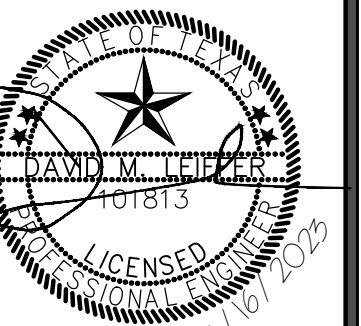
TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
301	GILBARCO ENCORE TOOS DISPENSERS, 3+0 BLENDER, MODEL NNI GASOLINE DISPENSER (REFURBISHED BY QT)	OWNER	NNI E646416	D.A.	-
	GILBARCO ENCORE TOOS DISPENSERS, 3+1 BLENDER, MODEL NLI GASOLINE DISPENSER - DIESEL (OMA) & (IWA) 3 PRODUCT (1 HOSE)		NLI E646484		4
	GILBARCO ENCORE TOOS DISPENSERS, MODEL NGO GASOLINE DISPENSER (OMA) & (IWA) 4 PRODUCT (2 HOSES)		NGO E646468		-
	GILBARCO ENCORE TOOS DISPENSERS, MODEL NGO GASOLINE DISPENSER		NGI E647004		-
	GILBARCO ENCORE TOOS DISPENSERS, 3+1 BLENDER, MODEL NLI GASOLINE DISPENSER - EO		NLI E671191		4
	GILBARCO ENCORE TOOS DISPENSERS, 3+1 BLENDER, MODEL NLI GASOLINE DISPENSER - (DALLAS, TARRANT, COLIN, DENTON COUNTIES-EIS)		NLI E818033		0
302	FE PETRO SIPHON CHECK VALVE KIT	OWNER	400131431	U.S.	2
303	FE PETRO 4 HP, VARIABLE SPEED SUBMERGED PUMP - ONE SIPHON SIPHON CARTRIDGE PER PUMP, 24" BLACK IRON RISER, 22 PSI "TYPE R" CHECK VALVE. (UNLEADED)	OWNER	15TMV4-VL2 W/EPXY PAINTED & SS RISER	U.S.	7
	FE PETRO 2 HP, VARIABLE SPEED SUBMERGED PUMP, 24" BLACK IRON RISER (PREMIUM, EO, E15, DIESEL)		15TM-2 W/EPXY PAINTED & SS RISER		-
304	FE PETRO 65 PSI CHECK VALVE	OWNER	FE-402454931	U.S.	-
305	BRAVO DOUBLE WALL 48" ROUND CONTAINMENT SUMP, W/ BRINE SENSOR	OWNER	INCLUDED W/ XERXES TANK	U.A.	6
306	PETROLEUM CONTAINMENT 46" SQUARE CONTAINMENT TRANSITION SUMP	OWNER	TSM464650-3BO-QT	T.S.	-
307	NOT USED	-	-	-	-
308	48" ROUND FIBERGLASS SUMP COLLAR FROM TANK MANUFACTURER	OWNER	INCLUDED W/ XERXES TANK	U.S.	6
309	FIBERLITE 40" DIAMETER COMPOSITE COVER W/SKIRT	OWNER	FL100	U.S.	10
310	EXTRACTOR W/CAGE - OPW (4X4X3X2 CROSS)	OWNER	233-4432	T.T.E.	6
311	NON STAGE II SWIVEL - (ALL DIV EXCEPT PHX)	OWNER	H5-0350	D.A.	32
312	HOSEXRESS 1/4" BRASS BALL VALVE	CONTRACTOR	BBV25	U.A.	-
313	NOT USED	-	-	-	-
314	OPW DOUBLE WALL EDGE SPILL CONTAINER W/DRAIN VALVE	OWNER	ISC-3112D	T.T.E.	6
315	OPW FACE SEAL ADAPTER	OWNER	FSA-400-S	T.T.E.	6
316	OPW JACK SCREW (DROP TUBE LOCK)	OWNER	61J5K-44CB	T.T.E.	5
317	OPW (4") SWIVEL ADAPTER EVR (GAS)	OWNER	615ALP-1020-EVR	T.T.E.	+
318	OPW ADAPTER 4" TOP SEAL CAP	OWNER	OPW 634LPC-0400	T.T.E.	5
319	FILL TAG ID MARKER-UNLEADED	OWNER	US-FPI-125J	T.T.E.	3
320	FILL TAG ID MARKER-PREMIUM	OWNER	US-FPI-125P	T.T.E.	1
321	FILL TAG ID MARKER- DIESEL	OWNER	US-FPI-125D	T.T.E.	1
322	OPW SINGLE WALL EDGE SPILL BUCKET W/ PLUG (STANDARD)	OWNER	ISC-3101P	T.T.E.	6
323	OPW STAGE I VAPOR RECOVER CAP	OWNER	IT11T-1085-EVR	T.T.E.	5
324	VAPOR TAG ID MARKER-ORANGE,	OWNER	US-FPI-22	T.T.E.	6
325	FIBRELITE 18" FLAT SEALED COMPOSITE COVER, FRAME & SKIRT	OWNER	FL180	T.T.E.	12
326	BRAVO DOUBLE ENTRY CONDUITLESS DISPENSER SUMP FOR GILBARCO ENCORE W/FRAME (SW FRP) PRE PLUMBED- LEFT END	OWNER	B-1380-533-04 (ADA)	D.S.	-
	BRAVO DOUBLE ENTRY CONDUITLESS DISPENSER SUMP FOR GILBARCO ENCORE W/FRAME (SW FRP) PRE PLUMBED- RIGHT END		B-1380-533-40 (ADA)		2
	BRAVO DOUBLE ENTRY CONDUITLESS DISPENSER SUMP FOR GILBARCO ENCORE W/FRAME (SW FRP) PRE PLUMBED- MID		B-1380-533-44 (ADA)		2
	BRAVO DOUBLE ENTRY CONDUITLESS DISPENSER SUMP FOR GILBARCO ENCORE W/FRAME (SW FRP) PRE PLUMBED- LEFT END		B-1380-533-04 (ADA)		2
327	PETROLEUM CONTAINMENT SHEAR VALVE STABILIZER BARS (1 PER PRODUCT)	OWNER	SVA800	D.S.	24
328	OPW DOUBLE POPPET SHEAR VALVE PER PRODUCT	OWNER	IOP-0152	D.S.	24
329	LOW PROFILE VAPOR CAP	OWNER	IT11LPC-300	T.T.E.	-

MECHANICAL EQUIPMENT

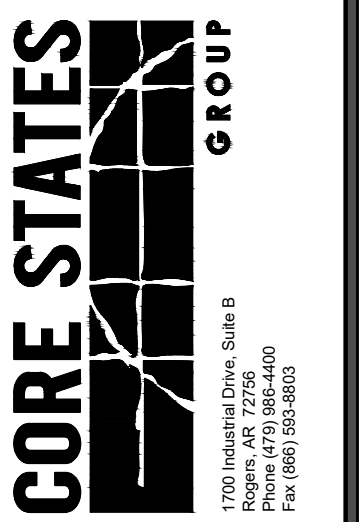
TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
330	PRODUCT NOZZLE: NON STAGE II AREA (STANDARD) OPW GASOLINE NOZZLE REGULAR AUTOMATIC-CLOSING	OWNER	IIBP-0400	D.A.	24
	PRODUCT NOZZLE: NON STAGE II AREA (DIESEL) OPW DIESEL NOZZLE REGULAR AUTOMATIC-CLOSING (OMA) & (IWA)		IIB-0400		8
	HUSKY GASOLINE NOZZLE REGULAR AUTOMATIC-CLOSING (OMA) & (IWA)		154554-04-04		-
	HUSKY DIESEL NOZZLE REGULAR AUTOMATIC-CLOSING (OMA) & (IWA)		154561-04-04		-
331	NON STAGE II AREA (STANDARD) HUSKY RECONNECTABLE BREAKAWAY VALVE	OWNER	CW-GTM15	D.A.	32
332	NON STAGE II AREA (STANDARD) GASOLINE GOODYEAR SHORT HOSE (NHIP) 12" LONG (HARDWALL)	OWNER	53232102420869	D.A.	32
333	NON STAGE II AREA (STANDARD) GASOLINE GOODYEAR HOSE (HARDWALL)	OWNER	53232121400469	D.A.	32
334	2" PRESSURE VACUUM VENT (TYPICAL) (STL & PHX) 2" PRES/VAC VENT (ATL & TUC) 2" PRES/VAC VENT P/V VENT 3" TO 2" ADAPTOR	OWNER	OPW 623V-2203 OPW 523V-2203 OPW T23V OPW 523A-1003	U.A.	3 - - 1
335	"OPEN CAP" (2") VENT CAP FOR DIESEL & AIR VENTILATION	OWNER	MB-354-0200AV	U.A.	1
336	PCI 60" TRANSITION SUMP	OWNER	TSM606050-3BO-QT	T.S.	4
337	3/4" CONDUIT ENTRY (BRAVO)	OWNER	F-0TR-F	-	16
338	JOMAR 4" 95 FULL PORT BALL VALVE	OWNER	500-311	-	-
339	3" DIA SINGLE WALL FRP ENTRY FITTING (BRAVO)	OWNER	F-30-FF	D.A./U.A.	104
340	DIVERSIFIED 3X2 CENTRALIZER	OWNER	DIV-C-3X2	U.A./D.A.	385
341	4" FRP RISER (RED THREAD)	OWNER	48C02313	D.S./U.S.	18
342	GRANGER ASHCROFT 3 1/2" DIAL STAINLESS STEEL SOCKET, LIQUID FILLED VACUUM GAUGE, 30 TO 0" HG VAC IN HG	CONTRACTOR	4CJ5	U.A.	-
343	OMEGAFLEX AT STP	OWNER	UGF-FC20M5P905FAB V55-012	T.T.E.	7
344	OVERFILL PREVENTION VALVE DROP TUBES (10" TANK)	OWNER	FRANKLIN DEFENDER 108542422	T.T.E.	-
345	OMEGAFLEX 1.5" X 18" MALE X FEMALE	OWNER	UGF-M5-HF-FC0150-18	D.S./U.S./T.S.	20
346	OMEGAFLEX 1.5" X 12" MALE X FEMALE	OWNER	UGF-M5-HF-FC0150-12	D.S./U.S./T.S.	4
347	OPW INLET TUBE (FOR USE W/FRANKLIN DEFENDER OVERFILL DEVICE & DROP TUBE)	OWNER	7150-INLET	T.T.E.	6
348	NUMBER CURRENTLY NOT USED	-	-	-	-
349	AMERON ADHESIVE KIT	CONTRACTOR	80210101	D.A./U.A.	-
350	AMERON DUALOY 2" FRP 3000L SINGLE WALL FRP, PRIMARY PRODUCT, VAPOR AND VENT LINES	OWNER	AM-P-2-XX	D.A./U.A.	1375 FT 44 UNITS
351	AMERON DUALOY 3" FRP 3000L SINGLE WALL FRP, SECONDARY CONTAINMENT AND MAIN VAPOR MANIFOLD LINES	OWNER	AM-P-3-XX	D.A./U.A.	1200 FT 34 UNITS
352	2" FRP BELL X MALE ADAPTOR	CONTRACTOR	012020-191-4	D.S./U.S./T.S.	6
353	2" FRP SPIGOT X MALE ADAPTOR	CONTRACTOR	-	D.S./U.S./T.S.	-
354	2" DIA SINGLE WALL FRP 45 ELBOW	CONTRACTOR	012020-310-4	D.S./U.S./T.S.	-
355	2" DIA SINGLE WALL FRP 90 ELBOW	CONTRACTOR	012020-360-4	D.S./U.S./T.S.	6
356	2" DIA SINGLE WALL FRP TEE	CONTRACTOR	012020-410-4	D.S./U.S./T.S.	-
357	2" DIA SINGLE WALL FRP COUPLING	CONTRACTOR	012020-101-8	D.S./U.S./T.S.	3
358	4" X 15" DROP TUBE (STICK PORT)	OWNER	EM A20-005	D.S./U.S./T.S.	-
359	4" AMERON SINGLE WALL PIPING	OWNER	DUALOY 3000L	D.S./U.S./T.S.	345 FT 11 UNITS
360	4" DIA SINGLE WALL FRP ENTRY FITTING (BRAVO)	OWNER	F-40-FF	D.S.	36
361	4" TO 2" FRP TEST BOOT W/AIR STEM	OWNER	DV-RA4.5X2.4A	D.S.	24
362	4"x2" CENTRALIZER	OWNER	DV-C4X2	D.S./U.S./T.S.	120
363	2" DIA. STEEL 90° ELBOW	CONTRACTOR	-	D.S./U.S./T.S.	-
364	2" DIA. STEEL TEE	CONTRACTOR	-	D.S./U.S./T.S.	-
365	JOMAR 2" 95 FULL PORT BALL VALVE	OWNER	T100-468	U.S.	27
366	3"x2" FRP REDUCER	CONTRACTOR	-	D.A.	-
367	3" FRP BELL X MALE ADAPTOR	CONTRACTOR	012030-191-4	D.A.	4
368	3" FRP SPIGOT X MALE ADAPTOR	CONTRACTOR	-	D.A.	-
369	3" DIA SINGLE WALL FRP 45 ELBOW	CONTRACTOR	012030-310-4	D.A./U.A.	-
370	3" DIA SINGLE WALL FRP 90 ELBOW	CONTRACTOR	012030-360-4	D.A./U.A.	7
371	3" DIA SINGLE WALL FRP TEE	CONTRACTOR	012030-410-4	D.A./U.A.	2
372	3" DIA SINGLE WALL FRP COUPLING	CONTRACTOR	012030-101-8	D.A./U.A.	1
374	2" DIA SINGLE WALL FRP ENTRY FITTING (BRAVO)	OWNER	F-20-FF	D.A./U.A.	-
376	3" DIA BLACK IRON COUPLING	CONTRACTOR	AS REQ'D	U.A.	-
377	3" DIA BLACK IRON PIPE	CONTRACTOR	AS REQ'D	U.A.	-
378	4" DIA. BLACK IRON 90° ELBOW	CONTRACTOR	AS REQ'D	U.A.	-
379	3" DIA. BLACK IRON 90° ELBOW	CONTRACTOR	AS REQ'D	U.A.	-
380	4" DIA. BLACK IRON TEE	CONTRACTOR	AS REQ'D	U.A.	-
381	3" TO 2" FRP TEST BOOT W/AIR STEM	OWNER	EP-RTR-3020	D.S./U.S./T.S.	88

MECHANICAL EQUIPMENT

TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
382	4" FRP BELL X MALE ADAPTOR	CONTRACTOR	012040-191-4	D.A./U.A.	2
383	4" DIA SINGLE WALL FRP 45 ELBOW	CONTRACTOR	012040-310-4	D.A./U.A.	6
384	4" DIA SINGLE WALL FRP 90 ELBOW	CONTRACTOR	012040-360-4	D.A./U.A.	6
385	4" DIA SINGLE WALL FRP TEE	CONTRACTOR	012040-101-4	D.A./U.A.	-
386	4" DIA SINGLE WALL FRP COUPLING	CONTRACTOR	012030-101-8	D.S./U.S./T.S.	2
387	OMEGAFLEX-FLEX CONNECTOR	OWNER	UGF-M5-HM-FC0200-024	U.A.	3
388	OPW VAPOR SWIVEL ADAPTOR	OWNER	61VSA-1020-EVR	U.A.	5
390	PRODUCT MARKER (OPW)	OWNER	106DL-0045-DIESEL 106P-0150-PREMIUM 106N-1100-UNLEAD 1 106N-2200-UNLEAD 2 106N-3300-UNLEAD 3 106X-0200-E15	U.A.	2 2 2 2 -
391	OPW 4" FILL CAP DIESEL	OWNER	634LPC-0400D	U.A.	1
392	PRODUCT MARKER - "EO" - "PREMIUM EO"	OWNER	EW-A0948-EO EW-A0948-PEO	U.A.	2
393	MULTI-PORT SPILL CONTAINMENT AND TOP HAT	OWNER	MFBDKP-3 SC	U.A.	-
394	REMOTE FILL KIT	OWNER	OPW-61J5K-4RMT-QT	U.A.	-
395	FILL TAG ID MARKER - "EO" - "PREMIUM EO"	OWNER	US-56-S-CU US-56-S-CPU	T.T.E.	2
396	4" DIA. DOUBLEWALL LCX FRP PIPING ENTRY FITTING	OWNER	F-40-FF-LCX	U.A.	10
397	AMERON 4" TEST BOOT WITH AIR PORT	OWNER	44482T36	U.A.	0
398	4" FIBERGLASS FITTINGS FOR OFFSET FILL	CONTRACTOR	AMERON	U.A.	-
399	4" AMERON DOUBLEWALL PIPING 20" STICK FOR OFFSET FILL	OWNER	DUALOY 3000/LCX	U.A.	-
400	EXTRACTOR W/CAGE - OPW (4X4X3X3 CROSS)	OWNER	233-4433	T.T.E.	-
401	OMEGAFLEX-FLEX CONNECTOR	OWNER	UGF-PM-PM-FC0300-024	U.A.	1
402	PETROLEUM CONTAINMENT 42" SQUARE CONTAINMENT TANK SUMP (FOR MULTI-PORT CONNECTION)	OWNER	TSM464652-NGO-QT	U.A.	-
404	OMEGAFLEX-FLEX CONNECTOR	OWNER	UGF-PM-PM-FC0400-018	U.A.	2
405	BRAVO TRANSITION SUMP SENSOR HOLDER	OWNER	SH-TRS	D.S./U.S./T.S.	2
406	BRAVO TANK SUMP SENSOR HOLDER	OWNER	SH-TS	D.S./U.S./T.S.	5
407	BRAVO UDC SUMP SENSOR HOLDER	OWNER	SH-UDC	D.S./U.S./T.S.	4
408	14 OZ SPRAY CAN- LITHIUM GREASE	OWNER	GA-WG16	T.T.E.	7
409	FIBERLITE LID LIFTER (LEAVE IN STORE)	OWNER	FLTA	T.T.E.	1
410	OVERFILL PREVENTION VALVE W/10' TOP DROP TUBE, 10' BOTTOM DROP TUBE E85 COMPATIBLE	OWNER	FRANKLIN DEFENDER 108542422	T.T.E.	-
411	JACK SCREW KIT - E85	OWNER	OPW-T1J5K-44MA	U.A./T.T.E.	-
412	PROBE CAP AND ADAPTOR-E85	OWNER	305 XPA-1100AK EVR	U.A./T.T.E.	-
413	CONCRETE ID MARKER - E85	OWNER	EW-A0948-031	U.A./T.T.E.	-
414	OPW E85 COMPATIBLE PRESSURE SENSITIVE NOZZLE - YELLOW GUARD	OWNER	OPW-IIBP-0492-E85-UL	D.S./U.S.	-
415	CATLON 3/4" E85 COMPATIBLE HOSE SWIVEL	OWNER	H5-6350	D.S./U.S.	-
416	GOODYEAR, 3/4" X 9'-0", U.L. LABELED E85 HOSE	OWNER	CT-3404-E25	D.S.	-
417	GOODYEAR, 3/4" X 8", U.L. LABELED E85 WHIP HOSE	OWNER	CTWHF3408-E25	D.S.	-
418	3/4" E85 COMPATIBLE BREAKAWAY	OWNER	CW-GTM15-85	D.S./U.S.	-
419	2" X 12" MALE EZ FLEX W/ 90 & 2" BALL VALVE ALL STAINLESS STEEL	OWNER	FLX-2X12X240-BV-55	T.S.	-
420	1.5" 10 PLUS SHEAR VLV-DBL POP E85 (UL APPROVED FOR E85)	OWNER	OPW-IOP-0152E85	D.S.	-
421	1.5" X 18" MALE X FEMALE FLEX - STAINLESS STEEL	OWNER	UGF-M5-HF-FC0150-18-DEF	D.S.	-
422	FILL PIPE ID TAG - E85	OWNER	US-FPI-E15	D.S./U.S.	-
423	SWIVEL FILL ADAPTOR - E85	OWNER	OPW-615ALP-MA	D.S./U.S.	-
424	SWIVEL VAPOR ADAPTOR - E85	OWNER	OPW-61VSA-MA	D.S./U.S.	-
425	FILL CAP	OWNER	OPW-634LPC-EVR	D.S./U.S.	-
426	VAPOR CAP	OWNER	OPW-IT11LCP-EVR	D.S./U.S.	-
427	2" OMEGAFLEX DOUBLETRAC DOUBLEWALL PIPING	OWNER	UGF-F5P-32	D.A./U.A.	-
428	2" OMEGAFLEX DOUBLETRAC NPT STRAIGHT S.S. FITTING (FRONT BOLT)	OWNER	UGF-55F5T-32-8B (FRONT)	-	-
429	OMEGAFLEX BULKHEAD FITTING	OWNER	UGF-20-OF LX	D.A./U.A.	-
430	EZ FIT X 2" FEMALE	OWNER	EZX20HFPL	T.S.	-
431	EZ FIT X 2" FEMALE GLUE PIPE FOR FRP	OWNER	EZX20F6PL	T.S.	48
432	EZ FIT CLAMP	OWNER	EZX20HMP	T.S.	48
433	EZ FIT X 2" MALE	OWNER	EZX20HFPL	T.S.	48
434	2" OMEGAFLEX DOUBLETRAC NPT STRAIGHT S.S. FITTING (STANDARD)	OWNER	UGF-55F5T-32 (STANDARD)	D.A./U.A.	-
435	NORMS RINGS AT FILL LOCATIONS (TCNK & RTC ONLY)	OWNER	WR-20000-UNL BLK-20000-EO GRR-20000-PREMIUM	T.S.	- - -



CORE STATES, INC.
CERTIFICATE OF AUTHORIZATION
#9349
EXPIRES 07-31-2023
DOF JOB #: 21.0024



Quik Trip No. 4166

701 W SETTLERS BLVD
ROUND ROCK, TEXAS



PROTOTYPE P-112
DIVISION AUSTIN
VERSION G3SE
DATE 11-01-2021

REV	DATE	DESCRIPTION
001	05/24/23	TANK REVISION

SHEET TITLE:
BILL OF MATERIALS
CONTINUED

SHEET NUMBER:
XF601

MECHANICAL EQUIPMENT

(A1) BILL OF MATERIALS (E8)

Attachment I: Initial and Continuing Training

The automatic tank gauging and release detection system at this facility will be continuously monitored by an offsite certified monitoring firm, Warren Rogers. Qualified, trained technicians monitoring the system will generate and distribute work orders for alarms and/or fuel variances that trained QuikTrip Facility Support technicians will investigate. Monitoring, work order generation/distribution, and investigations are conducted 24 hours per day, 7 days per week, 365 days per year.

QuikTrip store employees typically do not respond to UST system alarms, and when they do it is under the guidance of one of the technicians from Warren Rogers or QuikTrip Facility Support. Store employees are usually the first responders to surface spills that may occur at the facility. QuikTrip store employees receive training on emergency response procedures, spill response procedures, and a familiarization with UST monitoring system upon initial hire.

A copy of the VeederRoot alarm system troubleshooting guide that is kept at each site for reference has been included as part of this Plan.

QuikTrip UST System, Leak Prevention, and Emergency Response

Introduction: QuikTrip has a state-of-the-art UST system that includes several leak prevention systems and procedures. We also have in place a sophisticated network which notifies us real time should a leak occur within our piping system. We also track our fuel inventory daily to determine if we are possibly losing fuel from our system. The following information provides a brief overview of QuikTrip's UST standards for leak prevention, monitoring, detection, and emergency response.

(1) UST System Design: QuikTrip utilizes a unique UST system design that has been developed and refined over the past twenty years to maximize leak prevention and detection. The current design is a result of lessons learned from previous designs, input from in-house engineers and scientists, and input from third-party experts. Some components of the fuel system are below:

(A) Doublewall Steel Tanks with Brine filled Interstice and Sensors

(B) Doublewall XP Pipe (3" and 4")

(C) Fiberglass Sumps with Sensors (i.e. Tank, Dispenser)

(D) Transition Sumps: This unique design ensures all subsurface fuel piping connections are contained in a sump.

(E) Doublewall Spill Buckets with Sensors

(F) Variable Speed FE Petro Submersible Turbine Pumps: These pumps allow the gas system to operate at the lowest possible pressure thus minimizing the potential for leaks. The alternative is to utilize fixed speed pumps which operate at maximum pressure at all times when fuel is being dispensed.

(2) UST System Monitoring: QuikTrip monitors all stores using technology developed both externally and internally by systems experts. The monitoring includes real-time remote system monitoring, daily inventory management, periodic site inspections, and annual third-party operability testing.

(A) Veeder Root TLS-450: This unit monitors the fuel system for pressure drops which indicates a possible leak in the system. Sump and interstitial sensors are also connected to the TLS-450. All of these units are programmed automatically to shut down the fuel system if a leak is indicated. These units are monitored remotely by a 24/7 Help Desk.

(B) In-House Remote System Monitoring: QuikTrip has developed a computer program that monitors all TLS-450's. A message is sent to the 24/7 Help Desk, the Environmental Department, and QuikTrip's Maintenance Department in the

event of an alarm. The Help Desk enters a work order in the tracking system and a trained employee is dispatched to the site to investigate the alarm.

(C) Daily Inventory Variance Monitoring: QuikTrip has developed a program to monitor daily inventory records for each tank in the company. If certain criteria are triggered, an email alarm is sent to the Help Desk, Environmental Department, and the Maintenance Department. The Help Desk investigates the inventory variance. If the variance is unable to be reconciled, the Environmental Department will investigate the issue and ensure that a leak has not occurred.

(D) Semi-Annual Site Checks: A QuikTrip Environmental Technician performs a thorough site check of the UST system every six months. Any system issues are identified, tracked, and repaired.

(E) Annual Leak Detection System Testing: QuikTrip has a third-party contractor inspect and test the line leak detectors at each store on an annual basis.

(3) Regulatory Compliance: Federal and state regulations require at least one recognized method of release detection to be utilized when operating a fuel system. QuikTrip's redundant methods of release detection are presented below:

(A) Continuous in Tank Leak Detection System (CITLDS): QuikTrip utilizes a third-party certified consultant, Warren Rogers Associates (WRA), to monitor all fuel systems for leaks in "real time". With the completion of every fueling transaction, a simultaneous observation of elapsed sales and associated tank system product volumes and temperatures are recorded. WRA identifies operational problems as they occur.

(B) Automatic Tank Gauge (ATG)/Line Leak Detection: All stores have a Veeder Root TLS-450 Leak Detection System that is capable of detecting a leak as small as 0.1 GPH.

(C) Interstitial Monitoring: The fuel systems at QuikTrip stores are installed with sensors capable of detecting a leak in any portion of our system.

(4) Emergency Response: QuikTrip maintains a 24/7 emergency response system. Store Operations and store personnel are trained in the identification of and the response to spills and leaks. Store employees will notify the 24/7 Help Desk, as well as take appropriate measures on-site to prevent the migration of any spilled fuel. The Help Desk notifies the Environmental Department and/or the Environmental Consultant to respond to the site. The Environmental Consultant will clean-up the spill or contact the Emergency Response Contractor to assist in the clean-up. The Environmental Consultant will also conduct any necessary follow-up at the site.

Veeder-Root TLS-350/450 Alarm Troubleshooting Guidelines

PLLD Gross Test (3.0 GPH) Fail Alarm – Priority 0 PLLD Shutdown Alarm – Priority 0

Alarm occurs when a drop in Pump-Off line pressure or low Pump-Off line pressure is detected (Gross Test starts after dispensing stops).

Probable Causes:

1. Large line leak.
2. Tank is empty.
3. Power to submersible (STP) is off.
4. Partially clogged functional element (Red Jacket).*
5. STP contactor relay is not closing or sticking.*
6. Faulty check valve.*
7. Line length or type programmed incorrectly.
8. Packer-Discharge Seal is leaking (Red Jacket).
9. Dispenser leak (External - filter, connections; Internal – solenoid valve leaking into nozzle, blender valve leaking).*
10. Air in the line.
11. Low or no STP pressure (bad STP or starting capacitor).
12. Incorrect wiring of pump control or transducer.*
13. No STP request signal from dispenser.*

* The most common intermittent failures.

Troubleshooting Guidelines:

- A. Perform a quick site check – inspect visible areas of piping, dispensers, and STP for visible signs of leak.
- B. Retest the failed line to determine if the failure is repeatable or intermittent.
- C. If line fails again, close the product sheer-valve to each affected dispenser and retest line. If the test passes, the leak is probably in a dispenser(s).

PLLD Low Pressure Alarm – Priority 0

Indicates a Low Pressure condition (10 psi or less) was detected while dispensing.

Probable Causes:

1. Large line leak.
2. Tank is empty.
3. Low or no STP pressure (bad STP or starting capacitor).
4. STP contactor relay is not closing or sticking.
5. Power to submersible (STP) is off.

Troubleshooting Guidelines:

- A. Perform a quick site check – inspect visible areas of piping, dispensers, and STP for signs of leakage.
- B. Check tank for fuel.
- C. Check for bad starting capacitor or bad STP.
- D. Clean contactor relay contacts or replace.
- E. Check STP breaker, wiring, etc.

PLLD Sensor Open Alarm – Priority 0

Alarm indicating that a pressure transducer is not connected properly.

Probable Causes:

1. Open condition in the field wiring.
2. Incorrect field wiring.
3. Reversed wiring on the pressure transducer.
4. Bad transducer.
5. Bad PLLD Interface Module.

Troubleshooting Guidelines:

- A. Check wiring continuity.
- B. Check wiring polarity.
- C. Check wiring is connected to PLLD Interface Module (diagnostics displaying 0 pressure).

PLLD High Pressure Alarm – Priority 2

Alarm indicating excessive line pressure when STP is off.

Probable Causes:

-

1. Sticking/ Stuck contactor relay.
2. Clogged functional element (Red Jacket STP)
3. Faulty pressure transducer.
4. Incorrect or incorrectly adjusted check valve relief (FE Petro STP).
5. Faulty check valve.
6. Functional element relief valve has not been disabled (Red Jacket STP).
7. Vent closing screw on functional element not fully retracted.
8. STP is being switched on by another device not detected by the console.
9. Cross-wired transducers.

Troubleshooting Guidelines:

- A. Switch on STP for 10 seconds to pressurize the line. Turn STP off, wait 5 seconds, then measure the line side pressure. Normally, pressure should be less than 27 psi.
 - B. If greater than 27 psi, troubleshoot for causes 1, 2, 3, 4, 6, 7, and 9.
 - C. If less than 27 psi, problem is likely intermittent. Troubleshoot for causes 1, 5, 8, and 9.
-

PLLD Periodic Test (.20 GPH) Fail Alarm – Priority 2
PLLD Annual Test (.10 GPH) Fail Alarm – Priority 4

Pump-On pressures indicate a Periodic or Annual line leak test has failed.

Probable Causes:

1. The line is leaking.
2. A Check valve is leaking.
3. The Packer-Discharge seal needs replaced (Red Jacket).
4. Dispenser leak (external - filter, connections; internal – solenoid valve leaking into nozzle, blender valve leaking).
5. The console is not programmed for the correct line length or line type.

Troubleshooting Guidelines:

- A. Switch STP on and inspect all visible areas of pipeline, dispenser piping, and STP for leakage.
- B. Check dispenser solenoid valves for leakage by squeezing each nozzle with STP switched ON and dispenser switched OFF.

- C. Check for blend valve leakage by looking for meter movement while STP is on but not dispensing.
- D. Retest the line to confirm failure – if it passes without any repairs, problem is intermittent. Troubleshoot causes 2 and 4.
- E. If retest fails, close dispenser emergency shuts-off valves (sheer valves) and retest again. If test fails, troubleshoot causes 1, 2, and 3.
- F. If retest passes, problem is in one of the dispensers. Open shut-off valves one at a time or in groups and retest until dispenser is identified.

* Note: .20 GPH test takes a minimum of 30 minutes. .10 GPH test takes a minimum of 45 minutes.

PLLD Sensor Short Alarm – Priority 2

Alarm indicating that Pump-On and Pump-Off pressures are the same and are within a range of 5-15 psi.

Probable Causes:

- 1. STP did not switch on.
- 2. Low STP pump pressure.
- 3. Bad transducer.
- 4. Bad PLLD Interface Module.

Troubleshooting Guidelines:

- A. Check STP breaker, wiring, etc.
- B. Check/ replace transducer.

PLLD Continuous Handle On Alarm – Priority 2

Alarm indicating a continuous Pump-On (handle raised) signal for 16 hours.

Probable Causes:

- 1. Dispenser handle switch is faulty.
- 2. Excessive dispenser leakage (handle feedback) voltage.
- 3. Dispenser internal board faulty.

Troubleshooting Guidelines:

- A. Check dispenser handle switch integrity.
- B. Check handle switch wiring is intact.
- C. Check dispenser line-in voltage. Greater than 30VAC is excessive. Isolation relay between dispenser and PLLD Controller Module is needed or defective.

PLLD Line Equipment Alarm – Priority 2

Alarm indicating a fault with the pressure measurement system.

Probable Causes:

- 1. Faulty Pressure Transducer.
- 2. Faulty PLLD Interface Module.
- 3. Incorrectly wired transducer.

Troubleshooting Guidelines:

- A. For steps B and C, **Turn Off** the power to the STP.
- B. Vent the product line to drop the line pressure to zero psi.
- C. Reconnect the product line.
- D. Restore power to the STP.
- E. In the PLLD Diagnostic Menu, run the pressure measurement offset test.
 - 1.) Press the MODE to display Diagnostic Mode.
 - 2.) Press FUNCTION until "Pressure Line Leak Diag" is displayed.
 - 3.) Press STEP until "PLLD Number X" is displayed (X = line).
 - 4.) Press ENTER and the results of the last test displays.
 - 5.) Press STEP and ENTER to start the test. "Measuring" is displayed.
 - 6.) The Pressure Offset result is displayed when the test is finished "Done – Offset: +XX.X PSI".
- F. If the test result is greater than 5 psi, re-run the test again. If still greater than 5 psi, check the transducer wiring.
- G. If transducer wiring is good and correct, then the transducer is likely bad.
- H. Re-run the pressure measurement offset test following all repairs.
- I. Run a Gross Line test to clear any active alarms.

Sensor Fuel Alarm – Priority 0

Alarm indicating fuel, fuel vapor, or liquid is present in area being monitored.

Troubleshooting Guidelines:

Fuel/ Liquid:

1. Perform site check for visible signs of fuel or liquid in area being monitored.
2. Determine source of fuel or liquid in area (isolated leak, water run off, etc.) and resolve.
3. Check sensor for correct location and proper function.

Vapor:

1. Check Vapor Sensor Setup in console programming for correct threshold value (established during System Setup).
2. Check Vapor Diagnostic for sensor status and PPM (parts per million) conversion.
 - a.) $< 200 = \text{Short}$
 - b.) $200 - \text{threshold value} = \text{Normal}$
 - c.) $> 1.05 \text{ times the threshold value for } +24 \text{ hours} = \text{Fuel}$
 - d.) $> 4 \text{ times the threshold value} = \text{Fuel}$
3. If fuel vapor is smelled at vault exhaust fans, the sensor is likely working correctly and fuel is present in the vault.
4. If no fuel vapor is smelled at exhaust fans, vapor sensor is likely saturated and needs replaced.

Sensor Out Alarm – Priority 2

Alarm indicating a sensor is defective, disconnected, or the sensor setup was performed incorrectly.

Troubleshooting Guidelines:

1. Check and validate correct sensor programming (configuration, location, type, and category).
 2. Check sensor wiring circuit for disconnected or broken wires.
 3. Connect sensor directly to console to verify function.
 4. Verify sensor wiring polarity is correct.
 5. Replace defective sensor.
-

Sensor Short Alarm – Priority 2

Alarm indicating a short circuit has occurred in the sensor or sensor wiring.

Troubleshooting Guidelines:

1. Verify sensor is good/ bad by connecting directly to the interface module.
2. Perform continuity test on sensor wiring.
3. Perform continuity test on sensor wiring to ground (conduit).

Sensor High Liquid Alarm – Priority 2

Indicates an increase in the brine solution level of a double-walled fuel tank.

Probable Causes:

1. A hole on the inside wall of the tank is allowing fuel into the interstitial space (fuel level is higher than brine level).
2. The sensor is malfunctioning.
3. Water is entering the interstitial space from an outside source.

Troubleshooting Guidelines:

1. Check the sensor for proper function and installation.
2. Manually check the level of brine solution.
3. Check the EPA Book history for volume variances (loss) in the tank.

Sensor Low Liquid Alarm – Priority 2

Indicates a decrease in the brine solution level of a double-walled fuel tank.

Probable Causes:

1. A hole on the exterior wall of the tank is allowing brine solution to leak out.
2. A hole on the inside wall of the tank is allowing brine to leak into the tank (tank level is less than brine level).
3. The sensor is malfunctioning.

Troubleshooting Guidelines:

1. Check the sensor for proper function and installation.

2. Manually check level of brine solution.
3. Check tank gauging for high water.
4. Check the EPA Book history for volume variances (gains) in the tank.
5. Add brine or water (when tank is full) and check level regularly.

PLLD / Sensor Setup Data Warning – Priority 4

Alarm indicates an error in programming.

Troubleshooting Guidelines:

1. Double check PLLD and/or Sensor programming is correct.
2. Default line length is 501 feet and must be changed to actual line length. Also ensure line type is also entered correctly.
3. Check for probe out on startup.

PLLD Periodic Test Needed Alarm – Priority 4

Alarm indicating the system has not completed or passed a Periodic (.20 GPH) test.

Probable Causes:

1. Periodic test failures.
2. Pump-On pressure readings are less than 22 psi.
3. The line is not venting when the pump is shut off (should be a 2 psi difference between Pump-On pressure and Pump-Off pressure).
4. The site is too busy for testing to complete.

Troubleshooting Guidelines:

1. Follow procedures for troubleshooting Annual and Periodic Test Fail alarms (page 3).
 2. Check for stuck relays, incorrect or incorrectly adjusted check valves (FE Petro), or functional element not disabled (Red Jacket).
 3. Site or line(s) may need to be shut down in order for test to complete – minimum 30 minutes per line for test to pass/fail.
-

Attachment J: Release Detection Maintenance

The automatic tank gauging and release detection system and cathodically-protected equipment at this facility will be routinely inspected and maintained by qualified, trained QuikTrip Facility Support technicians or certified contractors. Inspections, routine maintenance, and preventative maintenance will be performed according to the manufacturer's specifications and recommended schedules. Copies of these relevant maintenance programs and schedules are included as part of this Plan.

Semi-Annual Site Check Inspection

- *Complete Environmental Site Checklist
- *Be sure to complete all "checks" on the work order
- *Complete any routine repairs as part of this Site Check
- *Do Not open additional Work Orders for these repairs

Additional work orders may only be opened if you are not able to complete the repairs while on site.

Note: Ensure you replace any nozzles with expired dates on them!!!

ATG/Line Leak Detector Check:

- Check ATG for fuel and water levels and verify ATG and stick readings are not off by more than 2".
- Check ATG for correctly programmed tank limits (High Water Warning and Alarm)

Tank Pit Observation Well:

- Check surface lid, well cap condition.
- Indicate the depth to groundwater (in inches or dry) – data response needed. List in comments on check (#1; 34", #2 51", etc)
- Check all observation wells onsite.
- Apply fuel finding paste to the bottom 3" of the fuel sampler to check for presence of fuel. Is fuel present in the well? If so, notify EPM or ECM and FS Supervisor immediately.
- If fuel is present, use a sampler to collect a sample from the well to measure fuel thickness.

Piping Trench Observation Well (DFW ONLY):

- Check surface lid, well cap condition.
- Check all observation wells onsite.
- Apply fuel finding paste to the bottom 3" of the fuel sampler to check for presence of fuel. Is fuel present in the well? If so, notify EPM or ECM and FS Supervisor immediately.
- If fuel is present, use a duel sampler to collect a sample from the well to measure fuel thickness.

ATG Probe Port:

- Cap/grommet water tight?

Spill Buckets (fill and vapor):

- Are there any issues with the spill bucket (holes, cracks, dents, liquid, lid seals, etc.)?
- Are Spill Bucket lids water tight?
- Did you clean the spill bucket?

Condensate Trap:

- Is there liquid in the condensate trap?

Submersible Pump Containment Area (Sump):

- Are there any issues to report with the sumps?
- Are Blueline boots present? – data response needed from tech
- What is the condition of the Blueline boot? – data response needed from tech
- Is water present? If so what is the thickness in inches?
- Is fuel present in well? If so, notify EPM immediately.
- Clean Silt ring.

Dispensers:

- Are there any leaks/issues to report?
- Are there any issues to report with the sumps?
- Are Blueline boots present? – data response needed from tech
- What is the condition of the Blueline boot? – data response needed from tech
- Is fuel present? If so, notify EPM immediately.
- Are there any nozzles with expired date codes?

Copper Piping Splice Sump:

- Are there any leaks/issues to report?

Fuel Piping:

- Are there any leaks/issues to report?
- What is the type of fuel piping from the submersible to 1st dispenser?
- What is the type of fuel piping under the dispensers? – data response needed from tech. List in Comments.

Sensors:

- Are the submersible pump containment (sump) sensors present, programmed correctly & installed at proper depth?
- Are the dispenser sumps present, programmed correctly & installed at proper depth?
- Are the diesel filter sump sensors present, programmed correctly & installed at proper depth?
- Are the transition sump sensors present, programmed correctly & installed at proper depth?

TC Only - Travel Center Diesel Filter Pods (Sumps):

- Are there any issues to report with the sumps?

- Is water present? If so what is the thickness in inches?
- Is fuel present? If so, notify EPM immediately.

Vault (AZ only):

- Is water present in the vaults?
- Is fuel present in the vaults? If so, contact EPM immediately.
- Product vapor present in vaults?

Remote Fills:

- Are there any issues with the remote fill tank entry and sump (water/fuel present, condition of lid)?
- Are there any issues with the remote fill spill bucket (holes, cracks, dents, liquid, etc.)?

Stick Port and Bucket (former fill):

- Are there any issues with the bucket/lid condition?
- Is any fuel present? If so, contact EPM immediately
- Is water present? If so what is the thickness in inches?

Transition Sump:

- Are there any issues to report with the sumps?
- Are Blueline boots present? – data response needed from tech
- What is the condition of the Blueline boot? – data response needed from tech
- Is water present? If so what is the thickness in inches?
- Is fuel present? If so, notify EPM immediately.

AZ Only - Drywell System (Envibro or DW Guardian):

- Check if the inlet grate and the chambers are clear of trash/debris/sediment

DFW Only - 60 Day Spill Bucket Inspection Log

- Complete the 60-day Spill Bucket Inspection Log and return to the Vapor Binder in the store.



ANNUAL SUMP SENSOR TEST FORM

FACILITY NAME: **QuikTrip #**
FACILITY ADDRESS:
TCEQ FACILITY ID #:

A. Results of Annual Leak Monitoring Test - Complete the following checklist using: Y = Yes, N = No, N/A = Not Applicable.

1. Leak monitor (ATG) manufacturer's name and model number Veeder – Root TLS – ___ 350 ___ 450 (Check one) Comments:	
2. ATG console assignments are correctly programmed and labeled for all sensors. Print and attach set up report. Comments:	
3. ALL Tank secondary containment sensor is positioned per manufacturer's requirements Comments:	
4. Brine level of the tank interstitial space is within the manufacturer's operating range. Comments:	
5. Q1 Unleaded Submersible Pump Sump Sensors are positioned per manufacturer's requirements. Comments:	
6. Q2 Unleaded Submersible Pump Sump Sensors are positioned per manufacturer's requirements. Comments:	
7. Q3 Premium Submersible Pump Sump Sensors are positioned per manufacture's requirements. Comments:	
8. Q4 Diesel Submersible Pump Sump Sensors are positioned per manufacture's requirements. Comments:	
9. _____	
10. Dispenser Sump Sensors are positioned per manufacture's requirements. Comments:	
11. Transition Sump Sensors are positioned per manufacture's requirements. Comments:	
12. All secondary containment Sumps are liquid tight and free of debris, water and regulated substance Comments:	
12. All Sensors were visually inspected, manually tested, confirmed operational and reset. Attach printouts that document system shut down or alarmed when tested Comments:	
13. The ATG console Audible and Visual Alarms are confirmed operational and cleared and reset after testing. Comments:	

14. Alarms active and present upon arrival. See attached printout. Comments:	None
15. Additional Comments:	

B. Verification: I hereby verify that the equipment identified in this document was tested for proper operation in performance of the original design function in accordance with the manufacturer's requirements. Attached to this form is information (if available, system set-up reports, alarm history, sensor status) necessary to verify that this information is correct.

TEST COMPANY NAME TEST COMPANY ADDRESS CITY/STATE/ZIP PHONE

TECHNICIAN NAME TECHNICIAN PHONE TECHNICIAN SIGNATURE DATE OF TEST

6.0 TEMPORARY STORMWATER SECTION (TCEQ-0602)



Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Mr Aaron Brewer, Apex Companies

Date: 7/25/22

Signature of Customer/Agent:



Regulated Entity Name: QuikTrip 4166

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

The following fuels and/or hazardous substances will be stored on the site: _____

These fuels and/or hazardous substances will be stored in:

- Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- Fuels and hazardous substances will not be stored on the site.
- 2. **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Onion Branch-Brush Creek

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 - There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- N/A
12. **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

Attachment A: Spill Response Actions

A1: Spill Response SOP

A2: Minor Release Action Plan

A3: Gasoline Related Emergencies

Attachment A: Spill Response Actions
A1: Spill Response SOP

1. Initial Notification: Upon the determination that a reportable or spill has occurred, a telephone report is required by the person responsible as soon as possible but not later than 24 hours after the discovery of the spill or discharge. The telephone report required may be made to the TCEQ. Alternately, the TCEQ encourages calls directly to a regional office during regular business hours (8:00 AM to 5:00 PM) or to the agency's 24-hour number. After hours, an answering service receives incoming calls and then an operator/paging system notifies TCEQ staff of release reports.

TCEQ Emergency Release Hotline (24 hours a day) TCEQ	(512) 463-7727 or (512) 239 2507
Region 11 Office (Austin)	(512) 339-2929
SERC do TX Emergency Release Hotline (24 hours a day) City of Austin	(800) 832-8224
Pollution Hotline (24 hours a day)	(512) 974-2550
Williamson County Local Emergency Planning Committee Texas	(512) 864-8266
Williamson County and Cities Health District	(512) 943-3600
National Response Center (NRC)	(800) 424-8802

When making a telephone report of a spill or pollution complaint, it will be helpful if the following information is at available:

- The date and time of the spill or release.
- The identity or chemical name of any material released or spilled, as well as whether the substance is extremely hazardous.
- An estimate of the quantity of material released or spilled and the time or duration of the event.
- The exact location of the spill, including the name of waters involved or threatened, and any other media affected by the release or spill.
- The extent of actual and potential water pollution.
- The source of the release or spill.
- The name, address, and phone number of the party in charge of, or responsible for, the facility, vessel, or activity associated with the release or spill. If that party is not at the site, also have the name and phone number of the party at the site who is in charge of operations.
- The steps being taken or proposed to contain and clean up the released or spilled material and any precautions taken to minimize impacts, including evacuation.
- The extent of injuries, if any.
- Any known or anticipated health risks associated with the incident and, where appropriate, advice regarding medical attention necessary for persons exposed.

- Possible hazards to the environment (air, soil, water, wildlife, etc.). This assessment may include references to accepted chemical databases, material safety data sheets, and health advisories. The TCEQ may request estimated or measured concentrations of the contaminant for the state's hazard assessment.
- The identities of any government or private-sector representatives responding at the scene.

2. Abate and Contain: The responsible person shall immediately abate and contain the spill or discharge and cooperate fully with the executive director and the local incident command system. The responsible person shall also begin reasonable response actions, which may include, but are not limited to, the following actions:

- Arrival of the responsible person or response personnel hired by the responsible person at the site of the discharge or spill.
- Initiating efforts to stop the discharge or spill.
- Minimizing the impact to the public health and the environment,
- Neutralizing the effects of the incident.
- Removing the discharged or spilled substances,
- Managing the wastes.

Upon request of the local government responders or the executive director, the responsible person shall provide a verbal or written description, or both, of the planned response actions and all actions taken before the local governmental responders or the executive director arrive. When the agency on-scene coordinator requests this information, it is subject to possible additional response action requirements by the executive director. The information will serve as a basis for the executive director to determine the need for:

- Further response actions by the responsible person.
- Initiating state funded actions for which the responsible person may be held liable to the maximum extent allowed by law.
- Subsequent reports on the response actions.

3. Follow-up Report: Within 30 working days of the discovery of a reportable discharge or spill, the person responsible must submit written information to the appropriate TCEQ regional office describing the details and supporting the adequacy of the response. The documentation must contain one of the following:

- a. Information from the initial notification, and a statement that the response to the discharge or spill has been completed and a description of how the action was conducted.
- b. A request for the extension of time to complete the response, along with the reasons for the request, and a projected work schedule outlining the time required to complete the response action, Proceed according to the projected schedule unless otherwise notified by the appropriate TCEQ regional director.
- c. A statement and explanation that the discharge or spill response has not been, and is not expected to be, completed within the maximum allowable extension (six months from the date of the discharge or spill), along with a projected work schedule.

Additional information to include:

- a. **Response Chronology:** A chronology listing times and dates, of the responses by the responsible person, as well as:
 - the nature of the responses, along with the name, address, and phone number of the response contractor as well as the name of a contact, if different than the responsible person
 - the date and time of the first containment actions and the name of the individuals or company conducting these activities
 - a detailed description of the containment equipment and personnel used and a description of the effectiveness of the initial response actions; etc.
- b. **Meteorology:** Describe weather conditions during the incident and include a discussion of how the weather may have helped or hindered the cleanup.
- c. **Reported Injuries:** Describe any injuries or fatalities.
- d. **Remediation of Contamination:** Describe actions taken to remove or neutralize the substances discharged or spilled including:
 - The amounts of substances recovered and contained.
 - The amounts of substances lost to the environment,
 - If soil was affected, the amounts of substances removed. Include a scaled map indicating the lateral and vertical extent of excavation.
 - The disposition of any excavated substances, any recovered substances, and any additional wastes generated from the cleanup, including any on-site or off-site storage, processing, or treatment. If the material is stored off-site, the responsible person must give the name, physical address, and phone number for the storage facility.
- e. **Sampling and Analysis:** A description of all sampling activities including:
 - A list of the persons collecting the samples.
 - A scaled map indicating the lateral and vertical location of the sampling locations,
 - A tabulation of the analyses performed and the analytical methods used.
 - The name and address of the laboratory conducting the analytical work,
 - The name and address of the supplier of the sample containers.
 - A copy of the analytical results as reported by the laboratory to the responsible person.
- f. **Waste Classification and Disposal:** List the U.S. EPA and TCEQ waste-classification and waste-code numbers, along with:
 - Copies of any analytical results used to obtain the waste classifications as well as any correspondence from the TCEQ. A list of any temporary generator or transporter numbers used, if applicable.
 - Copies of the manifests for the shipment of the wastes.
 - The name, address, and phone number of the facility receiving the waste

**Attachment A: Spill Response Actions
A2: Minor Release Action Plan**

QuikTrip Departmental Standard

Department:	Store Development
Title:	Minor Release Action Plan
Work Group:	Environmental & Facility Support
Category:	Shared Standard
Standard or Document #:	3.7.0; 3.3.0

Standard

Minor releases of product (less than 25 gallons) which occur at a QuikTrip facility will be addressed by QuikTrip store employees. If any fuel enters a storm drain and/or leaves the site, or if the release is greater than 25 gallons, the release will be addressed by the Environmental Department.

Process/Details:

If petroleum product is spilled on the surface of the facility or leaking from aboveground fuel equipment, the following steps shall be taken immediately:

- Locate the source of the release.
- If the release is occurring at a dispenser, push the emergency shut-off button.
- Dam off the spill area with absorbent material from the spill kit, preventing it from spreading.
- Concentrate all efforts to prevent the spill from reaching storm drains, grass areas, and streets, or from leaving QuikTrip property.
- Place absorbent material (from the spill kit, if available) on the product and in the down-stream direction of the spill. The spill should be addressed as rapidly and completely as possible.
- Have a charged fire extinguisher available while proceeding with the clean-up.
- The Environmental Project Manager (EPM) shall be contacted with details concerning the spill response.
- The Store Supervisor and Facility Support office may be contacted for further assistance if necessary. For minor releases, containment and absorption is the preferred method of clean-up. However, additional assistance is available from the local fire department, if required.
- Facility Support will repair or replace equipment responsible for the release, if applicable.

**Attachment A: Spill Response Actions
A3: Gasoline Related Emergencies**

CD GUIDE

Date: August 26, 2011 (replaces: July 10, 2008)

References:

[Policy ST5-02-002 -- Fuel Deliveries](#)

Gasoline Related Fire Emergencies

Catastrophic gasoline fires	<ul style="list-style-type: none">• Out of control• Extremely life-threatening (i.e. Gas truck explosion)• Must be dealt with by the fire department.
Non-Catastrophic gasoline fires	<ul style="list-style-type: none">• Not immediately life-threatening• Potentially and safely controlled by store personnel

Catastrophic Gasoline Fire:

1. **Use emergency shut off button - big and red (usually located near the point register in the CheckStand).** (Some Divisions have shut down buttons located on the gas pumps outside.) **Do not use the POS ALL STOP on the Gas Menu to disable underground gas pumps.** The POS ALL STOP only shuts off the communication between the POS and the gas pumps. It does not actually shut down the pumps.

DO NOT risk harm to yourself !

The lives of employees and customers are of utmost importance!

2. Use telephone that is safe distance away from store. Contact Fire Department, Store Supervisor, and QT Security
3. Evacuate all customers from inside and outside areas of store to a safe area (i.e. across the street, next parking lot)
4. Await arrival of Fire Department and keep onlookers from getting too close

Non-Catastrophic Gasoline Fire:

1. Use emergency shut off button - big and red (usually located near the point register in the CheckStand).
2. Use speaker system to evacuate all customers from the gas island area
3. Turn off all gas island/canopy electricity. The electricity breakers are marked with stickers by Facility Support so that they may be easily identified
4. If the fire is minor and you feel you can safely control it, use store fire extinguisher or call 911 to notify your local Fire Department
5. Page Store Supervisor

Gasoline-Related Environmental Emergencies

- Underground storage tank leakage and above ground spills

Reported or Observed Fuel Odors

1. Check out situation. Look for clues that may indicate seepage or spills, i.e. dead grass and bushes.
2. If you continue to smell gas, call Store Supervisor immediately, regardless of time
3. If Store Supervisor cannot be reached notify Corporate Security Monitor at the I/S HELP Desk: **1-800-375-0720**

Reported or Observed Fuel Spills **Over 25 Gallons**

1. Verify spill. If the spill exceeds 25 gallons, call Fire Department immediately.
2. Make note of :
 - a. Cause of spill
 - b. Size of spill
 - c. Grade of gasoline
 - d. Date and time of spill
3. Shut down and bag off both sides of the pump where the leak occurred.
4. Call Store Supervisor immediately, regardless of time of day

5. If Store Supervisor does not know who to call in the Environmental Department, call the I/S HELP Desk (**1-800-375-0720**) for telephone numbers.

Reported or Observed Fuel Spills Less Than 25 Gallons

See [WT-EPA Emergencies](#) for instructions on cleaning up the mess.

Attachment B: Potential Sources of Contamination

Below is a list of description of any activities or processes that may be a potential source of contamination affecting surface water quality.

Non-Stormwater Discharges: It is expected that the following non-stormwater discharges will occur from the site during the construction period:

- Water from water line flushing.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater (from dewatering of excavation).
- All non-stormwater discharges will be directed towards erosion control structures prior to discharge

Material Inventory: The materials or substances listed below are expected to be present on site during construction:

- Concrete and concrete products
- Metal reinforcing materials — rebar, welded wire fabric
- Fertilizers
- Petroleum-based products
- Wood
- Plastic (PVC) and metal pipe and fittings
- Paints
- Rock, gravel, sand, and soil

Attachment C: Sequence of Major Activities

The sequence of major activities is outlined below as described in the Erosion Control Plans. The area inside the limits of disturbance is 1.99 acres:

- i. Obtain all necessary permits & approvals;
- ii. Contact the sediment and erosion control inspector to set up a preliminary construction meeting 48 hours prior to any land disturbance;
- iii. Clear and demolish areas only necessary to install phase 1 erosion control measures;
- iv. Install stabilized construction entrance/exit;
- v. Install perimeter silt fence;
- vi. Install inlet protection;
- vii. Complete demolition and grading operations;
- viii. Temporary stabilize all disturbed areas where work has ceased for 14 days or more;
- ix. Commence grading and utility and storm drain installation. Maintain all erosion control measures until the site is permanently stabilized;
- x. Establish building pad and commence building erection;
- xi. Provide inlet protection before inlets start receiving run-off;
- xii. Fine grade parking area and adjust inlet protection as needed;
- xiii. Install curb and gutter and lay base course immediately upon reaching final grade;
- xiv. Install landscaping and permanently stabilized all disturbed areas;
- xv. Finish building construction and pour parking areas;
- xvi. Call city for inspection;
- xvii. Clean out storm drain system and remove remaining erosion control measures upon approval by the city.

Attachment D: Temporary Best Management Practices and Measures

BMPs for Upgradient Sources: The following practices will be followed to prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the Site.

- No specific BMPs are required for upgradient flow. Based on area topography and the curb and stormwater collection system of the upgradient NE Inner Loop, run-on is not anticipated to occur.
- On-site slope and curb conditions notwithstanding, an upgradient silt fence is planned as a BMP to further minimize and intercept potential run-on to the Site.

BMPs for On-Site Sources : The following practices will be followed to prevent pollution of surface water or groundwater or stormwater that originates on-Site or flows off site, including pollution caused by contaminated stormwater runoff from the Site.

- An erosion control plan has been prepared that is designed to filter runoff from the site during construction, add protections to nearby stormwater inlets, and construction of temporary construction exist designed to reduce material movement to area roads from vehicle traffic.
- The erosion control plan is designed to intercept sediment from runoff before reaching nearby ditches that flow to nearby streams or toward existing stormwater treatment systems.
- No sensitive features have been identified within the expected flow path of storm water from the site.

Spill Prevention and Cleanup Practices: The following practices will be followed for spill prevention and cleanup to further protect the water quality of runoff originating from the Site.

- All spills will be cleaned up immediately upon discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, per regulation.
- The spill prevention plan will be adjusted to include measures to prevent the reoccurrence of similar spills and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The contractor will be the spill prevention and cleanup coordinator. The names of responsible spill personnel will be posted in the material storage area and in the office trailer on site.

Hazardous Materials: The following practices are used to reduce the risks associated with hazardous materials and further protect the water quality of runoff originating from the Site.

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data will be retained; they contain important product information.

- If surplus product must be disposed of, manufacturer or local and state recommended methods for proper disposal will be followed.

Material Management Practices: The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

- All soil, sand, gravel, and excavated materials stockpiles on site will have appropriate erosion and sedimentation controls placed downgradient.
- An effort will be made to store only product required to do the job.
- All materials stored on site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's labels.
- Whenever possible all of a product will be used before disposing of the container manufacturer's recommendations for proper use and disposal will be followed.
- The contractor will make a daily inspection to ensure the proper use and disposal of materials on site.

Product Specific Practices: The following product specific practices will be followed on site to further protect the water quality of runoff originating from the Site.

- **Petroleum Products:** All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any asphaltic substances used on site will be applied according to the manufacturer's recommendations.
- **Fertilizers:** Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
- **Paints:** All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system, but will be properly disposed of according to manufacturer's instructions or state and local regulations.
- **Concrete Trucks:** Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum water on the site except in designated areas. Upon completion of the project, the contractor will clean up the wash-out site in accordance with state and local regulations.
- **Construction Equipment/Vehicles:** Construction equipment/vehicles will be limited, as much as possible, to the project site. Any soil, mud, etc. to be carried from the project into public roads will be cleaned up within 24 hours.

BMPs to Protect Surface Streams, Sensitive Features, or the Aquifer: The following practices will be followed to prevent pollutants from entering surface streams, sensitive features, or the aquifer.

- Due to the lack of surface streams on or adjacent to the site, lack of identified sensitive features, and lack of recharge features, no additional BMPs are proposed to further protect these features.

Maintaining Flow to Sensitive Features: The following practices will be followed to maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

- No sensitive features were identified in the geologic assessment.
- If newly identified sensitive features are identified by the TCEQ inspection, during excavation or construction, additional BMPs will be developed to further protect the specific features identified.

Attachment E: Request to Temporarily Seal a Feature

Not Applicable

Attachment F: Structural Practices

During construction, the site will be protected by temporary structural erosion controls to trap construction sediment on site. The controls primarily consist of silt fence, stabilized construction entrance, and inlet protection as specified in the Site Plans (Erosion sheets C140, C141). Details for BMP materials, installation, and maintenance are presented below from RG-348.

1.4.2 Temporary Construction Entrance/Exit

The purpose of a temporary gravel construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A stabilized construction entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress. Schematic diagrams of a construction entrance/exit are shown in Figure 1-24 and Figure 1-25.

Excessive amounts of mud can also present a safety hazard to roadway users. To minimize the amount of sediment loss to nearby roads, access to the construction site should be limited to as few points as possible and vegetation around the perimeter should be protected where access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

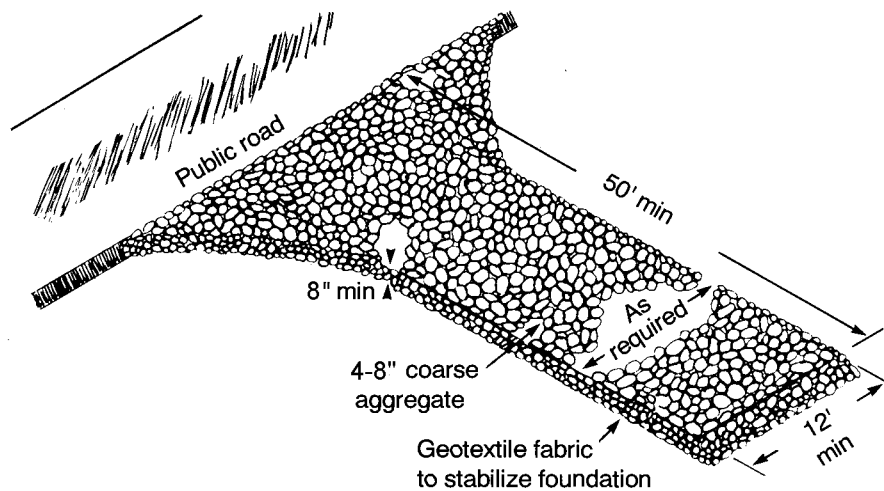


Figure 1-24 Schematic of Temporary Construction Entrance/Exit (after NC, 1993)

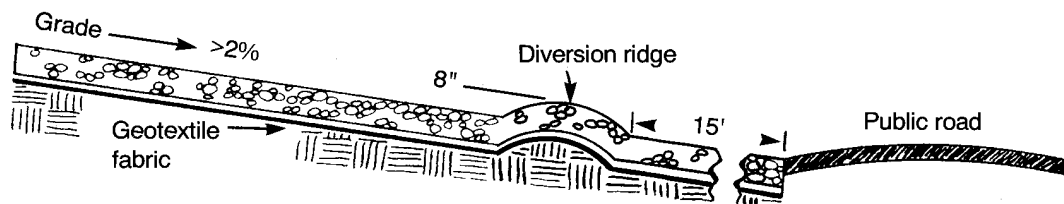


Figure 1-25 Cross-section of a Construction Entrance/Exit (NC, 1993)

Materials:

- (1) The aggregate should consist of 4 to 8 inch washed stone over a stable foundation as specified in the plan.
- (2) The aggregate should be placed with a minimum thickness of 8 inches.
- (3) The geotextile fabric should be designed specifically for use as a soil filtration media with an approximate weight of 6 oz/yd², a mullen burst rating of 140 lb/in², and an equivalent opening size greater than a number 50 sieve.
- (4) If a washing facility is required, a level area with a minimum of 4 inch diameter washed stone or commercial rack should be included in the plans. Divert wastewater to a sediment trap or basin.

Installation: (North Carolina, 1993)

- (1) Avoid curves on public roads and steep slopes. Remove vegetation and other objectionable material from the foundation area. Grade crown foundation for positive drainage.
- (2) The minimum width of the entrance/exit should be 12 feet or the full width of exit roadway, whichever is greater.
- (3) The construction entrance should be at least 50 feet long.
- (4) If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 (H:V) side slopes, across the foundation approximately 15 feet from the entrance to divert runoff away from the public road.
- (5) Place geotextile fabric and grade foundation to improve stability, especially where wet conditions are anticipated.
- (6) Place stone to dimensions and grade shown on plans. Leave surface smooth and slope for drainage.
- (7) Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.
- (8) Install pipe under pad as needed to maintain proper public road drainage.

Common trouble points

- (1) Inadequate runoff control – sediment washes onto public road.
- (2) Stone too small or geotextile fabric absent, results in muddy condition as stone is pressed into soil.
- (3) Pad too short for heavy construction traffic – extend pad beyond the minimum 50 foot length as necessary.
- (4) Pad not flared sufficiently at road surface, results in mud being tracked on to road and possible damage to road edge.
- (5) Unstable foundation – use geotextile fabric under pad and/or improve foundation drainage.

Inspection and Maintenance Guidelines:

- (1) The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- (2) All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
- (3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- (4) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- (5) All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

1.4.3 Silt Fence

A silt fence is a barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. When properly used, silt fences can be highly effective at controlling sediment from disturbed areas. They cause runoff to pond, allowing heavier solids to settle out. If not properly installed, silt fences are not likely to be effective. A schematic illustration of a silt fence is shown in Figure 1-26.

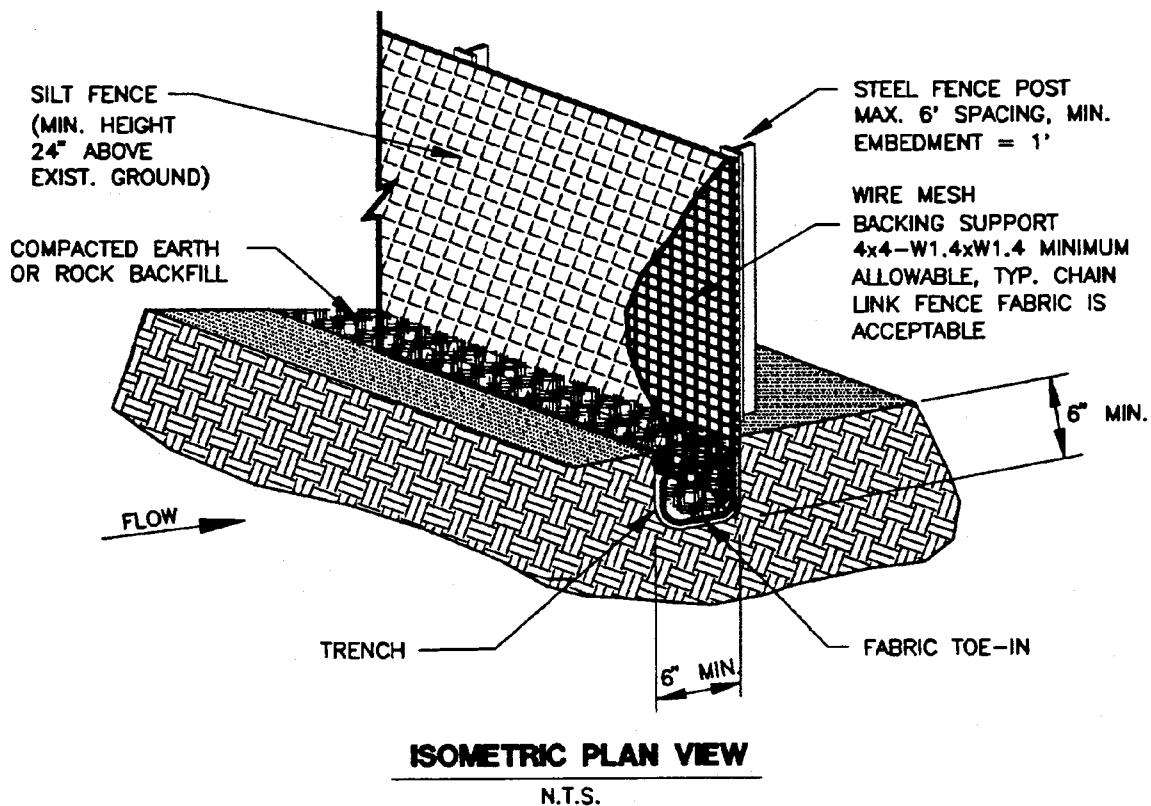


Figure 1-26 Schematic of a Silt Fence Installation (NCTCOG, 1993b)

The purpose of a silt fence is to intercept and detain water-borne sediment from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. If concentrated flow occurs after installation, corrective action must be taken such as placing a rock berm in the areas of concentrated flow.

Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

Materials:

- (1) Silt fence material should be polypropylene, polyethylene or polyamide woven or nonwoven fabric. The fabric width should be 36 inches, with a minimum unit weight of 4.5 oz/yd, mullen burst strength exceeding 190 lb/in², ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
- (2) Fence posts should be made of hot rolled steel, at least 4 feet long with Tee or Y-bar cross section, surface painted or galvanized, minimum nominal weight 1.25 lb/ft², and Brindell hardness exceeding 140.
- (3) Woven wire backing to support the fabric should be galvanized 2" x 4" welded wire, 12 gauge minimum.

Installation:

- (1) Steel posts, which support the silt fence, should be installed on a slight angle toward the anticipated runoff source. Post must be embedded a minimum of 1-foot deep and spaced not more than 8 feet on center. Where water concentrates, the maximum spacing should be 6 feet.
- (2) Lay out fencing down-slope of disturbed area, following the contour as closely as possible. The fence should be sited so that the maximum drainage area is ¼ acre/100 feet of fence.
- (3) The toe of the silt fence should be trenched in with a spade or mechanical trencher, so that the down-slope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g., pavement or rock outcrop), weight fabric flap with 3 inches of pea gravel on uphill side to prevent flow from seeping under fence.
- (4) The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
- (5) Silt fence should be securely fastened to each steel support post or to woven wire, which is in turn attached to the steel fence post. There should be a 3-foot overlap, securely fastened where ends of fabric meet.

- (6) Silt fence should be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

Common Trouble Points:

- (1) Fence not installed along the contour causing water to concentrate and flow over the fence.
- (2) Fabric not seated securely to ground (runoff passing under fence)
- (3) Fence not installed perpendicular to flow line (runoff escaping around sides)
- (4) Fence treating too large an area, or excessive channel flow (runoff overtops or collapses fence)

Inspection and Maintenance Guidelines:

- (1) Inspect all fencing weekly, and after any rainfall.
- (2) Remove sediment when buildup reaches 6 inches.
- (3) Replace any torn fabric or install a second line of fencing parallel to the torn section.
- (4) Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
- (5) When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

1.4.11 Inlet Protection

Storm sewers that are made operational prior to stabilization of the associated drainage areas can convey large amounts of sediment to natural drainage ways. In case of extreme sediment loading, the storm sewer itself may clog and lose a major portion of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets. The following guidelines for inlet protection are based primarily on recommendations by the Virginia Dept. of Conservation and Recreation (1992) and the North Central Texas Council of Governments (NCTCOG, 1993b).

In developments for which drainage is to be conveyed by underground storm sewers (i.e., streets with curbs and gutters), all inlets that may receive storm runoff from disturbed areas should be protected. Temporary inlet protection is a series of different measures that provide protection against silt transport or accumulation in storm sewer systems. This clogging can greatly reduce or completely stop the flow in the pipes. The different measures are used for different site conditions and inlet types.

Care should be taken when choosing a specific type of inlet protection. Field experience has shown that inlet protection that causes excessive ponding in an area of high construction activity may become so inconvenient that it is removed or bypassed, thus transmitting sediment-laden flows unchecked. In such situations, a structure with an adequate overflow mechanism should be utilized.

It should also be noted that inlet protection devices are designed to be installed on construction sites and not on streets and roads open to the public. When used on public streets these devices will cause ponding of runoff, which can cause minor flooding and can present a traffic hazard. An example of appropriate siting would be a new subdivision where the storm drain system is installed before the area is stabilized and the streets open to the general public. When construction occurs adjacent to active streets, the sediment should be controlled on site and not on public thoroughfares. Occasionally, roadwork or utility installation will occur on public roads. In these cases, inlet protection is an appropriate temporary BMP.

The following inlet protection devices are for drainage areas of one acre or less. Runoff from larger disturbed areas should be routed to a temporary sediment trap or basin.

Filter barrier protection using silt fence is appropriate when the drainage area is less than one acre and the basin slope is less than five percent. This type of protection is not applicable in paved areas.

Block and gravel protection is used when flows exceed 0.5 cubic feet per second and it is necessary to allow for overtopping to prevent flooding. This form of protection is also useful for curb type inlets as it works well in paved areas.

Wire mesh and gravel protection is used when flows exceed 0.5 cubic feet per second and construction traffic may occur over the inlet. This form of protection may be used with both curb and drop inlets.

Excavated impoundment protection around a drop inlet may be used for protection against sediment entering a storm drain inlet. With this method, it is necessary to install weep holes to allow the impoundment to drain completely. If this measure is implemented, the impoundment should be sized such that the volume of excavation is 3,600 cubic feet per acre (equivalent to 1 inch of runoff) of disturbed area entering the inlet.

Materials:

- (1) Filter fabric should be a nylon reinforced polypropylene fabric which meets the following minimum criteria: Tensile Strength, 90 lbs.; Puncture Rating, 60 lbs.; Mullen Burst Rating, 280 psi; Apparent Opening Size, U.S. Sieve No. 70.
- (2) Posts for fabric should be 2" x 4" pressure treated wood stakes or galvanized steel, tubular in cross-section or they may be standard fence "T" posts.
- (3) Concrete blocks should be standard 8" x 8" x 16" concrete masonry units.
- (4) Wire mesh should be standard hardware cloth or comparable wire mesh with an opening size not to exceed 1/2 inch.

Guidelines for installation:

Silt Fence Drop Inlet Protection

- (1) Silt fence should conform to the specifications listed above and should be cut from a continuous roll to avoid joints.
- (2) For stakes, use 2 x 4-inch wood or equivalent metal with a minimum length of 3 feet.
- (3) Space stakes evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely drive them into the ground, approximately 18 inches deep (Figure 1-33).
- (4) To provide needed stability to the installation, a frame with 2 x 4-inch wood strips around the crest of the overflow area at a maximum of 1½ feet above the drop inlet crest should be provided.

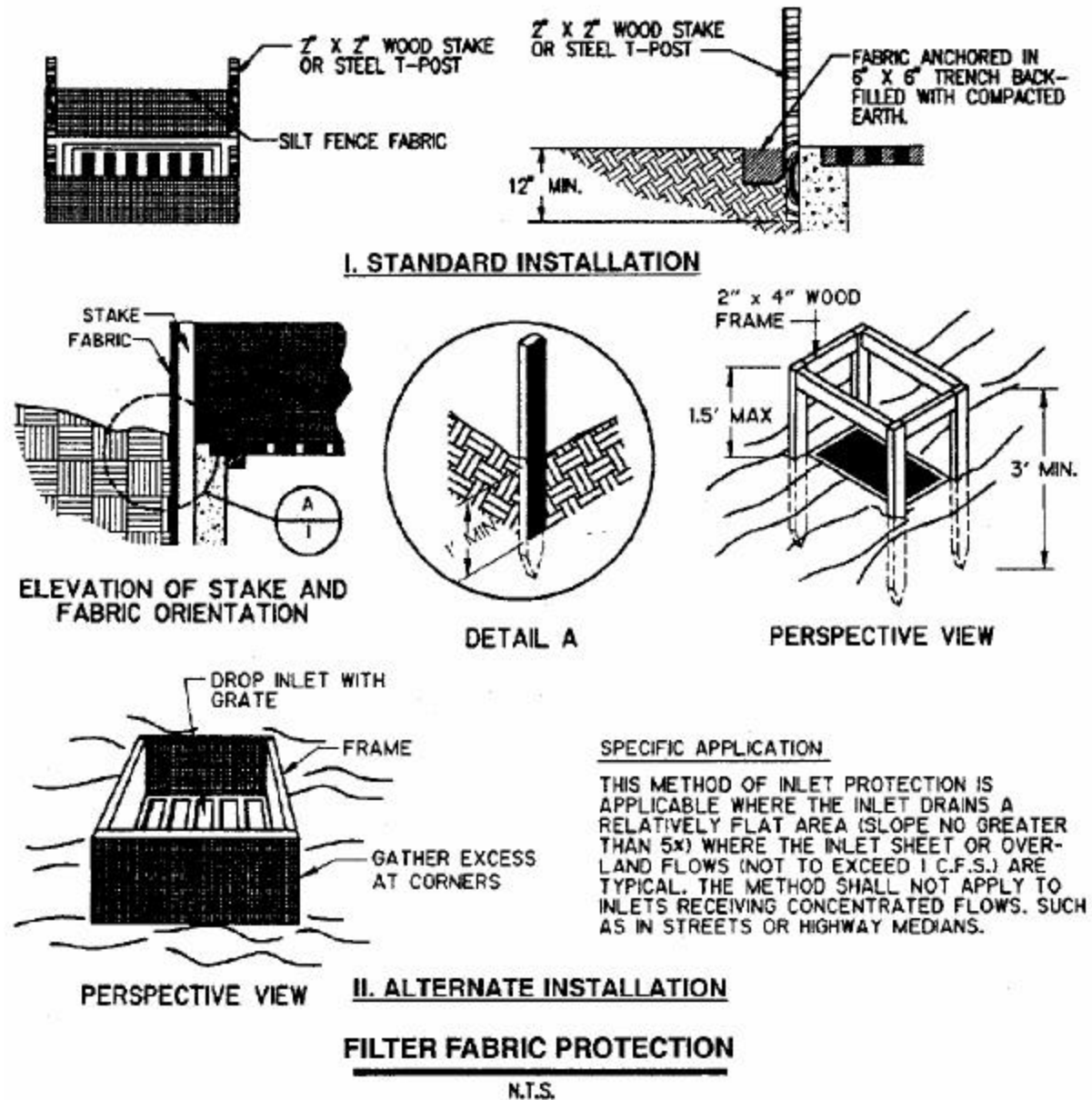


Figure 1-33 Filter Fabric Inlet Protection (NCTCOG, 1993)

- (5) Place the bottom 12 inches of the fabric in a trench and backfill the trench with 12 inches of compacted soil.
- (6) Fasten fabric securely by staples or wire to the stakes and frame. Joints must be overlapped to the next stake.
- (7) It may be necessary to build a temporary dike on the down slope side of the structure to prevent bypass flow.

If the drop inlet is above the finished grade, the grate may be completely covered with filter fabric. The fabric should be securely attached to the entire perimeter of the inlet using 1"x 2" wood strips and appropriate fasteners.

Gravel and Wire Mesh Drop Inlet Sediment Filter

- (1) Wire mesh should be laid over the drop inlet so that the wire extends a minimum of 1 foot beyond each side of the inlet structure. Wire mesh with 1/2-inch openings should be used. If more than one strip of mesh is necessary, the strips should be overlapped (see Figure 1-34).

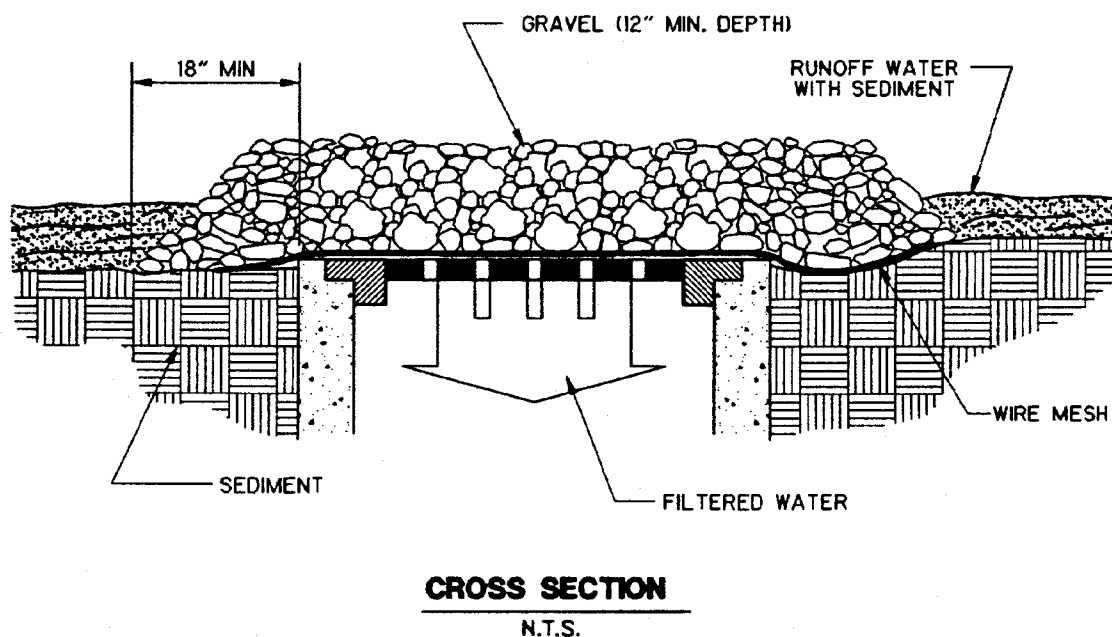


Figure 1-34 Wire Mesh and Gravel Inlet Protection (NCTCOG, 1993)

- (2) Coarse aggregate should be placed over the wire mesh as indicated in Figure 1-34. The depth of stone should be at least 12 inches over the entire inlet opening. The stone should extend beyond the inlet opening at least 18 inches on all sides.
- (3) If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the inlet, cleaned and/or replaced.

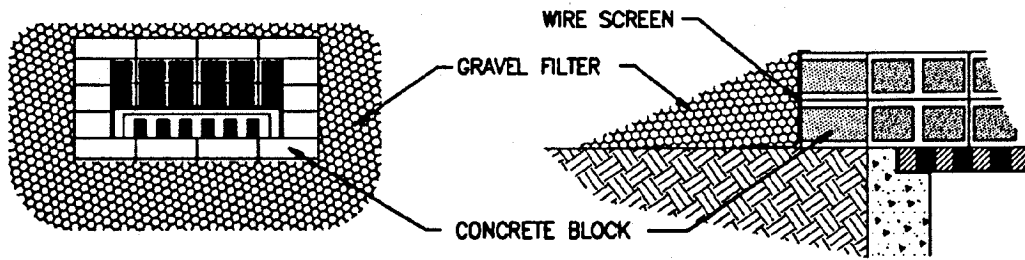
Note: This filtering device has no overflow mechanism; therefore, ponding is likely especially if sediment is not removed regularly. This type of device should never be used where overflow may endanger an exposed fill slope. Consideration should also be given to the possible effects of ponding on traffic movement, nearby structures, working areas, adjacent property, etc.

Block and Gravel Drop Inlet Sediment Filter

- (1) Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4-inch, 8-inch and 12-inch wide blocks. The barrier of blocks should be between 12 and 24 inches high.
- (2) Wire mesh should be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Wire mesh with 1/2-inch openings should be used.
- (3) Stone should be piled against the wire to the top of the block barrier, as shown in Figure 1-35.
- (4) If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and replaced.

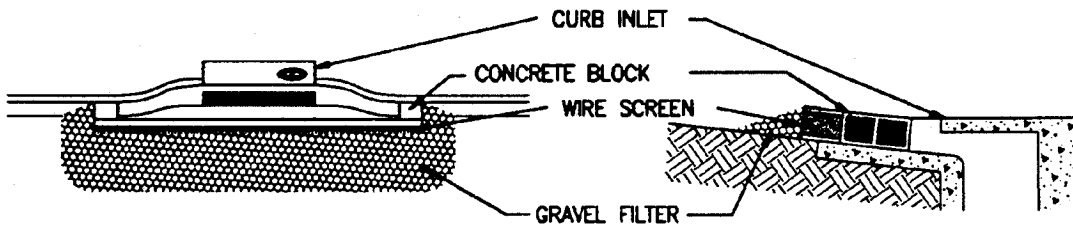
Block and Gravel Curb Inlet Sediment Filter

- (1) Two concrete blocks should be placed on their sides abutting the curb at either side of the inlet opening.
- (2) A 2-inch x 4-inch stud should be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
- (3) Concrete blocks should be placed on their sides across the front of the inlet and abutting the spacer blocks as depicted in Figure 1-35.
- (4) Wire mesh should be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Wire mesh with 1/2-inch openings should be used.
- (5) Coarse aggregate should be piled against the wire to the top of the barrier as shown in Figure 1-35.
- (6) If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and/or replaced.



DROP INLET PROTECTION

N.T.S.



CURB INLET PROTECTION

N.T.S.

Figure 1-35 Block and Gravel Inlet Protection (NCTCOG, 1993)

Excavated Drop Inlet Sediment Trap

- (1) The excavated trap should be sized to provide a minimum storage capacity calculated at 3,600 cubic feet per acre of drainage area. A trap should be no less than 1-foot nor more than 2 feet deep measured from the top of the inlet structure. Side slopes should not be steeper than 2:1 (see Figure 1-36).

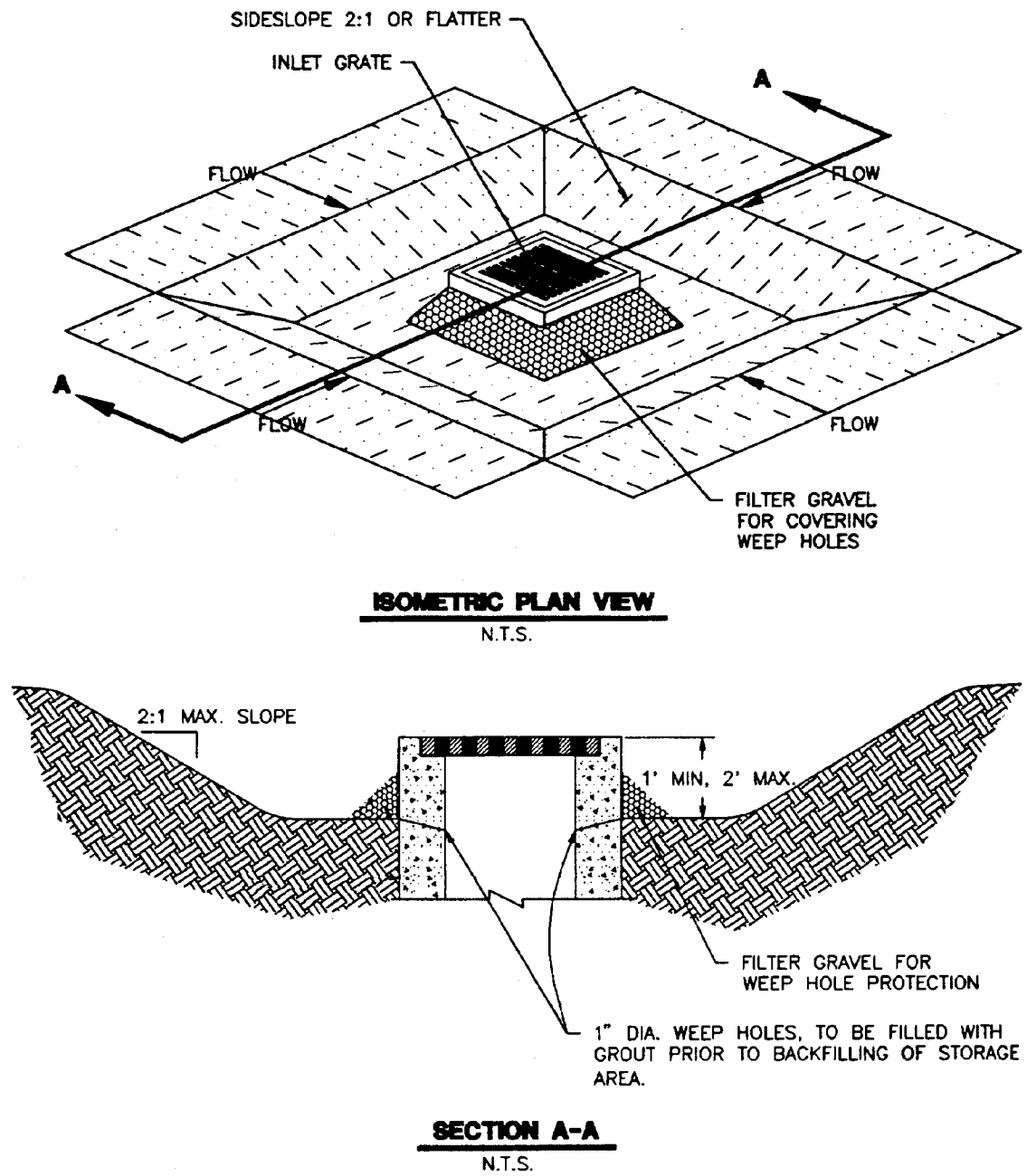


Figure 1-36 Excavated Inlet Protection (NCTCOG, 1993)

- (2) The slope of the basin may vary to fit the drainage area and terrain. Observations must be made to check trap efficiency and modifications should be made as necessary to ensure satisfactory trapping of sediment. Where an inlet is located so as to receive concentrated flows, such as in a highway median, it is recommended that the basin have a rectangular shape in a 2:1 (length/width) ratio, with the length oriented in the direction of the flow.

- (3) Sediment should be removed and the trap restored to its original dimensions when the sediment has accumulated to one-half the design depth of the trap. Removed sediment should be deposited in a suitable area and in a manner such that it will not erode.

Curb Inlet Protection with 2-inch x 4-inch Wooden Weir

- (1) Attach a continuous piece of wire mesh (30-inch minimum width x inlet throat length plus 4 feet) to the 2-inch x 4-inch wooden weir (with a total length of throat length plus 2 feet) as shown in Figure 1-37. Wood should be “construction grade” lumber.
- (2) Place a piece of approved filter cloth of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2-inch x 4-inch weir.
- (3) Securely nail the 2-inch x 4-inch weir to the 9-inch long vertical spacers which are to be located between the weir and inlet face at a maximum 6-foot spacing.
- (4) Place the assembly against the inlet throat and nail 2-foot (minimum) lengths of 2-inch x 4-inch board to the top of the weir at spacer locations. These 2-inch x 4-inch anchors should extend across the inlet tops and be held in place by sandbags or alternate weight.
- (5) The assembly should be placed so that the end spacers are a minimum 1 foot beyond both ends of the throat opening.
- (6) Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place coarse aggregate over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- (7) This type of protection should be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- (8) Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

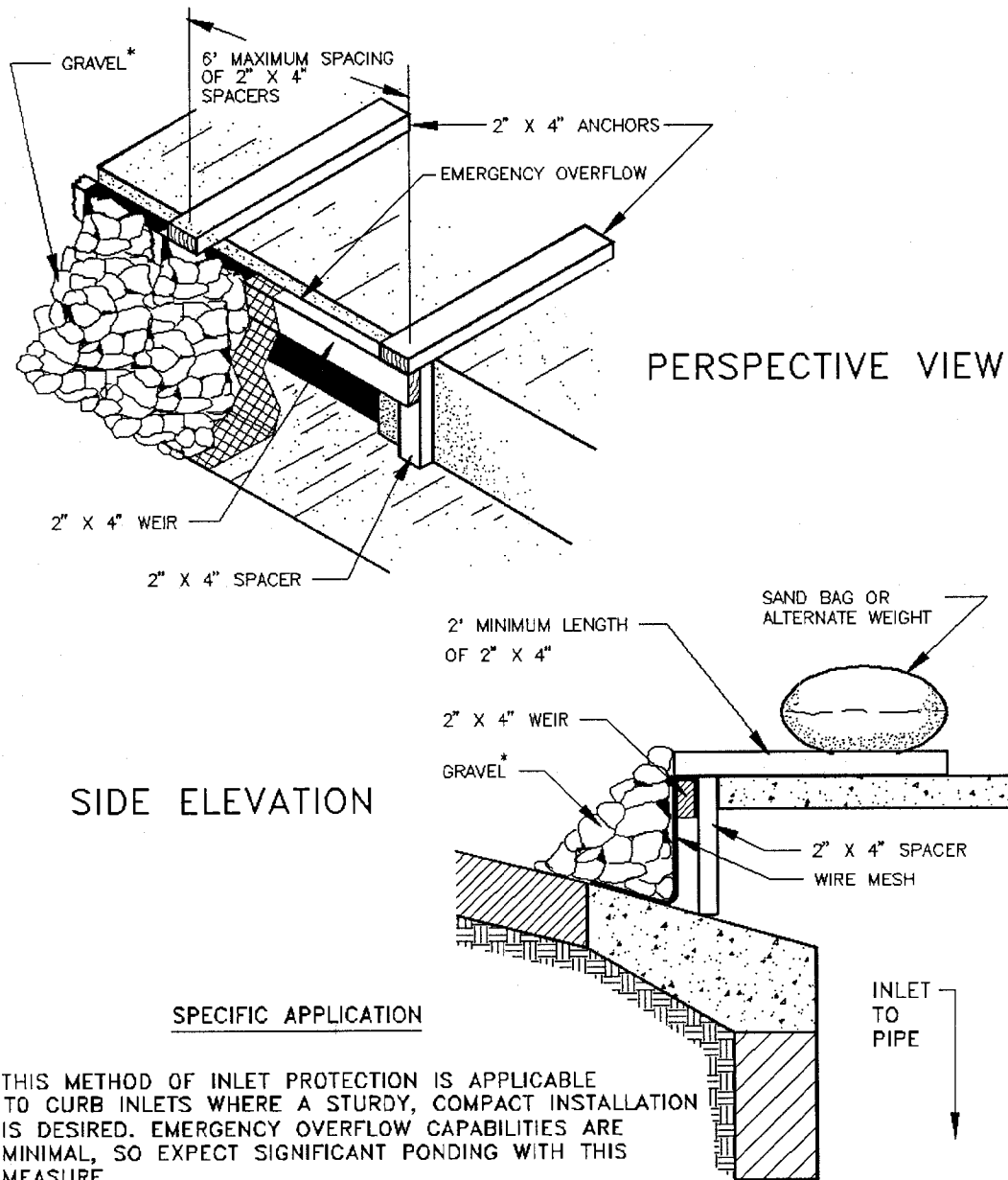


Figure 1-37 Wooden Weir Curb Inlet Protection (VA Dept of Conservation, 1992)

Common Trouble Points:

- (1) Gaps between the inlet protection and the curb (flows bypass around side of filter).
- (2) Filter fabric skirt not anchored to pavement (flows pass under filter).

Bagged Gravel Inlet Filter

Sandbags filled with pea gravel can also be used to construct a sediment barrier around curb and drain inlets. The sandbags should be filled with washed pea gravel and stacked to form a continuous barrier about 1 foot high around the inlets. The bags should be tightly abutted against each other to prevent runoff from flowing between the bags. This measure should be installed as shown in Figure 1-38.

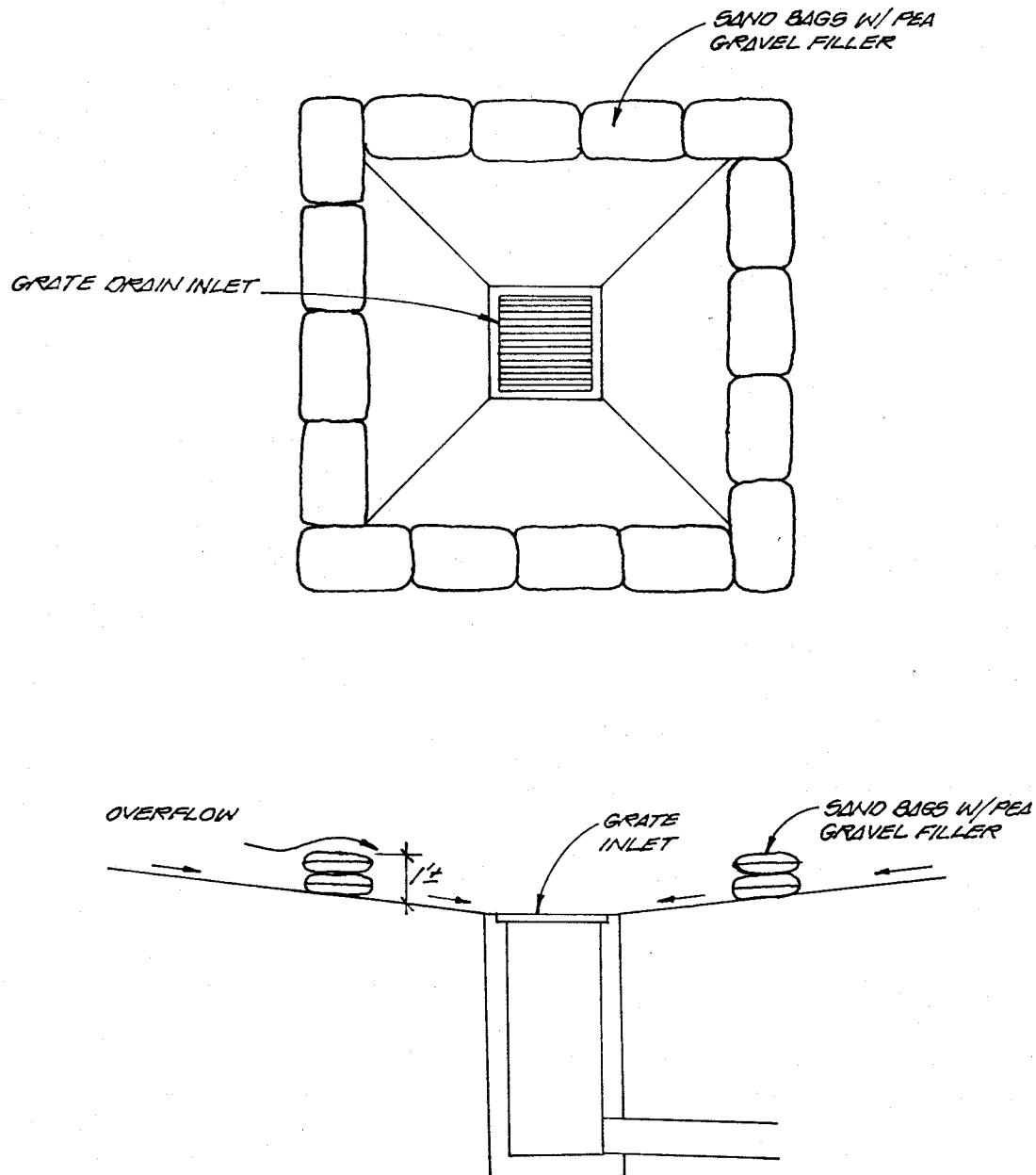


Figure 1-38 Diagram of Bagged Gravel Grate Inlet Protection (Pape-Dawson)

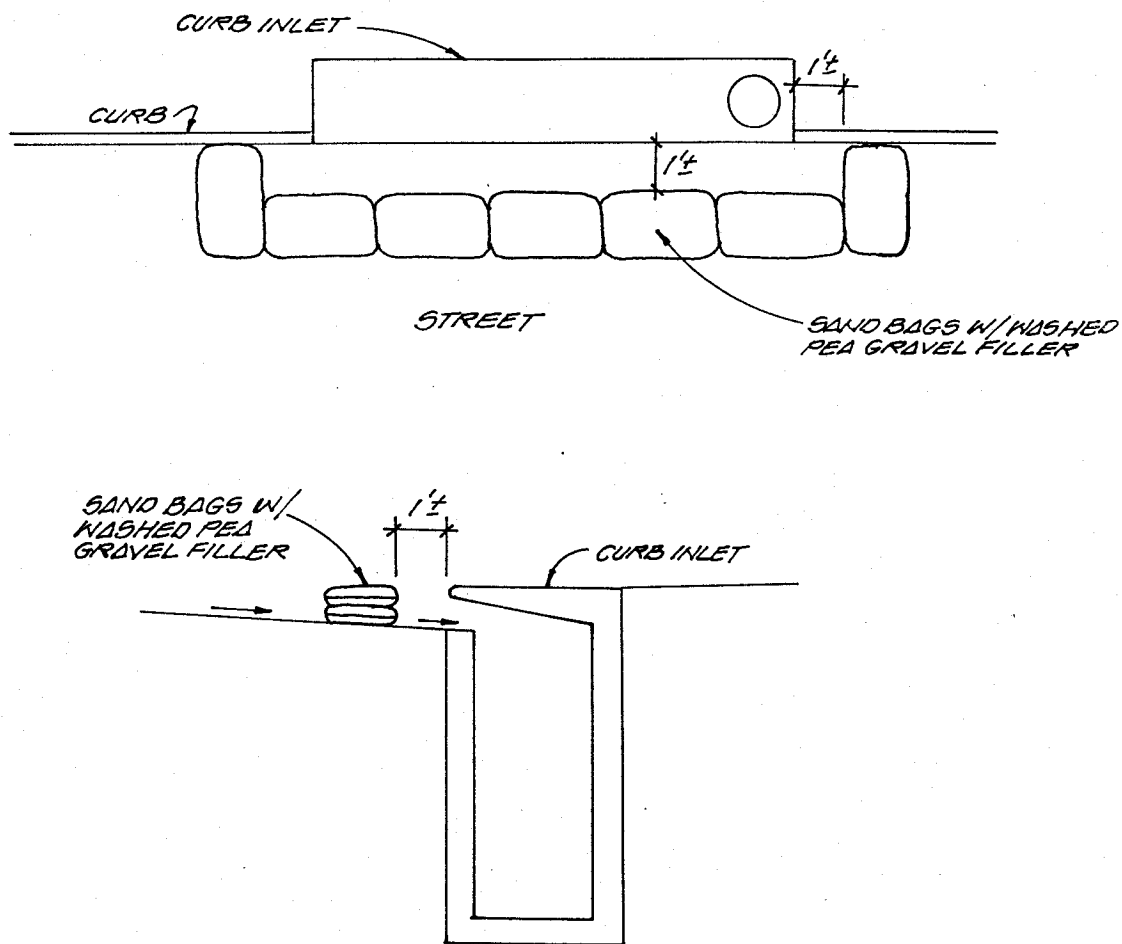


Figure 1-39 Diagram of Bagged Gravel Curb Inlet Protection (Pape-Dawson).

Inspection and Maintenance Guidelines:

- (1) Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- (2) Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- (3) Check placement of device to prevent gaps between device and curb.
- (4) Inspect filter fabric and patch or replace if torn or missing.

- (5) Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

1.4.18 Concrete Washout Areas

The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.

For onsite washout:

- Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

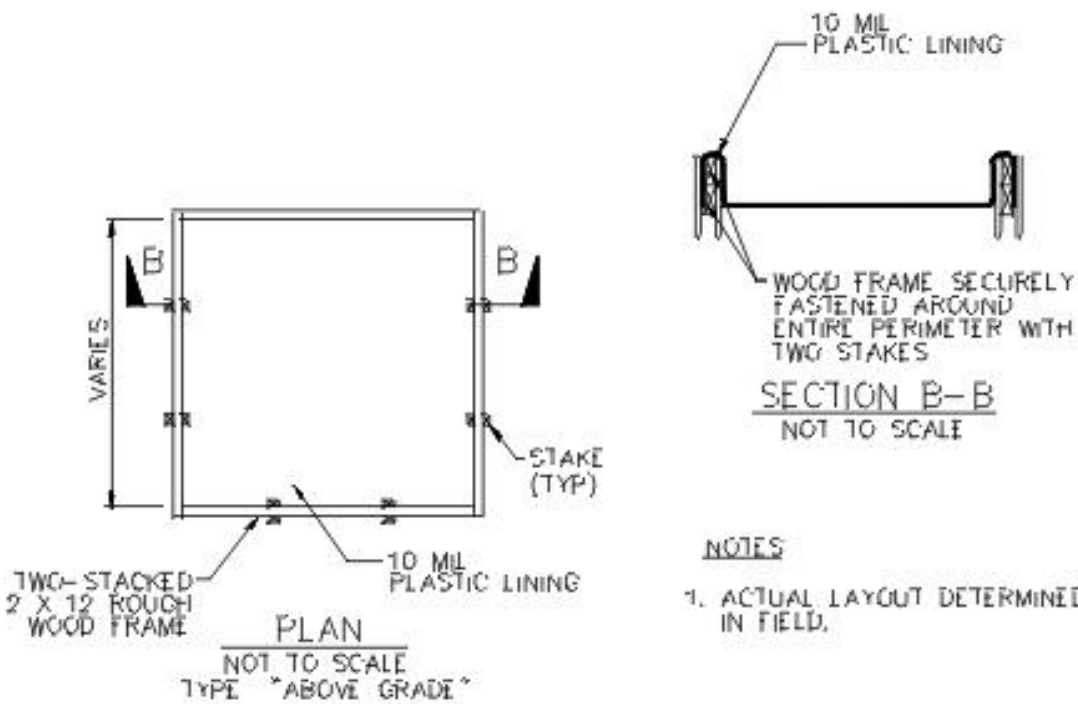
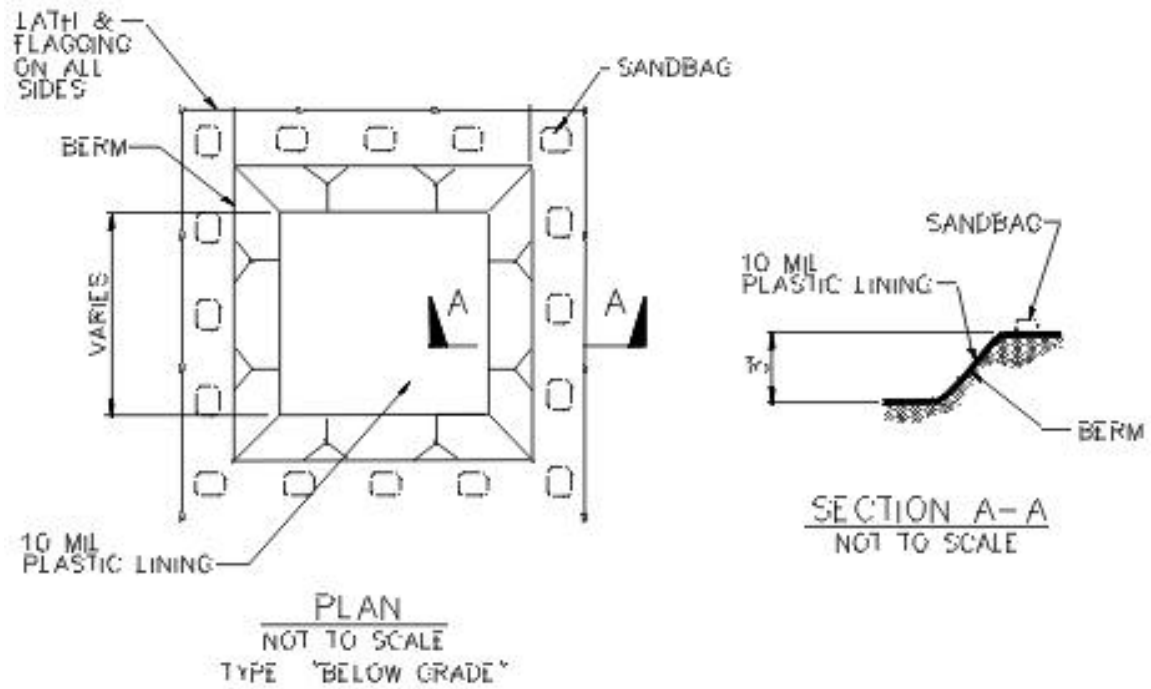


Figure 1-43 Schematics of Concrete Washout Areas

Attachment G: Drainage Area Map

Not Applicable

Attachment H: Temporary Sediment Ponds Plans and Calculations

Not Applicable

Attachment I: Inspection and Maintenance for BMPs

Inspections of BMPs and other stormwater controls will be performed to identify integrity of physical and/or structural controls and evidence of the potential for pollutants entering the drainage system. Inspections will be performed by a person knowledgeable of the TCEQ Construction General Stormwater Permit (CGP), the construction Stormwater Pollution Prevention Plan (SWPPP) prepared for this project, and the site. The inspections will include disturbed areas of the construction site that have not been finally stabilized, areas used for the storage of materials that are exposed to precipitation, erosion and sedimentation control measures, and areas where vehicles enter and exit the site.

The Inspector will notify the responsible party or contractor as soon as practicable of any findings made. Actions taken as a result of the inspection will be documented on the inspection form. Where no incidents of non-compliance are observed or reported during the inspection, the inspection form certification, certifying that the project or site is in compliance with the SWPPP and the CGP, must be signed by the person and in the manner described in 30 TAC § 305.128 (relating to Signatories to Reports). The SWPPP will be modified based on the results of inspections, as necessary. Revisions will be completed within seven calendar days following the inspection.

Inspections will be performed on one of the schedules listed below. Once a schedule is selected, the schedule may be changed no more than once per month. Schedule changes may occur only once a month and the change must occur at the beginning of the month. The selected schedule and the reason for changing the schedule will be noted on the inspection form. In the event of flooding or other uncontrollable situations that prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

- Every 7 calendar days, on a specific day of the week, regardless of whether or not there has been a rainfall event since the previous inspections.
- Or, every 14 calendar days and after each qualifying rain event of 0.5-inch within 24 hours.

Alternative Inspection Schedules Allowed for Specific Conditions:

- For sites located in arid, semi-arid, and drought stricken regions, the following alternative inspection schedule may be used: once every month and within 24 hours following a storm event of 0.5 inches or more precipitation. If this alternative schedule is used, the SWPPP must also contain a record of the total rainfall measured, as well as the approximate beginning and ending dates of drought conditions resulting in the use of this schedule.
- For site areas that have been either finally or temporarily stabilized, the following alternative inspection schedule may be used: once a month.

All erosion and sediment control measures and other protective measures implemented must be maintained in effective operating condition. If site inspections identify BMPs that are not operating effectively, maintenance must be performed as soon as possible and before the next storm event, whenever practicable, to maintain the continued effectiveness of stormwater controls. BMPs that have been damaged

by construction activities (run over, disabled, removed etc.) will be repaired or replaced immediately upon discovery.

Sediment resulting from construction activities will be removed from sediment traps/inlet drain protection before the design capacity has been reduced by 50 percent. Trapped sediment will be removed from perimeter controls such as silt fences and berms before the sediment reaches 50 percent of the aboveground height of the control.

If sediment escapes the site, off-site accumulations of sediment must be removed and returned to the construction site (or properly disposed of) as soon as possible to minimize off-site impacts. The contractor will coordinate removal efforts with the owner and/or operator of the off-site stormwater conveyance (ditch, channel, roadway etc.).

If maintenance is not possible prior to the next anticipated rainfall event, the reason will be documented on the maintenance/inspection form and maintenance will be performed as soon as practicable.

Attachment J: Schedule of Interim and Permanent Soil Stabilization Practices

Periodically throughout the project all erosion controls will be re-analyzed and repaired as needed. Upon completion of construction, the areas of disturbance will be re-vegetated. All portions of the site that are not to be worked for more than 14 days will be treated with temporary or permanent soil stabilization measures.

7.0 PERMANENT STORMWATER SECTION (TCEQ-0600)



Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(ii), (E), and (5), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Mr Aaron Brewer, Apex Companies

Date: 7/25/22

Signature of Customer/Agent



Regulated Entity Name: QuikTrip 4166

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

- Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
 N/A
- These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

N/A

3. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

The site will be used for low density single-family residential development and has 20% or less impervious cover.

The site will be used for low density single-family residential development but has more than 20% impervious cover.

The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

The site will not be used for multi-family residential developments, schools, or small business sites.

6. **Attachment B - BMPs for Upgradient Stormwater.**

- A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. **Attachment C - BMPs for On-site Stormwater.**
- A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- N/A
9. The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
 - Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- Design calculations (TSS removal calculations)
 - TCEQ construction notes
 - All geologic features
 - All proposed structural BMP(s) plans and specifications
- N/A

11. **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- Prepared and certified by the engineer designing the permanent BMPs and measures
 - Signed by the owner or responsible party
 - Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - A discussion of record keeping procedures
- N/A
12. **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- N/A
13. **Attachment I -Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- N/A

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- N/A
15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- N/A

Attachment A: 20% or Less Impervious Cover Waiver

Not Applicable

Attachment B: BMPs for Upgradient Stormwater

The Site existing conditions flow pattern falls from within Old Settler's Boulevard to the north. These conditions result in upgradient stormwater flow being directed into the roadside ditch along Old Settler's Boulevard and no impervious cover upgradient stormwater runoff traversing across the Site.

Attachment C: BMPs for On-Site Stormwater

The storm drain system will include the onsite SNOUT® system to trap oils, sediments, and floatable materials at the inlet which receives runoff from the dispenser and tank area.

The water quality pond at the adjacent Settler's Grove development has been designed to receive and treat stormwater runoff from the Site. The pond has been designed to remove the require minimal amount of total suspended solids (TSS) per year and retain floodwaters.

General BMPs for management of on-site stormwater include conscientious operational procedures (facility and equipment design and maintenance, fuel transfers, etc.), good housekeeping, and preventative maintenance.

Potential pollutants at fueling stations that can be potentially exposed to stormwater include fuels, oils, and other petroleum based vehicle maintenance products as well as sediments and windblown and/or improperly discarded trash.

The fuel dispensing area will be covered with a canopy equipped with roof/column drains that will direct stormwater directly into the onsite storm drain system, thus preventing exposure to potential pollutants in the vicinity of the fuel dispensers.

QuikTrip has stringent procedures regarding fuel truck deliveries that carriers must follow to reduce the risk of leaks, spills, overflows, and stormwater contamination. Applicable portions of these procedures include physically sticking the tanks prior to making fuel deliveries, blocking nearby storm drain inlets prior to commencing a fuel delivery, ensuring all connections from the tanker truck to the UST are confirmed tight prior to dropping fuel, using spill buckets at connections to capture any drips, physically observing the fuel unloading process, and cleaning/draining spill buckets once delivery is complete. All carrier drivers must be trained to handle spills and must have available the necessary equipment to help clean up product spills up to 25 gallons (using dry methods only).

QuikTrip store employees are also trained in spill response and have a spill response kit on site with sufficient materials to clean up minor leaks and spills. Only dry cleanup methods and materials will be used. An emergency response contractor is available on-call 24-hours per day in the event of significant spills.

QuikTrip employees perform daily good housekeeping at and around the dispensers and other areas of the facility including trash removal, sweeping, inspecting dispenser areas for leaks at dispensing hoses, and addressing any spilled fuel or oil leaks as needed. Additionally, QuikTrip's Facility Support team will be conducting routine inspections and preventive maintenance of facility equipment to minimize the potential for incidents associated with worn, damaged, or malfunctioning equipment.

By utilizing proper operational procedures, good housekeeping techniques, and a rigorous preventive maintenance program, there is a minimal potential for pollutant contact with stormwater.

Attachment D: BMPs for Surface Streams

The subject site does not have any surface streams located on or adjacent to the Site. No stream protection specific BMPs are proposed.

Attachment E: Request to Seal Features

Not Applicable

Attachment F: Construction Plans

- a. Design calculations (TSS removal calculation)
- b. TCEQ construction notes
- c. Proposed structural BMPs

GENERAL NOTES:

- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED FROM THE GOVERNING AGENCIES AND COORDINATING ALL GOVERNING AGENCY INSPECTIONS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED. REFERENCE SITE WORK SPECIFICATIONS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGE TO ADJACENT PROPERTIES AND NEW CONSTRUCTION IN PLACE DURING THE CONSTRUCTION PHASES OF THIS PROJECT. ANY DISTURBED IMPROVEMENTS SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE.
- ANY QUANTITIES PROVIDED ON THESE PLANS ARE FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITIES REQUIRED FOR CONSTRUCTION.
- THE EXISTING FEATURES SHOWN ON THESE PLANS ARE THOSE NOTED IN THE FIELD AND THOSE TAKEN FROM RECORD DRAWINGS. THERE IS NO GUARANTEE THAT ALL FEATURES (ABOVE OR BELOW GROUND) ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING FEATURES PRIOR TO BIDDING THE PROJECT.
- THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION BY CONTACTING THE LOCAL UTILITY COMPANIES AND/OR UTILIZING THE LOCAL ONE-CALL SYSTEM. ANY DAMAGE DONE TO EXISTING UTILITIES (THAT ARE TO REMAIN IN PLACE) DURING CONSTRUCTION OPERATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY AND REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE OWNERS CONTRACT DOCUMENTS AND SPECIFICATIONS. ALL WORK SHALL MEET OR EXCEED THE RELEVANT UTILITY COMPANIES AND REGULATORY AGENCIES, CONTRACT DOCUMENTS AND SPECIFICATIONS. ALL WORK WITHIN PUBLIC AND STATE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
- TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER TRAFFIC CONTROL IS IN PLACE FOR EACH PHASE OF CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROPERLY MAINTAINING TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL PLANS TO THE CITY AND DEPARTMENT OF TRANSPORTATION AS REQUIRED.

WETLANDS NOTICE:

ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS, AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/ DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

WARRANTY/DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

NOTICE TO BIDDERS:

ALL QUESTIONS REGARDING THE PREPARATION OF THE GENERAL CONTRACTOR'S BID SHALL BE DIRECTED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR. THE CONSULTING ARCHITECT AND/OR THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

FLOOD CERTIFICATION:

THIS PROPERTY LIES IN ZONE "X" AND DOES NOT LOCATE WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR THE WILLIAMSON COUNTY OF ROUND ROCK, TEXAS, COMMUNITY PANEL NUMBER 48491C0487F EFFECTIVE DATE DECEMBER 20, 2019.

BENCHMARKS:

VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY, CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING THE TRIBLE VRS NETWORK.

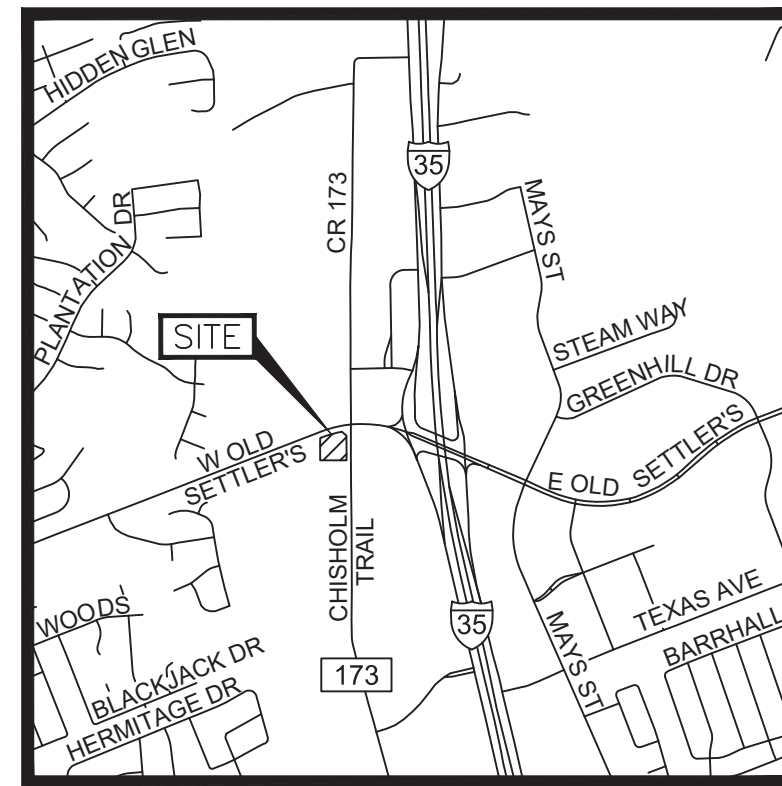
BM-100 "X" CUT ON TOP OF A CONCRETE HEADWALL, BEARS S 87° 48' 22" W, 291.39' FROM THE NORTHWEST CORNER OF SUBJECT TRACT. ELEVATION=786.68'

BM-101 "X" CUT ON TOP OF A CURB, BEARS N 71° 01' 13" E, 97.08' FROM THE SOUTHEAST CORNER OF SUBJECT TRACT. ELEVATION=789.96'

REVISIONS/CORRECTIONS						
NO.	DESCRIPTION	REVISE (R) VOID (V) ADD (A) SHEET NO.'S	TOTAL NO. SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ. FT.)	TOTAL SITE IMP. COVER (SQ. FT.)/%	CITY OF ROUND ROCK APPROVAL DATE

SITE DEVELOPMENT PLANS FOR QUIKTRIP STORE #4166 701 W. OLD SETTLERS BLVD. ROUND ROCK, TEXAS 78664 SDP 2110-0006

LEGAL DESCRIPTION:
BEING LOT 2, BLOCK "A", FINAL PLAT OF CHISHOLM TRAIL TECH CENTER SECTION 1, A SUBDIVISION IN WILLIAMSON COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF, RECORDED IN DOCUMENT NO. 2020064560, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS.



Vicinity Map
Scale: 1"=2000'

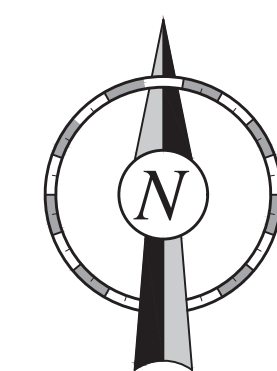
MUNICIPAL CONTACT LIST:

CITY OF ROUND ROCK

- PLANNING AND DEVELOPMENT SERVICES DEPARTMENT**
301 W. BAGDAD AVE, SUITE 210
ROUND ROCK, TEXAS, 78664
TEL: (512) 218-5428
- CAPITAL IMPROVEMENT PROJECTS**
221 E. MAIN ST.
ROUND ROCK, TEXAS, 78664
TEL: (512) 218-5431
- CITY FIRE DEPARTMENT**
203 COMMERCE BLVD
ROUND ROCK, TEXAS, 78664
TEL: (512) 218-5590
- TRANSPORTATION DEPARTMENT**
3400 SUNRISE ROAD
ROUND ROCK, TEXAS, 78665
TEL: (512) 218-7044
- PLANNING AND INSPECTIONS DEPARTMENT-INSPECTIONS DIVISION**
203 W. MAIN ST.
ROUND ROCK, TEXAS, 78664
CONTACT: MARK REMMERT
- CITY OF ROUND ROCK UTILITIES**
221 E. MAIN STREET
ROUND ROCK, TEXAS, 78664
TEL: (512) 218-5555
- ELECTRIC COMPANY**
ONCOR
203 W. MAIN ST
ROUND ROCK, TEXAS, 78664
TEL: (888) 313-6862
- GAS COMPANY**
ATMOS ENERGY
3110 N. INTERSTATE HWY 35
ROUND ROCK, TX, 78681
TEL: (800) 286-6700
- TELEPHONE COMPANY**
AT&T
TEL: (855) 293-7676

PROJECT CONTACT LIST:

- SURVEYOR OF RECORD**
MATKIN HOOVER
KYLE L. PRESSLER, R.P.L.S.
8 SPENCER ROAD, SUITE 300
BOERNE, TEXAS, 78006
TEL: (830) 249-0600
- ENGINEER OF RECORD**
KIMLEY-HORN AND ASSOCIATES, INC.
DEVIN D. KING, P.E.
5301 SOUTHWEST PKWY, BUILDING 3,
SUITE 100
AUSTIN, TEXAS, 78735
TEL: (512) 787-8638
- LANDSCAPE ARCHITECT**
KIMLEY-HORN AND ASSOCIATES, INC.
SHANNON MUNDY
1170 KATY FWY #800
HOUSTON, TEXAS, 77079
TEL: (282) 920-6322
- QT REAL ESTATE PROJECT MANAGER**
QUIKTRIP CORPORATION
DAVID MEYER, JR.
2007 SAM BASS ROAD, SUITE 100
ROUND ROCK, TEXAS, 78681
TEL: (512) 814-4324
- QT CIVIL PROJECT MANAGER**
QUIKTRIP CORPORATION
WADE RICHARDSON
4705 SOUTH 129TH EAST AVE.
TULSA, OK 74134
TEL: (918) 615-7942
- ARCHITECT**
KDF ARCHITECTURAL GROUP
ERIN JICHA
300 WEST CLARENDON AVENUE,
SUITE 320
PHOENIX, ARIZONA, 85013
TEL: (602) 234-1868



EDWARDS AQUIFER:
THE SITE IS LOCATED IN THE EDWARDS AQUIFER RECHARGE ZONE, THEREFORE TCEQ WATER POLLUTION ABATEMENT PLAN APPROVAL IS REQUIRED FOR PERMIT ISSUANCE.

WPAP CASE NO. _____ SCS CASE NO. _____
APPROVAL DATE: _____ APPROVAL DATE: _____

IMPERVIOUS COVER TABLE		
Public Sidewalk, Street, Curb and Gutter	8388	SF
Building Footprint	4993	m
Parking, Private Sidewalk	73397	SF
Total Site Area	86778	SF
DISTURBED GROUND		
Total Site Area	1.99	AC

ODS QUANTITIES:	
LOT SIZE	____ SF
DEVELOPED SITE (LOD)	____ SF
QT SPEC CONCRETE	____ SF
ALTERNATE:	
QT SPEC ASPHALT/CONCRETE	____ SF/____ SF
UG DETENTION	____ CF
SOD OR DECOMPOSED GRANITE AREA	____ SF
ALL OTHER NON-QT SPEC PAVING	____ SF
MASONRY CANOPY	YES/NO
WATER QUALITY UNIT	YES/NO
-UNIT TYPE:	e.g. CRYSTAL STREAM

SEE SHEET 37 OF 80 SETTLERS GROVE INDUSTRIAL DEVELOPMENT IN THE SDP2109-0005 PLANSET FOR THE FULL DRAINAGE CALCULATIONS.

THE QUANTITIES ABOVE ARE INTENDED FOR INTERNAL TRACKING PURPOSES ONLY. THEY ARE NOT REPRESENTATIVE OF THE QUANTITIES FOR BIDDING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING THEIR OWN QUANTITIES.

SDP2109-0005: DESIGN ASSUMPTIONS: INLET PEAK FLOW CALCULATIONS					
	HYDROLOGIC RUNOFF COEFFICIENTS (TABLE 2-1 DCM)				
	2 YR	10 YR	25 YR	50 YR	100 YR
IMPERVIOUS C (CONCRETE)	0.75	0.83	0.88	0.90	0.95
PERVIOUS C (UNDEVELOPED 2-7%)	0.33	0.42	0.46	0.49	0.53
IDF COEFFICIENTS (TABLE 2-2B DCM)					
	2 YR	10 YR	25 YR	50 YR	100 YR
A	46.99	60.75	64.56	73.59	76.90
B	9.575	8.361	7.382	7.329	6.726
C	0.7517	0.7185	0.6814	0.6732	0.6554
IMPERVIOUS COVER		85%			
PROPOSED DRAINAGE AREA		TOTAL AREA (ACRES)		CFS	
DA-1		46.17		234	

NOTE: A/B/C REFERS TO IDF COEFFICIENTS TO FIT THE RATIONAL METHOD ANALYSIS CURVE (i = a/(1+tb)^c)

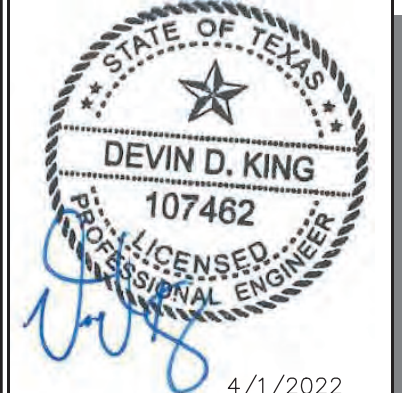
ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

ACCEPTED FOR CONSTRUCTION:

CITY OF ROUND ROCK, TEXAS DATE
PLANNING & DEVELOPMENT SERVICES DEPARTMENT

SHEET INDEX

NO.	SHEET	TITLE
C001	1	COVER SHEET
C002	2	GENERAL NOTES
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Kimley-Horn
2000 W. WATKINS, SUITE 200, AUSTIN, TX 78756
PHONE: (512) 835-1700
WWW.KIMLEY-HORN.COM
TX REG. REGISTRATION NUMBER: 17458

QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664

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Texas 811

STATE OF TEXAS
COUNTY OF WILLIAMSON

I, DEVIN D. KING, DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS SHOWN HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE SUBDIVISION AND BUILDING REGULATION ORDINANCES AND STORM WATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

Devin D. King
DEVIN D. KING, P.E.
ENGINEER OF RECORD

2/7/2022
DATE

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CITY OF ROUND ROCK CONSTRUCTION PLAN NOTES

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD SPECIFICATIONS MANUAL.
- ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DESTRUCTION OR REMOVAL THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER WHO SHALL BE RESPONSIBLE FOR REVISING THE PLANS AS APPROPRIATE.
- MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE CITY OF ROUND ROCK 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. TELEPHONE (512)-218-5428 (PLANNING AND DEVELOPMENT SERVICES DEPARTMENT).
- ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. REVEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF REVEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL CONVENE A PRECONSTRUCTION CONFERENCE BETWEEN THE CITY OF ROUND ROCK, HIMSELF, THE CONTRACTOR, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR ENGINEER MAY REQUIRE.
- THE CONTRACTOR AND THE ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF ROUND ROCK ACCURATE "AS-BUILT" DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION. THESE "AS-BUILT" DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE ENGINEERING AND DEVELOPMENT SERVICES DEPARTMENT PRIOR TO FINAL ACCEPTANCE.
- THE ROUND ROCK CITY COUNCIL SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
- WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINED HIS WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
- AVAILABLE BENCHMARKS (TEXAS STATE PLANE COORDINATES, NAD 83-TXAS CENTRAL ZONE GRID COORDINATES) THAT MAY BE UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT ARE DESCRIBED AS FOLLOWS:
 - BM-100: "X" CUT ON TOP OF A CONCRETE HEADWALL, BEARS S 87° 48' 22" W, 291.39' FROM THE NORTHWEST CORNER OF SUBJECT TRACT. ELEVATION=786.68'
 - BM-101: "X" CUT ON TOP OF A CURB, BEARS N 71° 01' 13" E, 97.08' FROM THE SOUTHEAST CORNER OF SUBJECT TRACT. ELEVATION=789.96'

VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY. CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING TRIBLE VRS NETWORK.

13. IN THE EVENT OF CONFLICT, CITY OF ROUND ROCK NOTES SHALL SUPERSEDE.

TRENCH SAFETY NOTES:

- IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT WILL BE PROVIDED BY THE CONTRACTOR.
- IN ACCORDANCE WITH THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4 FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
- IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN 5 FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES ARE IN FACT 5 FEET OR MORE IN DEPTH OR TRENCHES LESS THAN 5 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE. THE TRENCHED AREA SHALL BE BARRICADED AND THE ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A PROFESSIONAL ENGINEER, ARE RETAINED AND COPIES SUBMITTED TO THE CITY OF ROUND ROCK.

STREET AND DRAINAGE NOTES:

- ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING. TELEPHONE CIVIL INSPECTOR.
- BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 3" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
- DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC., SHALL BE A MINIMUM OF 30" BELOW SUBGRADE.
- STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF ROUND ROCK ENGINEERING AND DEVELOPMENT SERVICES DEPARTMENT.
- BARRICADES BUILT TO CITY OF ROUND ROCK STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- ALL R.C.P. SHALL BE MINIMUM CLASS III.
- THE SUBGRADE MATERIAL FOR THE PAVEMENT SHOWN HEREIN WAS TESTED BY BRAUN INTERTEC CORPORATION ON NOVEMBER 30, 2021 AND THE PAVING SECTIONS DESIGNED IN ACCORDANCE WITH THE CURRENT CITY OF ROUND ROCK DESIGN CRITERIA.

THE PAVING SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS:
XX
XX
XX

THE ROADWAY PAVING SECTIONS ON CHISHOLM TRAIL ARE TO BE CONSTRUCTED AS FOLLOWS:
XX
XX
XX

PER "OLD SETTLERS BLVD, STA XXX+XX.XX TO XXX+XX.XX" RECORD DRAWINGS, PREPARED BY CP&Y, DATED 2013.

THE ROADWAY PAVING SECTIONS ON OLD SETTLERS BLVD ARE TO BE CONSTRUCTED AS FOLLOWS:
2" HMAC (TY C) SURFACE COURSE
2" HMAC (TY C) COURSE
3" HMAC (TY B) COURSE
7" HMAC (TY B) BASE IN TWO EQUAL LIFTS

PER "OLD SETTLERS BLVD, STA 478+84.17 TO 491+17.27" RECORD DRAWINGS, PREPARED BY CP&Y, DATED 2013.

PAVING SECTIONS SHALL BE DETAILED IN THE PROPOSED TYPICAL SECTION OF THE CONSTRUCTION PLANS INCLUDING THE TYPE AND DEPTH FOR ALL PAVEMENT LAYERS AS WELL AS ANY SUBGRADE PREPARATION. SUBGRADE IMPROVEMENT AND BASE COURSE SHALL EXTEND A MINIMUM OF 3' BEHIND THE BACK OF CURB. ROW, LANE WIDTHS, LANE DIRECTION, SHOULDERS, CURBS, AND STATION LIMITS SHALL ALSO BE SHOWN ON THE PROPOSED TYPICAL SECTION.

THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISION OF THE CONSTRUCTION PLANS.

- WHERE PIS ARE OVER 20, SUBGRADES MUST BE STABILIZED UTILIZING A METHOD ACCEPTABLE TO THE CITY ENGINEER. THE GEOTECHNICAL ENGINEER SHALL RECOMMEND AN APPROPRIATE SUBGRADE STABILIZATION IF SULFATES ARE DETERMINED TO BE PRESENT.

WATER AND WASTEWATER NOTES:

- PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 200), OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
- PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 150), SDR 26 PRESSURE RATED 150+ PSI, OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D2241 OR D3034, MAX. DR-26), DUCTILE IRON (AWWA C-100, MIN. CLASS 200).

- UNLESS OTHERWISE ACCEPTED BY THE CITY ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42" MIN., AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MIN. OF 30" BELOW SUBGRADE.
- ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C-100, MIN. CLASS 200).
- ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL ACCEPTED BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE CIVIL INSPECTOR TO COORDINATE UTILITY TIE-INS AND NOTIFY HIM AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING LINES.
- ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF THE PAVEMENT SHALL HAVE BOLTED COVERS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE ALLOWED.
- THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
- LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH THE CITY OF ROUND ROCK INSPECTOR.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF ROUND ROCK TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM, WHERE MEANS OF FLUSHING IS NECESSARY. THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ROUND ROCK.
- SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL AT THE CONTRACTOR'S REQUEST, AND IN HIS PRESENCE. SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF ROUND ROCK NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. THE CONTRACTOR SHALL SUPPLY A CHECK OR MONEY ORDER, PAYABLE TO THE CITY OF ROUND ROCK, TO COVER THE FEE CHARGED FOR TESTING EACH WATER SAMPLE. CITY OF ROUND ROCK FEE AMOUNTS MAY BE OBTAINED BY CALLING THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT AT 512-218-5428.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL.
- THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY OF ROUND ROCK INSPECTOR AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING OR PRESSURE TESTING.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
- ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
- ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:

WATER SERVICE	"W" ON TOP OF CURB
WASTEWATER SERVICE	"S" ON TOP OF CURB
VALVE	"V" ON FACE OF CURB

TOOLS FOR MARKING THE CURB SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE AS SPECIFIED BY THE ENGINEER AND ACCEPTED BY THE CITY OF ROUND ROCK.
- CONTACT THE CITY OF ROUND ROCK PLANNING AND DEVELOPMENT SERVICES DEPARTMENT AT 218-5428 FOR ASSISTANCE IN OBTAINING EXISTING WATER AND WASTEWATER LOCATIONS.
- THE CITY OF ROUND ROCK FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO TESTING OF ANY BUILDING SPRINKLER PIPING IN ORDER THAT THE FIRE DEPARTMENT MAY MONITOR SUCH TESTING.
- SAND, AS DESCRIBED IN SPECIFICATION ITEM S10 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

SI-EVE SIZE	PERCENT RETAINED BY WEIGHT
1/2"	0
3/8"	0-2
#4	40-55
#10	95-100
- THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES, MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 A.M. AND 6 A.M.
- ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 217, AS APPLICABLE. WHENEVER TCEQ AND CITY OF ROUND ROCK SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

TRAFFIC MARKING NOTES:

- ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
- ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

EROSION AND SEDIMENTATION CONTROL NOTES:

- EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
- SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE CITY OF ROUND ROCK FOR EFFECTIVENESS. ADDITIONAL:

WATER				CONCRETE VALLEY GUTTERS		SIDEWALK	
PIPE SIZE (IN)	TYPE	LENGTH (LF)	VOL (GAL)	TOTAL	LF	TOTAL	LF
2	DRS BLACK POLY	15	47	0	LF	4'	0
6	DI	7	198			5'	1241

WASTEWATER				HMAC		VALVES		
PIPE SIZE (IN)	TYPE	LENGTH (LF)	VOL (GAL)	TOTAL	SY	SIZE	TOTAL	BRAND
8	PVC	309	15532	476	5V	4"	0	
						6"	1	
						8"	0	
						12"	0	

FIRE HYDRANTS		CURB AND GUTTER	
TOTAL	BRAND	TOTAL	LF
1		379	LF

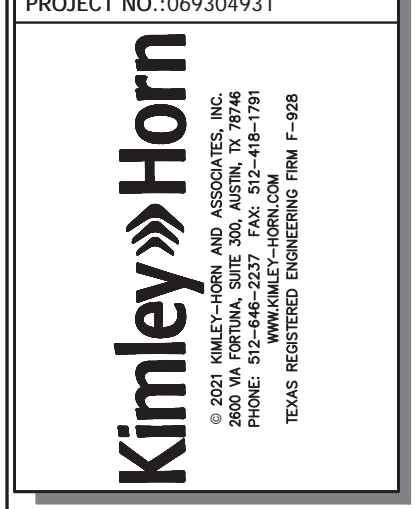
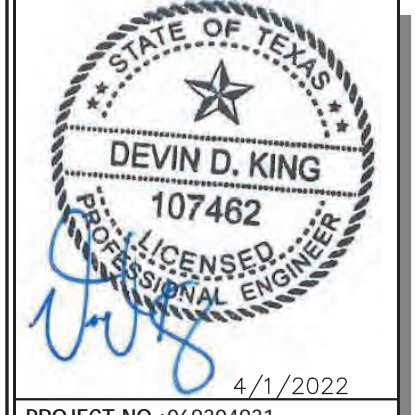
WASTEWATER MANHOLES				INLETS	
PIPE SIZE (IN)	STORM TYPE	LENGTH (LF)	VOL (GAL)	SIZE	QUANTITY
18	RCP	28	7125	4"	0
24	RCP	118	53382	10" CURB	0

KIMLEY-HORN AND ASSOCIATES, INC. GENERAL NOTES

- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- WHEN THE CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AT HIS EXPENSE. ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION CALL THE TEXAS ONE CALL SYSTEM (1-800-245-4545).
- ALL MATERIALS USED FOR FILL OR BACK-FILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPACTABLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
- COMPACTION OF FILL MATERIAL UNDER BUILDING SLABS SHALL BE BASED UPON RECOMMENDATIONS OF SOILS ENGINEER AFTER COMPLETION OF STANDARDS PROCTOR TEST AND SHALL MEET BEARING REQUIREMENTS OF ARCHITECT FOR BUILDINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING.
- MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACK-FILL AROUND DRAINAGE STRUCTURES OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACK-FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARDS PROCTOR TEST AS SET OUT IN ASTM STANDARDS D-698. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACK-FILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
- TRAFFIC CONTROL ON PUBLIC STREETS SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, TxDOT STANDARDS AND AS FURTHER DIRECTED BY CITY INSPECTORS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- ALL DIMENSIONS ARE TO FACE OF CURB, BACK OF CURB AND EXTERIOR WALL OF BUILDING, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE TEXAS ONE CALL SYSTEM (1-800-245-4545) FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES (CONCRETE CURB & GUTTER (TY), PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OF WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
- THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE AWAY FROM NEW BUILDING.
- ALL CONCRETE, BITUMINOUS PAVEMENT AND BASE MATERIAL SHALL CONFORM TO TxDOT STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHOWN ON THE APPROVED PLANS FOR THE DURATION OF CONSTRUCTION OR UNTIL FINAL INSPECTION.
- CONTRACTOR SHALL INSTALL HANDICAP RAMPS PER ADA AND TAS BUILDING CODE STANDARDS AS SHOWN ON THE PLANS.
- ALL PAINT STRIPING, PAVEMENT MARKINGS, SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS OTHERWISE SPECIFIED. ALL NEW SIGNS SHALL BE MOUNTED ON GALVANIZED POSTS AND PROVIDED BY THE OWNER.
- IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOPSOILED AND SEEDED, TEMPORARILY OR PERMANENTLY. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- ADDITIONAL MEASURES TO CONTROL SEDIMENT AND EROSION MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY OF ROUND ROCK BASED UPON SPECIFIC SITE CONDITIONS.
- TREE PROTECTION FENCING TO REMAIN DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF EXCESS MATERIAL OFF-SITE.
- CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE CONSTRUCTION PROJECT ALL EROSION CONTROL. COUNTER MEASURES SHOWN ON THIS SHEET IN ACCORDANCE WITH APPLICABLE STANDARDS FROM TCEQ EROSION AND SEDIMENT CONTROL REGULATIONS.
- CONTRACTOR'S CONSTRUCTION SEQUENCE:
 - INSTALL TEMPORARY CONSTRUCTION ENTRANCE
 - INSTALL TEMPORARY EROSION CONTROL MEASURES AT LOCATIONS SHOWN ON PLAN.
 - INITIATE GRUBBING AND TOPSOIL STRIPPING OF THE SITE.
 - INSTALL WATER AND SEWER APPURTENANCES.
 - INSTALL NEW STORMWATER DRAINAGE SYSTEM. INSTALL INLET PROTECTION ON ALL NEWLY PROPOSED INLETS.
 - AS CONSTRUCTION PROGRESSES, REMOVE SILT AND SEDIMENT BUILDUPS AT ALL MEASURES TO MAINTAIN ADEQUATE EROSION CONTROL.
 - SEE NOTE #5 FOR GROUND COVER REQUIREMENTS
 - INSTALLATION ROOF DRAINAGE AND BUILDING CONSTRUCTION.
 - CONTINUE WITH FINE GRADING OF SITE.
 - SEED, FERTILIZE AND MULCH REMAINING DISTURBED AREAS. CLEAR ALL DEBRIS AND SEDIMENT ACCUMULATION. ESTABLISH PERMANENT STABILIZING VEGETATION DURING THE APPROPRIATE TIME OF YEAR.
 - UPON ESTABLISHED AND STABILIZED VEGETATION, CALL FOR FINAL INSPECTION BY CITY OF ROUND ROCK CONSTRUCTION INSPECTOR.
- THE CONTRACTOR SHALL PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. CONTRACTOR SHALL PROVIDE GROUND COVER IN 14 DAYS ON ALL OTHER AREAS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SWEEPING OR SCOURING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURE SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED AND APPROVAL HAS BEEN OBTAINED FROM THE CITY OF ROUND ROCK INSPECTIONS DEPARTMENT. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
 - EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
 - APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.

IN THE EVENT OF CONFLICT CITY OF ROUND ROCK SHALL SUPERSEDE.



QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664



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GENERAL NOTES

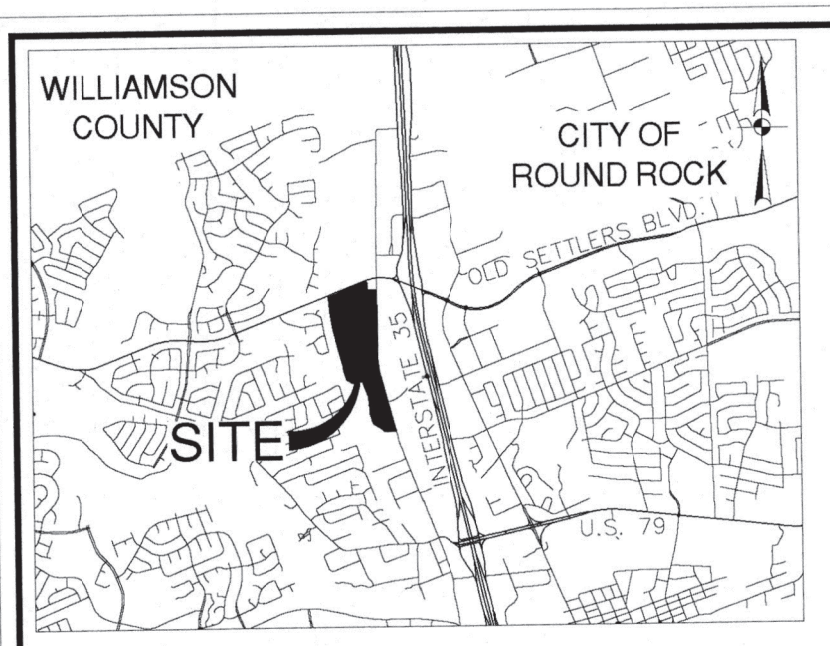
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GENERAL NOTES REFER TO: **VAL EVALUATION REPORT IN INTERTEC CORPORATION**
MAY 30, 2021
REVISIONS AND ADDENDA TO THIS SHEET HAVE BEEN RELEASED AFTER 5.

FILE LOCATION: \\S:\SAL_Civil\Projects\Construction Plans\02-4166_Civil\Drawings\T&E\General Notes\USEP\Main\Logo\Notes_SAVED5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:00 AM

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<p>KHA GENERAL NOTES</p> <p>OVERALL:</p> <p>1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.</p> <p>2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THESE SPECIFICATIONS WHERE THEY CONFLICT WITH THESE KHA GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.</p> <p>3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.</p> <p>4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.</p> <p>5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.</p> <p>6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY.</p> <p>7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.</p> <p>8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.</p> <p>9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.</p> <p>10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE ARCHITECT, ENGINEER, AND OWNER HAVE NOT GIVEN THEIR PRIOR WRITTEN APPROVAL.</p> <p>11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION.</p> <p>12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.</p> <p>13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.</p> <p>14. CONTRACTOR SHALL EXERCISE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.</p> <p>15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.</p> <p>16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.</p> <p>17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.</p> <p>18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE OFF-SITE CONSTRUCTION, AND REPORT TO THE ARCHITECT AND ENGINEER.</p> <p>19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS OR VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR DAMAGE REPAIRS OBTAINED PRIOR TO CONSTRUCTION.</p> <p>20. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.</p> <p>21. CONTRACTOR SHALL TAKE NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.</p> <p>22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.</p> <p>23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS. COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.</p> <p>24. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR UPON ADVANCE OF CONSTRUCTION TO THE ENGINEER FOR REVIEW OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.</p> <p>25. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.</p> <p>26. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.</p> <p>27. CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.</p> <p>28. ALL SYMBOLS SHOWN ON THESE PLANS INCLUDING DIMENSION LINES, VALVES, INLETS, ETC., ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR.</p> <p>29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5 FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS FOR THE ARCHITECTURAL, MEP/FOR AREAS WITHIN 5 FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.</p> <p>30. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.</p> <p>31. THE PROPOSED BUILDING FOOTPRINT SHALL BE PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAN. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY.</p> <p>32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECTS FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.</p> <p>33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.</p> <p>34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.</p> <p>35. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.</p> <p>36. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORTS RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.</p> <p>37. ALL CONTRACTORS SHALL DEFINE THEIR ACTIVITIES TO THE WORK AREA, NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTORS SOLE RESPONSIBILITY TO REPAIR.</p> <p>38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VAULT COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.</p> <p>39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, FENCES, WALLS, SIGNS, PAVEMENT CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC., TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.</p> <p>40. ALL CITY DISTURBED RIGHT-OF-WAY DISTURBED BY THE SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CURBVERTS, AND PAVEMENT.</p> <p>41. THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC., THAT ARE TO BE RELOCATED DURING CONSTRUCTION.</p> <p>42. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CURBVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.</p> <p>43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.</p> <p>44. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER OR DEBRIS AT ALL TIMES.</p> <p>45. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>46. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR HIS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. 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<p>ENGINEERS SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.</p> <p>47. SIGNAGE AND TRAFFIC OPERATIONS SHALL BE KEPT TO A MINIMUM AND BE IMMEDIATELY REMOVED.</p> <p>48. CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILERS, STAGING OPERATIONS AND LOCATIONS.</p> <p>49. LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.</p> <p>50. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.</p> <p>51. TOP POLES SHALL BE NOTICED IMMEDIATELY OF ANY DISCREPANCIES.</p> <p>52. CONTRACTOR SHALL MAINTAIN ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.</p> <p>53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHAL TO LEARN OF ANY REQUIREMENTS.</p> <p>54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN.</p> <p>55. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS.</p> <p>56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.</p> <p>57. IN THE EVENT OF CONTACT, CITY OF ROUND ROCK NOTES SHALL SUPERSEDE.</p>																																																																																																																																																																																																																																																																																																																													
<p>EROSION CONTROL:</p> <p>1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.</p> <p>2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCQE GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 15000".</p> <p>3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.</p> <p>4. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.</p> <p>5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND REPAIR OF ALL EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT.</p> <p>6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE.</p> <p>7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.</p> <p>8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.</p> <p>9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.</p> <p>10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AS NECESSARY TO PREVENT EROSION. EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE. THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.</p> <p>11. OFF-SITE SOIL BORROW, SPILL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMPs TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GRASS COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR SHALL PROVIDE A SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPs FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.</p> <p>12. ALL STAGGS, STOCKPILES, SPILL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.</p> <p>13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPs, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THESE RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.</p> <p>14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL IMPROGRESS.</p> <p>15. SITE ENTRY AND EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ON AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.</p> <p>16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, CONTRACTOR SHALL TAKE NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.</p> <p>17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO A DRAINAGE SEDIMENT TRAP BMP.</p> <p>18. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.</p> <p>19. ALL COSTS IMPOSED FOR THE IMPLEMENTATION OF THE EROSION CONTROL PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>20. WHEN SEDIMENT OR DIRT HAS CLOSED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS DEPOSITED IN ADVANCE OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE DIRT AND REPLACE IT WITH RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.</p> <p>21. DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.</p> <p>22. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE TREE PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK.</p> <p>23. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE PROTECTION DETAILS AND THE APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT.</p> <p>24. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREGGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.</p>																																																																																																																																																																																																																																																																																																																													
<p>STORM WATER DISCHARGE AUTHORIZATION:</p> <p>1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.</p> <p>2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 15000.</p> <p>3. THE CONTRACTOR SHALL SUBMIT THE SWPPP TO THE CITY AND TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NO TO THE OPERATOR OF ANY MSA (TYPICALLY THE CITY) RECEIVING DISCHARGE FROM THE SITE.</p> <p>4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).</p> <p>5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.</p> <p>6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.</p> <p>7. A NOTICE OF TERMINATION (NOTI) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A BMP/MSM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOTI SHALL BE PROVIDED TO THE OPERATOR OF ANY MSA RECEIVING DISCHARGE FROM THE SITE.</p>																																																																																																																																																																																																																																																																																																																													
<p>RETAINING WALLS:</p> <p>1. RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEVATIONS AT THE TOP AND BOTTOM OF THE WALL.</p> <p>2. RETAINING WALL TYPE OR SYSTEM SHALL BE SELECTED BY THE OWNER.</p> <p>3. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE PLANS. STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS, RAILINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFORMED BY A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET.</p> <p>4. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJACENT BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTIONALITIES NOTES.</p> <p>5. RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.</p>																																																																																																																																																																																																																																																																																																																													
<p>PAVING:</p> <p>1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.</p> <p>2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING ALL ADDENDA.</p> <p>3. ALL FRIELANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED.</p> <p>4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND DETAILS AS SHOWN ON THESE PLANS AND THE GEOTECHNICAL REPORT.</p> <p>5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING.</p> <p>6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.</p> <p>7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORTS RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.</p> <p>8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON</p>																																																																																																																																																																																																																																																																																																																													
<p>THE CITY STANDARD CONSTRUCTION DETAIL AND SPECIFICATIONS.</p> <p>9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TCEQ STANDARDS. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FURFS.</p> <p>10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TCEQ STANDARDS, LATEST EDITION.</p> <p>11. ANY COMPONENTS OF THE PROJECT SUBMITTAL TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT, AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.</p> <p>12. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH CONNECTION.</p> <p>13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS.</p> <p>14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT.</p> <p>15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.</p> <p>16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A615, GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDARDS.</p> <p>17. ALL JOINTS SHALL EXTEND THROUGH THE CURBS.</p> <p>18. THE MINIMUM LENGTH OF OFFSET JOINTS AT CURBS POINTS SHALL BE 2 FEET.</p> <p>19. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY OF THE PAVING WORK.</p> <p>20. ALL SCAFFOLDING SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT.</p> <p>21. FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS.</p> <p>22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE INSTALLED VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED.</p> <p>23. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND IRRIGATION) SHALL BE CONSULTED.</p> <p>24. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALL LONG SIDEWALKS, ACCESSIBLE PARKING SPACES, AND SIDEWALKS AND CROSSINGS. CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECTS PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.</p> <p>25. CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNERS APPROVAL TO DO SO.</p> <p>26. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL.</p> <p>15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. ADJUSTMENTS TO THE GRADING PLAN SHALL BE MADE TO PREVENT SEDIMENT FROM WASHING OFF THE SITE.</p> <p>16. NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS.</p> <p>17. TEMPORARY CURBVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF.</p> <p>18. REFER TO DIMENSION CONTROL PLAN, AND PLAN FOR HORIZONTAL DIMENSIONS.</p> <p>19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT STANDARD SPECIFICATIONS AND DETAILS. ALL FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.</p> <p>20. CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING.</p> <p>21. ALL SWPPP AND TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.</p> <p>22. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.</p> <p>23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5 FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND DETAILING DETAILS FOR FILL, CONDITIONING, AND PREPARATION IN THE BUILDING PAD.</p> <p>24. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORTS RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.</p> <p>25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING DURING GRADING OPERATIONS. CONTRACTOR SHALL VERIFY THIS CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION.</p> <p>26. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER.</p> <p>27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.</p> <p>28. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.</p>																																																																																																																																																																																																																																																																																																																													
<p>STORM DRAINAGE:</p> <p>1. ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAIL AND SPECIFICATIONS.</p> <p>2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.</p> <p>3. ALL STORM SEWER SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.</p> <p>4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.</p> <p>5. FLOW LINE, TOP OF CURB, RIM, THROAT, AND GRADE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADAPTAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.</p>																																																																																																																																																																																																																																																																																																																													
<p>IN THE EVENT OF CONFLICT CITY OF ROUND ROCK SHALL SUPERSEDE.</p>																																																																																																																																																																																																																																																																																																																													
<p>ABBREVIATIONS AND DEFINITIONS:</p> <table border="0"> <tr> <td>A</td> <td>AMERICANS WITH DISABILITIES ACT</td> <td>VC</td> <td>TYPICAL VERTICAL CURVE</td> </tr> <tr> <td>AA</td> <td>AMERICAN WATER WORKS ASSOCIATION</td> <td>WC</td> <td>WORK CURVE</td> </tr> <tr> <td>B-B</td> <td>BACK TO BACK</td> <td>WW</td> <td>WASTEWATER</td> </tr> <tr> <td>BC</td> <td>BEGIN CURVE</td> <td>WWMH</td> <td>WASTEWATER MANHOLE</td> </tr> <tr> <td>BCB</td> <td>BACK OF CURB</td> <td></td> <td></td> </tr> <tr> <td>BMC</td> <td>BEGINS CURVATURE</td> <td></td> <td></td> </tr> <tr> <td>BMP</td> <td>BEST MANAGEMENT PRACTICE</td> <td></td> <td></td> </tr> <tr> <td>BOC</td> <td>BACK OF CURB</td> <td></td> <td></td> </tr> <tr> <td>BVC</td> <td>BEGIN VERTICAL CURVE ELEVATION</td> <td></td> <td></td> </tr> <tr> <td>BVCB</td> <td>BEGIN VERTICAL CURVE STATION</td> <td></td> <td></td> </tr> <tr> <td>CA</td> <td>CONCRETE</td> <td></td> <td></td> </tr> <tr> <td>CC</td> <td>CUBIC FEET PER SECOND</td> <td></td> <td></td> </tr> <tr> <td>CITY</td> <td>CITY, TOWN, OR OTHER APPLICABLE LOCAL GOVERNMENT JURISDICTION</td> <td></td> <td></td> </tr> <tr> <td>CYL</td> <td>CENTERLINE</td> <td></td> <td></td> </tr> <tr> <td>CONC</td> <td>CONCRETE</td> <td></td> <td></td> </tr> <tr> <td>CYC</td> <td>CUBIC YARD</td> <td></td> <td></td> </tr> <tr> <td>DEM</td> <td>DEMOLITION</td> <td></td> <td></td> </tr> <tr> <td>DGO</td> <td>DECOMPOSED GRANITE</td> <td></td> <td></td> </tr> <tr> <td>DET</td> <td>DETENTION</td> <td></td> <td></td> </tr> <tr> <td>EA</td> <td>EACH</td> <td></td> <td></td> </tr> <tr> <td>EC</td> <td>END CURVE</td> <td></td> <td></td> </tr> <tr> <td>EGR</td> <td>END CURB RETURN</td> <td></td> <td></td> </tr> <tr> <td>EGR</td> <td>EXISTING GROUND</td> <td></td> <td></td> </tr> <tr> <td>ELEVATION</td> <td>ELEVATION</td> <td></td> <td></td> </tr> <tr> <td>ELEC</td> <td>ELECTRICAL / ELECTRICITY</td> <td></td> <td></td> </tr> <tr> <td>ELEVATION</td> <td>ELEVATION</td> <td></td> <td></td> </tr> <tr> <td>EPA</td> <td>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY</td> <td></td> <td></td> </tr> <tr> <td>EVPC</td> <td>END VERTICAL CURVE ELEVATION</td> <td></td> <td></td> </tr> <tr> <td>EVCS</td> <td>END VERTICAL CURVE STATION</td> <td></td> <td></td> </tr> <tr> <td>EX</td> <td>EXISTING</td> <td></td> <td></td> </tr> <tr> <td>FA</td> <td>FACE TO FACE</td> <td></td> <td></td> </tr> <tr> <td>FG</td> <td>FINISH GROUND</td> <td></td> <td></td> </tr> <tr> <td>FH</td> <td>FIRE HYDRANT</td> <td></td> <td></td> </tr> <tr> <td>FL</td> <td>FLOW LINE</td> <td></td> <td></td> </tr> <tr> <td>FLC</td> <td>FACE OF CURB</td> <td></td> <td></td> </tr> <tr> <td>FEET</td> <td>FEET</td> <td></td> <td></td> </tr> <tr> <td>GH</td> <td>HYDRAULIC GRADE LINE</td> <td></td> <td></td> </tr> <tr> <td>KHL</td> <td>KIMLEY-HORN AND ASSOCIATES, INC.</td> <td></td> <td></td> </tr> <tr> <td>KHA</td> <td>KIMLEY-HORN AND ASSOCIATES, INC.</td> <td></td> <td></td> </tr> <tr> <td>LAT</td> <td>LATERA</td> <td></td> <td></td> </tr> <tr> <td>LF</td> <td>LINEAR FEET</td> <td></td> <td></td> </tr> <tr> <td>LEFT</td> <td>LEFT</td> <td></td> <td></td> </tr> <tr> <td>LMAX</td> <td>MAXIMUM</td> <td></td> <td></td> </tr> <tr> <td>MATCH</td> <td>MATCH EXISTING ELEVATION</td> <td></td> <td></td> </tr> <tr> <td>MANHOLE</td> <td>MANHOLE</td> <td></td> <td></td> </tr> <tr> <td>MIN</td> <td>MINUTE / MINIMUM</td> <td></td> <td></td> </tr> <tr> <td>NO</td> <td>NUMBER</td> <td></td> <td></td> </tr> <tr> <td>NOI</td> <td>NOTICE OF INTENT, REF. 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FILE LOCATION: \\S:\S\069304931 - QT 4186 Chisholm Trail\Coat\QT Construction Plans\02-4186 Chisholm Trail.dwg TAB NAME: Pld_SG 2 OF 5 USER: Mdelacruz SAVES: 5/13/2022 8:00 AM



LOCATION MAP
SCALE: 1"=3,000'

- LEGEND**
- VOL. VOLUME
 - PG. PAGE(S)
 - P.U.E. PUBLIC UTILITY EASEMENT
 - (PD) PAPE-DAWSON
 - (SURVEYOR) ● FOUND 1/2" IRON ROD (UNLESS NOTED OTHERWISE)
 - SET 1/2" IRON ROD (PD)
 - DOC. NO. DOCUMENT NUMBER
 - O.P.R. OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
 - D.R. DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
 - FD. I.R. FOUND IRON ROD
 - R.O.W. RIGHT OF WAY

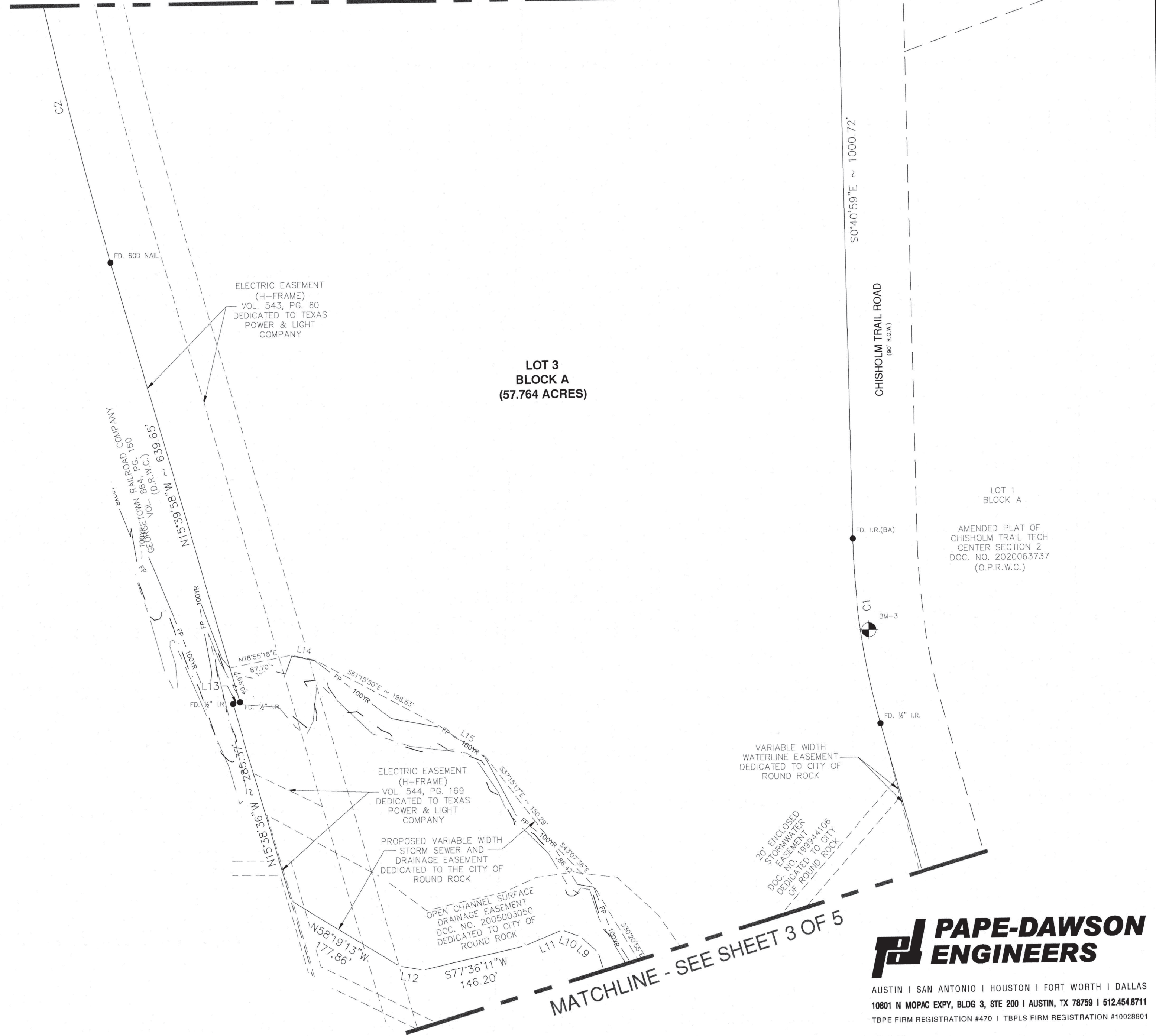
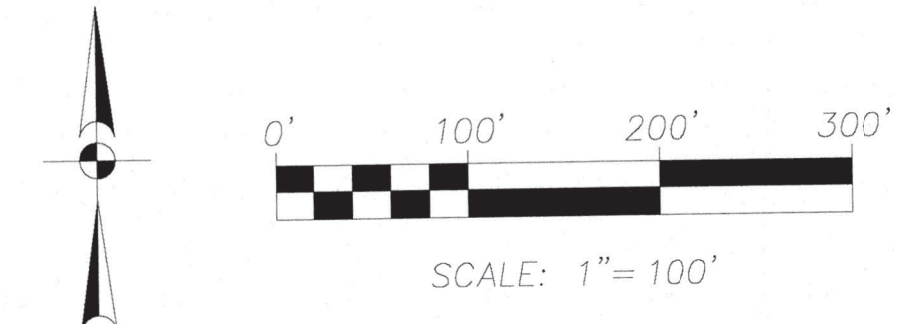
- LINETYPE LEGEND**
- FLOODPLAIN ZONE AE
 - FP - 100YR CITY 100-YEAR FLOODPLAIN
 - CITY 25-YEAR FLOODPLAIN
 - EASEMENT LINE
 - PROPERTY LINE
 - BOUNDARY LINE

**FINAL PLAT OF
SETTLERS GROVE**

A 72.021 ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, WILLIAMSON COUNTY, TEXAS, BEING OUT OF A REMNANT PORTION OF A CALLED 83.167-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114923 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY AND A REMNANT PORTION OF A CALLED 6.75-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114922 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY, ALSO BEING ALL OF A CALLED LOT 1, BLOCK A, FULKES SUBDIVISION, A SUBDIVISION ACCORDING TO THE PLAT RECORDED IN DOCUMENT NO. 2017079588 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY.

MATCHLINE - SEE SHEET 1 OF 5

Doc #2022038308



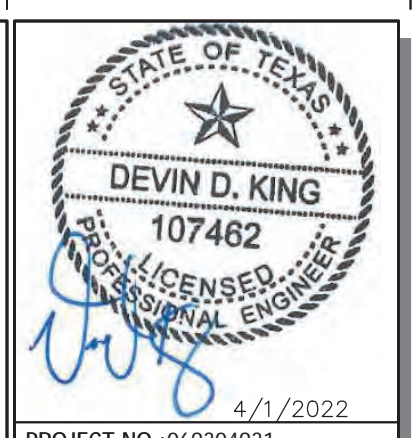
PAPE-DAWSON ENGINEERS

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
10801 N MOPAC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711
TBPPE FIRM REGISTRATION #470 | TBPPLS FIRM REGISTRATION #10028801

DATE OF PLAT PREPARATION: SEPTEMBER 27, 2021
DATE OF PLAT SUBMITTAL:

SHEET 2 OF 5 FP 2110-007

SETTLERS GROVE Civil Job No. 59024-21; Survey Job No. 59024-21



Kimley»Horn

2005 MALDEN BLVD., SUITE 200, AUSTIN, TX 78701
PHONE: 512.444.4444 FAX: 512.444.4445
WWW.KIMLEY-HORN.COM
TBPPE REGISTRATION #10028801

QuikTrip No. 4166

701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664



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DIVISION:	
VERSION:	001
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	

REV	DATE	DESCRIPTION	ORIGINAL ISSUE DATE:

SHEET TITLE:
SETTLERS GROVE
PLAT 2 OF 5

SHEET NUMBER:
C005

Doc # 2022038308

FINAL PLAT OF SETTLERS GROVE

FIELD NOTES FOR

A 72.021 ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, WILLIAMSON COUNTY, TEXAS, BEING OUT OF A REMNANT PORTION OF A CALLED 83.167-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114923 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY AND A REMNANT PORTION OF A CALLED 6.75-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114922 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY, ALSO BEING ALL OF A CALLED LOT 1, BLOCK A, FULKE'S SUBDIVISION, A SUBDIVISION ACCORDING TO THE PLAT RECORDED IN DOCUMENT NO. 2017079588 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY.

EASEMENT NOTE: THE PERPETUAL EASEMENT, RIGHT-OF-WAY, RIGHTS, AND PRIVILEGES HEREIN GRANTED SHALL BE USED FOR THE PURPOSES OF LOCATION, PLACEMENT, RELOCATION, CONSTRUCTION, OPERATION, ENLARGEMENT, MAINTENANCE, ALTERATION, REPAIR, RESBUILDING, REMOVAL, AND PATROL OF UTILITIES AND ASSOCIATED FACILITIES INCLUDING BUT NOT LIMITED TO: PIPES, VALVES, VAULTS, MANHOLES, CHANNELS, INLETS, STRUCTURES, ACCESS FACILITIES, CONDUITS, APPURTENANCES, AND ANY NECESSARY ACCESSORIES THERETO (COLLECTIVELY THE "FACILITIES").

THIS CONVEYANCE IS MADE AND ACCEPTED SUBJECT TO ANY AND ALL CONDITIONS AND RESTRICTIONS, IF ANY, RELATING TO THE HEREBY DESCRIBED PROPERTY TO THE EXTENT, AND ONLY TO THE EXTENT, THAT THE SAME MAY STILL BE IN FORCE AND EFFECT AND SHOWN OF RECORD IN THE OFFICE OF THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS OR TRAVIS COUNTY, TEXAS.

EXCEPT AS OTHERWISE NOTED, THE EASEMENT, RIGHTS, AND PRIVILEGES HEREIN GRANTED SHALL BE PERPETUAL, PROVIDED HOWEVER THAT SAID EASEMENT, RIGHTS, AND PRIVILEGES SHALL CEASE AND REVERT TO GRANTORS IN THE EVENT THE UTILITIES ARE ABANDONED OR SHALL CEASE TO BE IN OPERATION, FOR A PERIOD OF FIVE (5) CONSECUTIVE YEARS.

THE PERPETUAL EASEMENT, RIGHT-OF-WAY, RIGHTS, AND PRIVILEGES GRANTED HEREIN ARE EXCLUSIVE, AND GRANTOR COVENANTS NOT TO CONVEY ANY OTHER EASEMENT OR CONFLICTING RIGHTS WITHIN THE PREMISES COVERED BY THIS GRANT, WITHOUT THE EXPRESS WRITTEN CONSENT OF GRANTEE, WHICH CONSENT SHALL NOT BE UNREASONABLY WITHHELD. GRANTEE SHALL HAVE THE RIGHT TO REVIEW ANY PROPOSED EASEMENT OR CONFLICTING USE TO DETERMINE THE EFFECT, IF ANY, ON THE FACILITIES CONTEMPLATED HEREIN. PRIOR TO GRANTING ITS CONSENT FOR OTHER EASEMENTS, GRANTEE MAY REQUIRE REASONABLE SAFEGUARDS TO PROTECT THE INTEGRITY OF THE FACILITIES THEREON.

- GRANTOR FURTHER GRANTS TO GRANTEE: a. THE RIGHT TO INSTALL ADDITIONAL FACILITIES ON THE EASEMENT TRACT; b. THE RIGHT TO GRADE THE EASEMENT FOR THE FULL WIDTH THEREOF AND TO EXTEND THE CUTS AND FILLS FOR SUCH GRADING INTO AND ONTO THE LAND ALONG AND OUTSIDE THE EASEMENT TO SUCH EXTENT AS GRANTEE MAY FIND REASONABLY NECESSARY; c. THE RIGHT OF INGRESS TO AND EGRESS FROM THE EASEMENT OVER AND ACROSS GRANTOR'S PROPERTY BY MEANS OF ROADS AND LANES THEREON, IF SUCH EXIST, OTHERWISE BY SUCH ROUTE OR ROUTES AS SHALL OCCASION THE LEAST PRACTICABLE DAMAGE AND INCONVENIENCE TO GRANTOR; PROVIDED THAT SUCH RIGHT OF INGRESS AND EGRESS SHALL NOT EXTEND TO ANY PORTION OF GRANTOR'S PROPERTY WHICH IS ISOLATED FROM THE EASEMENT BY ANY PUBLIC HIGHWAY OR ROAD NOW CROSSING OR HEREAFTER CROSSING THE PROPERTY; THE FOREGOING RIGHT OF INGRESS AND EGRESS INCLUDES THE RIGHT OF THE GRANTEE AND ASSIGNED EMPLOYEES OF GRANTEE TO DISASSEMBLE, REMOVE, TAKE DOWN, AND CLEAR AWAY ANY FENCE, BARRICADE, OR OTHER STRUCTURE WHICH OBSTRUCTS, PREVENTS, OR HINDERS GRANTEE'S INGRESS TO AND EGRESS FROM THE GRANTOR'S PROPERTY, AND SHOULD GRANTEE DEEM IT NECESSARY TO SO DISASSEMBLE, REMOVE, TAKE DOWN, OR CLEAR AWAY ANY SUCH FENCE, BARRICADE, OR OTHER STRUCTURE, GRANTEE SHALL, AS SOON AS IS REASONABLY FEASIBLE, REPLACE OR RESTORE GRANTOR'S PROPERTY TO AS SIMILAR A CONDITION AS REASONABLY PRACTICABLE AS EXISTED IMMEDIATELY PRIOR TO GRANTEE'S ACTIONS PURSUANT TO THIS PROVISION, UNLESS SAID FENCE, BARRICADE, OR OTHER STRUCTURE IS INCONSISTENT WITH THE RIGHTS CONVEYED TO GRANTEE HEREIN;

- d. THE RIGHT OF GRADING FOR, CONSTRUCTION, MAINTAINING AND USING SUCH ROADS ON AND ACROSS THE PROPERTY AS GRANTEE MAY DEEM NECESSARY IN THE EXERCISE OF THE RIGHT OF INGRESS AND EGRESS OR TO PROVIDE ACCESS TO PROPERTY ADJACENT TO THE EASEMENT; e. THE RIGHT FROM TIME TO TIME TO TRIM AND TO CUT DOWN AND CLEAR AWAY ANY AND ALL TREES AND BRUSH NOW OR HEREAFTER ON THE EASEMENT AND TO TRIM AND TO CUT DOWN AND CLEAR AWAY ANY TREES ON EITHER SIDE OF THE EASEMENT WHICH NOW OR HEREAFTER IN THE OPINION OF GRANTEE MAY BE A HAZARD TO ANY PIPELINE, VALVES, APPLIANCES, FITTINGS, OR OTHER IMPROVEMENTS BY REASON OF THE DANGER OF FALLING THEREON OR ROOT INFILTRATION THEREIN, OR WHICH MAY OTHERWISE INTERFERE WITH THE EXERCISE OF GRANTEE'S RIGHTS HEREUNDER; PROVIDED HOWEVER, THAT ALL TREES WHICH GRANTEE IS HEREBY AUTHORIZED TO CUT AND REMOVE, IF VALUABLE FOR TIMBER OR FIREWOOD, SHALL CONTINUE TO BE THE PROPERTY OF GRANTOR, BUT ALL TOPS, LOPS, BRUSH AND REFUSE WOOD SHALL BE BURNED OR REMOVED BY GRANTEE;

IT IS UNDERSTOOD AND AGREED THAT ANY AND ALL EQUIPMENT PLACED UPON SAID PROPERTY SHALL REMAIN THE PROPERTY OF GRANTEE.

GRANTOR HEREBY DEDICATES THE EASEMENT FOR THE PURPOSES STATED HEREIN. TO HAVE AND TO HOLD THE RIGHTS AND INTERESTS DESCRIBED UNTO GRANTEE AND ITS SUCCESSORS AND ASSIGNS, FOREVER, TOGETHER WITH ALL AND SINGULAR ALL USUAL AND CUSTOMARY RIGHTS THERETO IN ANYWISE BELONGING, AND TOGETHER WITH THE RIGHT AND PRIVILEGE AT ANY AND ALL TIMES TO ENTER SAID PREMISES, OR ANY PART THEREOF, FOR THE PURPOSE OF CONSTRUCTING OR MAINTAINING SAID UTILITIES AND FOR MAKING CONNECTIONS THEREWITH, AND GRANTOR DOES HEREBY BIND ITSELF, ITS SUCCESSORS AND ASSIGNS AND LEGAL REPRESENTATIVES, TO WARRANT AND FOREVER DEFEND, ALL AND SINGULAR, THE SAID EASEMENT AND RIGHTS AND INTERESTS UNTO THE CITY OF ROUND ROCK, TEXAS, ITS SUCCESSORS AND ASSIGNS, AGAINST EVERY PERSON WHOMSOEVER LAWFULLY CLAIMING OR TO CLAIM THE SAME OR ANY PART THEREOF.

A 72.021 ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, WILLIAMSON COUNTY, TEXAS, BEING OUT OF A REMNANT PORTION OF A CALLED 83.167-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114923 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY AND A REMNANT PORTION OF A CALLED 6.75-ACRE TRACT CONVEYED TO CHISHOLM TRAIL ROAD DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114922 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY, SAID 71.277 ACRE TRACT BEING MORE FULLY DESCRIBED AS FOLLOWS, WITH BEARINGS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NA 2011) EPOCH 2010.00, FROM THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR THE CENTRAL ZONE.

BEGINNING at a 1/2" iron rod with cap marked "Pape-Dawson" set on a point in the south right-of-way line of West Old Settlers Boulevard (120' right-of-way), said point being the northwest corner of said 6.75-acre tract, for the northwest corner and POINT OF BEGINNING hereof;

THENCE with the south right-of-way line of said West Old Settlers Boulevard, same being the north boundary line of said 6.75-acre tract, the following three (3) courses and distances:

- 1.N 68°45'14" E a distance of 215.59 feet to a TxDOT Type II monument found, for an angle point hereof,
2.N 60°14'19" E a distance of 202.14 feet to a TxDOT Type II monument found, for an angle point hereof, and
3.N 68°43'48" E a distance of 621.31 feet to an iron rod with cap stamped "Diamond" found on a point being the northwest corner of Lot 2, Block A, Chisholm Trail Road Tech Center Section 1, Lot 2, a subdivision according to the plat recorded in Document No. 2020064560 of said Official Public Records, same being the northeast corner of the Remnant Portion of said 6.75-acre tract, for the northernmost northeast corner hereof;

THENCE departing the south right-of-way line of said West Old Settlers Boulevard, with the westerly and southerly boundary line of said Lot 2, same being, in part, the westerly boundary line of the Remnant Portion of said 6.57-acre tract and, in part, the easterly and northerly boundary line of the Remnant Portion of said 83.167-acre tract, the three (3) following courses and distances:

- 1.S 21°15'12" E for a distance of 66.08 feet to an iron rod with cap stamped "Diamond" found, on an angle point hereof,
2.S 00°10'44" W for a distance of 173.02 feet to an iron rod with cap stamped "Diamond" found on a point being the southwest corner of said Lot 2, and
3.N 80°30'00" E for a distance of 245.27 feet to an iron rod with cap stamped "Diamond" found on a point in the west right-of-way line of Chisholm Trail Road (90' right-of-way width), said point being the southeast corner of said Lot 2, same being the northeast corner of the Remnant Portion of said 83.167-acre tract, for the easternmost northeast corner hereof;

THENCE continuing with the west right-of-way of said Chisholm Trail Road, same being the east boundary line of the Remnant Portion of said 83.167-acre tract, the following five (5) courses and distances:

- 1.S 00°25'24" E a distance of 783.46 feet to a 1/2" iron rod with cap marked "Baker-Aicklen" found, for an angle point hereof,
2.S 00°40'59" E a distance of 1000.72 feet to a 1/2" iron rod with cap marked "Pape-Dawson" set, for a point of curvature hereof,
3.Along a curve to the left said curve having a radius of 1045.00 feet, a central angle of 141°9'03", a chord bearing an distance of S 07°50'29" E, 260.46 feet, an arc length of 261.13 feet to a 1/2" iron rod found, for a point of tangency hereof,
4.S 15°01'02" E a distance of 998.23 feet to a 1/2" iron rod with cap marked "Pape-Dawson" set, for an angle point hereof, and

- 5.S 14°44'00" E a distance of 631.89 feet to a 1/2" iron rod with cap marked "Pape-Dawson" set on a point being the southeast corner of said Remnant Portion, same being a northeast corner of a called 15.0790-acre tract of land in deed to the City of Round Rock, recorded in Document No. 2010084200 of said Official Public Records, for the southeast corner hereof;

GENERAL NOTES:

- 1. A PORTION OF THIS TRACT IS ENCLOSED BY THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN
2. NO FENCES, STRUCTURES, STORAGE, OR FILL SHALL BE PLACED WITHIN THE LIMITS OF THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN; UNLESS APPROVED BY THE CITY ENGINEER, FILL MAY ONLY BE PERMITTED BY THE CITY ENGINEER AFTER APPROVAL OF THE PROPER ANALYSIS.
3. A PORTION OF THIS TRACT IS ENCLOSED BY ANY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOODPLAIN AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOODPLAIN INSURANCE RATE MAP) COMMUNITY PANEL NUMBER 48491C0487E, AND 48491C0489E, EFFECTIVE DATE DECEMBER 20, 2019, FOR WILLIAMSON COUNTY, TEXAS.
4. ALL SLAB ELEVATIONS SHALL BE A MINIMUM OF TWO (2) FEET ABOVE THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN.
5. NO OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO FENCING OR STORAGE, SHALL BE PERMITTED IN ANY DRAINAGE EASEMENTS SHOWN HEREON.
6. BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH PART III, ZONING AND DEVELOPMENT CODE, CHAPTER 2, ZONING DISTRICTS AND USE REGULATIONS, CITY OF ROUND ROCK, TEXAS, 2018, AS AMENDED.
7. SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PART III, ZONING AND DEVELOPMENT CODE, SECTION 6-26, CITY OF ROUND ROCK, TEXAS, 2018, AS AMENDED.
8. WITH THE EXCEPTION OF PROPERTIES LOCATED WITHIN THE MU-1 AND MU-2 ZONING DISTRICTS, A TEN FOOT (10') PUE AND SIDEWALK EASEMENT ABUTTING AND ALONG THE STREET SIDE PROPERTY LINE IS HEREBY CONVEYED FOR ALL STREET SIDE PROPERTY LOTS SHOWN HEREON.
9. THIS PLAT CONFORMS TO THE PRELIMINARY PLAT PP2110-004 APPROVED BY THE PLANNING AND ZONING COMMISSION ON DECEMBER 1, 2021.
10. THIS PLAT IS SUBJECT TO THE TERMS, CONDITIONS AND STIPULATIONS OF THAT CERTAIN AGREEMENT REGARDING STORMWATER SYSTEM AND DEDICATION OF RIGHT-OF-WAY FOR PUBLIC IMPROVEMENTS DATED JUNE 26, 2003, RECORDED UNDER DOCUMENT NO. 2003093097 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.
11. VARIABLE WIDTH WATERLINE EASEMENT AS DEPICTED SHALL BE FIFTEEN (15) FEET CENTERED ON THE PHYSICAL UTILITY LINE.

DATE OF PLAT PREPARATION: SEPTEMBER 27, 2021
DATE OF PLAT SUBMITTAL:

THENCE departing the west right-of-way of said Chisholm Trail Road, with the easterly boundary line of said 15.0790-acre tract, same being the westerly boundary line of the Remnant Portion of said 83.167-acre tract, the following twenty (20) courses and distances:

- 1.N 88°30'50" W a distance of 286.38 feet to a calculated point hereof,
2.N 27°23'07" W a distance of 22.32 feet to a calculated point hereof,
3.N 50°41'35" W a distance of 56.22 feet to a calculated point hereof,
4.N 59°02'12" W a distance of 176.08 feet to a calculated point hereof,
5.N 67°50'14" W a distance of 69.02 feet to a calculated point hereof,
6.N 28°04'24" W a distance of 61.46 feet to a calculated point hereof,
7.N 13°57'22" W a distance of 128.07 feet to a calculated point hereof,
8.N 23°46'25" W a distance of 34.23 feet to a calculated point hereof,
9.N 11°00'05" W a distance of 73.97 feet to a calculated point hereof,
10.N 00°45'35" W a distance of 143.57 feet to a calculated point hereof,
11.N 21°51'52" W a distance of 34.22 feet to a calculated point hereof,
12.N 04°59'38" W a distance of 242.12 feet to a calculated point hereof,
13.N 22°23'51" W a distance of 254.57 feet to a calculated point hereof,
14.N 16°30'52" W a distance of 154.00 feet to a calculated point hereof,
15.N 48°11'26" W a distance of 32.96 feet to a calculated point hereof,
16.N 69°19'11" W a distance of 27.49 feet to a calculated point hereof,
17.S 67°39'46" W a distance of 56.81 feet to a calculated point hereof,
18.S 77°36'11" W a distance of 146.20 feet to a calculated point hereof,
19.N 80°01'14" W a distance of 33.64 feet to a calculated point hereof, and
20.N 58°19'13" W a distance of 177.86 feet to a 1/2" iron rod with cap marked "McGray" found on a point in the east boundary line of the Georgetown Railroad Company right-of-way, same being the west boundary line of the Remnant Portion of said 83.167-acre tract, for an angle point hereof;

THENCE with the east boundary line of said Georgetown Railroad Company right-of-way, same being the west boundary line of the Remnant Portion of said 83.167-acre tract, the following four (4) courses and distances:

- 1.N 15°38'36" W a distance of 285.37 feet to a 1/2" iron rod found, for an angle point hereof,
2.N 77°10'50" E a distance of 9.87 feet to a 1/2" iron rod found, for an angle point hereof,
3.N 15°39'58" W a distance of 639.65 feet to a 60d nail in rock found, for a point of curvature hereof, and
4.Along a curve to the right said curve having a radius of 6472.63 feet, a central angle of 04°02'23", a chord bearing and distance of N 13°30'51" W, 456.27 feet, an arc length of 456.37 feet to a 1/2" iron rod found on a point being the southwest corner of said 6.75-acre tract, same being the northwest corner of said Remnant Portion, for a point of compound curvature hereof;

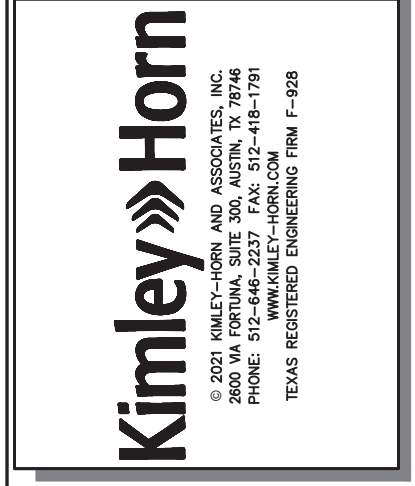
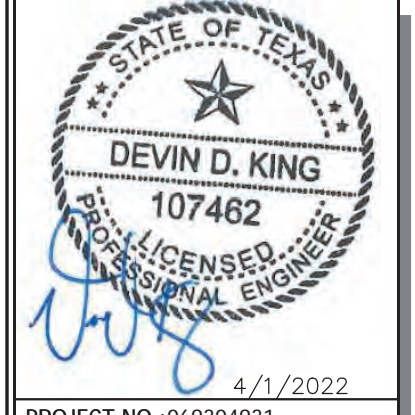
THENCE with the east boundary line of said Georgetown Railroad Company right-of-way, same being the west boundary line of said 6.75 acre tract, along a curve to the right said curve having a radius of 5689.59 feet, a central angle of 07°50'53", a chord bearing and distance of N 07°25'55" W, 778.72 feet, an arc length of 779.33 feet to the POINT OF BEGINNING, and containing 71.277 acres in the City of Austin, Travis County, Texas, said tract being described in accordance with a survey prepared under Job No. 59024-21 by Pape-Dawson Engineers, Inc.



AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
10801 N MOPAC EXPY, BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028801

SHEET 4 OF 5 FP 2110-007

SETTLERS GROVE
Civil Job No. 59024-21; Survey Job No. 59024-21



QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664



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DIVISION:
VERSION: 001
DESIGNED BY:
DRAWN BY:
REVIEWED BY:

Table with columns: REV, DATE, DESCRIPTION, ORIGINAL ISSUE DATE.

SHEET TITLE:
SETTLERS GROVE
PLAT 4 OF 5

SHEET NUMBER:
C007

FILE LOCATION: \\S:\SAL_Civil\069304931 - QT 4166 Chisholm Trail\Cad\QT Construction Plans\02-4166 Civil.dwg
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Doc # 2022038308

FINAL PLAT OF SETTLERS GROVE

A 72.021 ACRE TRACT OF LAND SITUATED IN THE DAWD CURRY SURVEY, ABSTRACT NO. 130, WILLIAMSON COUNTY, TEXAS, BEING OUT OF A REMNANT PORTION OF A CALLED 83.167-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114922 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY AND A REMNANT PORTION OF A CALLED 6.75-ACRE TRACT CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114922 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY, ALSO BEING ALL OF A CALLED LOT 1, BLOCK A, FULKES SUBDIVISION, A SUBDIVISION ACCORDING TO THE PLAT RECORDED IN DOCUMENT NO. 2017079588 OF THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY.

STATE OF TEXAS §
COUNTY OF HARRIS §
That Chisholm Trail Developers Venture, LTD., a Texas Limited Partnership, as the owner of that certain 83.167 acre tract of land recorded in Document No. 2003114922 of the Official Public Records of Williamson County, and the 6.75 acre tract of land recorded in Document No. 2003114923 of the Official Public Records of Williamson County, Texas, and the owner of Lot 1, Block A, Fulkes Subdivision, a subdivision according to the plat recorded in Document No. 2017079588 of said Official Public Records, do hereby certify that there are no lien holders and dedicate to the public forever use of the streets, alleys, easements and all other lands intended for dedication as shown hereon to be known as Settlers Grove.

TO CERTIFY WHICH, WITNESS BY MY HAND THIS 10th day of March, 2022.
Chisholm Trail Developers Venture, Ltd., a Texas limited partnership

By: [Signature]
Name: M. Clark Davis
Title: Chairman and President

THE STATE OF TEXAS §
COUNTY OF HARRIS §
This instrument was acknowledged before me on the 10th day of March, 2022, by M. Clark Davis as Chairman of Chisholm Trail Road Developers Venture, LTD., a Texas Limited Partnership, on behalf of Chisholm Trail Road Developers Venture, LTD.

Angelia Helfrich
Printed Name: Angelia Helfrich
My Commission Expires: September 30, 2022



It is the responsibility of the owner, not the County, to assure compliance with the provisions of all applicable state, federal and local laws and regulations relating to the platting and development of this property. The County assumes no responsibility for the accuracy of representations by other parties in this plat. Floodplain data, in particular, may change. It is further understood that the owners of the tract of land covered by this plat must install at their own expense all traffic control devices and signage that may be required before the roads in the subdivision have finally been accepted for maintenance by the County.

ENGINEER'S CERTIFICATION
THAT I, C.J. PONTON, DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS PLAT COMPLIES WITH CHAPTER 4 - SUBDIVISION DESIGN AND CONSTRUCTION, PART III - ZONING AND DEVELOPMENT CODE, CODE OF ORDINANCES, CITY OF ROUND ROCK, 2018 EDITION AS AMENDED, AND THE DESIGN AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

TO CERTIFY WHICH, WITNESS MY HAND AND SEAL AT TRAVIS, COUNTY, TEXAS THIS 14th DAY OF March, 2022.

[Signature]
C.J. PONTON
PROFESSIONAL ENGINEER NO. 127280
KIMLEY-HORN
TBPE, FIRM REGISTRATION NO. 928
5301 SOUTHWEST PARKWAY,
BUILDING 3, SUITE 100
AUSTIN, TX 78735



SURVEYOR'S CERTIFICATION
THAT I, PARKER GRAHAM, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON-THE-GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH CHAPTER 4 - SUBDIVISION DESIGN AND CONSTRUCTION, PART III - ZONING AND DEVELOPMENT CODE, CODE OF ORDINANCES, CITY OF ROUND ROCK, 2018 EDITION AS AMENDED. TO CERTIFY WHICH, WITNESS MY HAND AND SEAL AT WILLIAMSON, COUNTY, TEXAS THIS 3rd DAY OF DECEMBER, 2021.

[Signature]
PARKER J. GRAHAM
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5556
PAPE-DAWSON ENGINEERS, INC.
TBPELS, FIRM REGISTRATION NO. 10028801
10801 N. MOPAC EXPY.,
BLDG. 3, SUITE 200
AUSTIN, TEXAS, 78759



Approved this 1st day of December, 2021, by the City Planning and Zoning Commission of the City of Round Rock, Texas, and authorized to be filed for record by the County Clerk of Williamson County, Texas.

The property covered by this plat is within the city limits of the City of Round Rock.

[Signature]
Jennifer Harwood, Chairman
City of Round Rock Planning & Zoning Commission

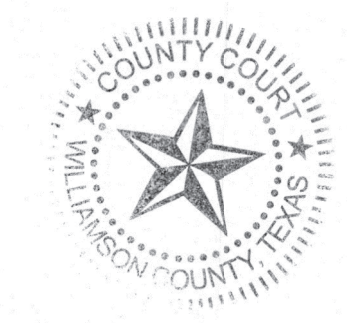
THE STATE OF TEXAS §
COUNTY OF WILLIAMSON §

That I, Nancy Rister, Clerk of the County Court of said County, do hereby certify that the foregoing instrument in writing, with its certification of authentication, was filed for record in my office on the 28th day of March, 2022, A.D., at 2:30 o'clock, P.M., and duly recorded this the day of March 28, 2022, A.D., at 2:51 o'clock, P.M., in the Official Public Records of said County in Instrument No. 2022038308.

WITNESS my hand and seal at the County Court of said County, at my office in Georgetown, Texas, the date last shown above written.

Nancy Rister, Clerk, County Court
Williamson County, Texas

By: [Signature]
Deputy Brenda McKenzie



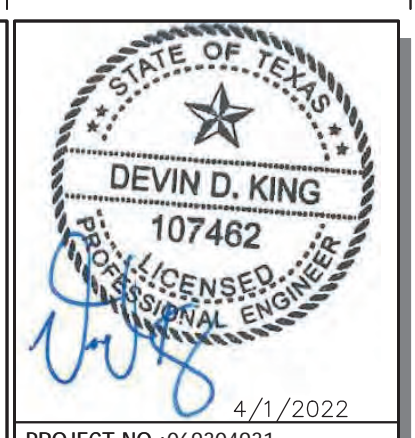
PAPE-DAWSON ENGINEERS

AUSTIN | SAN ANTONIO | HOUSTON | FORT WORTH | DALLAS
10801 N. MOPAC EXPY., BLDG 3, STE 200 | AUSTIN, TX 78759 | 512.454.8711
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028801

SHEET 5 OF 5 FP2110-007

DATE OF PLAT PREPARATION: SEPTEMBER 27, 2021
DATE OF PLAT SUBMITTAL:

Civil Job No. 59024-21; Survey Job No. 59074-21



Kimley»Horn
2000 W. WILSON, SUITE 200, AUSTIN, TX 78759
PHONE: 512.835.4000 FAX: 512.835.4001
WWW.KIMLEY-HORN.COM
TRAFFIC REGISTERED PROFESSIONAL ENGINEER FIRM #7488

QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664



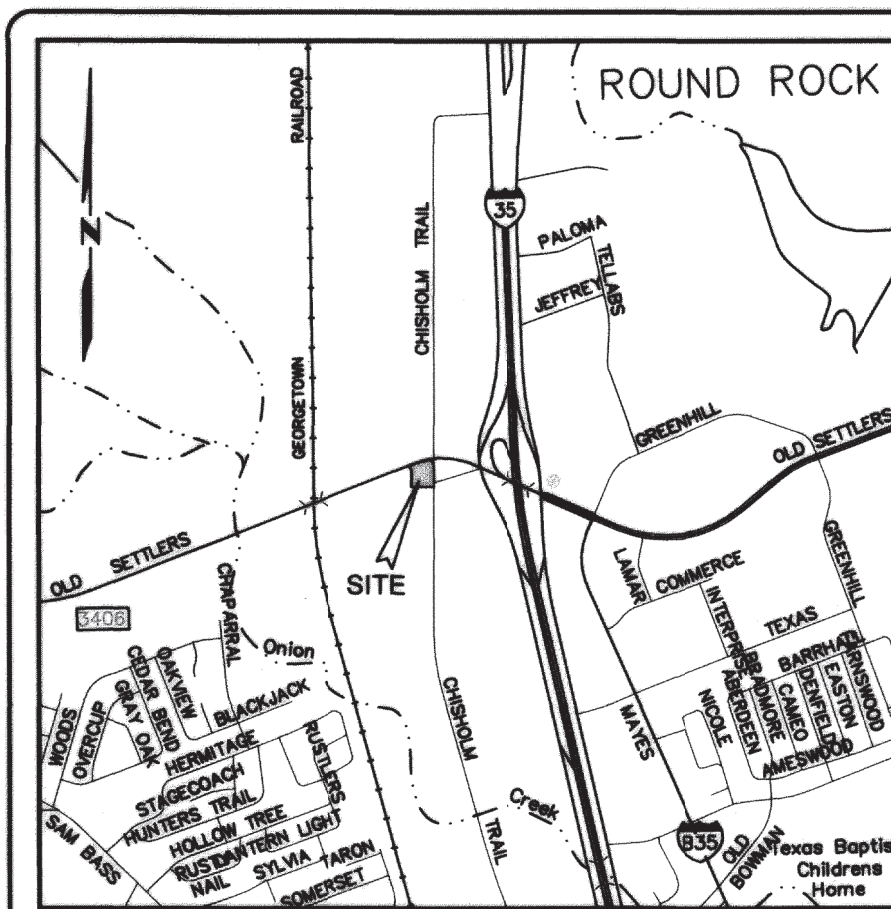
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WHOLE OR IN PART, IS STRICTLY FORBIDDEN.
PROTOTYPE: P-108 (11/01/21)
DIVISION:
VERSION: 001
DESIGNED BY:
DRAWN BY:
REVIEWED BY:

REV	DATE	DESCRIPTION	ORIGINAL	ISSUE DATE:

SHEET TITLE:
SETTLERS GROVE
PLAT 5 OF 5

SHEET NUMBER:
C008

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



OWNER: CHISHOLM TRAIL DEVELOPERS VENTURE, LTD.
C/O HIGHLAND RESOURCES INC.
211 E. 7TH ST, STE 709
AUSTIN, TEXAS 78701

SURVEYOR: SHANE SHAFER, RPLS #5281
DIAMOND SURVEYING, INC.
116 SKYLINE ROAD
GEORGETOWN, TEXAS 78628
T.B.P.L.S. FIRM NO. 10006900

ENGINEER: ANTONIO A. PRETE, P.E.
WAELTZ & PRETE, INC.
211 N. A.W. GRIMES BLVD
ROUND ROCK, TEXAS 78665

SUBMITTAL DATE: MARCH 17, 2020

DATE OF PLANNING AND ZONING COMMISSION REVIEW: APRIL 15, 2020

PATENT SURVEY: DAVID CURRY SURVEY, ABSTRACT 130

BENCHMARK DESCRIPTION: PK NAIL SET IN CONCRETE CURB LOCATED ON THE WEST SIDE OF CHISHOLM TRAIL, +/- 210 FEET SOUTH OF THE SOUTH R.O.W. LINE OF FM 3406 (W. OLD SETTLER'S BLVD.). ELEVATION: 787.98
VERTICAL DATUM: NAVD 88 (GEOID 2012A)
GRID COORDINATES:
N=10168252.00
E=3127042.51

ACREAGE: 1.56

NUMBER OF BLOCKS: 1

LINEAR FEET OF NEW STREETS: NONE

ACREAGE BY LOT TYPE: DEVELOPMENT 1.56 ACRES

NUMBER OF LOTS BY TYPE: 1 DEVELOPMENT

LEGEND

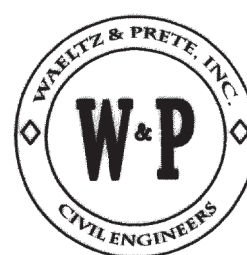
- IRON ROD FOUND
 - ⊕ TXDOT TYPE II CONCRETE MONUMENT FOUND
 - ⊗ "X" SCRIBE FOUND
 - ⊙ IRON ROD SET WITH CAP MARKED "DIAMOND SURVEYING"
 - ▽ CALCULATED POINT
 - BENCHMARK
- ADJOINING BOUNDARY LINES
- - - EASEMENT LINE
- O.P.R.W.C.T. OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
- O.R.W.C.T. OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS
- P.R.W.C.T. PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS
- D.R.W.C.T. DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
- P.O.B. POINT OF BEGINNING
PUE PUBLIC UTILITY EASEMENT

DEED INFORMATION FOR THE CITY OF ROUND ROCK, TEXAS RIGHT-OF-WAY TRACTS

(D1)
CITY OF ROUND ROCK CALLED 83.167 AC. DOC. NO. 2001073578 O.P.R.W.C.T.

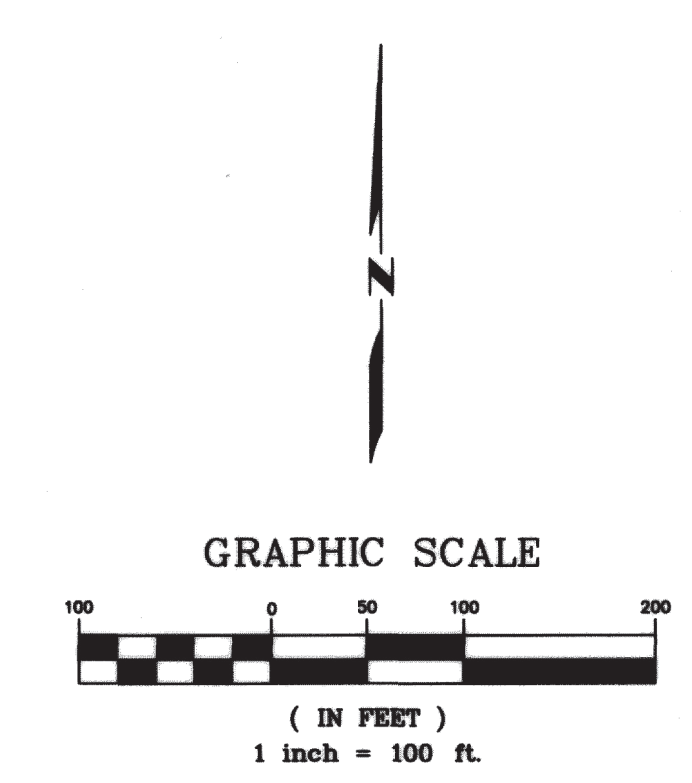
LINE	BEARING	DISTANCE	L13	N80°00'00"W	10.00'
L1	S50°35'19"E	61.14'	L14	N00°25'10"W	107.18'
L2	S00°30'22"E	151.85'	L15	N00°30'22"W	147.17'
L3	S00°25'10"E	107.26'	L16	N50°35'19"W	19.06'
L4	N21°16'12"W	66.16'	L17	S88°43'25"W	5.31'
L5	N68°43'25"E	5.32'	L18	S21°16'12"E	31.16'
L6	N89°32'49"E	89.78'	L19	N21°16'12"W	10.00'
L7	N00°27'11"W	31.35'	L20	N68°43'25"E	5.32'
L8	S89°30'29"E	91.90'	L21	N21°16'12"W	15.00'
L9	N00°29'51"E	58.62'	L22	S50°35'19"E	13.15'
L10	S00°29'31"W	118.10'	L23	N50°35'19"W	19.58'
L11	S50°35'19"E	32.83'	L24	S88°43'25"W	5.32'
L12	S50°35'19"E	28.31'	L25	N21°16'12"W	10.00'

CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	1213.24'	223.31'	10°32'48"	N74°02'27"E	223.00'
C2	1333.24'	202.43'	8°41'58"	N73°05'05"E	202.24'
C3	1178.24'	233.18'	11°20'22"	S74°26'17"W	232.80'
C4	1188.24'	226.59'	10°55'34"	N74°13'55"E	226.25'
C5	1188.24'	13.17'	0°38'06"	N80°00'43"E	13.17'
C6	1203.24'	216.80'	10°19'25"	S73°55'47"W	216.51'



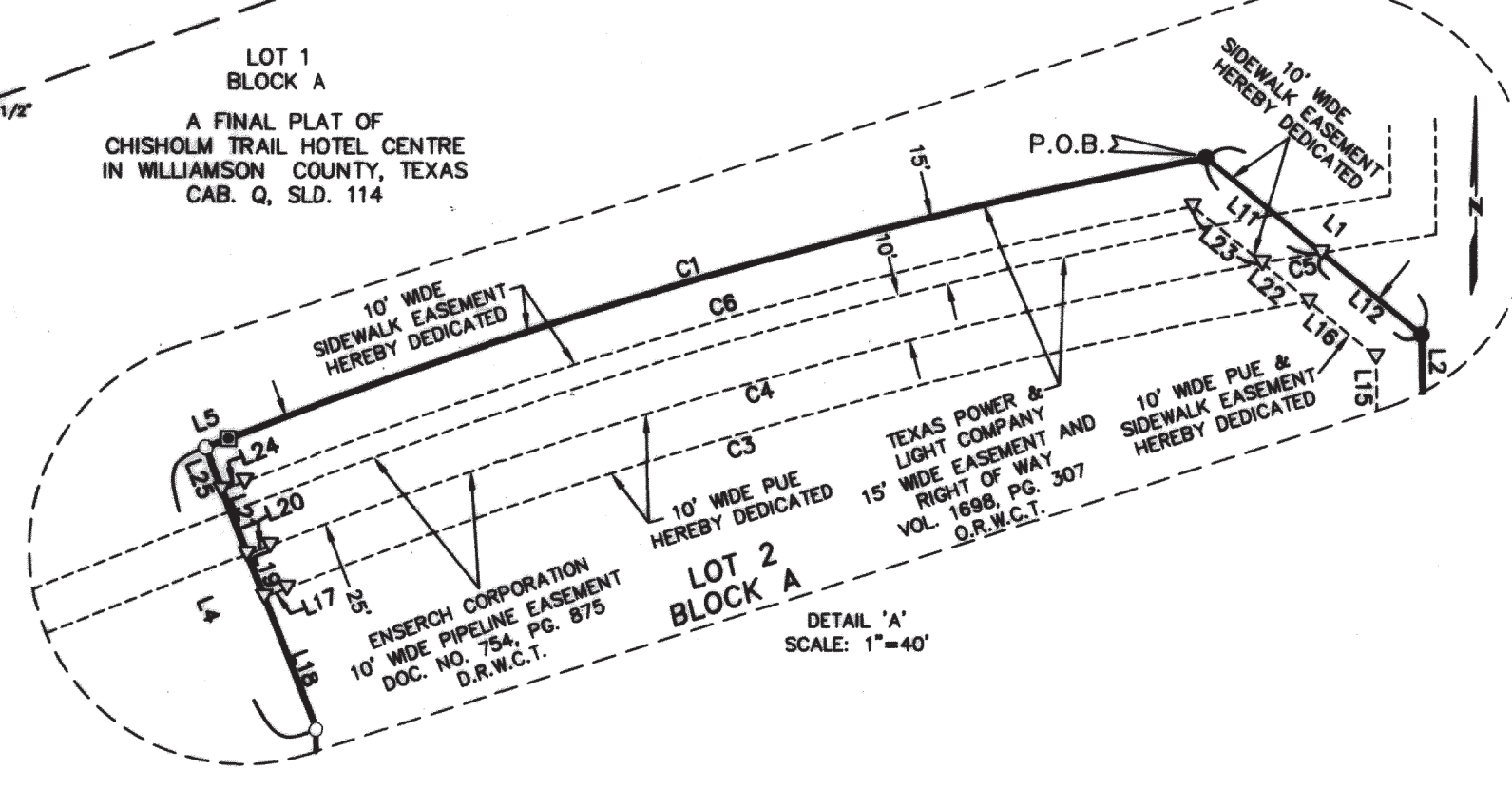
WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DIAMOND SURVEYING, INC.
116 SKYLINE ROAD, GEORGETOWN, TX 78628
(512) 931-3100
T.B.P.L.S. FIRM NO. 10006900



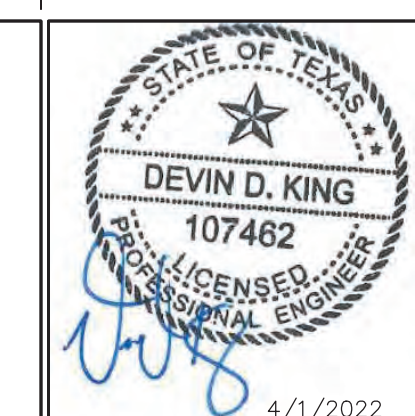
PLAT NOTES:

- 1) NO PORTION OF THIS TRACT IS ENCRoACHED BY THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN.
- 2) NO PORTION OF THIS TRACT IS ENCRoACHED BY ANY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOODPLAIN AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBER 48491C0487F, EFFECTIVE DATE DECEMBER 20, 2019, FOR WILLIAMSON COUNTY, TEXAS.
- 3) BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH PART III, ZONING AND DEVELOPMENT CODE, CHAPTER 2, ZONING DISTRICTS AND USE REGULATIONS, CITY OF ROUND ROCK, TEXAS, 2018, AS AMENDED.
- 4) SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PART III, ZONING AND DEVELOPMENT CODE, SECTION 6-26, CITY OF ROUND ROCK, TEXAS, 2018, AS AMENDED.
- 5) A TEN FOOT (10') PUE AS DEPICTED ALONG W. OLD SETTLERS BLVD IS HEREBY CONVEYED FOR ALL STREET SIDE PROPERTY LOTS SHOWN HEREON.
- 6) A TEN FOOT (10') SIDEWALK EASEMENT ABUTTING AND ALONG W. OLD SETTLERS BLVD. AND CHISHOLM TRAIL ROAD IS HEREBY CONVEYED FOR ALL STREET SIDE PROPERTY LOTS SHOWN HEREON.
- 7) A TEN FOOT (10') PUE AND SIDEWALK EASEMENT ABUTTING AND ALONG CHISHOLM TRAIL ROAD IS HEREBY CONVEYED FOR ALL STREET SIDE PROPERTY LOTS SHOWN HEREON.
- 8) THIS PLAT CONFORMS TO THE PRELIMINARY PLAT PP1710-001 APPROVED BY THE PLANNING AND ZONING COMMISSION ON DECEMBER 6, 2017.
- 9) THIS PLAT IS SUBJECT TO THE TERMS, CONDITIONS AND STIPULATIONS OF CERTAIN AGREEMENT REGARDING STORMWATER SYSTEM AND DEDICATION OF RIGHT-OF-WAY FOR PUBLIC IMPROVEMENTS DATED JUNE 28, 2003, RECORDED UNDER DOCUMENT NO. 2003093097 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.



FINAL PLAT OF:
CHISHOLM TRAIL TECH CENTER
SECTION 1, LOT 2
FP2003-008

SHEET 1 OF 2



PROJECT NO.: 069304931
Kimley»Horn
3000 W. WINDYBUSH, SUITE 300, AUSTIN, TX 78746
PHONE: (512) 424-1000 FAX: (512) 424-1001
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED PROFESSIONAL ENGINEER

QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664



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PROTOTYPE: P-108 (11/01/21)
DIVISION:
VERSION: 001
DESIGNED BY:
DRAWN BY:
REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
CHISHOLM TRAIL TECH CENTER PLAT 1 OF 2

SHEET NUMBER:
C009

FILE: LOCATION\K\SAU_Civil\069304931 - QT 4166 Chisholm Trail\Civil\Construction Plans\02-4166 Civil.dwg TAB: NAME\Fab Chisholm Trail 1 OF 2 USER:MoralesLopez SAVE:05/13/2022 7:54 AM PLOTTED:05/13/2022 8:01 AM

METES AND BOUNDS DESCRIPTION

FOR A 1.56 ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, WILLIAMSON COUNTY, TEXAS AND BEING OUT OF THE CALLED 6.75 ACRE TRACT OF LAND CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114922 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS AND BEING OUT OF THE REMNANT PORTION OF THE CALLED 83.167 ACRE TRACT OF LAND CONVEYED TO CHISHOLM TRAIL DEVELOPERS VENTURE, LTD., RECORDED IN DOCUMENT NO. 2003114923 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID 1.56 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING at an iron rod found with cap marked "BAKER-AICKLEN" monumenting the northeast corner of said 6.75 acre Chisholm Trail Developers Venture, Ltd. tract and the northeast corner of the called 0.108 acre tract of land conveyed to the City of Round Rock, recorded in Document No. 2001073578 of the Official Public Records of Williamson County, Texas, same being on the south boundary line of the called 1.9528 acre tract of land conveyed to the State of Texas, recorded in Volume 789, Page 148 of the Dead Records of Williamson County, Texas the south right-of-way line of W. Old Settlers Boulevard (F.M. 3406) and the west right-of-way line of Chisholm Trail Road (County Road 173) a variable width right-of-way, for the northeast corner and POINT OF BEGINNING hereof;

THENCE, with the east boundary line of said 6.75 acre Chisholm Trail Developers Venture, Ltd. tract, the west boundary line of said 0.108 acre City of Round Rock tract and said west right-of-way line of Chisholm Trail Road, the following two (2) courses and distances:

- 1. S 50°35'19"E for a distance of 61.14 feet to an iron rod found with cap marked "BAKER-AICKLEN" monumenting an angle point;
2. S 00°30'22"E for a distance of 151.85 feet to an iron rod found with cap marked "BAKER-AICKLEN" monumenting, the southwest corner of said 0.108 acre City of Round Rock tract and the northwest corner of the called 1.273 acre tract of land (Tract 3) conveyed to the City of Round Rock, recorded in Document No. 2003093096 of the Official Public Records of Williamson County, Texas, same being the southeast corner of said 6.75 acre Chisholm Trail Developers Venture, Ltd. tract and the northeast corner of said remnant portion of the 83.167 acre Chisholm Trail Developers Venture, Ltd. tract;

THENCE, S 00°25'10"E with the east boundary line of said remnant portion of the 83.167 acre Chisholm Trail Developers Venture, Ltd. tract, the west boundary line of said 1.273 acre City of Round Rock tract and said west right-of-way line of Chisholm Trail Road for a distance of 107.26 feet to a 1/2" iron rod set with cap marked "Diamond Surveying" for the southeast corner hereof, from which an iron rod found with cap marked "BAKER-AICKLEN" monumenting an angle point on the west boundary line of said 1.273 acre City of Round Rock tract, same being on said east boundary line of the remnant portion of the 83.167 acre Chisholm Trail Developers, Ltd. tract and said west right-of-way line of Chisholm Trail Road, bears S 00°25'10"E for a distance of 783.42 feet;

THENCE, N 90°00'00"W through the interior of said 83.167 acre Chisholm Trail Developers Venture, Ltd. tract for a distance of 245.27 feet to a 1/2" iron rod set with cap marked "Diamond Surveying" for the southwest corner hereof;

THENCE, through the interior of said 83.167 acre Chisholm Trail Developers Venture, Ltd. tract and said 6.75 acre Chisholm Trail Developers Venture, Ltd. tract, the following two (2) courses and distances:

- 1. N 00°10'44"E for a distance of 173.02 feet to a 1/2" iron rod set with cap marked "Diamond Surveying" for an angle point;
2. N 21°18'12"W for a distance of 66.16 feet to a 1/2" iron rod set with cap marked "Diamond Surveying" on the north boundary line of said 6.75 acre Chisholm Trail Developers Venture, Ltd. tract and said south boundary line of the 1.9528 acre State of Texas tract and said south right-of-way line of W. Old Settlers Boulevard for the northwest corner hereof, from which a TxDOT Type II monument found monumenting an angle point on said north boundary line of the 6.75 acre Chisholm Trail Developers Venture, Ltd. tract and said south right-of-way line of Old Settlers Boulevard, bears S 68°43'25"W for a distance of 621.29 feet;

THENCE, with said north boundary line of the 6.75 acre Chisholm Trail Developers Venture, Ltd. tract, said south boundary line of the 1.9528 acre State of Texas tract and said south right-of-way line of W. Old Settlers Boulevard, the following two (2) courses and distances:

- 1. N 68°43'25"E for a distance of 5.32 feet to a TxDOT Type II monument found monumenting the beginning of a curve to the right;
2. With said curve to the right on arc length of 223.31 feet, said curve having a radius of 1213.24 feet, a delta angle of 10°32'46" and a chord which bears N 74°02'27"E for a distance of 223.00 feet to the POINT OF BEGINNING hereof and containing 1.56 acres of land more or less.

BEARING BASIS: NAD-83, TEXAS CENTRAL (4203), STATE PLANE SYSTEM, DISTANCES SHOWN HEREON ARE SURFACE DISTANCES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012.

Logos for WAELTZ & PRETE, INC. CIVIL ENGINEERS and DIAMOND SURVEYING, INC. with address: 116 SKYLINE ROAD, GEORGETOWN, TX 78628

STATE OF TEXAS COUNTY OF WILLIAMSON

That Chisholm Trail Developers Venture, Ltd., a Texas limited partnership, as the owner of that certain 6.75 acre tract of land recorded in Document Number 2003114922, Official Public Records of Williamson County, Texas, and the remnant portion of the called 83.167 acre tract of land recorded in Document Number 2003114923 of the Official Public Records of Williamson County, Texas, do hereby certify that there are no lien holders and dedicated to the public forever use of the streets, alleys, easements and all other lands intended for public dedication as shown hereon to be known as Chisholm Trail Tech Center Section 1, Lot 2 subdivision.

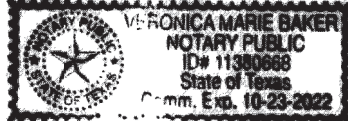
Chisholm Trail Developers Venture, Ltd. By: H.Holly, Inc., its General Partner David Bodenman, President 21 E. Seventh Street, Suite 709 Austin, Texas 78701-3218

STATE OF TEXAS COUNTY OF WILLIAMSON

This instrument was acknowledged before me on the 2nd day of April, 2020, by David Bodenman, as President of Chisholm Trail Development Venture, Ltd., a Texas limited partnership, on behalf of said Holly, Inc., its General Partner.

Notary Public, State of Texas

Printed Name: Veronica Baker My Commission Expires: 10/20/21



EASEMENT NOTE:

The perpetual easement, right-of-way, rights, and privileges herein granted shall be used for the purposes of location, placement, relocation, construction, operation, enlargement, maintenance, alteration, repair, rebuilding, removal, and patrol of utilities and associated facilities including but not limited to: pipes, valves, vaults, manholes, channels, inlets, structures, access facilities, conduits, appurtenances, and any necessary accessories thereto (collectively the "Facilities").

This conveyance is made and accepted subject to any and all conditions and restrictions, if any, relating to the herein above described property to the extent, and only to the extent, that the same may still be in force and effect and shown of record in the office of the County Clerk of Williamson County, Texas or Travis County, Texas.

Except as otherwise noted, the easement, rights, and privileges herein granted shall be perpetual, provided however that said easement, rights, and privileges shall cease and revert to Grantors in the event the utilities are abandoned or shall cease to be in operation, for a period of five (5) consecutive years.

The perpetual easement, right-of-way, rights, and privileges granted herein are exclusive, and Grantor covenants not to convey any other easement or conflicting rights within the premises covered by this grant, without the express written consent of Grantee, which consent shall not be unreasonably withheld. Grantee shall have the right to review any proposed easement or conflicting use to determine the effect, if any, on the Facilities contemplated herein. Prior to granting its consent for other easements, Grantee may require reasonable safeguards to protect the integrity of the Facilities thereon.

Grantor further grants to Grantee:

- (a) the right to install additional Facilities on the Easement Tract;
(b) the right to grade the easement for the full width thereof and to extend the cuts and fills for such grading into and onto the land along and outside the easement to such extent as Grantee may find reasonably necessary;
(c) the right of ingress to and egress from the easement over and across Grantor's property by means of roads and lanes thereon, if such roads, lanes or routes as shall occasion the least practicable damage and inconvenience to Grantor; provided that such right of ingress and egress shall not extend to any portion of Grantor's property which is isolated from the easement by any public highway or road now crossing or hereafter crossing the property; the foregoing right of ingress and egress includes the right of the Grantee and assigned employees of Grantee to disassemble, remove, take down, and clear away any fence, barricade, or other structure which obstructs, prevents, or hinders Grantee's ingress to and egress from the Grantor's property, and should Grantee deem it necessary to so disassemble, remove, take down, or clear away any such fence, barricade, or other structure, Grantee shall, as soon as is reasonably feasible, replace or restore Grantor's property to as similar a condition as reasonably practicable as existed immediately prior to Grantee's actions pursuant to this provision, unless said fence, barricade, or other structure is inconsistent with the rights conveyed to Grantee herein;
(d) the right of grading for, construction, maintaining and using such roads on and across the property as Grantee may deem necessary in the exercise of the right of ingress and egress or to provide access to property adjacent to the easement;
(e) the right from time to time to trim and to cut down and clear away any and all trees and brush now or hereafter on the easement and to trim and to cut down and clear away any trees on either side of the easement which now or hereafter in the opinion of Grantee may be a hazard to any pipeline, valves, appliances, fittings, or other improvements by reason of falling thereon or root infiltration thereon, or which may otherwise interfere with the exercise of Grantee's rights hereunder; provided however, that all trees which Grantee is hereby authorized to cut and remove, if valuable for timber or firewood, shall continue to be the property of Grantor, but all tops, logs, brush and refuse wood shall be burned or removed by Grantee;
(f) the right to mark the location of the easement by suitable markers set in the ground; provided that such markers shall be placed in fences or other locations which will not interfere with any reasonable use Grantor shall make of the easement;

Grantee hereby covenants and agrees:

- (a) Grantee shall not fence the easement;
(b) Grantee shall promptly backfill any trench made by it on the easement and repair any damage it shall do to Grantor's private roads or lanes on the lands;
(c) To the extent allowed by law, Grantee shall indemnify Grantor against any loss and damage which shall be caused by the exercise of the rights of ingress and egress or by any wrongful or negligent act or omission of Grantee's agents or employees in the course of their employment.

It is understood and agreed that any and all equipment placed upon said property shall remain the property of Grantee.

Grantor hereby dedicates the easement for the purposes stated herein.

TO HAVE AND TO HOLD the rights and interests described unto Grantee and its successors and assigns, forever, together with all and singular oil usual and customary rights thereto in anywise belonging, and together with the right and privilege of any and all times to enter said premises, or any part thereof, for the purpose of constructing or maintaining said utilities and for making connections therewith, and Grantor does hereby bind itself, its successors and assigns and legal representatives, to WARRANT AND FOREVER DEFEND, all and singular, the said easement and rights and interests unto the City of Round Rock, Texas, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

STATE OF TEXAS COUNTY OF WILLIAMSON

THAT I, SHANE SHAFER, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON-THE-GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER BY PERSONAL SUPERVISION, IN ACCORDANCE WITH CHAPTER 4 - SUBDIVISION DESIGN AND CONSTRUCTION, PART II - ZONING AND DEVELOPMENT CODE, CODE OF ORDINANCES, CITY OF ROUND ROCK, 2018 EDITION AS AMENDED.

Shane Shafer, RPLS Registration No. 5281 Diamond Surveying, Inc. 116 Skyline Road Georgetown, TX 78628

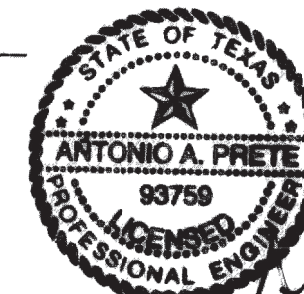
APR 14 2020 DATE



STATE OF TEXAS COUNTY OF WILLIAMSON

THAT I, ANTONIO A. PRETE, P.E., DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS PLAT COMPLIES WITH CHAPTER 4 - SUBDIVISION DESIGN AND CONSTRUCTION, PART II - ZONING AND DEVELOPMENT CODE, CODE OF ORDINANCES, CITY OF ROUND ROCK, 2018 EDITION AS AMENDED, AND THE DESIGN AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

Antonio A. Prete, P.E. License No. 93756 Waeltz & Prete, Inc. 211 A.W. Grimes Blvd. Round Rock, TX 78665



31 MAR 20 DATE

APPROVED THIS 15th DAY OF April, 2020, BY THE CITY PLANNING AND ZONING COMMISSION OF THE CITY OF ROUND ROCK, TEXAS, AND AUTHORIZED TO BE FILED FOR RECORD BY THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS.

THE PROPERTY COVERED BY THIS PLAT IS WITHIN THE CITY LIMITS OF THE CITY OF ROUND ROCK.

Ernie Pavluska, Chairman City of Round Rock Planning & Zoning Commission

STATE OF TEXAS COUNTY OF WILLIAMSON

THAT I, NANCY RISTER, CLERK OF THE COUNTY COURT OF SAID COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATION OF AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON THE 15th DAY OF April, A.D., 2020 AT 2:05 O'CLOCK P.M. IN THE PLAT RECORDS OF SAID COUNTY, IN DOCUMENT NO. 2020064560

WITNESS MY HAND AND SEAL OF THE COUNTY COURT OF SAID COUNTY, AT OFFICE IN GEORGETOWN, TEXAS, THE DATE LAST ABOVE WRITTEN.

Nancy Rister, Clerk, County Court Williamson County, Texas

Brandi Kenzie, Deputy



SHEET 2 OF 2

FINAL PLAT OF: CHISHOLM TRAIL TECH CENTER SECTION 1, LOT 2 FP2003-008



PROJECT NO.: 069304931

Kimley-Horn

QuikTrip No. 4166 701 W. SETTLERS BLVD. ROUND ROCK, TEXAS 78664



PROTOTYPE: P-108 (11/01/21) DIVISION: VERSION: 001 DESIGNED BY: DRAWN BY: REVIEWED BY:

Table with columns: REV, DATE, DESCRIPTION, ORIGINAL ISSUE DATE.

SHEET TITLE: CHISHOLM TRAIL TECH CENTER PLAT 2 OF 2

SHEET NUMBER: C010

TCEQ TSS SPREADSHEET – TAKEN FROM SETTLER’S GROVE INDUSTRIAL SDP2109–0005

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **Settler's Grove Industrial**
Date Prepared: **11/16/2021**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_{IN} \times P)$

where: L_M TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_{IN} = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project
 County = **Williamson**
 Total project area included in plan = **74.39** acres
 Predevelopment impervious area within the limits of the plan = **0.00** acres
 Total post-development impervious area within the limits of the plan = **34.33** acres
 Total post-development impervious cover fraction = **0.46**
 P = **32** inches

L_M TOTAL PROJECT = **29881** lbs.
 * The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = **1**

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = **1**

Total drainage basin/outfall area = **47.07** acres
 Predevelopment impervious area within drainage basin/outfall area = **0.00** acres
 Post-development impervious area within drainage basin/outfall area = **34.33** acres
 Post-development impervious fraction within drainage basin/outfall area = **0.73**
 L_M THIS BASIN = **29881** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Batch Detention**
 Removal efficiency = **91** percent

Aquaglogic Cartridge Filter
 Bioretention
 Contech StormFilter
 Constructed Wetland
 Extended Detention
 Grassy Swale
 Retention / Irrigation
 Sand Filter
 Stormceptor
 Vegetated Filter Strips
 Vortechs
 Wet Basin
 Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (BMP \text{ efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = **47.07** acres
 A_i = **34.33** acres
 A_p = **12.74** acres
 L_R = **34790** lbs.

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L_M THIS BASIN = **27635** lbs.
 F = **0.79**

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth = **1.04** inches
 Post Development Runoff Coefficient = **0.54**
 On-site Water Quality Volume = **95330** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = **0.00** acres
 Off-site impervious cover draining to BMP = **0.00** acres
 Impervious fraction of off-site area = **0**
 Off-site Runoff Coefficient = **0.00**
 Off-site Water Quality Volume = **0** cubic feet

Storage for Sediment = **19066**

Total Capture Volume (required water quality volume(s) x 1.20) = **114396** cubic feet 2.62616048

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
 The values for BMP Types not selected in cell C45 will show NA.

22. Batch Detention Basin System Designed as Required in RG-348 Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = **NA** cubic feet

SETTLER'S GROVE INDUSTRIAL SDP2109-0005 (LOT 1 BLOCK A) DESIGN ASSUMPTIONS: INLET PEAK FLOW CALCULATIONS

	HYDROLOGIC RUNOFF COEFFICIENTS (TABLE 2-1 DCM)				
	2 YR	10 YR	25 YR	50 YR	100 YR
IMPERVIOUS C (CONCRETE)	0.75	0.83	0.88	0.90	0.95
PERVIOUS C (UNDEVELOPED 2-7%)	0.33	0.42	0.46	0.49	0.53

	IDF COEFFICIENTS (TABLE 2-2B DCM)				
	2 YR	10 YR	25 YR	50 YR	100 YR
A	46.99	60.75	64.56	73.59	76.90
B	9.575	8.361	7.382	7.329	6.726
C	0.7517	0.7185	0.6814	0.6732	0.6554

IMPERVIOUS COVER 85%

NOTES:
 SEE SHEET 37 OF 80 IN THE SETTLER'S GROVE INDUSTRIAL PROJECT SDP2109-0005 PLANSET FOR THE FULL DRAINAGE CALCULATIONS. BELOW IS A SUMMARY OF THOSE CALCULATIONS.

Settler's Grove Industrial Drainage Calculations

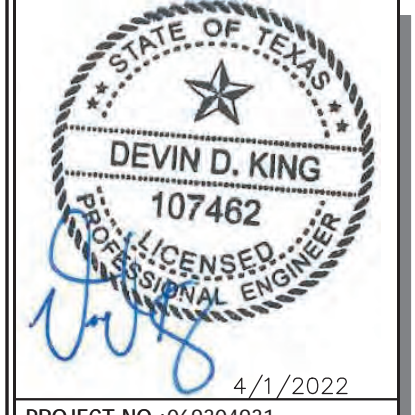
Existing Drainage Areas	Total Drainage Area (Acres)	Total Impervious Cover Area (acres)	Impervious Area (%)	Time of Concentration (min)	Storm Event	Existing Runoff (cfs)
EDA-1	72.01	0.00	0.00%	37.91	2	80.02
					10	134.88
					25	230.02
					50	271.44
100	314.92					
EDA-2	1.80	0.00	0.00%	5.00	2	4.37
					10	6.93
					25	10.99
					50	13.00
100	14.85					

Developed Drainage Areas	Total Drainage Area (Acres)	Total Impervious Cover Area (acres)	Impervious Area (%)	Time of Concentration (min)	Storm Event	Developed Runoff (cfs)	Developed Runoff after Detention (cfs)	POA Flow at Overall Peak Discharge ¹
DA-1	46.17	34.33	74.35%	22.11	2	139.29	35.01	35.01
					10	185.71	72.77	72.77
					25	262.29	139.51	139.51
					50	293.65	168.17	168.17
100	326.78	198.27	198.27					
OFF-1	27.38	0.00	0.00%	20.85	2	42.70		36.81
					10	70.10	X	38.35
					25	115.47		78.33
					50	136.76		95.89
100	157.83		115.49					

Point of Analysis

Point of Analysis	Storm Event	Existing Runoff (cfs)	Developed Runoff (cfs)	Runoff Difference at Point of Analysis (cfs)	Is Developed \leq Existing?
POA-1	2	80.02	51.82	28.20	YES
	10	134.88	111.12	23.76	YES
	25	230.02	217.84	12.18	YES
	50	271.44	264.06	7.38	YES
	100	314.92	313.76	1.16	YES

Note: All detention runoff calculations were analyzed using the Soil Conservation Services Method as documented in the Technical Release 55.



Kimley»Horn
 CONSULTING ENGINEERS
 2400 W. METRAN, SUITE 200, AUSTIN, TX 78758
 PHONE: (512) 426-7000
 WWW.KIMLEY-HORN.COM
 TEXAS REGISTRATION NUMBER: 0000000000

QuikTrip No. 4166
 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664



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REV	DATE	DESCRIPTION	ORIGINAL ISSUE DATE:

SHEET TITLE:
 TCEQ

SHEET NUMBER:
C011

PROJECT NO. 21-5039



QuikTrip No. 4166

SWC CHISOLM TRAIL RD & W OLD SETTLERS BLVD
ROUND ROCK, TEXAS



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VERSION: D01
DESIGNED BY:
DRAWN BY: NT
REVIEWED BY: KP

REV	DATE	DESCRIPTION

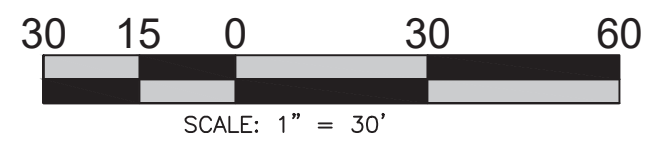
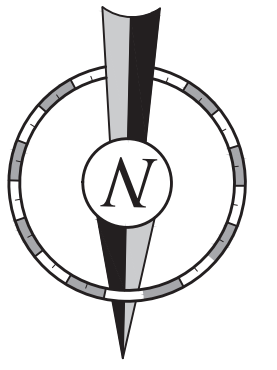
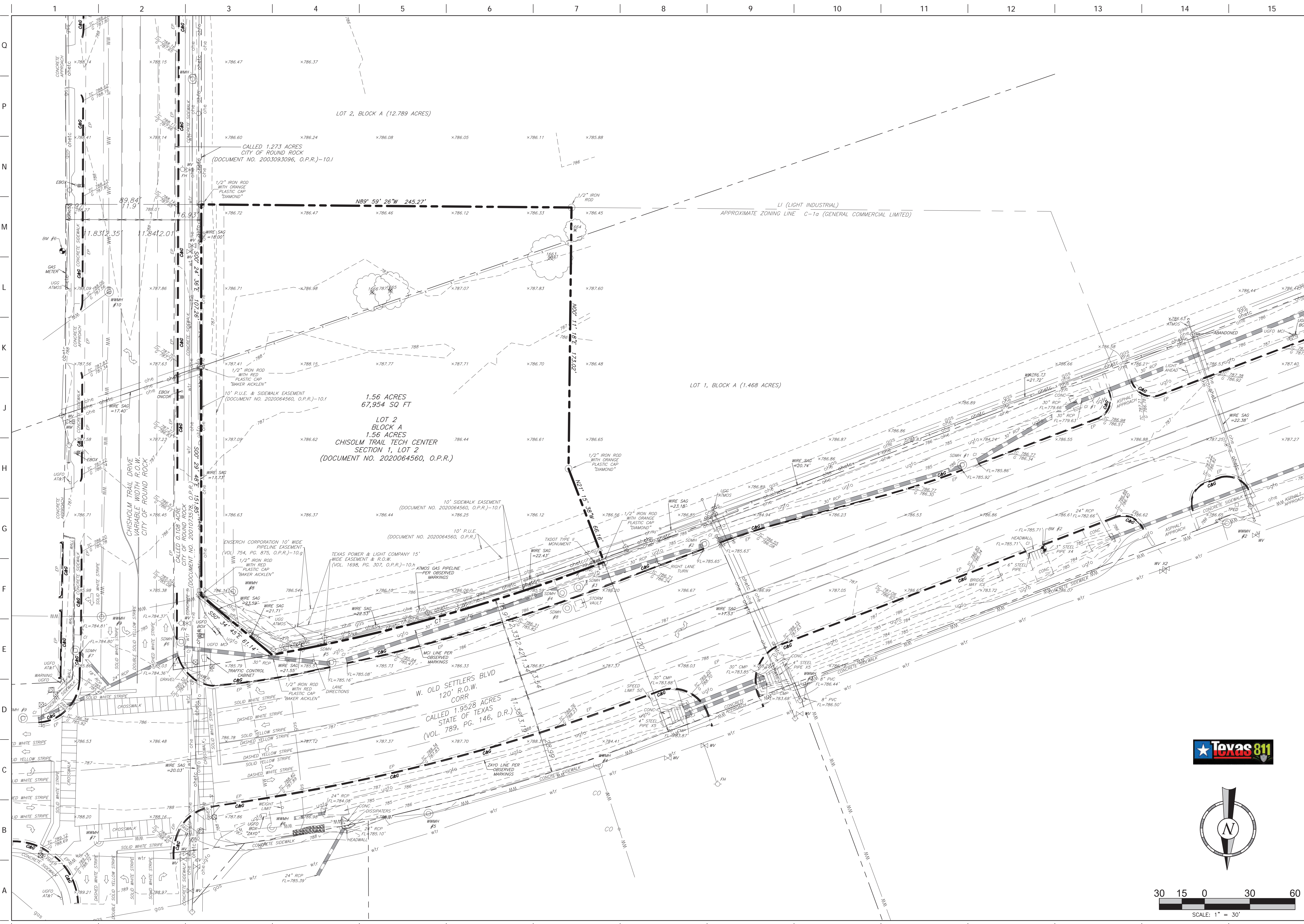
SHEET TITLE:
SURVEY PLAN

SHEET NUMBER:

C020

12 OF 59

SDP 2110-0006



NOTES
1. BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM ESTABLISHED FOR THE TEXAS CENTRAL ZONE 4203, NORTH AMERICAN DATUM (NAD) OF 1983. COMBINED SCALE FACTOR: 1.00011.
2. REFERENCED PROPERTY IS IN ZONE X (NO SCREEN), AREAS OF MINIMAL FLOOD HAZARD, AS SHOWN ON FEMA FLOOD PANEL 487 OF 750, MAP NO. 48491C0487, DATED DECEMBER 20, 2019.
3. THE TRACT SHOWN HEREON MAY BE SUBJECT TO ALL CITY OF ROUND ROCK & WILLIAMSON COUNTY ORDINANCES AND RESTRICTIONS.
4. METES AND BOUNDS WERE NOT PREPARED BY SEPARATE INSTRUMENT.
5. UTILITIES
- UNDERGROUND WATER LINE SHOWN HEREON IS PER FIELD OBSERVED EVIDENCE AND THE WATER UTILITY GIS MAP PER THE CITY OF ROUND ROCK. SAID MAP INDICATES A 12" LINE RUNNING NORTH TO SOUTH ALONG THE WEST R.O.W. LINE OF CHISOLM TRAIL ROAD.
- WASTEWATER LINES SHOWN HEREON ARE PER FIELD OBSERVED EVIDENCE AND THE WASTEWATER UTILITY GIS MAP PER THE CITY OF ROUND ROCK. SAID MAP INDICATES AN 8" LINE RUNNING WITHIN THE R.O.W. OF CHISOLM TRAIL ROAD TO THE NORTHEAST CORNER OF THE SUBJECT TRACT.
- STORM SEWER SHOWN HEREON IS PER FIELD OBSERVED EVIDENCE AND SUPPLEMENTED WITH TYPOT AS-BUILTS AS PROVIDED. AS-BUILTS TO BE PROVIDED SEPARATELY. OBSERVED EVIDENCE DID NOT MATCH TYPOT PLANS.
- GAS LINE SHOWN HEREON IS PER FIELD OBSERVED EVIDENCE.
- UNDERGROUND FIBER-OPTIC SHOWN HEREON IS PER FIELD OBSERVED EVIDENCE.
- "ONE-CALL" SERVICE WAS ORDERED ON 08/02/2021. A FIELD CREW PERFORMED A SITE VISIT ON 08-16-2021 THROUGH 08-20-2021 TO LOCATE ANY VISIBLE MARKINGS AS SHOWN HEREON. BELOW ARE THE RESPONSES FROM PROVIDERS THAT WERE NOTIFIED PER RESPONSE FROM "TEXAS11LOCATES.ORG" TO SAID "ONE-CALL REQUEST", TICKET NO. 2171410868 AND 2171410830.

Table with 3 columns: CODE, NAME, RESPONSE. Includes entries for ATOS, QUANTA, ONCOR, and AT&T.

6. VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY, CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING THE TRIMBLE VRS NETWORK.
7. THE PROPERTY IS CURRENTLY ZONED C-1a (GENERAL COMMERCIAL - LIMITED), ACCORDING TO: https://maps.roundrocktexas.gov/cityview/

SEC. 2-33-C-1a (GENERAL COMMERCIAL - LIMITED)
SEC. 2-36 LOT AND BUILDING DIMENSIONAL STANDARDS
MINIMUM SETBACK FROM STREET (ROW) - 15'
MINIMUM REAR SETBACK - 0-10'
MINIMUM SIDE SETBACK - 0-10'
MAXIMUM HEIGHT - 5 STOREYS
*NO ZONING REPORT PROVIDED.

8. SUBJECT TRACT IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF FM HIGHWAY 3406 (OLD SETTLERS BLVD) AND CHISOLM TRAIL ROAD.
9. THERE IS NO EVIDENCE OF WETLANDS ACCORDING TO: HTTP://WWW.FWS.GOV/ARLWETLANDS/DATA/MAPPER/HTML. ON THE SUBJECT TRACT, THERE WERE NO WETLAND AREAS DELINEATED OR FIELD MARKED BY THE APPROPRIATE AUTHORITIES AT THE TIME OF THIS SURVEY.
10. THE CLOSEST FIRE HYDRANT IS LOCATED ON THE WEST SIDE OF CHISOLM TRAIL DRIVE APPROXIMATELY 22.61' IN A NORTHEASTERLY DIRECTION FROM THE MOST EASTERN NORTH CORNER OF THE SUBJECT PROPERTY.

11. UTILITY CONTACT INFORMATION:
ELECTRIC SERVICES - ONCOR - PHONE: 888-313-6862
GAS SERVICES - ATOS ENERGY - PHONE: 800-460-3030
TELEPHONE & CABLE SERVICES
- ZAYO GROUP - 801-364-1063
- AT&T - 800-288-2020
- SOUTHWESTERN BELL - 800-288-2020
- MCI INC. - 888-624-5622
WATER & SEWER SERVICES
- CITY OF ROUND ROCK - 512-218-5460
STORM WATER
- T.A.D.O.T. - 512-930-5402

12. THE NEAREST ACCESS POINTS ARE AS FOLLOWS:
a. A DRIVEWAY INTERSECTS THE SOUTH RIGHT-OF-WAY LINE OF F.M. 3406 APPROXIMATELY 353' IN A SOUTHWESTERLY DIRECTION FROM THE NORTHWEST CORNER OF THE SUBJECT TRACT.
b. A DRIVEWAY INTERSECTS THE WEST RIGHT-OF-WAY LINE OF CHISOLM TRAIL ROAD APPROXIMATELY 677' IN A SOUTHERLY DIRECTION FROM THE NORTHWEST CORNER OF THE SUBJECT TRACT.

13. THERE WAS NO EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED ON THE SUBJECT TRACT IN THE PROCESS OF CONDUCTING THE FIELDWORK.
14. THERE WERE NO DESIGNATED PARKING SPACES LOCATED ON THE SUBJECT TRACT AT THE TIME OF THIS SURVEY.
15. THERE WERE NO BUILDINGS LOCATED ON THE SUBJECT TRACT AT THE TIME OF THIS SURVEY.

TITLE COMMITMENT:
TITLE COMMITMENT PROVIDED BY ALAMO TITLE INSURANCE, OF NO. AUT-34-124-AUT2104189, EFFECTIVE DATE: SEPTEMBER 9, 2021, ISSUED DATE: SEPTEMBER 21, 2021.
LEGAL DESCRIPTION OF LAND:
- BEING LOT 2, BLOCK 21, FINAL PLAT OF CHISOLM TRAIL TECH CENTER SECTION 1, A SUBDIVISION IN WILLIAMSON COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF, RECORDED IN DOCUMENT NO. 2020064560, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS.

SCHEDULE B:
1. RESTRICTIVE COVENANTS OF RECORD
- DOCUMENT NO. 2020064560 (PLAT)
- DOCUMENT NO. 2006070995, O.P.R.
10. DOCUMENT NO. 2020064560 (PLAT), O.P.R. - AFFECTS AS SHOWN
- 10' SIDEWALK EASEMENT ALONG NORTHERLY AND EASTERLY PROPERTY LINE

9. DOCUMENT NO. 2020064560 (PLAT), O.P.R. AND RECORDED IN VOLUME 754, PAGE 875, R.P.R. - AFFECTS AS SHOWN
- 10' PIPELINE EASEMENT ALONG NORTHERLY PROPERTY LINE
h. DOCUMENT NO. 2020064560 (PLAT), O.P.R. AND RECORDED IN VOLUME 1698, PAGE 307, R.P.R. - AFFECTS AS SHOWN
- 15' EASEMENT AND RIGHT-OF-WAY ALONG NORTHERLY PROPERTY LINE
l. DOCUMENT NO. 2020064560 (PLAT), O.P.R. - DOES NOT AFFECT. SURVEYOR UNABLE TO LOCATE 25' BUILDING SET-BACK LINE PER SAID PLAT, SURVEYOR FOUND 15' BUILDING SETBACK PER SECTION 2-36, COMMERCIAL LOT AND BUILDING DIMENSIONAL STANDARDS AS SHOWN HEREON
- 25' BUILDING SETBACK LINE

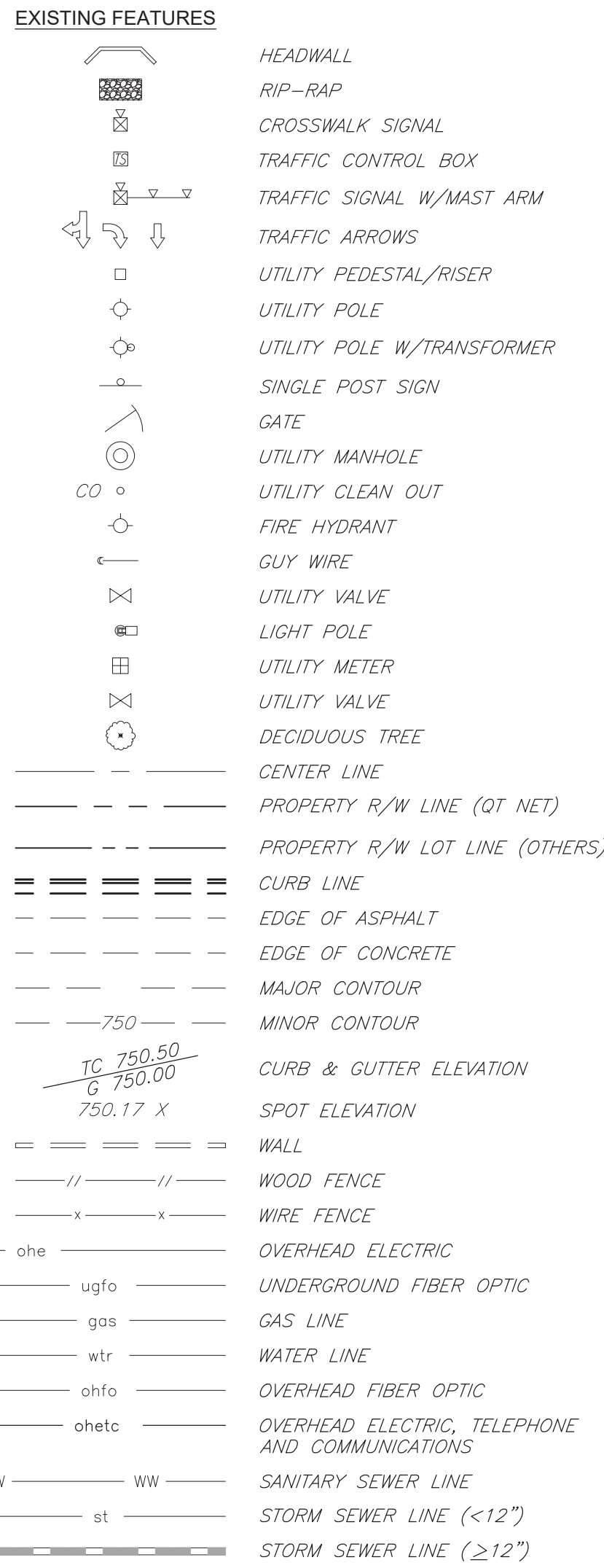
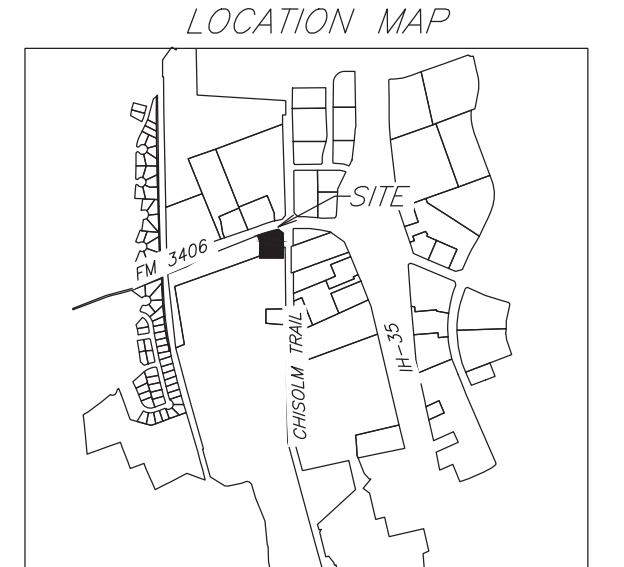
j. DOCUMENT NO. 2006070995, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- ACCESS AGREEMENT WITH COVENANTS AND RESTRICTIONS
k. DOCUMENT NO. 2003063568, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- TEXAS POWER & LIGHT COMPANY EASEMENT
l. DOCUMENT NO. 2003093096, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- CITY OF ROUND ROCK RIGHT-OF-WAY DEDICATION - SHOWN

m. DOCUMENT NO. 2003093097, O.P.R. - MAY APPLY. INSTRUMENT LACKS EXHIBITS TO ACCURATELY LOCATE AGREEMENT REGARDING STORMWATER SYSTEM AND DEDICATION OF RIGHT-OF-WAY FOR PUBLIC IMPROVEMENTS
n. DOCUMENT NO. 2006020050, O.P.R. - DOES NOT CROSS SUBJECT TRACT, NOT SHOWN
- OPEN CHANNEL SURFACE DRAINAGE EASEMENT
o. DOCUMENT NO. 2006020050, O.P.R. - DOES NOT CROSS SUBJECT TRACT, NOT SHOWN
- WATER AND WASTEWATER LINE EASEMENT

p. DOCUMENT NO. 2006070991, CORRECTION IN DOCUMENT NO. 2011042150, O.P.R. - DOES NOT CROSS SUBJECT TRACT, NOT SHOWN
- DECLARATION OF DRAINAGE EASEMENT
q. DOCUMENT NO. 2006070992, O.P.R. - DOES NOT CROSS SUBJECT TRACT, NOT SHOWN
- PUBLIC UTILITIES EASEMENT TO CITY OF ROUND ROCK
r. DOCUMENT NO. 2006070993, O.P.R. - DOES NOT CROSS SUBJECT TRACT, NOT SHOWN
- WATER LINE EASEMENT TO CITY OF ROUND ROCK

s. VOLUME 233, PAGE 446, D.R. AND AFFECTED BY DOCUMENT NO. 2009076303, O.P.R. - DOES NOT CROSS SUBJECT TRACT, NOT SHOWN
- TEXAS POWER & LIGHT COMPANY EASEMENT & ROW
t. DOCUMENT NO. 2010047530, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- POSSESSION AND USE AGREEMENT
u. DOCUMENT NO. 2010042021, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- INGRESS AND EGRESS EASEMENT TO CITY OF ROUND ROCK
v. DOCUMENT NO. 2010042022, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- PUBLIC UTILITY EASEMENT
w. DOCUMENT NO. 2010042023, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- SLOPE EASEMENT
x. DOCUMENT NO. 2010042024, O.P.R. - DOES NOT CROSS SUBJECT TRACT
- DRAINAGE EASEMENT
y. DOCUMENT NO. 2017020164 AND 2017024453, O.P.R. - AFFECTS
- WILLIAMSON COUNTY REGIONAL HABITAT CONSERVATION PLAN

ALTA/NSPS SURVEY OF
A 1.56 ACRES OF LAND, BEING ALL OF LOT A, BLOCK A OF THE CHISOLM TRAIL TECH CENTER, SECTION 1, LOT 2 SUBDIVISION OF RECORD IN DOCUMENT NO. 2020064560 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.



LINE TABLE
LINE BEARING DISTANCE
L1 N68° 43' 59" E 5.32'

CURVE TABLE
CURVE RADIUS LENGTH DELTA CHORD BEARING CHORD LENGTH
CT 1213.24' 223.32' 101.32° 46° 02' 01" 223.00'

SANITARY SEWER MANHOLE TABLE

Table listing manhole details: WH#1 (POINT #1604), WH#2 (POINT #1603), WH#3 (POINT #1605), WH#4 (POINT #1607), WH#5 (POINT #1609), WH#6 (POINT #1608), WH#7 (POINT #1611), WH#8 (POINT #1612), WH#9 (POINT #1613), WH#10 (POINT #1614), WH#11 (POINT #1615), WH#12 (POINT #1616). Includes elevations and pipe specifications.

TREE TABLE
POINT NUMBER SPECIES TRUNK DIM (IN) SPREAD (FT) MULTI-TRUNK DIM (IN)
1663 CEDAR ELM 1.3 30 N / A
1664 CEDAR ELM 8 15 N / A
1665 CEDAR ELM 10 25 N / A
1666 CEDAR ELM 10 25 N / A

BENCHMARK TABLE
BM #2 3" OUT ON TOP OF A CONCRETE HEADWALL, BEARS S 87° 48' 22" W, 291.30' FROM THE NORTHWEST CORNER OF SUBJECT TRACT ELEV: 786.68'
BM #6 3" OUT ON TOP OF A CURB, BEARS N 71° 01' 14" E, 92.08' FROM THE SOUTHEAST CORNER OF SUBJECT TRACT ELEV: 789.96'

CONTROL LEGEND
PROPERTY CORNER (FOUND)
BENCHMARK
R/W MONUMENT FOUND

PROJECT NO.: 21-5039
MATKINHOOVE ENGINEERING & SURVEYING

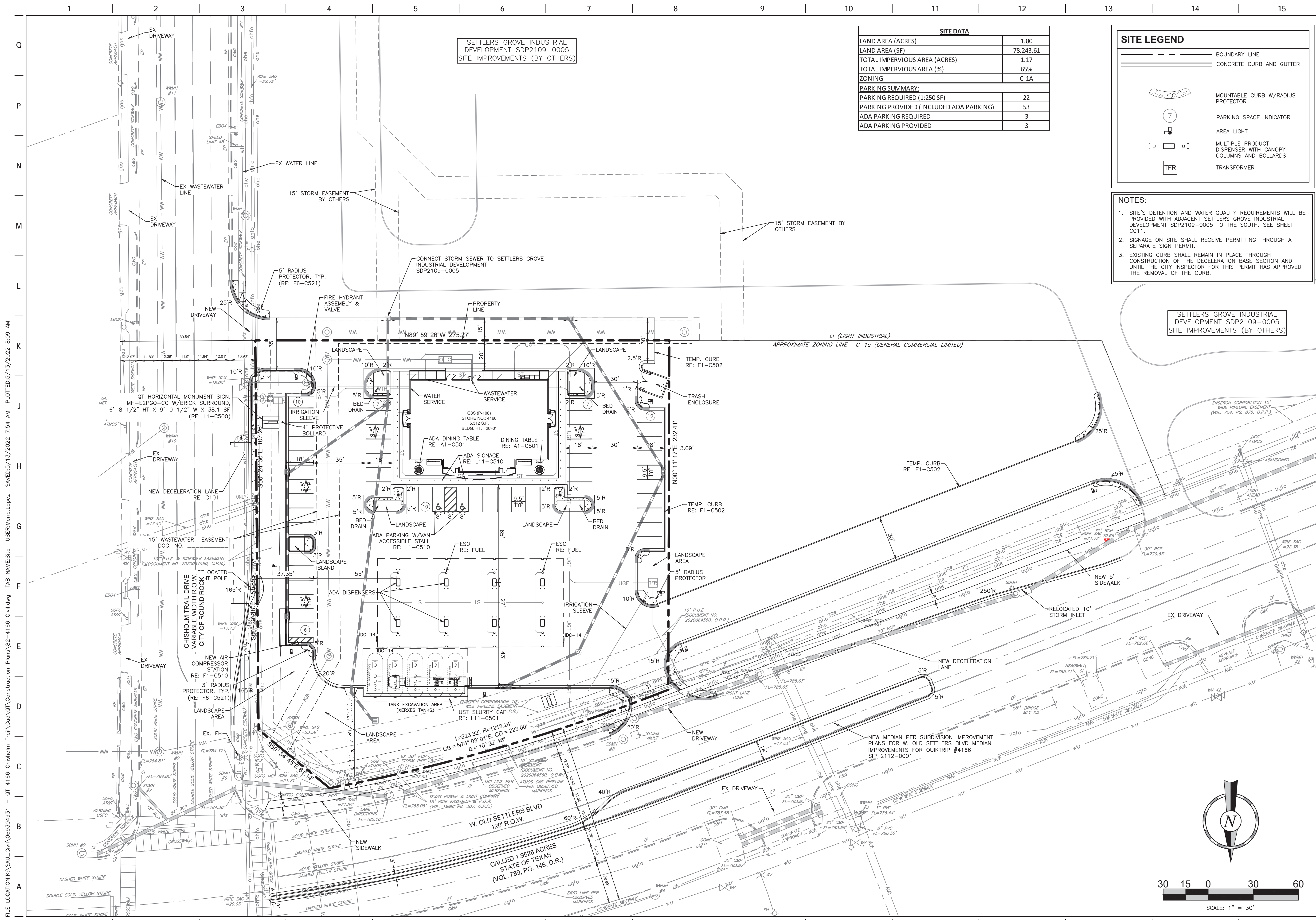
QuikTrip No. 4166
SWC CHISOLM TRAIL RD & W OLD SETTLERS BLVD
ROUND ROCK, TEXAS

QT
PROTOTYPE:
DIVISION: 82
VERSION: 001
DESIGNED BY:
DRAWN BY: NT
REVIEWED BY: KP

Table with columns: REV, DATE, DESCRIPTION. Original issue date: 08/20/2021

SHEET TITLE: SURVEY PLAN
SHEET NUMBER: C021

TO ALAMO TITLE INSURANCE, OF SOUTH, L.L.C., AND CHISOLM TRAIL DEVELOPERS VENTURE, INC., A TEXAS LIMITED PARTNERSHIP:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALIEN'S LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1.3.1-1.4.5, 6.01(a), 11.01-11.03, 14.1, 14.1.2, 18.19, 20.21, 22.23, 24.25, 26.27, AND 28 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON AUGUST 20, 2021.
KYLE L. PRESSLER DATE: SEPTEMBER 23, 2021
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 62628
KYLE.PRESSLER@MATKINHOOVE.COM
JOB NO. 21-5039 OF 4166
8 SPENCER ROAD, SUITE 300, BOERNE TEXAS, 78006



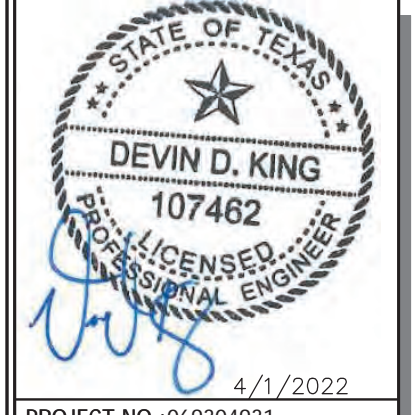
SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-0005 SITE IMPROVEMENTS (BY OTHERS)

SITE DATA	
LAND AREA (ACRES)	1.80
LAND AREA (SF)	78,243.61
TOTAL IMPERVIOUS AREA (ACRES)	1.17
TOTAL IMPERVIOUS AREA (%)	65%
ZONING	C-1A
PARKING SUMMARY:	
PARKING REQUIRED (1:250 SF)	22
PARKING PROVIDED (INCLUDED ADA PARKING)	53
ADA PARKING REQUIRED	3
ADA PARKING PROVIDED	3

SITE LEGEND	
	BOUNDARY LINE
	CONCRETE CURB AND GUTTER
	MOUNTABLE CURB W/RADIUS PROTECTOR
	PARKING SPACE INDICATOR
	AREA LIGHT
	MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
	TRANSFORMER

- NOTES:
- SITE'S DETENTION AND WATER QUALITY REQUIREMENTS WILL BE PROVIDED WITH ADJACENT SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-0005 TO THE SOUTH. SEE SHEET C011.
 - SIGNAGE ON SITE SHALL RECEIVE PERMITTING THROUGH A SEPARATE SIGN PERMIT.
 - EXISTING CURB SHALL REMAIN IN PLACE THROUGH CONSTRUCTION OF THE DECELERATION BASE SECTION AND UNTIL THE CITY INSPECTOR FOR THIS PERMIT HAS APPROVED THE REMOVAL OF THE CURB.

SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-0005 SITE IMPROVEMENTS (BY OTHERS)



Kimley-Horn
 CONSULTING ENGINEERS
 2400 W. WYTHAM BLVD., SUITE 200, AUSTIN, TX 78743
 PHONE: (512) 837-4400 FAX: (512) 837-4401
 WWW.KIMLEY-HORN.COM
 TEXAS REGISTERED PROFESSIONAL ENGINEER #17488

QuikTrip No. 4166
 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664



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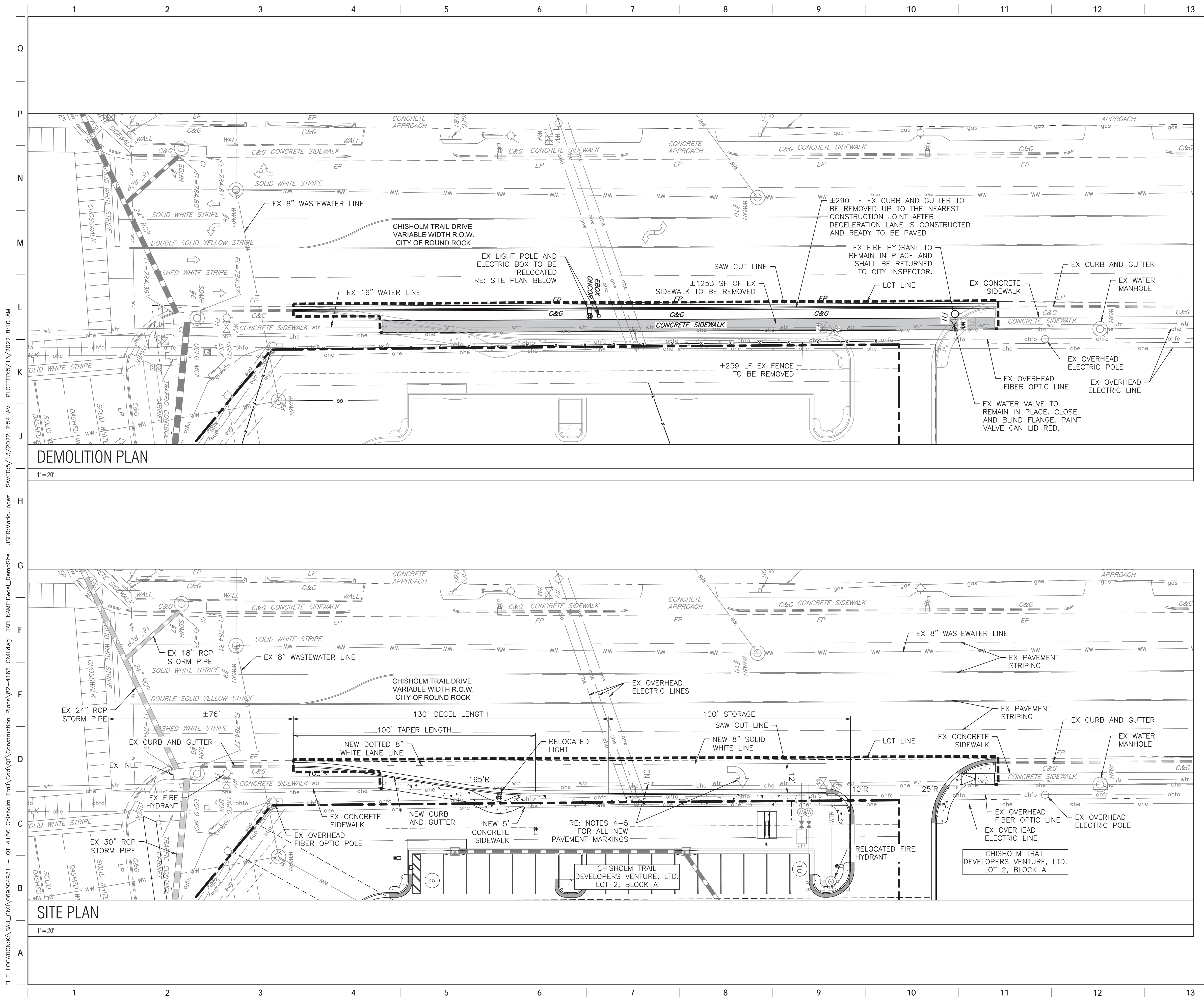
PROTOTYPE: P-108 (11/01/21)
 DIVISION: VISION: 001
 DESIGNED BY:
 DRAWN BY:
 REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
 SITE PLAN

SHEET NUMBER:
 C100

FILE LOCATION: \\S:\S\1\069304931 - QT 4166 Chisholm Trail\Con\Construction Plans\02-4166 Chisholm Trail\NAME SITE USER\Mario.Lopez SWED5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:09 AM



SITE LEGEND

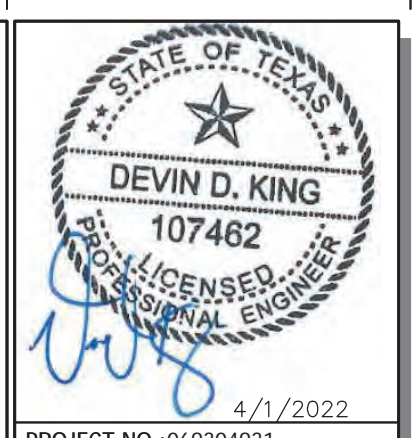
---	BOUNDARY LINE
---	CONCRETE CURB AND GUTTER
---	LIMITS OF DISTURBANCE
---	OVERHEAD ELECTRIC
---	UNDERGROUND FIBER OPTIC
---	GAS LINE
---	WATER LINE
---	CURB LINE
○	SINGLE POST SIGN
○	MULTI POST SIGN
○	FIRE HYDRANT
○	UTILITY MANHOLE
○	UTILITY VALVE
→	TRAFFIC ARROWS
□	TRAFFIC CONTROL BOX
○	MOUNTABLE CURB W/RADIUS PROTECTOR
○	PARKING SPACE INDICATOR
○	AREA LIGHT
○	MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
○	TRANSFORMER

MISCELLANEOUS DEMOLITION NOTES

- ALL ITEMS IN BOLD ARE TO BE DEMOLISHED.
- ALL TREES AND SHRUBS (EXCEPT THOSE SPECIFIED TO REMAIN) ON PROPERTY TO BE REMOVED.

NOTES:

- SITE'S DETENTION AND WATER QUALITY REQUIREMENTS WILL BE PROVIDED WITH ADJACENT SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-0005 TO THE SOUTH.
- SIGNAGE ON SITE SHALL RECEIVE PERMITTING THROUGH A SEPARATE SIGN PERMIT.
- EXISTING CURB SHALL REMAIN IN PLACE THROUGH CONSTRUCTION OF THE DECELERATION BASE SECTION AND UNTIL THE CITY INSPECTOR FOR THIS PERMIT HAS APPROVED THE REMOVAL OF THE CURB.
- ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC.
- REFER TO SHEET C577 FOR TEXAS DEPARTMENT OF TRANSPORTATION DETAIL PM-20 PAVEMENT MARKINGS.



Kimley-Horn
 CONSULTING ENGINEERS
 2400 W. WATKINS, SUITE 200, AUSTIN, TX 78758
 PHONE: 512.424.1100 FAX: 512.424.1101
 WWW.KIMLEY-HORN.COM
 TEXAS REGISTERED PROFESSIONAL ENGINEER #268

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 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664



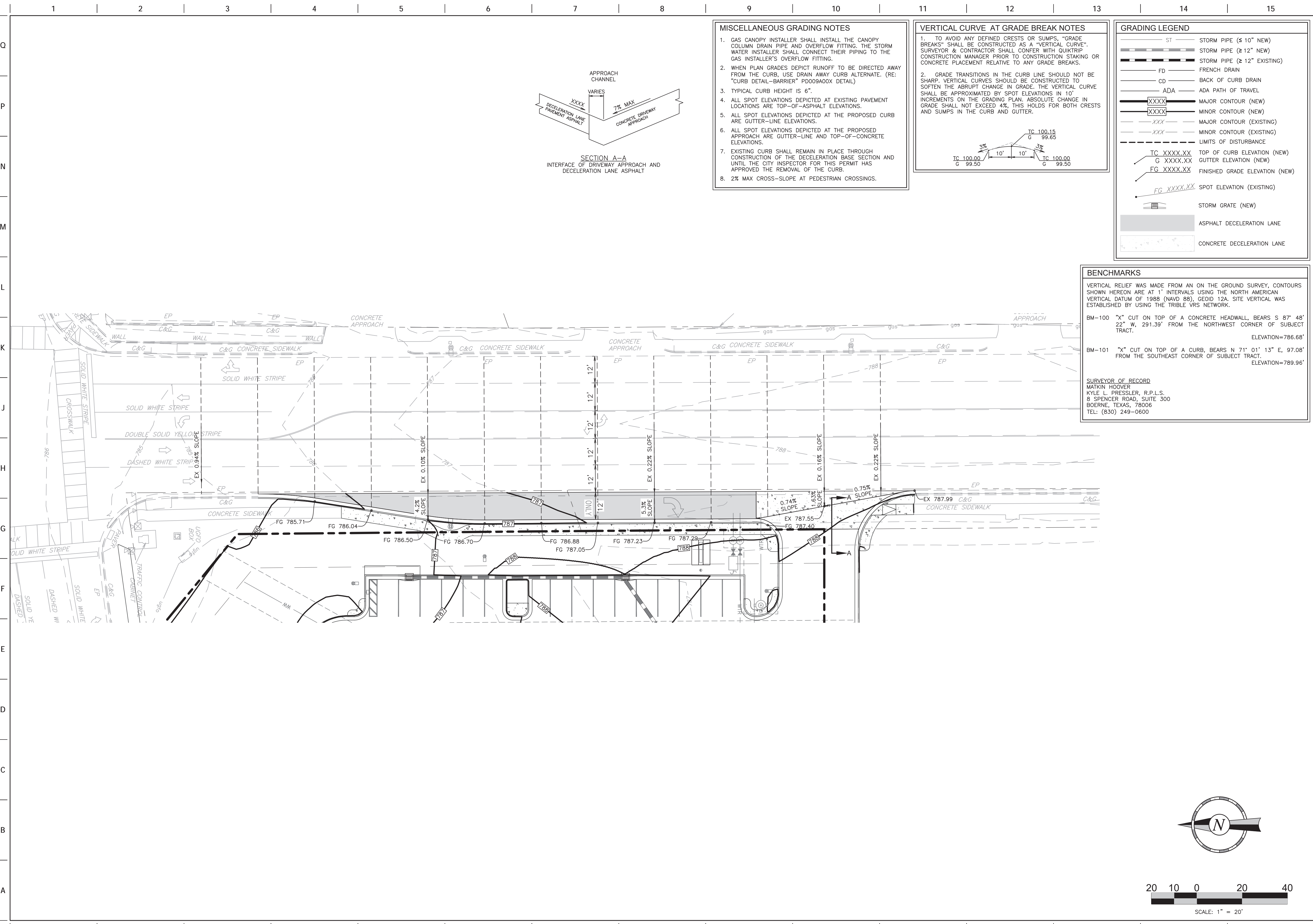
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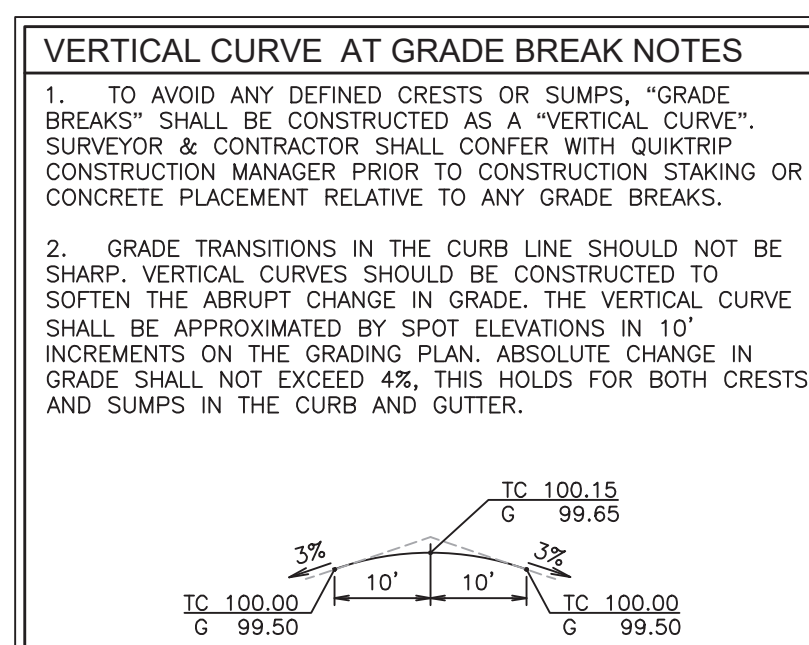
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 DECELERATION LANE
 DEMOLITION & SITE PLAN

SHEET NUMBER:
C101

FILE LOCATION: \\SML_Civil\069304931 - QT 4166 Chisholm Trail\Cad\QT\Construction Plans\02-4166 Civil.dwg TAB NAME: Decel_Grading USER: Maria Lopez SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:16 AM



- ### MISCELLANEOUS GRADING NOTES
1. GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.
 2. WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" P009A00X DETAIL)
 3. TYPICAL CURB HEIGHT IS 6".
 4. ALL SPOT ELEVATIONS DEPICTED AT EXISTING PAVEMENT LOCATIONS ARE TOP-OF-ASPHALT ELEVATIONS.
 5. ALL SPOT ELEVATIONS DEPICTED AT THE PROPOSED CURB ARE GUTTER-LINE ELEVATIONS.
 6. ALL SPOT ELEVATIONS DEPICTED AT THE PROPOSED APPROACH ARE GUTTER-LINE AND TOP-OF-CONCRETE ELEVATIONS.
 7. EXISTING CURB SHALL REMAIN IN PLACE THROUGH CONSTRUCTION OF THE DECELERATION BASE SECTION AND UNTIL THE CITY INSPECTOR FOR THIS PERMIT HAS APPROVED THE REMOVAL OF THE CURB.
 8. 2% MAX CROSS-SLOPE AT PEDESTRIAN CROSSINGS.



GRADING LEGEND

ST	STORM PIPE (≤ 10" NEW)
ST	STORM PIPE (≥ 12" NEW)
ST	STORM PIPE (≥ 12" EXISTING)
FD	FRENCH DRAIN
CD	BACK OF CURB DRAIN
ADA	ADA PATH OF TRAVEL
XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
---	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
SG	STORM GRATE (NEW)
ASPH	ASPHALT DECELERATION LANE
CONC	CONCRETE DECELERATION LANE

BENCHMARKS

VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY, CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING THE TRIBLE VRS NETWORK.

BM-100 "X" CUT ON TOP OF A CONCRETE HEADWALL, BEARS S 87° 48' 22" W, 291.39' FROM THE NORTHWEST CORNER OF SUBJECT TRACT. ELEVATION=786.68'

BM-101 "X" CUT ON TOP OF A CURB, BEARS N 71° 01' 13" E, 97.08' FROM THE SOUTHEAST CORNER OF SUBJECT TRACT. ELEVATION=789.96'

SURVEYOR OF RECORD
 MATKIN HOOVER
 KYLE L. PRESSLER, R.P.L.S.
 8 SPENCER ROAD, SUITE 300
 BOERNE, TEXAS, 78006
 TEL: (830) 249-0600

PROJECT NO.: 069304931

Kimley»Horn
 3000 MALDEN BLVD., SUITE 200, BOERNE, TX 78006
 PHONE: (830) 249-0600 FAX: (830) 249-0601
 WWW.KIMLEY-HORN.COM TEXAS REGISTERED PROFESSIONAL ENGINEER #17482

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 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664

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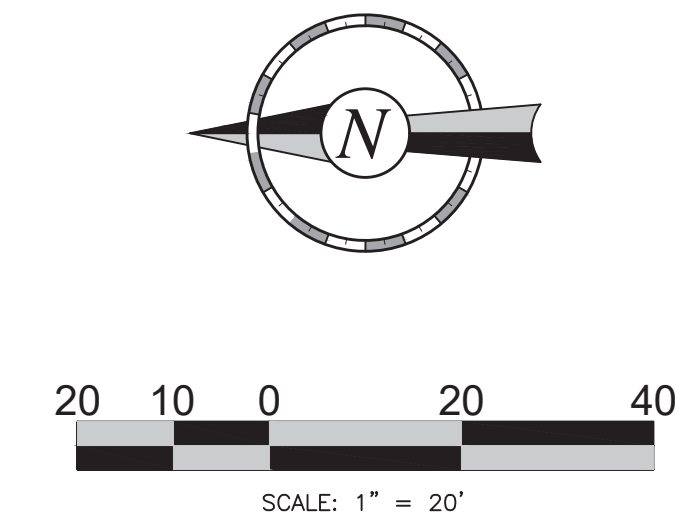
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VERSION:	001
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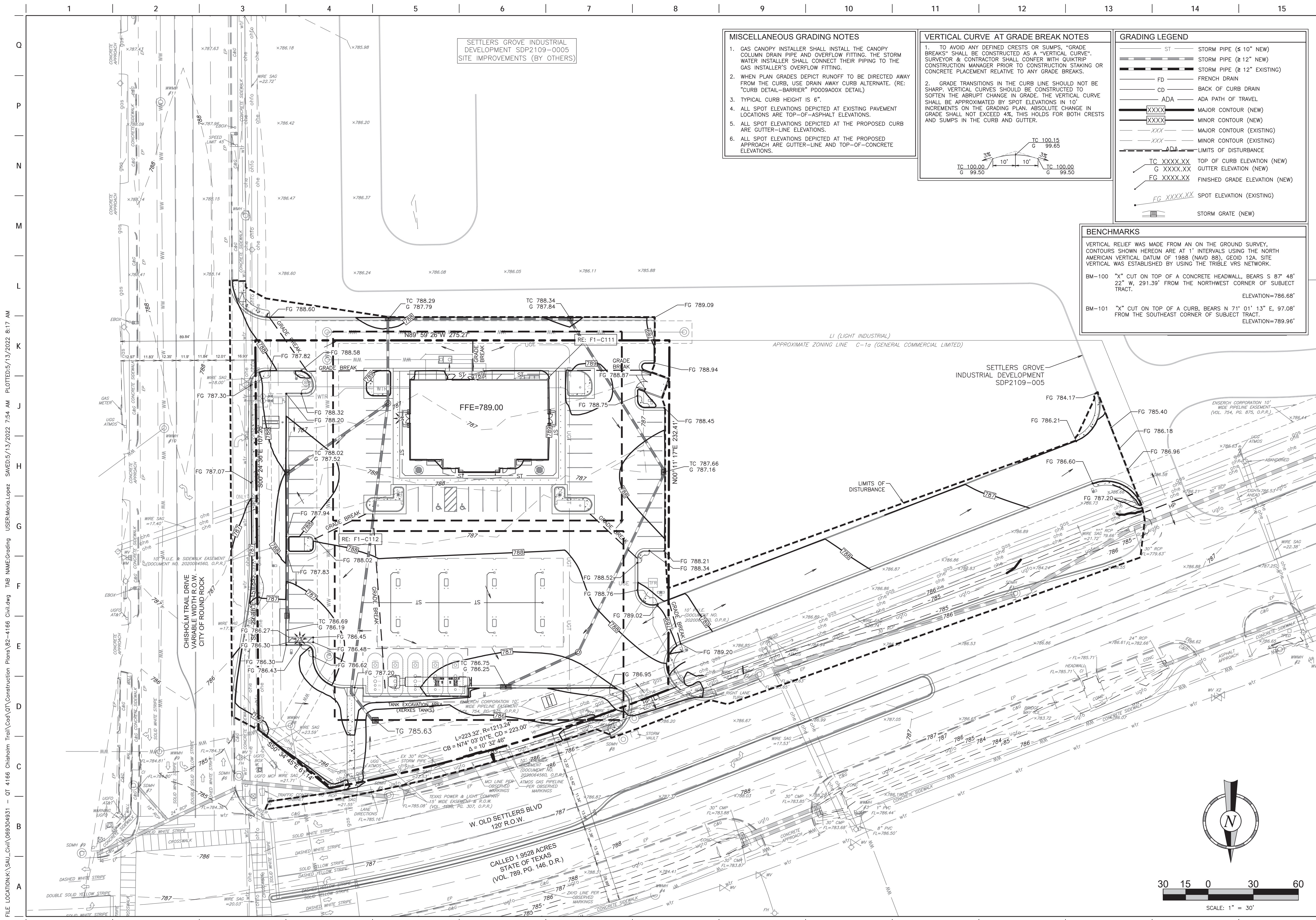
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DECELERATION LANE GRADING PLAN

SHEET NUMBER:
C102

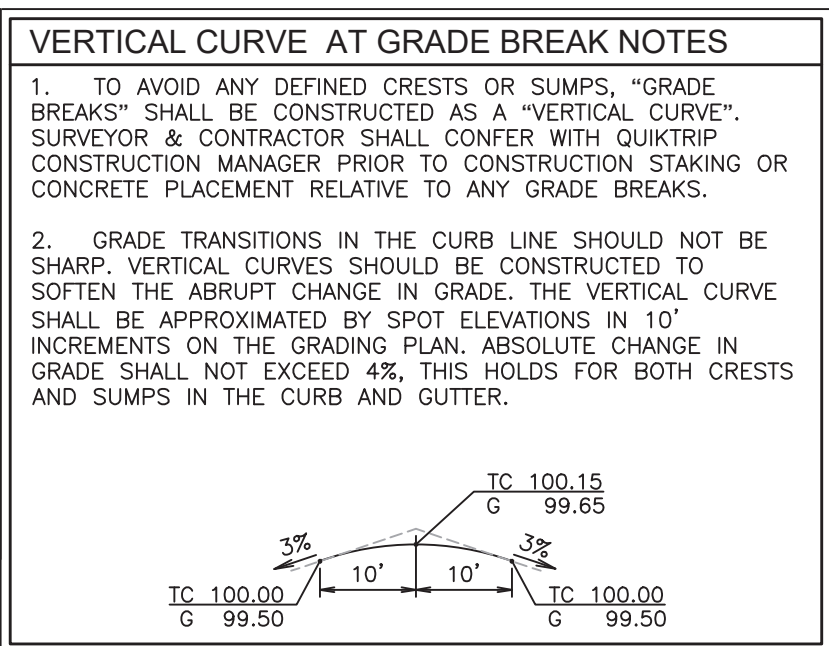
17 OF 59
SDP 2110-0006





SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-0005 SITE IMPROVEMENTS (BY OTHERS)

- MISCELLANEOUS GRADING NOTES**
1. GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.
 2. WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" PD09A00X DETAIL)
 3. TYPICAL CURB HEIGHT IS 6".
 4. ALL SPOT ELEVATIONS DEPICTED AT EXISTING PAVEMENT LOCATIONS ARE TOP-OF-ASPHALT ELEVATIONS.
 5. ALL SPOT ELEVATIONS DEPICTED AT THE PROPOSED CURB ARE GUTTER-LINE ELEVATIONS.
 6. ALL SPOT ELEVATIONS DEPICTED AT THE PROPOSED APPROACH ARE GUTTER-LINE AND TOP-OF-CONCRETE ELEVATIONS.



GRADING LEGEND

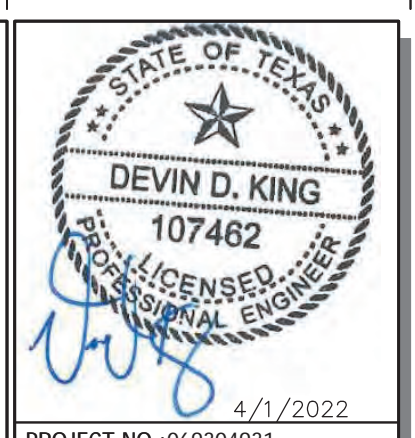
ST	STORM PIPE (6 1/2" NEW)
ST	STORM PIPE (8 1/2" NEW)
ST	STORM PIPE (12" EXISTING)
FD	FRENCH DRAIN
CD	BACK OF CURB DRAIN
ADA	ADA PATH OF TRAVEL
XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXXX	MAJOR CONTOUR (EXISTING)
XXXX	MINOR CONTOUR (EXISTING)
ADA	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
SG	STORM GRATE (NEW)

BENCHMARKS

VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY. CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING THE TRIBLE VRS NETWORK.

BM-100 "X" CUT ON TOP OF A CONCRETE HEADWALL, BEARS S 87° 48' 22" W, 291.39' FROM THE NORTHWEST CORNER OF SUBJECT TRACT. ELEVATION=786.68'

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Kimley»Horn
 CONSULTING ENGINEERS
 2400 W. WILLOW PARK BLVD., SUITE 100, FORT WORTH, TX 76107
 PHONE: (817) 335-1100 FAX: (817) 335-1101
 WWW.KIMLEY-HORN.COM
 TEXAS REGISTERED PROFESSIONAL ENGINEER #1748

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 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664



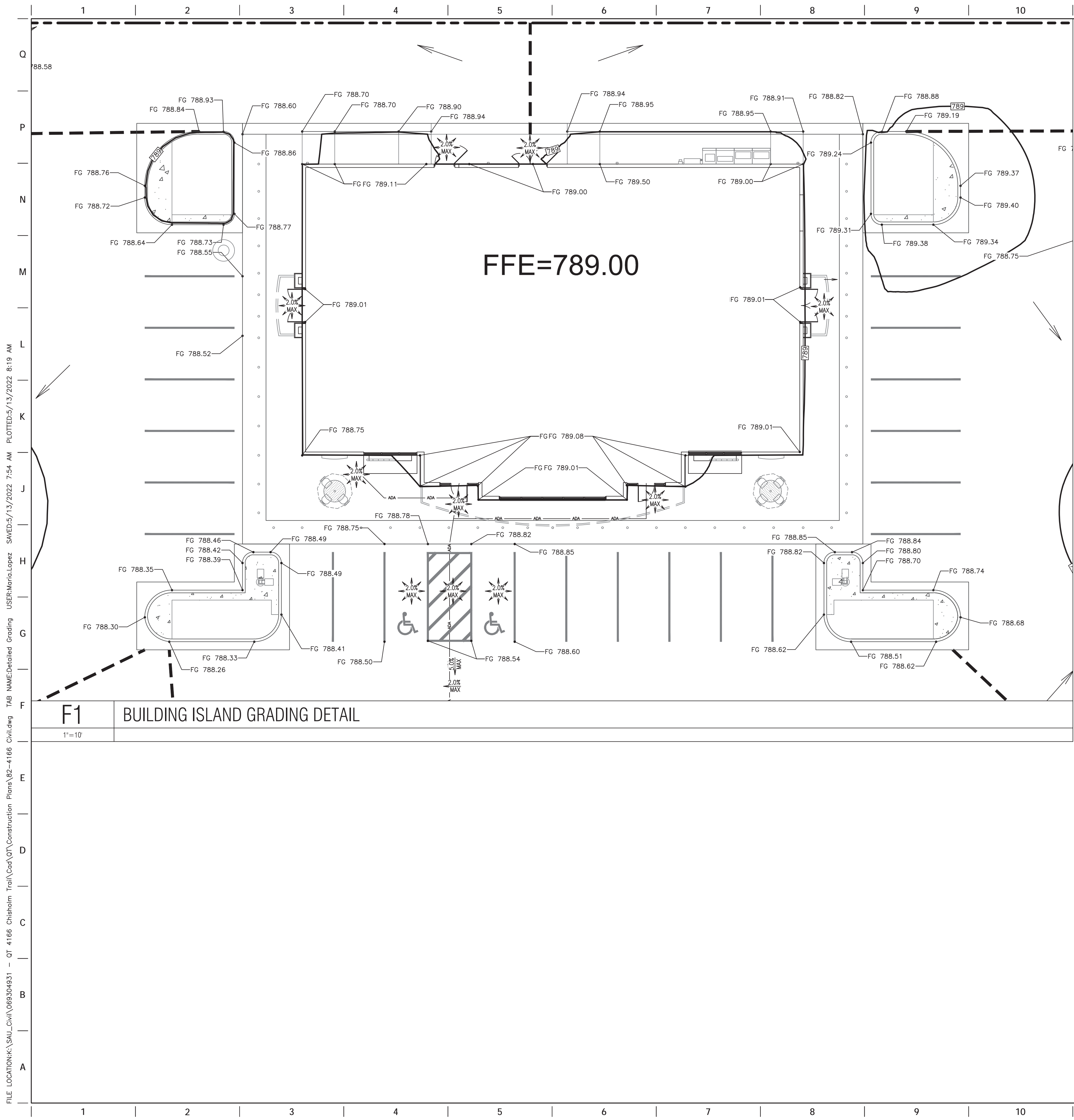
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 GRADING PLAN

SHEET NUMBER:
C110



GRADING LEGEND

—XXXX—	MAJOR CONTOUR (NEW)
-XXXX-	MINOR CONTOUR (NEW)
---XXX---	MAJOR CONTOUR (EXISTING)
-XXX-	MINOR CONTOUR (EXISTING)
- - - - -	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
[Symbol]	STORM GRATE (NEW)

BENCHMARKS

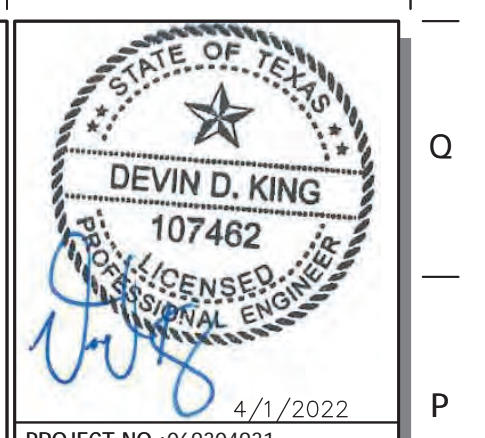
VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY, CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING THE TRIBLE VRS NETWORK.

BM-100 "X" CUT ON TOP OF A CONCRETE HEADWALL, BEARS S 87' 48" 22" W, 291.39' FROM THE NORTHWEST CORNER OF SUBJECT TRACT. ELEVATION=786.68'

BM-101 "X" CUT ON TOP OF A CURB, BEARS N 71' 01' 13" E, 97.08' FROM THE SOUTHEAST CORNER OF SUBJECT TRACT. ELEVATION=789.96'

MISCELLANEOUS GRADING NOTES

1. TYPICAL CURB HEIGHT IS 6".



Kimley»Horn
 CIVIL ENGINEERS, INC.
 2400 W. WYATTEN, SUITE 200, AUSTIN, TX 78746
 PHONE: (512) 426-1100 FAX: (512) 426-1101
 WWW.KIMLEY-HORN.COM
 TRADE REGISTERED DISTURBER: FIRM #748

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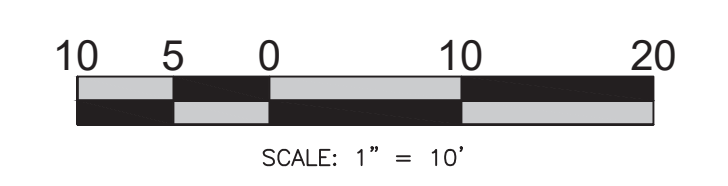
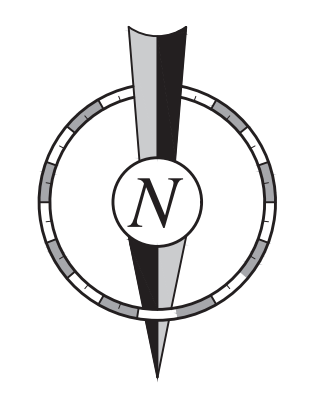


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SHEET TITLE:
 BUILDING & DETAILED
 GRADING PLANS

SHEET NUMBER:
C111



FILE LOCATION: \\S:\CIVIL\069304931 - QT 4166 Chisholm Trail\Civil\069304931 - QT 4166 Construction Plans\02-4166 Civil.dwg TAB NAME: Detailed Grading USER: Maria.Lopez, SAVES: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:19 AM



GRADING GENERAL NOTES

1. REFER TO C110 FOR GRADING NOTES.
2. THE MINIMUM FIRE LANE CLEARANCE IS 13'6".
3. THE MINIMUM CANOPY HEIGHT IS 17'.

PRIOR TO PLACING FRAMEWORK ON COMPLEX ADA RAMP DESIGNS, CONTRACTOR SHALL SUBMIT AN RFI WITH ADDITIONAL SURVEY DATA TO THE CONSULTANT. CONSULTANT WILL FINALIZE RAMP DESIGN AND RESPOND TO THE RFI.

GRADING LEGEND

XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
LIMITS OF DISTURBANCE	
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
CC XXXX.XX	CANOPY CLEARANCE ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
TI XXXX.XX	TOP OF ISLAND ELEVATION (NEW)
TP XXXX.XX	TOP OF PAVEMENT ELEVATION (NEW)
TF XXXX.XX	TOP OF FOOTING ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
CANOPY COLUMN	STANDARD CANOPY COLUMN FOOTING
EXTENDED FOOTING	COLUMN FOOTING
MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS	

MISCELLANEOUS GRADING NOTES

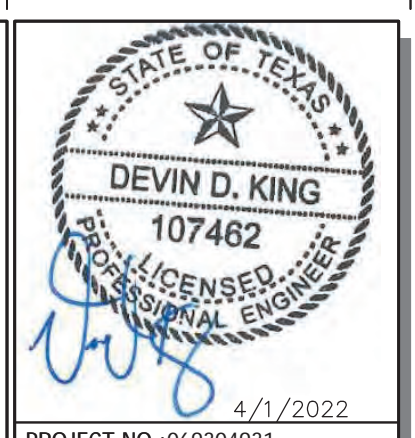
1. GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.
2. TO AVOID ANY DEFINED CRESTS OR SUMPS, "GRADE BREAKS" SHALL BE CONSTRUCTED AS A "VERTICAL CURVE". SURVEYOR & CONTRACTOR SHALL CONFER WITH QUIKTRIP CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION STAKING OR CONCRETE PLACEMENT RELATIVE TO ANY GRADE BREAKS.
3. WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" P009A00X DETAIL)
4. ALL DISPENSER ISLAND FORMS SHALL BE PLACED AT A VERTICAL HEIGHT OF 6 1/4" ABOVE ADJACENT HIGHEST GRADE CORNER.

BENCHMARKS

VERTICAL RELIEF WAS MADE FROM AN ON THE GROUND SURVEY, CONTOURS SHOWN HEREON ARE AT 1' INTERVALS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING THE TRIBLE VRS NETWORK.

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BM-101 "X" CUT ON TOP OF A CURB, BEARS N 71° 01' 13" E, 97.08' FROM THE SOUTHEAST CORNER OF SUBJECT TRACT. ELEVATION=789.96'



PROJECT NO.: 069304931

Kimley»Horn

2020 W. WATKINS, SUITE 200, AUSTIN, TX 78756
PH: 512.835.7700 FAX: 512.835.7701
WWW.KIMLEY-HORN.COM
TX REG. ENGINEER LICENSE # 1748

QuikTrip No. 4166

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ROUND ROCK, TEXAS 78664



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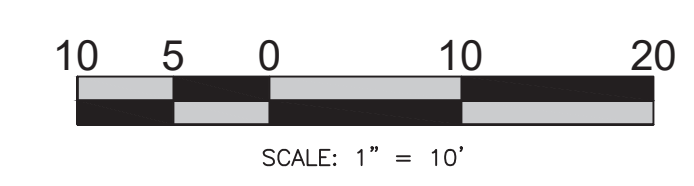
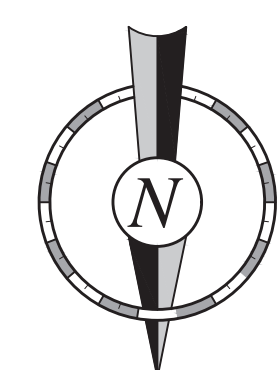
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CANOPY & DETAILED GRADING PLANS

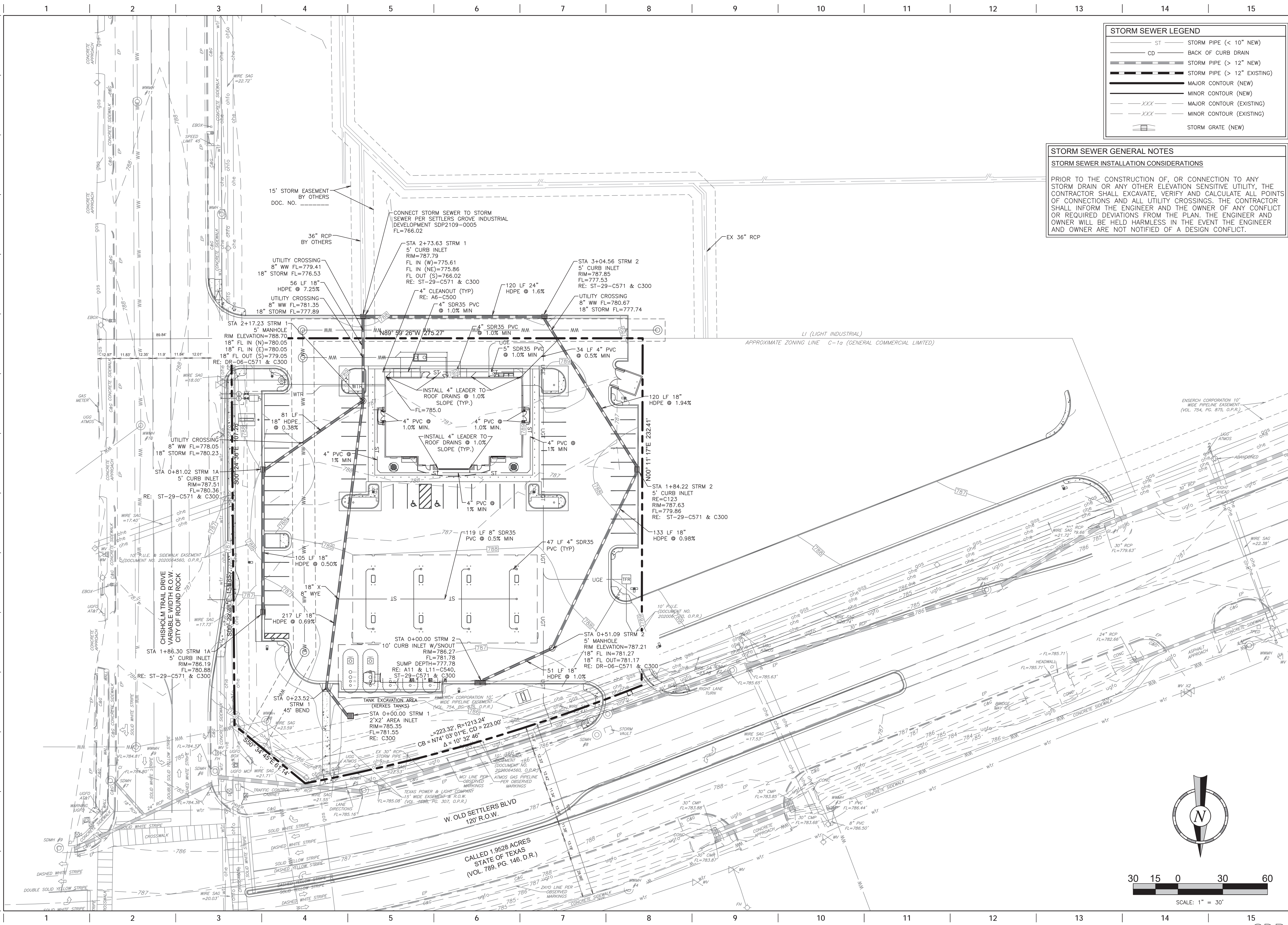
SHEET NUMBER:

C112



FILE LOCATION: \\SML_Civil\069304931 - QT 4166 Chisholm Trail\Cad\QT\Construction Plans\02-4166 Civil\ang TAB NAME: Canopy Grading USER: Maria.Lopez SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:20 AM

FILE LOCATION: \\Saul_Civil\069304931 - QT 4166 Chisholm Trail\Cad\Construction Plans\82-4166 Civil.dwg TAB NAME: Storm USER: MariaLopez SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 7:58 AM



STORM SEWER LEGEND

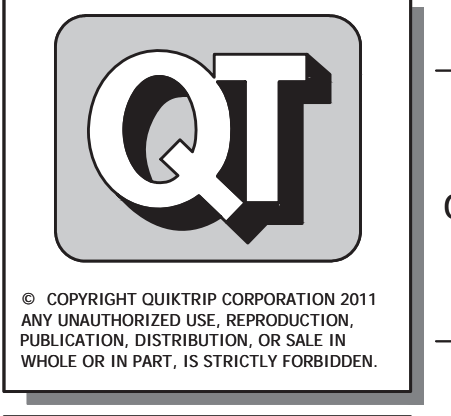
- ST - STORM PIPE (< 10" NEW)
- CD - BACK OF CURB DRAIN
- STORM PIPE (> 12" NEW)
- STORM PIPE (> 12" EXISTING)
- MAJOR CONTOUR (NEW)
- MINOR CONTOUR (NEW)
- MAJOR CONTOUR (EXISTING)
- MINOR CONTOUR (EXISTING)
- STORM GRATE (NEW)

STORM SEWER GENERAL NOTES
STORM SEWER INSTALLATION CONSIDERATIONS

PRIOR TO THE CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN OR ANY OTHER ELEVATION SENSITIVE UTILITY, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. THE ENGINEER AND OWNER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER AND OWNER ARE NOT NOTIFIED OF A DESIGN CONFLICT.

STATE OF TEXAS
DEVIN D. KING
 107462
 LICENSED PROFESSIONAL ENGINEER
 4/1/2022
 PROJECT NO.: 069304931
Kimley-Horn
 2025 KIMLEY-HORN AND ASSOCIATES, INC.
 10000 W. HIGHTWAY 2915, SUITE 100, WYOMING, OKLAHOMA 73160
 WWW.KIMLEY-HORN.COM P-008
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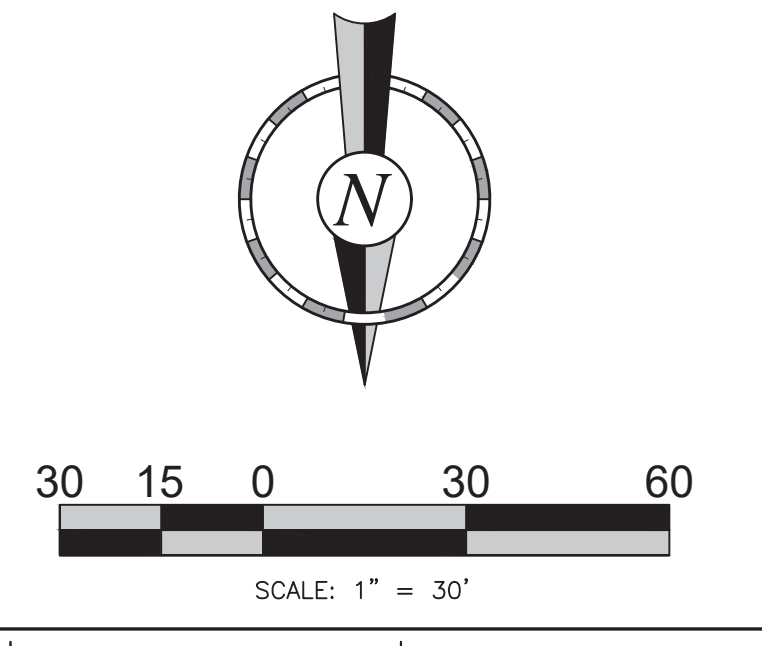
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STORM SEWER PLAN

SHEET NUMBER:
C120



FILE LOCATION: \\SAUL_Civil\069304931 - QT 4166 Chisholm Trail\Cad\QT\Construction Plans\82-4166 Civil.dwg TAB NAME: Pre Dev Map USER: Maria.Lopez SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:21 AM

DRAINAGE LEGEND

- PRE-DEVELOPED DRAINAGE AREA
- TIME OF CONCENTRATION POINT OF ANALYSIS

EXISTING DRAINAGE AREA CALCULATIONS

DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₂₅ (CFS)	Q ₁₀₀ (CFS)
EX-1	0.60	0%	98	100%	80	80.0	5.00	1.29	2.58	3.56	5.37
EX-2	1.10	0%	98	100%	80	80.0	5.00	2.36	4.73	6.52	9.85
EX-3	1.22	0%	98	100%	80	80.0	8.11	2.43	4.95	6.86	10.42
POA A	1.29	2.58	3.56	5.37							
POA B	2.36	4.73	6.52	9.85							
POA C	2.43	4.95	6.86	10.42							

TIME OF CONCENTRATION CALCULATIONS

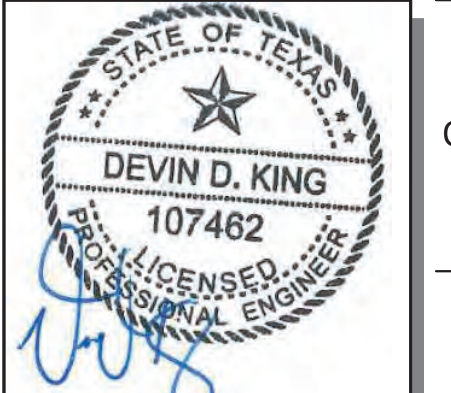
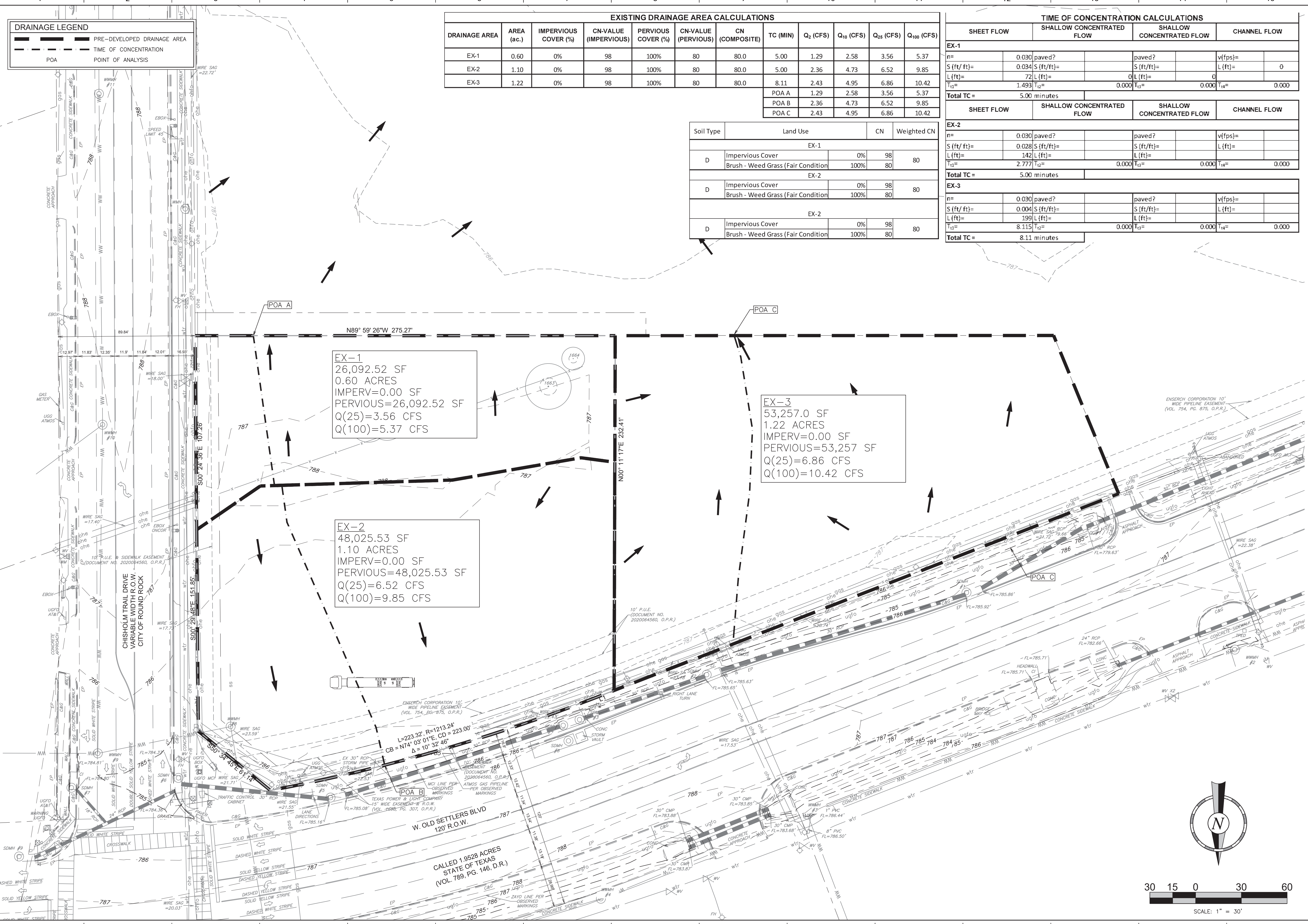
SHEET FLOW	SHALLOW CONCENTRATED FLOW	SHALLOW CONCENTRATED FLOW	CHANNEL FLOW
EX-1			
n=	0.030 paved?	paved?	v(fps)=
S (ft/ft)=	0.034 S (ft/ft)=	S (ft/ft)=	L (ft)=
L (ft)=	72 L (ft)=	L (ft)=	L (ft)=
T ₁₂ =	1.493 T ₁₂ =	0.000 T ₁₃ =	0.000 T ₁₄ =
Total TC =	5.00 minutes		

Soil Type Land Use CN Weighted CN

Soil Type	Land Use	CN	Weighted CN
D	Impervious Cover	0%	98
	Brush - Weed Grass (Fair Condition)	100%	80
D	Impervious Cover	0%	98
	Brush - Weed Grass (Fair Condition)	100%	80
D	Impervious Cover	0%	98
	Brush - Weed Grass (Fair Condition)	100%	80

TIME OF CONCENTRATION CALCULATIONS

SHEET FLOW	SHALLOW CONCENTRATED FLOW	SHALLOW CONCENTRATED FLOW	CHANNEL FLOW
EX-2			
n=	0.030 paved?	paved?	v(fps)=
S (ft/ft)=	0.028 S (ft/ft)=	S (ft/ft)=	L (ft)=
L (ft)=	142 L (ft)=	L (ft)=	L (ft)=
T ₁₂ =	2.777 T ₁₂ =	0.000 T ₁₃ =	0.000 T ₁₄ =
Total TC =	5.00 minutes		
EX-3			
n=	0.030 paved?	paved?	v(fps)=
S (ft/ft)=	0.004 S (ft/ft)=	S (ft/ft)=	L (ft)=
L (ft)=	199 L (ft)=	L (ft)=	L (ft)=
T ₁₂ =	8.115 T ₁₂ =	0.000 T ₁₃ =	0.000 T ₁₄ =
Total TC =	8.11 minutes		



PROJECT NO.: 069304931

Kimley Horn
 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664

QuikTrip No. 4166



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SHEET TITLE:
 PRE-DEVELOPED DRAINAGE
 MAP

SHEET NUMBER:
C121

FILE LOCATION: \\S:\Cadd\069304931 - 01 4166 Chisholm Trail\Construction Plans\82-4166 Civil.dwg TAB NAME: Post Dev Map USER: MariaLopez SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:29 AM

DRAINAGE LEGEND

	POST-DEVELOPED DRAINAGE AREA
	TIME OF CONCENTRATION
	POA
	POINT OF ANALYSIS

PROPOSED DRAINAGE AREA CALCULATIONS

DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₂₅ (CFS)	Q ₁₀₀ (CFS)
DA-1	1.80	65%	98	35%	80	91.7	5.00	5.92	9.41	12.26	17.51
DA-2	1.22	19%	98	81%	80	83.4	5.00	2.96	5.62	7.61	11.27
POA A								5.52	9.41	12.26	17.51
POA B								0.00	0.00	0.00	0.00
POA C								2.96	5.62	7.61	11.27

TIME OF CONCENTRATION CALCULATIONS

SHEET FLOW	SHALLOW CONCENTRATED FLOW	SHALLOW CONCENTRATED FLOW	CHANNEL FLOW
DA-1			
n=	0.012 paved?	paved?	v(ft/s)=
S(ft/ft)=	0.022 S(ft/ft)=	S(ft/ft)=	L(ft)=
L(ft)=	90 L(ft)=	L(ft)=	T ₁₀ =
T ₁₁ =	1.017 T ₁₂ =	0.000 T ₁₃ =	0.000 T ₁₄ =
Total TC = 5.00 minutes			
DA-2			
n=	0.012 paved?	paved?	v(ft/s)=
S(ft/ft)=	0.026 S(ft/ft)=	S(ft/ft)=	L(ft)=
L(ft)=	192 L(ft)=	L(ft)=	T ₁₀ =
T ₁₁ =	1.749 T ₁₂ =	0.000 T ₁₃ =	0.000 T ₁₄ =
Total TC = 5.00 minutes			

Soil Type	Land Use	CN	Weighted CN
DA-1			
D	Impervious Cover	65%	98
D	Brush - Weed Grass (Fair Condition)	35%	80
DA-2			
D	Impervious Cover	19%	98
D	Brush - Weed Grass (Fair Condition)	81%	80

PROPOSED CONDITION DRIVEWAY DRAINAGE AREAS WILL SEND NOTED FLOWS DIRECTLY TO THE CHISHOLM TRAIL STORM DRAINAGE SYSTEM IN LIEU OF ROUTING INTERIOR TO THE SITE AND DISCHARGING TO THE CULVERT CROSSING WHICH IS USED AS THE PROJECTS MAIN POINT OF ANALYSIS. BASED ON THE LIMITED FLOW GENERATED FROM THESE AREAS AND THAT THE CHISHOLM TRAIL STORM DRAINAGE SYSTEM ULTIMATELY ROUTES TO THE SAME CULVERT CROSSING, INCREASES TO THIS SYSTEM WILL BE NEGLIGIBLE OVER THE ROUTING TIME TO THE CULVERT AND WILL NOT CAUSE AN ADVERSE IMPACT TO THE SYSTEM.

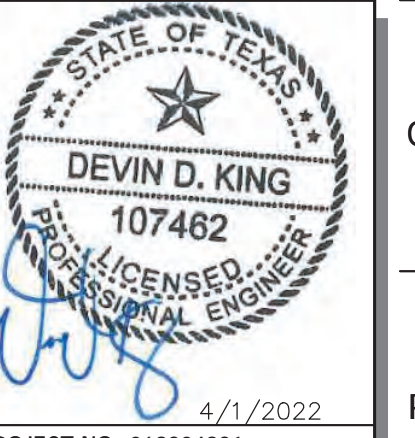
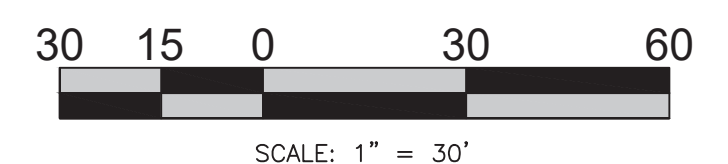
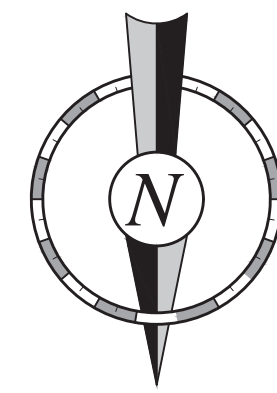
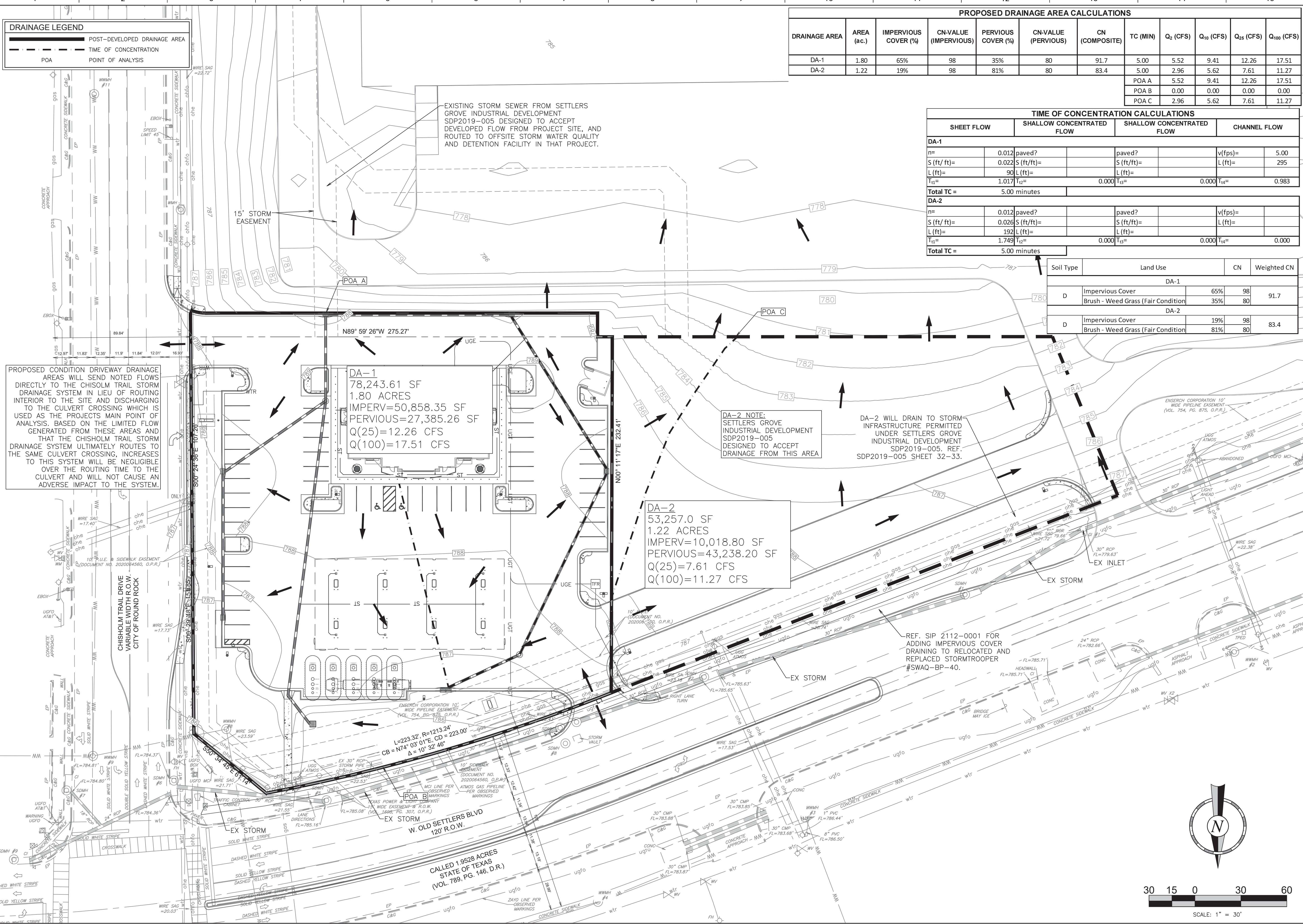
DA-1
 78,243.61 SF
 1.80 ACRES
 IMPERV=50,858.35 SF
 PERVIOUS=27,385.26 SF
 Q(25)=12.26 CFS
 Q(100)=17.51 CFS

DA-2
 53,257.0 SF
 1.22 ACRES
 IMPERV=10,018.80 SF
 PERVIOUS=43,238.20 SF
 Q(25)=7.61 CFS
 Q(100)=11.27 CFS

DA-2 NOTE:
 SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2019-005 DESIGNED TO ACCEPT DRAINAGE FROM THIS AREA

DA-2 WILL DRAIN TO STORM INFRASTRUCTURE PERMITTED UNDER SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2019-005. REF. SDP2019-005 SHEET 32-33.

REF. SIP 2112-0001 FOR ADDING IMPERVIOUS COVER DRAINING TO RELOCATED AND REPLACED STORMTROOPER #SWAQ-BP-40.



Kimley»Horn
 PROJECT NO.: 069304931
 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664

QuikTrip No. 4166



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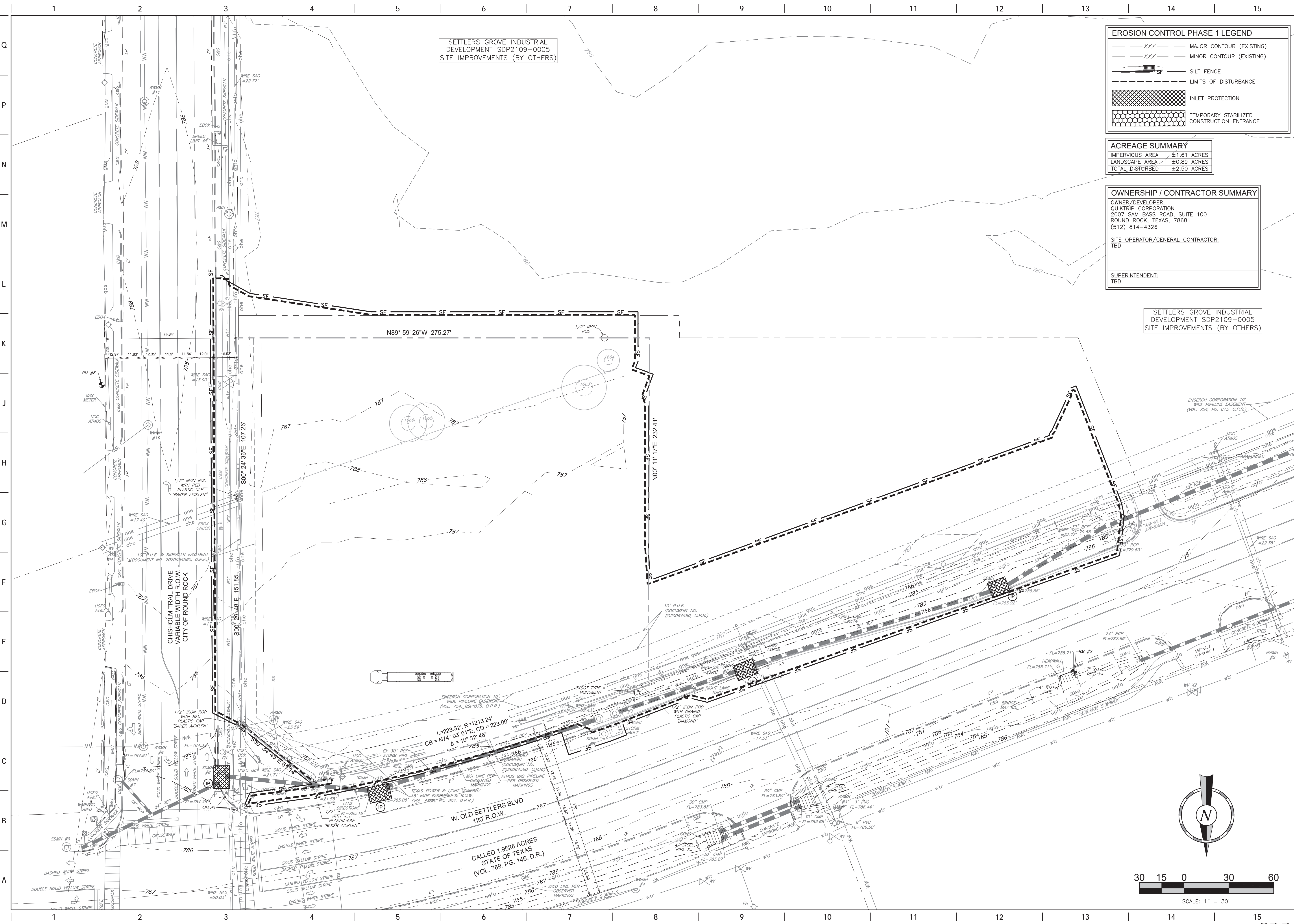
PROTOTYPE: P-108 (11/01/21)
 DIVISION:
 VERSION: 001
 DESIGNED BY:
 DRAWN BY:
 REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
 POST-DEVELOPED DRAINAGE MAP

SHEET NUMBER:
C122

FILE LOCATION: \\SAU_Civil\069304931 - QT 4166 Chisholm Trail\Cad\OT\Construction Plans\82-4166 Civil.dwg TAB NAME: Erosion PH 1 USER: Maria.Lopez. SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 8:34 AM



EROSION CONTROL PHASE 1 LEGEND

- XXX --- MAJOR CONTOUR (EXISTING)
- XXX --- MINOR CONTOUR (EXISTING)
- SF --- SILT FENCE
- --- LIMITS OF DISTURBANCE
- [Hatched Box] --- INLET PROTECTION
- [Stippled Box] --- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

ACREAGE SUMMARY

IMPERVIOUS AREA	±1.61 ACRES
LANDSCAPE AREA	±0.89 ACRES
TOTAL DISTURBED	±2.50 ACRES

OWNERSHIP / CONTRACTOR SUMMARY

OWNER/DEVELOPER:
 QUIKTRIP CORPORATION
 2007 SAM BASS ROAD, SUITE 100
 ROUND ROCK, TEXAS, 78681
 (512) 814-4326

SITE OPERATOR/GENERAL CONTRACTOR:
 TBD

SUPERINTENDENT:
 TBD

SETTLERS GROVE INDUSTRIAL DEVELOPMENT SDP2109-005 SITE IMPROVEMENTS (BY OTHERS)

STATE OF TEXAS
 DEVIN D. KING
 107462
 LICENSED PROFESSIONAL ENGINEER
 4/1/2022
 PROJECT NO.: 069304931
Kimley»Horn
 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 1000 W. LOUISIANA STREET, SUITE 100
 ROUND ROCK, TEXAS 78664
 WWW.KIMLEY-HORN.COM TEL: 512-796-1176
 TEXAS REGISTERED ENGINEERING FIRM P-508

QuikTrip No. 4166
 701 W. SETTLERS BLVD.
 ROUND ROCK, TEXAS 78664

QT

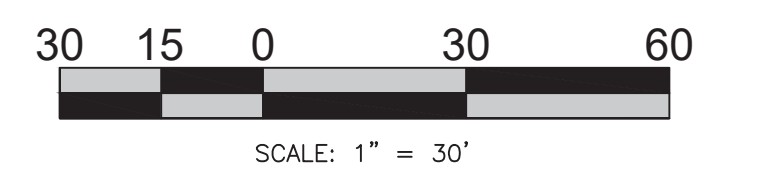
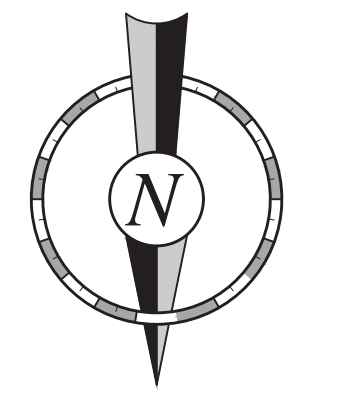
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 DRAWN BY:
 REVIEWED BY:

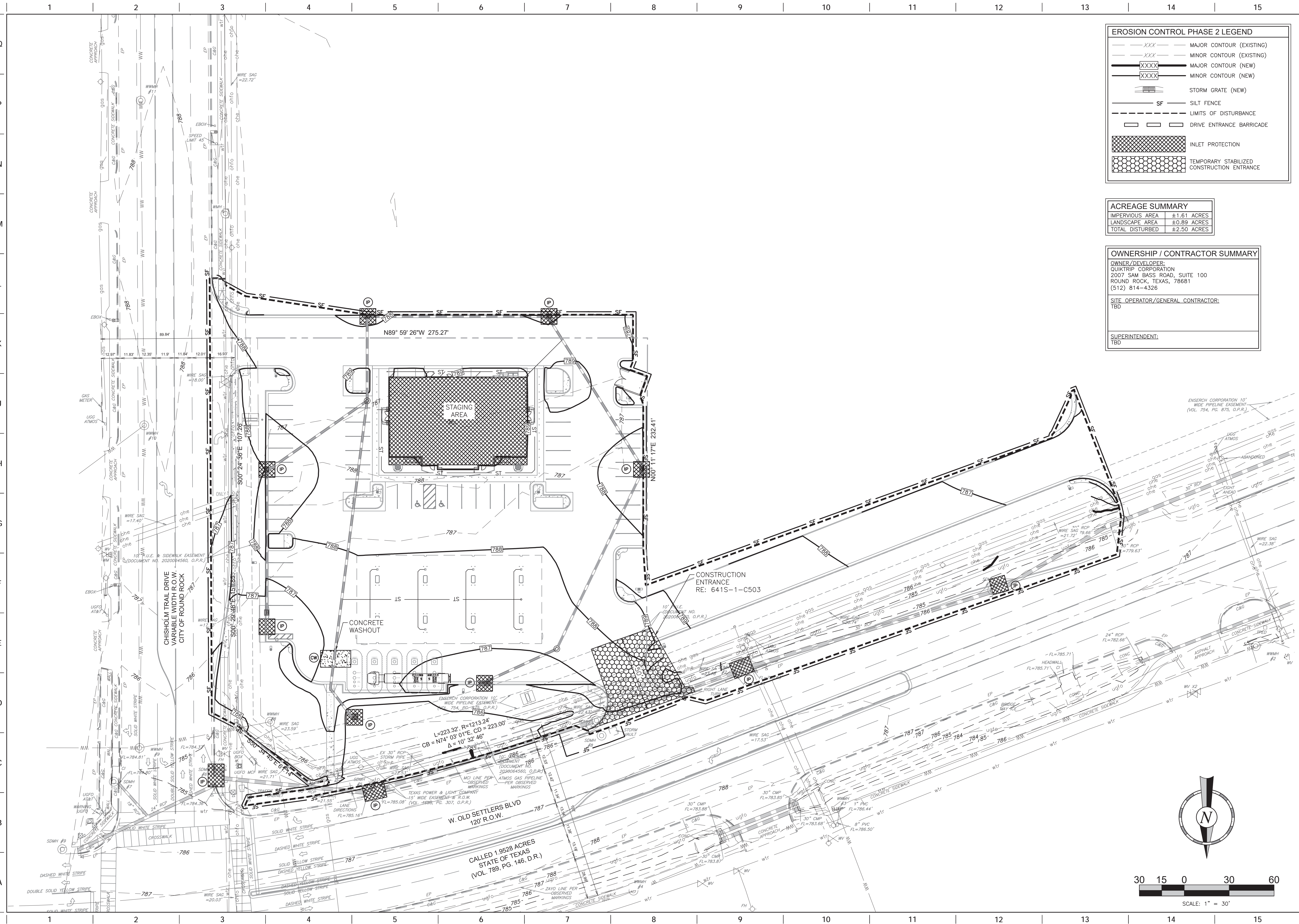
REV	DATE	DESCRIPTION

SHEET TITLE:
 EROSION CONTROL PLAN - PHASE 1

SHEET NUMBER:
C140



FILE LOCATION: \\SAU_Civil\069304931 - QT 4166 Chisholm Trail\Cad\QT\Construction Plans\82-4166 Civil.dwg TAB NAME: Erosion PH 2 USER: Maria.Lopez. SAVED: 5/13/2022 7:54 AM PLOTTED: 5/13/2022 6:35 AM



EROSION CONTROL PHASE 2 LEGEND

- XXXX --- MAJOR CONTOUR (EXISTING)
- XXXX --- MINOR CONTOUR (EXISTING)
- XXXX --- MAJOR CONTOUR (NEW)
- XXXX --- MINOR CONTOUR (NEW)
- [Symbol] STORM GRATE (NEW)
- SF --- SILT FENCE
- --- LIMITS OF DISTURBANCE
- [Symbol] DRIVE ENTRANCE BARRICADE
- [Symbol] INLET PROTECTION
- [Symbol] TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

ACREAGE SUMMARY

IMPERVIOUS AREA	±1.61 ACRES
LANDSCAPE AREA	±0.89 ACRES
TOTAL DISTURBED	±2.50 ACRES

OWNERSHIP / CONTRACTOR SUMMARY

OWNER/DEVELOPER:
QUIKTRIP CORPORATION
2007 SAM BASS ROAD, SUITE 100
ROUND ROCK, TEXAS, 78681
(512) 814-4326

SITE OPERATOR/GENERAL CONTRACTOR:
TBD

SUPERINTENDENT:
TBD

STATE OF TEXAS
DEVIN D. KING
107462
PROFESSIONAL ENGINEER
4/1/2022
PROJECT NO.: 069304931

Kimley»Horn
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REGISTERED PROFESSIONAL ENGINEERS
1000 W. LOUISIANA STREET, SUITE 1000
ROUND ROCK, TEXAS 78664
WWW.KIMLEY-HORN.COM P-008
TEXAS REGISTRATION NUMBER: 1746

QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664

QT

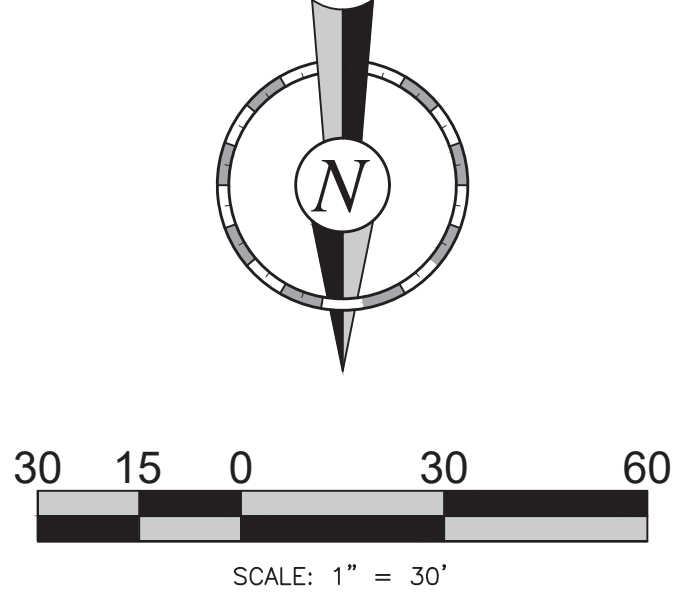
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DIVISION:
VERSION: 001
DESIGNED BY:
DRAWN BY:
REVIEWED BY:

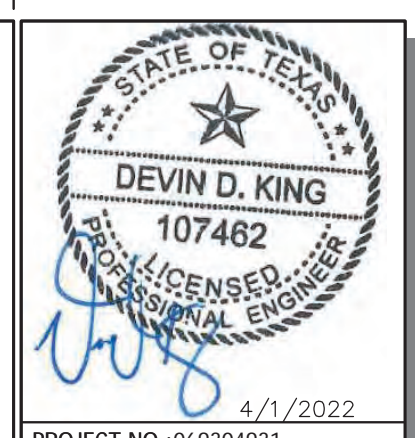
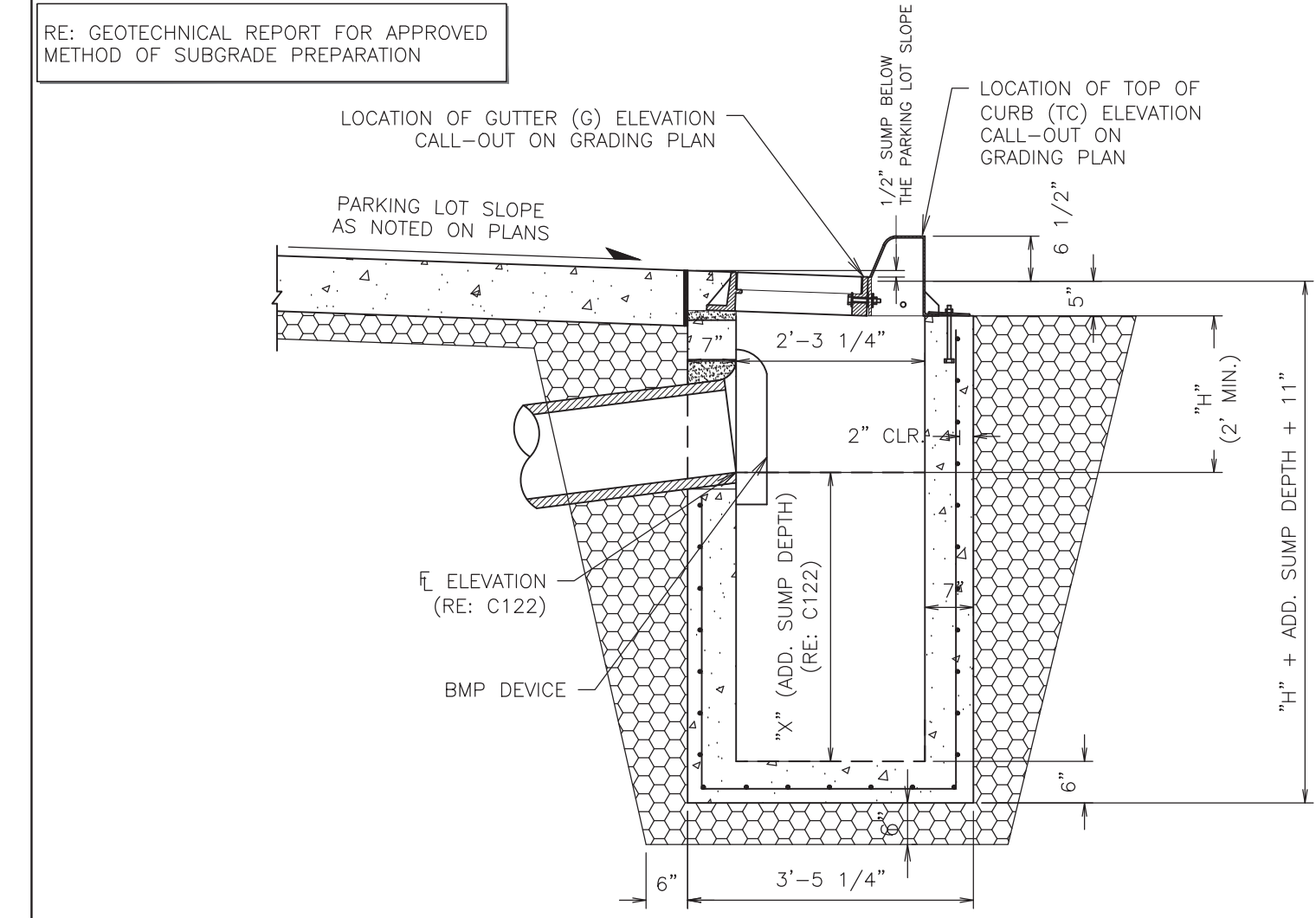
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SHEET TITLE:
EROSION CONTROL PLAN -
PHASE 2

SHEET NUMBER:
C141



FILE LOCATION: \\S:\CIVIL\069304931 - 01 4166 Chisholm Trail\Coord\VT\Construction Plans\DETALS DRAINAGE.dwg TAB NAME: Drainage Detail Sheet 1 USER: Maria.Lopez SWED: 4/25/2022 6:56 PM PLOTTED: 5/13/2022 8:23 AM



4/1/2022
PROJECT NO.: 069304931
Kimley»Horn
2400 W. NORTH ST. STE. 200, AUSTIN, TX 78758
PHONE: 512-835-1171 WWW.KIMLEY-HORN.COM
TX REG. REG. ENGINEER #107462

QuikTrip No. 4166
701 W. SETTLERS BLVD.
ROUND ROCK, TEXAS 78664



PROTOTYPE: P-108 (11/01/21)
DIVISION:
VERSION: 001
DESIGNED BY:
DRAWN BY:
REVIEWED BY:

REV	DATE	DESCRIPTION	ORIGINAL	ISSUE DATE

SHEET TITLE:
DRAINAGE DETAILS

SHEET NUMBER:
C540

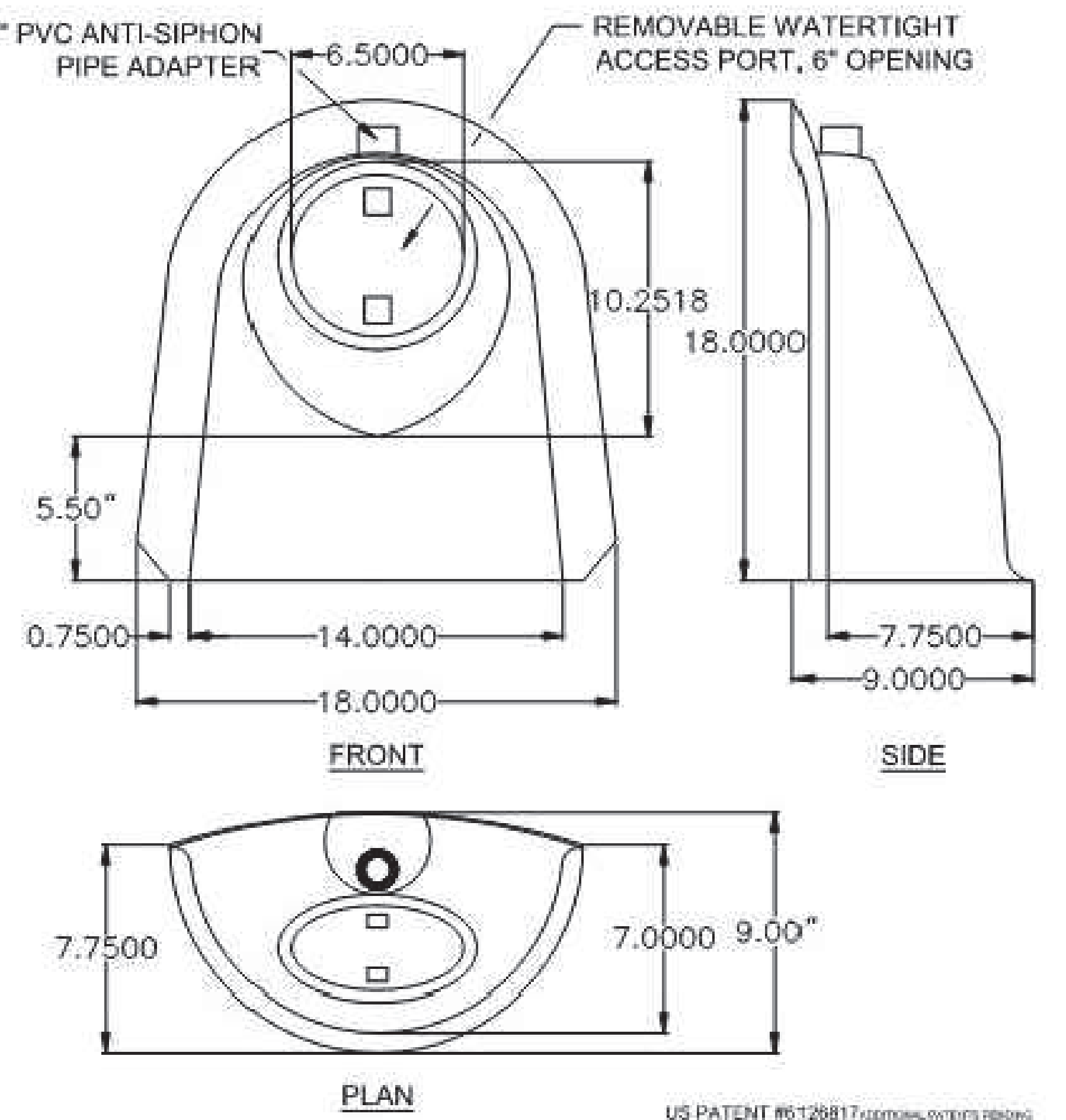
L1 NOT USED
NTS SN:

L6 NOT USED
NTS SN:

L11 CURB INLET WITH SNOOT SUMP (SECTION VIEW)
NTS SN: DD029A001

F1 NOT USED
NTS SN:

F6 NOT USED
NTS SN:



DESIGNED TO FIT
36"-48" DIAM.
STRUCTURES

US PATENT #6,128,817; ADDITIONAL PATENTS PENDING

BMP, INC.
53 MT. ARCHER ROAD, LYME, CT 06371
(800) 504-6008 FAX: (860) 434-3195

DESCRIPTION	DATE	SCALE
12R SNOOT OIL & DEBRIS STOP	09/09/99	NONE
DRAWING NUMBER	12R	

A1 NOT USED
NTS SN:

A6 NOT USED
NTS SN:

A11 12R SNOOT STORM WATER QUALITY SYSTEM
NTS SN:

Attachment G: Permanent BMP Inspection and Maintenance Plan

The construction, inspection, and maintenance of the BMP treating water from the proposed QuikTrip 4166 was previously approved in the WPAP for Settler's Grove (EAPP No. 11002944). It is attached below.

Attachment G

Inspection, Maintenance, Repair and Retrofit Plan

The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site specific and weather related conditions.

It is the responsibility of the owner to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility for the maintenance will be required to be transferred through the lease agreement, binding covenants, closing documents, or other binding legal instrument.

Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities. All inspections shall be documented.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: Chisholm Trail Developers Venture, LTD

Mailing Address: 1001 Fannin Street, Suite 4775

City, State: Houston, TX Zip: 77002

Telephone: Fax:

I, the owner, have read and understand the requirements of the attached Inspection and Maintenance Plan for the proposed Permanent Best Management Practices for my project. I acknowledge that I will maintain responsibility for the implementation and execution of the plan until the responsibility is transferred to or assumed by another party in writing through a binding legal instrument.

Signature of Responsible Party [Signature] Date 1/25/22
VICE PRESIDENT

This Maintenance Plan is based on TCEQ Maintenance Guidelines.

By: [Signature] Date 2-1-22
C.J. Ponton, P.E.

Water Quality Ponds

Routine Maintenance

Mowing: The side-slopes, embankment, and emergency spillway of the basin should be mowed at least twice a year to prevent woody growth and to control weeds.

Inspections: Water Quality Ponds should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. When possible, inspections should be conducted during wet weather to determine if the basin is functioning properly. There are many functions and characteristics of these BMPs that should be inspected. The embankment should be checked for subsidence, erosion, leakage, cracking, and tree growth. The condition of the emergency spillway should be checked. The inlet, barrel, and outlet should be inspected for clogging. Stability of the side slopes should be checked. Modifications to the basin structure and contributing watershed should be evaluated. During semi-annual inspections, replace any dead or displaced vegetation. Replanting of various species of wetland vegetation may be required at first, until a viable mix of species is established. Cracks, voids and undermining should be patched/filled to prevent additional structural damage. Trees and root systems should be removed to prevent growth in cracks and joints that can cause structural damage. The inspections should be carried out with As-built pond plans in hand.

Debris and Litter Removal: As part of periodic mowing operations and inspections, debris and litter should be removed from the surface of the basin. Attention should be paid to floatable debris, and the outlet should be checked for possible clogging.

Sediment Removal: Inspection of the forebay should be completed every three months for the first two years after construction completion, and during the three-month inspection cycle, if more than 15% of the forebay volume is lost, the sediment build-up should be removed. After the two-year period, the sediment forebay should be inspected every three years, and the sediment should be cleaned out if more than one-third of the forebay volume is lost. Every six years, the sediment build-up in the mail pool should be inspected and sediment should be removed if twenty percent of the main pool volume is lost.

Erosion Control: The basin side slopes, emergency spillway, and embankment all may periodically suffer from slumping and erosion. Corrective measures such as re-grading and re-vegetation may be necessary.

Nuisance Control: Most public agencies surveyed indicate that control of insects, weeds, odors, and algae may be needed in some ponds. Nuisance control is probably the most frequent maintenance item demanded by local residents. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.). Biological control of algae and mosquitoes using fish such as fathead minnows is preferable to chemical applications.

Non-Routine Maintenance

Structural Repairs and Replacement: The structural integrity of the embankment, outlet structure and retaining walls should be inspected during the required routine inspections. Leakage or seepage of water through the embankment must be avoided and any structural damage should be repaired immediately.

Harvesting: If vegetation is present on the fringes or in the pond, it can be periodically harvested and the clippings removed to provide export of nutrients and to prevent the basin from filling with decaying organic matter.



An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: Chisholm Trail Developers Venture, LTD
Mailing Address: 1001 Fannin Street, Suite 4775
City, State: Houston, Texas Zip: 77002
Telephone: _____ Fax: _____

I, the owner, have read and understand the requirements of the attached Inspection and Maintenance Plan for the proposed Permanent Best Management Practices for my project. I acknowledge that I will maintain responsibility for the implementation and execution of the plan until the responsibility is transferred to or assumed by another party in writing through a binding legal instrument.

Signature of Responsible Party  Date 1/25/22
VICE PRESIDENT

8.0 AGENT AUTHORIZATION FORM (TCEQ-0599)



SIGNATURE PAGE:

Kyla Rudd
Applicant's Signature

7/22/2022
Date

THE STATE OF Oklahoma §

County of Tulsa §

BEFORE ME, the undersigned authority, on this day personally appeared Kyla Rudd known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 22 day of July, 2022.

Melissa Callahan
NOTARY PUBLIC

Melissa Callahan
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 5.3.23

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Jeremy M. Hahn
Print Name
Senior Vice President / Treasurer
Title - Owner/President/Other
of Chisholm Trail Developers Venture, Ltd.
Corporation/Partnership/Entity Name
have authorized Aaron Brewer, P.G.
Print Name of Agent/Engineer
of Apex Companies, LLC
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

[Handwritten Signature]
Applicant's Signature

6/23/2022
Date

THE STATE OF Texas §
County of Harris §

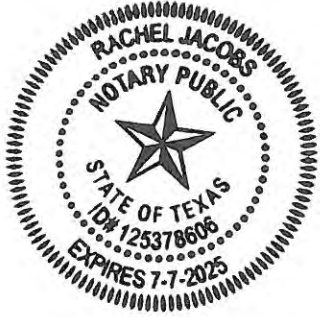
BEFORE ME, the undersigned authority, on this day personally appeared Jeremy M. John known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 23rd day of June, 2022.

[Handwritten Signature: Rachel Jacobs]
NOTARY PUBLIC

RACHEL JACOBS
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 7-7-2025



9.0 APPLICATION FEE FORM (TCEQ-0574)



Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: QuikTrip 4166

Regulated Entity Location: 701 W. Old Settler's Blvd. Round Rock, Texas

Name of Customer: QT South, LLC

Contact Person: Ms. Kyla Rudd

Phone: 918-615-7700

Customer Reference Number (if issued): CN 605786011

Regulated Entity Reference Number (if issued): RN 111392858

Austin Regional Office (3373)

Hays

Travis

Williamson

San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	6 Tanks	\$ 3,900
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: _____



Date: _____

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<i>Project</i>	<i>Project Area in Acres</i>	<i>Fee</i>
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

<i>Project</i>	<i>Cost per Linear Foot</i>	<i>Minimum Fee- Maximum Fee</i>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

<i>Project</i>	<i>Cost per Tank or Piping System</i>	<i>Minimum Fee- Maximum Fee</i>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150

10.0 CORE DATA FORM (TCEQ-10400)





TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission <i>(If other is checked please describe in space provided.)</i>		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization <i>(Core Data Form should be submitted with the program application.)</i>		
<input type="checkbox"/> Renewal <i>(Core Data Form should be submitted with the renewal form)</i>	<input type="checkbox"/> Other	
2. Customer Reference Number <i>(if issued)</i>	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number <i>(if issued)</i>
CN 605786011		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>			
6. Customer Legal Name <i>(If an individual, print last name first: eg: Doe, John)</i>		<i>If new Customer, enter previous Customer below:</i>	
QT South, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number <i>(if applicable)</i>
12299906	17306753751	73-0675375	
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party	
<input checked="" type="checkbox"/> Owner & Operator		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:	QT South, LLC		
	4705 South 129th East Avenue		
	City	Tulsa	State OK ZIP 74134 ZIP + 4
16. Country Mailing Information <i>(if outside USA)</i>		17. E-Mail Address <i>(if applicable)</i>	
		krudd@quiktrip.com	
18. Telephone Number	19. Extension or Code	20. Fax Number <i>(if applicable)</i>	
(918) 615-7233		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information <i>(If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)</i>	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
<i>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)</i>	
22. Regulated Entity Name <i>(Enter name of the site where the regulated action is taking place.)</i>	
QuikTrip 4166	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>		701 W. Old Settler's Blvd							
		City	Round Rock	State	TX	ZIP	78681	ZIP + 4	
24. County		Williamson							
Enter Physical Location Description if no street address is provided.									
25. Description to Physical Location:		1.56-acre property located in the southwest corner of W. Old Settler's Blvd and Chisholm Trail Road in Round Rock, Williamson County, Texas							
26. Nearest City					State		Nearest ZIP Code		
Round Rock					TX		78761		
27. Latitude (N) In Decimal:			30.535347		28. Longitude (W) In Decimal:		-97.695628		
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds	
29. Primary SIC Code (4 digits)			30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
5541					447110				
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>									
Gas station with convenience store									
34. Mailing Address:		4705 South 129th East Avenue							
		City	Tulsa	State	OK	ZIP	74134	ZIP + 4	
35. E-Mail Address:		krudd@quiktrip.com							
36. Telephone Number			37. Extension or Code			38. Fax Number <i>(if applicable)</i>			
(918) 615-7233						() -			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input checked="" type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Aaron Brewer		41. Title:	Sr Project Manager	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512) 250-2600	2116	(512) 250-2940	Aaron.Brewer@apexcos.com		

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Apex Companies, LLC	Job Title:	Sr Project Manager		
Name <i>(In Print)</i> :	Aaron Brewer, P.G.	Phone:	(512) 250-2600		
Signature:			Date:	7/22/2022	