

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: Circle K				2. Regulated Entity No.: RN102432044					
3. Customer Name: Circle K				4. Customer No.:					
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):		1.950	
9. Application Fee:	\$1,950		10. Permanent BMP(s):				N/A		
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):				3		
13. County:	Bexar		14. Watershed:				Leon 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.)	—	—	—
Region (1 req.)	—	—	—
County(ies)	—	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

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

Jack Greer

Print Name of Customer/Authorized Agent



11/08/2023

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):

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: Jack Greer

Date: 11/08/2023

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Circle K Stores, Inc.
2. County: Bexar
3. Stream Basin: Leon Creek
4. Groundwater Conservation District (If applicable): _____
5. Edwards Aquifer Zone:
 Recharge Zone
 Transition Zone
6. Plan Type:
 WPAP
 SCS
 Modification
 AST
 UST
 Exception Request

7. Customer (Applicant):

Contact Person: Marcella Rocha
Entity: Circle K Stores, Inc.
Mailing Address: 19500 Bulverde Rd.
City, State: San Antonio, TX Zip: 78259
Telephone: (210) 692-2111 FAX: _____
Email Address: Marcella.Rocha@circlek.com

8. Agent/Representative (If any):

Contact Person: Jack Greer
Entity: Morris & Associates, Engineers, LLC
Mailing Address: 14139 Huffmeister Rd.
City, State: Cypress, TX Zip: _____
Telephone: (832) 331-3713 FAX: _____
Email Address: j.greer@morrisassoc.com

9. Project Location:

- The project site is located inside the city limits of _____.
- The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of San Antonio
- 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.

SW Corner of Culebra and Talley Road - 14100 Culebra Rd., San Antonio, TX 78254

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: completed

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:

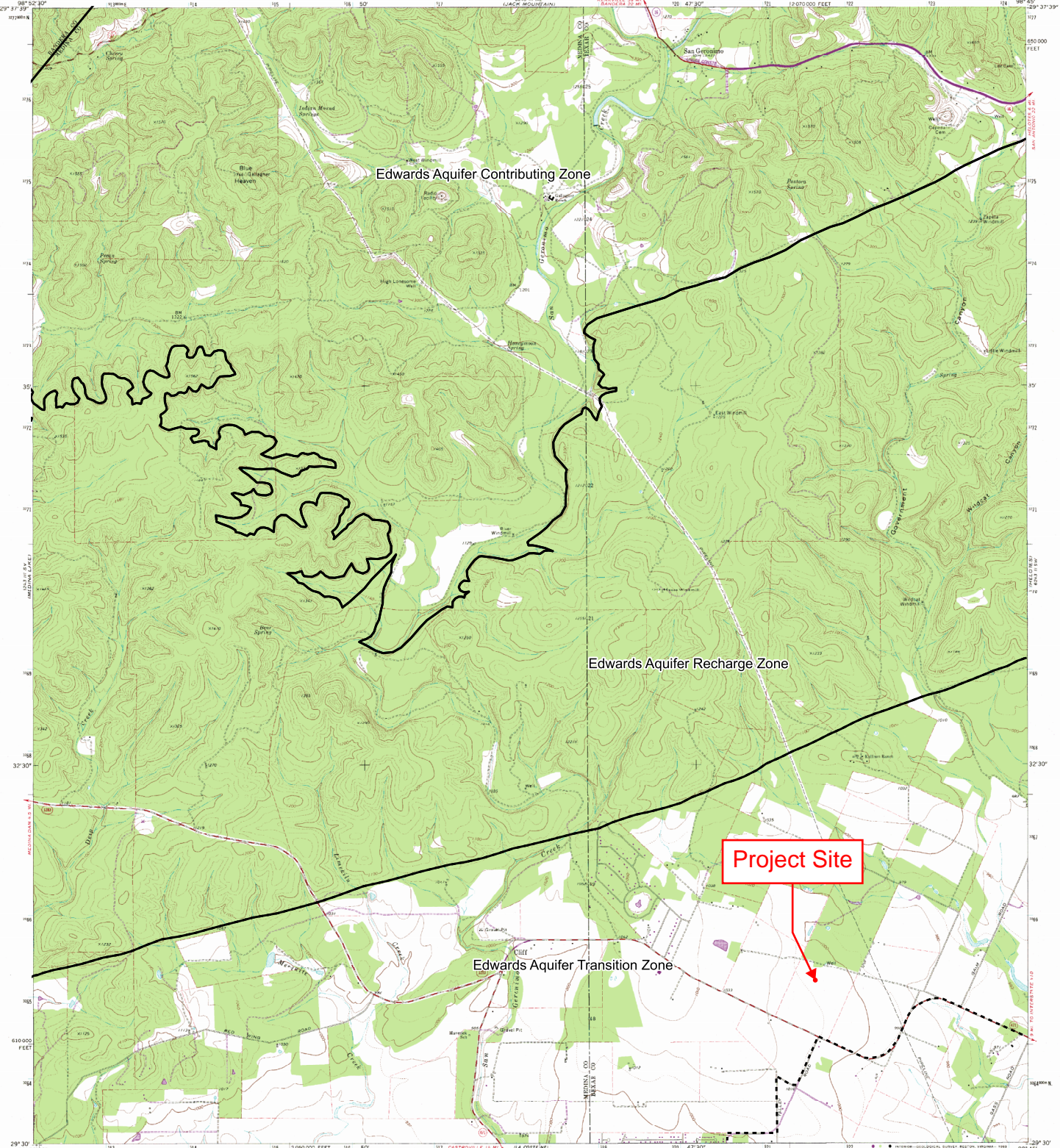
- For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- For a UST Facility Plan or Modification or an AST Facility 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:

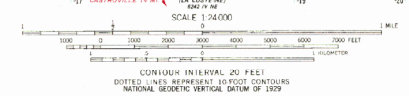
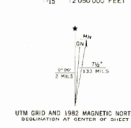
- TCEQ cashier
- Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

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.



Mapped, edited, and published by the Geological Survey
Control by USGS and NGS/NOAA
Topography by photogrammetric methods from aerial
photographs taken 1969. Field checked 1970
Polyconic projection. 10,000-foot grid ticks based on Texas
coordinate system, south central zone. 1000-meter Universal
Transverse Mercator grid ticks. Zone 14, shown on this
1927 North American Datum. To place on the predicted
North American Datum 1983 move the projection lines 20
meters south and 50 meters east as shown by
dashed corner ticks
Fine red dashed lines indicate selected fence lines
Revisions shown in purple and unnotched compiled from
aerial photographs taken 1979 and other sources. This
information not field checked. Map edited 1982



ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U. S. Route
	State Route

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

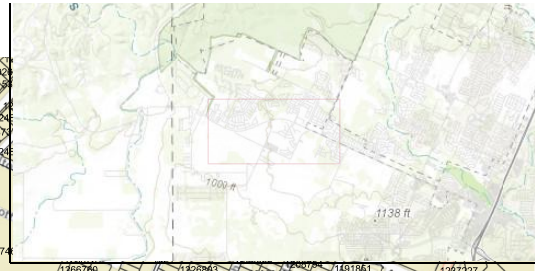
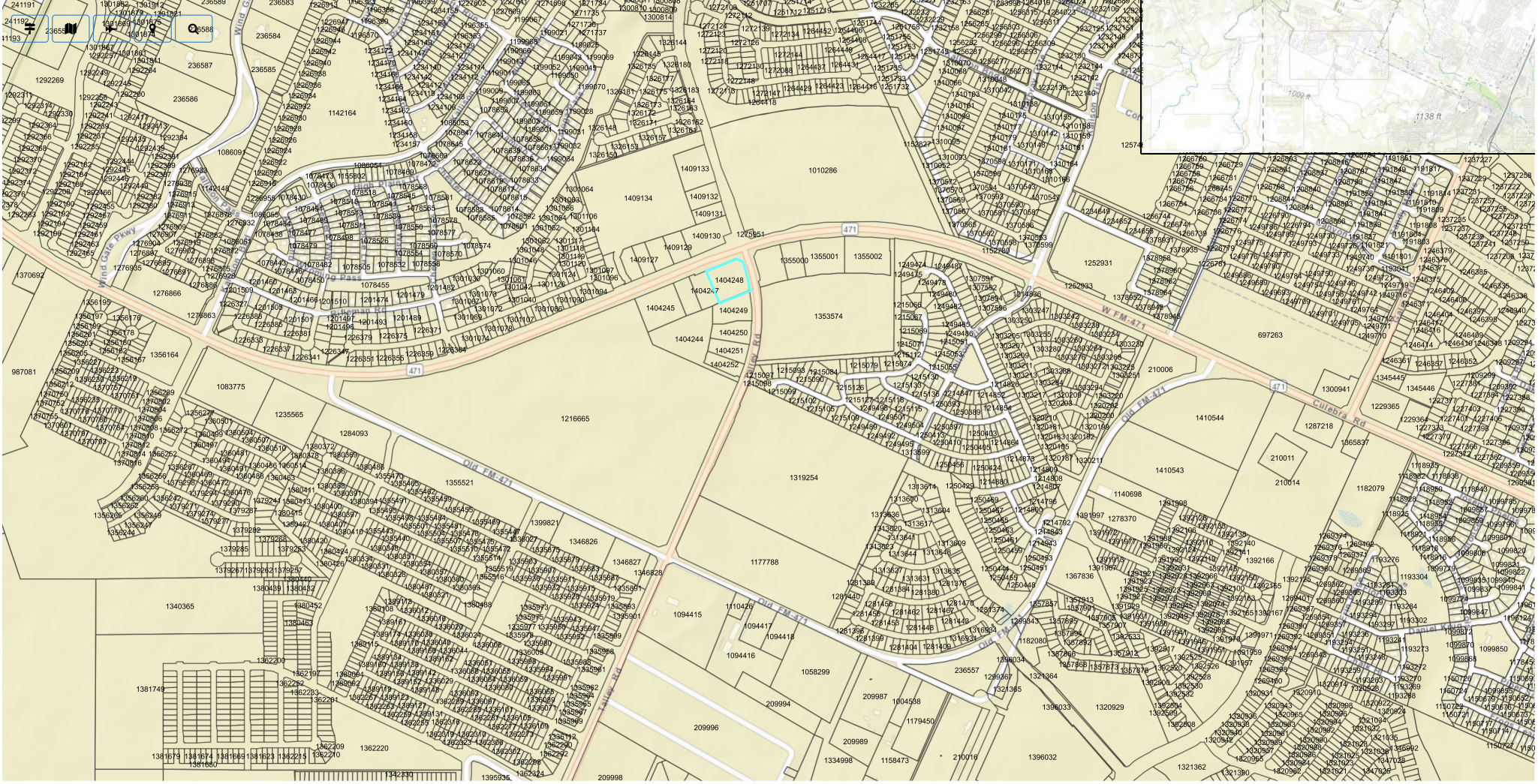
2998-321

SAN GERONIMO, TEX. A2930-19845-7.5
1970
PRINTED/REVISED 1982
DMA 6243 10 95-SERIES V82



Regulatory Zones
30 TAC Chapter 213- Edwards Aquifer
Effective March 1974

This map was produced by the Groundwater Planning and Assessment Team of the Texas Commission on Environmental Quality to detail the boundaries of the regulatory zones of the Edwards Aquifer Protection Program, as described in Texas Administrative Code Title 30, Part 1, §213.3. No other claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information about the Edwards Aquifer Protection Program, please contact the TCEQ Regional Offices in San Antonio or Austin. Printed June 2006.



0.2km
600ft



2023-02-09 - ISSUE FOR BID

CIRCLE K STORES, INC.
19500 BULVERDE RD. SUITE 100
SAN ANTONIO, TX 78259

**CIRCLE K STORE #XXXXXXXX
NEW TO INDUSTRY STORE**

**14100 CULEBRA RD,
SAN ANTONIO, TX 78254**

SHEET INDEX table listing drawing items and their quantities.

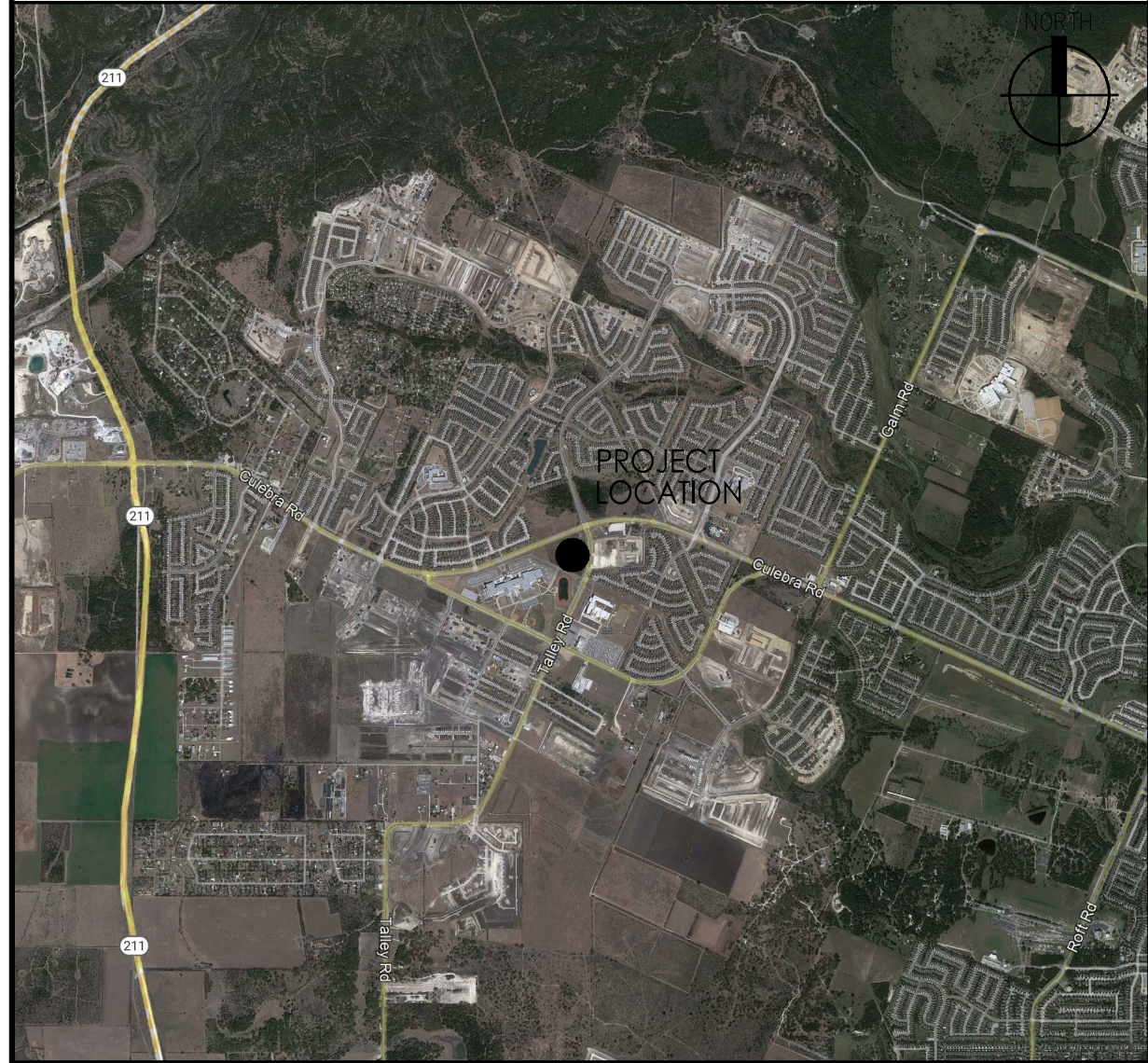
CIRCLE K STORES INC. 1130 WEST WARNER ROAD SUITE B TEMPE, AZ 85284 602-728-8000. Includes Morris + Associates logo and contact information.

COPYRIGHT NOTICE text regarding drawing ownership and reproduction rights.

Professional Engineer Seal for Geoffrey Ty Turner, License #90333, dated 2/9/2024.

REVISIONS table with columns for # and DATE.

PROJECT LOCATION



PROJECT SITE



SCOPE OF WORK

PROPOSAL FOR A NEW CONVENIENCE STORE WITH ASSOCIATED FUEL SALES CONSISTING OF A 5,200 S.F. CONVENIENCE STORE AND A 5,547 S.F. FUEL CANOPY WITH (9) FUEL PUMPS.

CONSULTANTS

CIVIL ENGINEER: MORRIS + ASSOCIATES 14139 HUFFMEISTER ROAD CYPRESS, TX 77429 832-334-5001. ARCHITECT: THE DIMENSION GROUP 10755 SANDHILL RD DALLAS, TX 75238 214-343-9400. FUEL SYSTEM ENGINEER: MORRIS + ASSOCIATES 14139 HUFFMEISTER ROAD CYPRESS, TX 77429 832-334-5001.

PROJECT: NIT CIRCLE K STORE #XXXXXXXX 14100 CULEBRA RD, SAN ANTONIO, TX 78254 SHEET TITLE: COVER SHEET

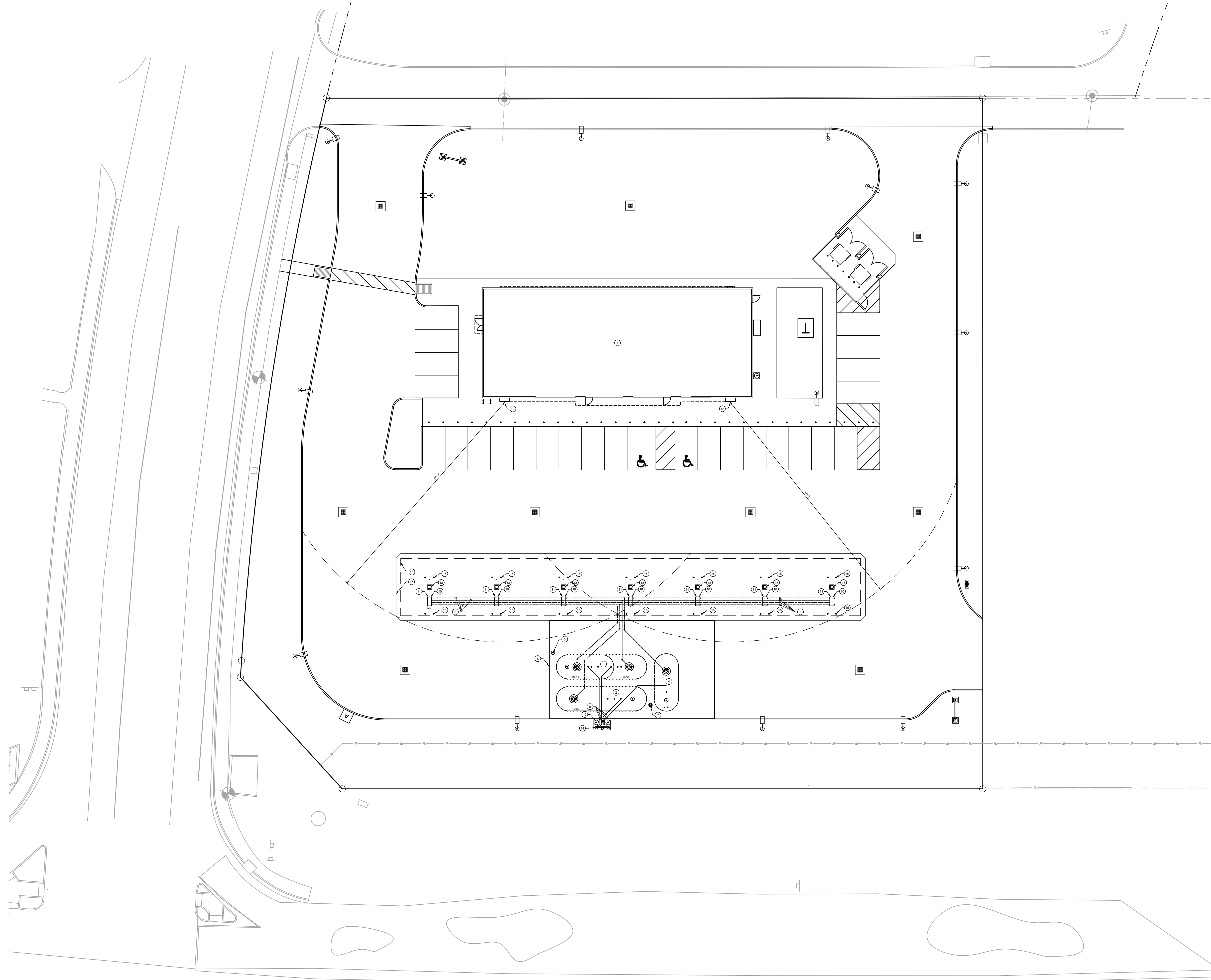
PROJECT #: 4647

SHEET NO.

C001

Vertical text on the far left edge of the page.

Z:\Shared Folders\PROJECTS\CIRCLE K\NTI\4647) SMC CULEBRA & TALLEY - SAN ANTONIO, TX\DWG\FUELPRODUCTION\CCK-FA-TK101 - SITE PIPING PLAN.dwg, 2/9/2024, 2:29:09 PM, DWG To PDF.pc3

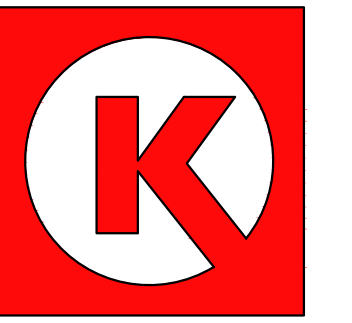


KEY SCHEDULE: #

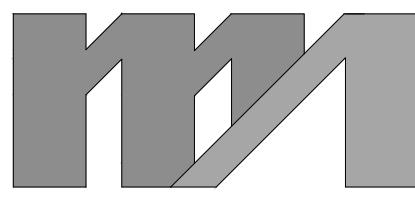
1. CIRCLE K STORE; REF. ARCH
2. REGULAR UL DOUBLE WALL UNDERGROUND STORAGE TANK; REF. TK301
3. PREMIUM UL/E0 DUAL COMPARTMENT DOUBLE WALL UNDERGROUND STORAGE TANK; REF. TK301
4. DIESEL DOUBLE WALL UNDERGROUND STORAGE TANK; REF. TK301
5. TANK PAD ; REF. TK301
6. OBSERVATION WELL (4"); REF. DTL. 1/TK502
7. OBSERVATION WELL (12"); REF. DTL. 2/TK502
8. 2" DOUBLE WALL FIBERGLASS PRODUCT PIPING, PIPE TO SLOPE AT MINIMUM SLOPE OF 1/8" PER FOOT BACK TO TANK
9. 2" SINGLE WALL FIBERGLASS VENT PIPING, PIPE TO SLOPE AT MINIMUM SLOPE OF 1/8" PER FOOT BACK TO TANK
10. UNDER DISPENSER CONTAINMENT SUMP; REF. TK503
11. DISPENSER; REF. TK504
12. EMERGENCY STOP BUTTON PLACED 20' MINIMUM/100' MAXIMUM FROM DISPENSER PER NFPA 30A/LOCAL FIRE CODE; REF ELECTRICAL DWGS.
13. CANOPY COLUMN; REF. ARCH
14. VENT STACK; REF. TK504
15. BOLLARD; REF TK504
16. CANOPY; REF. ARCH
17. CANOPY APRON; REF. CIVIL

LEGEND

- PREMIUM UNLEADED _____
- REGULAR UNLEADED _____
- E0 _____
- DIESEL _____
- VENT _____

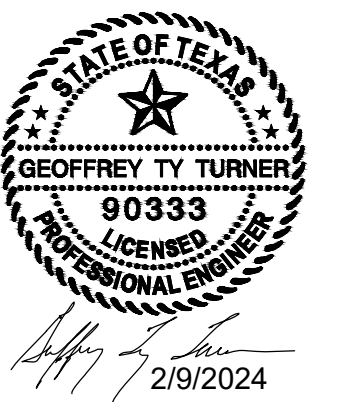


CIRCLE K STORES INC.
 1130 WEST WARNER ROAD
 SUITE B
 TEMPE, AZ 85284
 602-728-8000



morris + associates
 14139 HUFFMEISTER ROAD
 CYPRESS, TX, 77429
 PHONE: (832) 334-5000
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FIRM #F-1449

REVISIONS

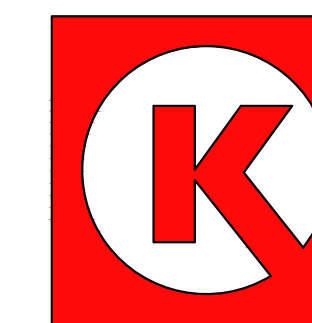
#	DATE

PROJECT: NTI
CIRCLE K STORE #XXXXXX
 14100 CULEBRA RD,
 SAN ANTONIO, TX 78254
 SHEET TITLE:
SITE PIPING PLAN

PROJECT #: 4647

SHEET NO.

TK101

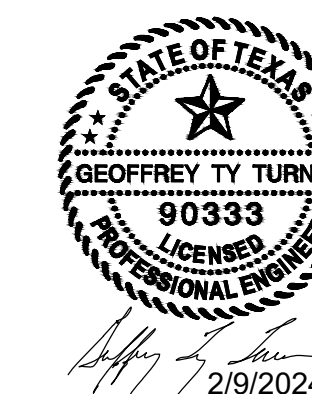


CIRCLE K STORES INC.
 1130 WEST WARNER ROAD
 SUITE B
 TEMPE, AZ 85284
 602-728-8000



morris + associates
 14139 HUFFMEISTER ROAD
 CYPRESS, TX, 77429
 PHONE: (832) 334-5000
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FIRM #F-1449

REVISIONS

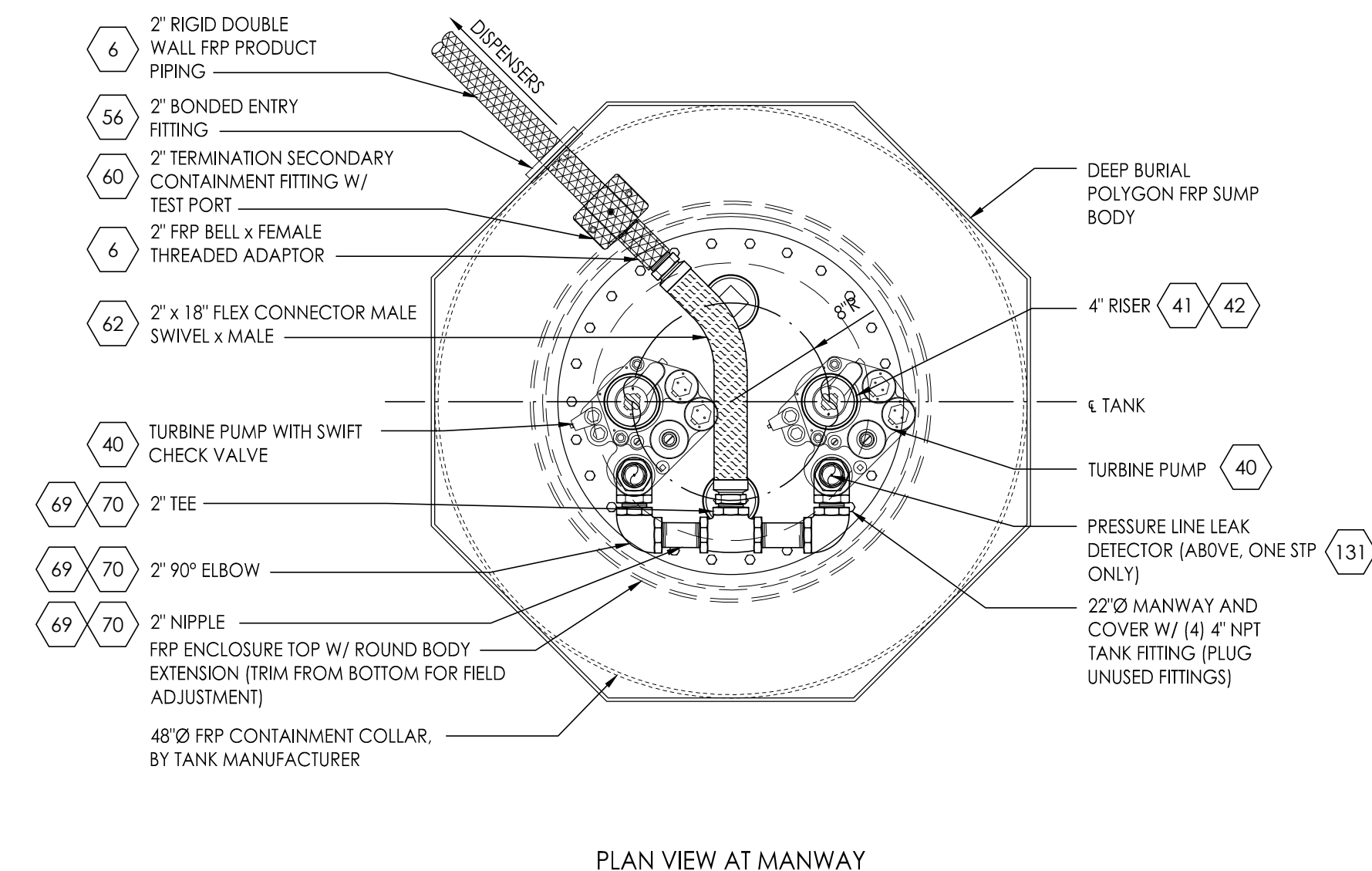
#	DATE

PROJECT: NIT
CIRCLE K STORE #XXXXXX
 14100 CULEBRA RD.
 SAN ANTONIO, TX 78254
 SHEET TITLE:
TANK SUMP DETAILS

PROJECT #: 4647

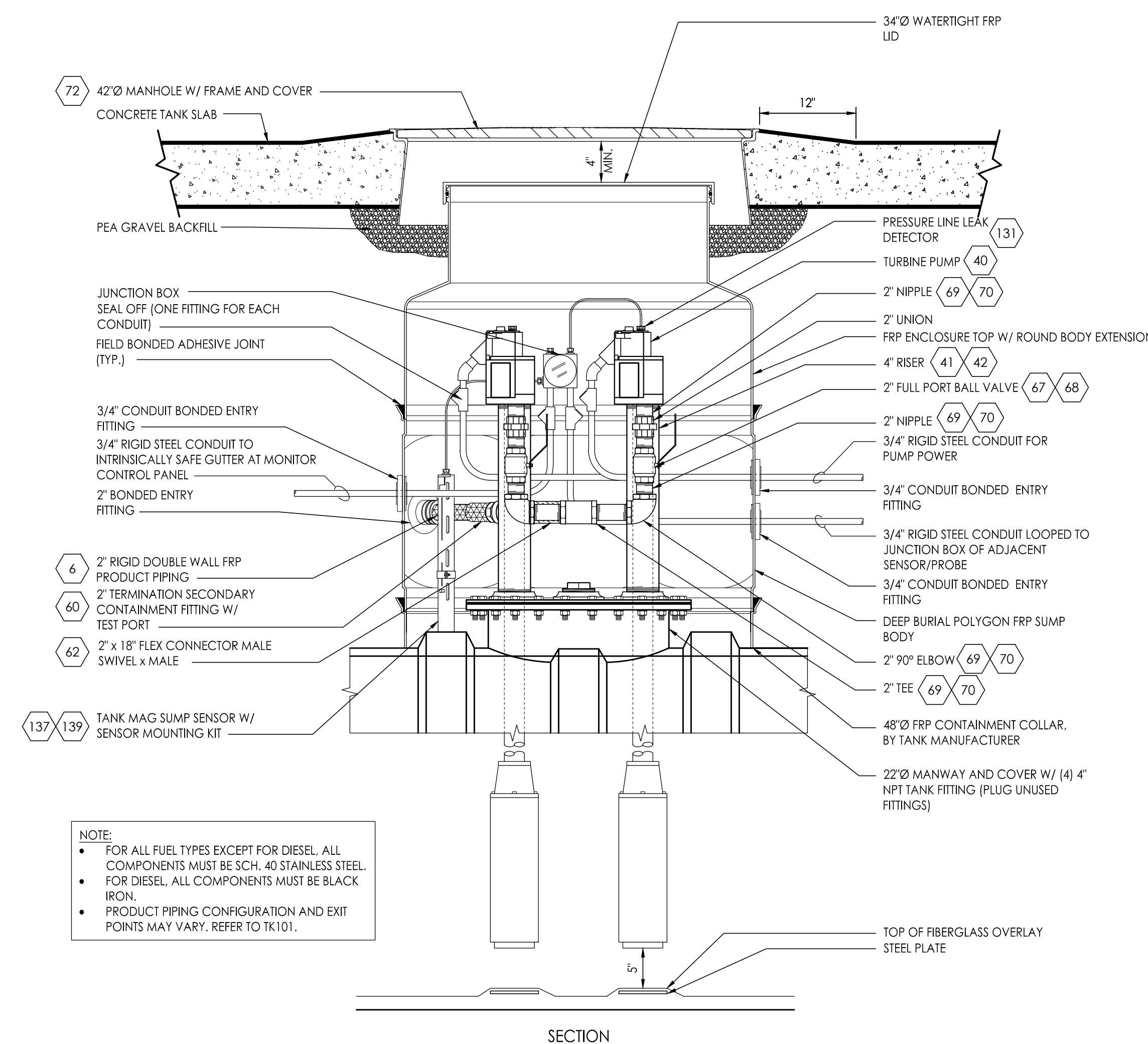
SHEET NO.

TK500



1 TANK SUMP DETAIL - PLAN

SCALE: NTS

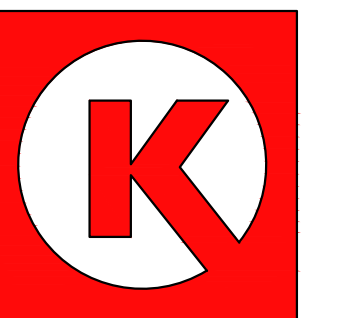


NOTE:
 • FOR ALL FUEL TYPES EXCEPT FOR DIESEL ALL COMPONENTS MUST BE SCH. 40 STAINLESS STEEL.
 • FOR DIESEL ALL COMPONENTS MUST BE BLACK IRON.
 • PRODUCT PIPING CONFIGURATION AND EXIT POINTS MAY VARY. REFER TO TK101.

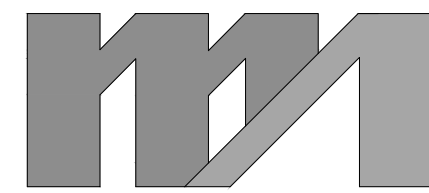
2 TANK SUMP DETAIL - PROFILE

SCALE: NTS

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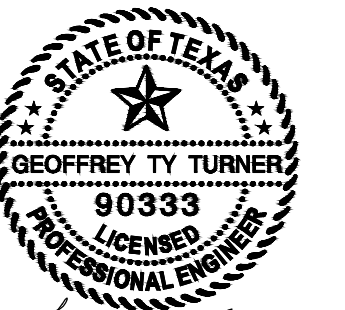


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 TEMPE, AZ 85284
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Geoffrey Ty Turner
 2/9/2024

FIRM #F-1449

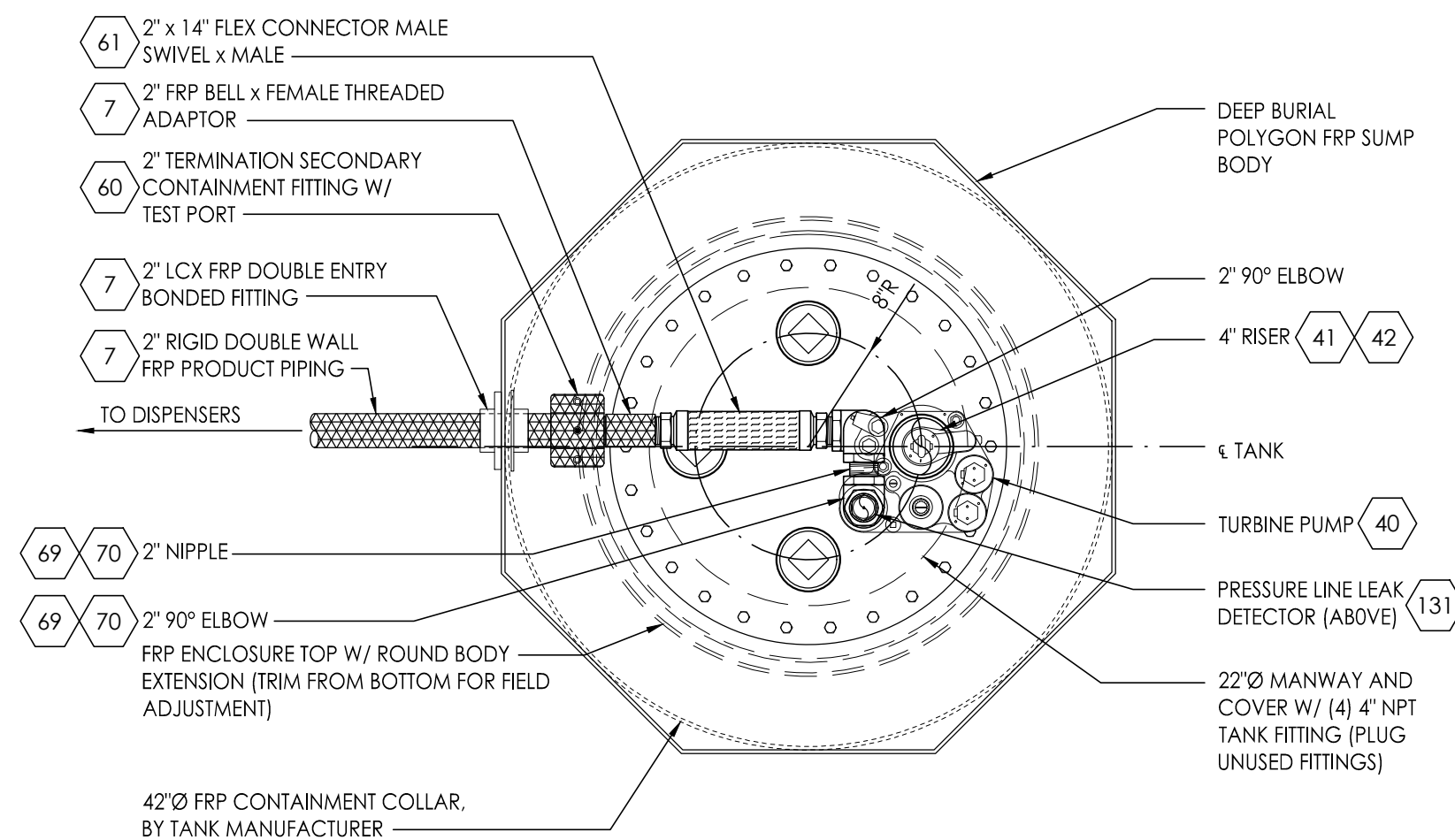
REVISIONS

#	DATE

PROJECT: NIT
CIRCLE K STORE #XXXXXX
 14100 CULEBRA RD,
 SAN ANTONIO, TX 78254
 SHEET TITLE:
TANK SUMP DETAILS

PROJECT #:
 SHEET NO.
TK501

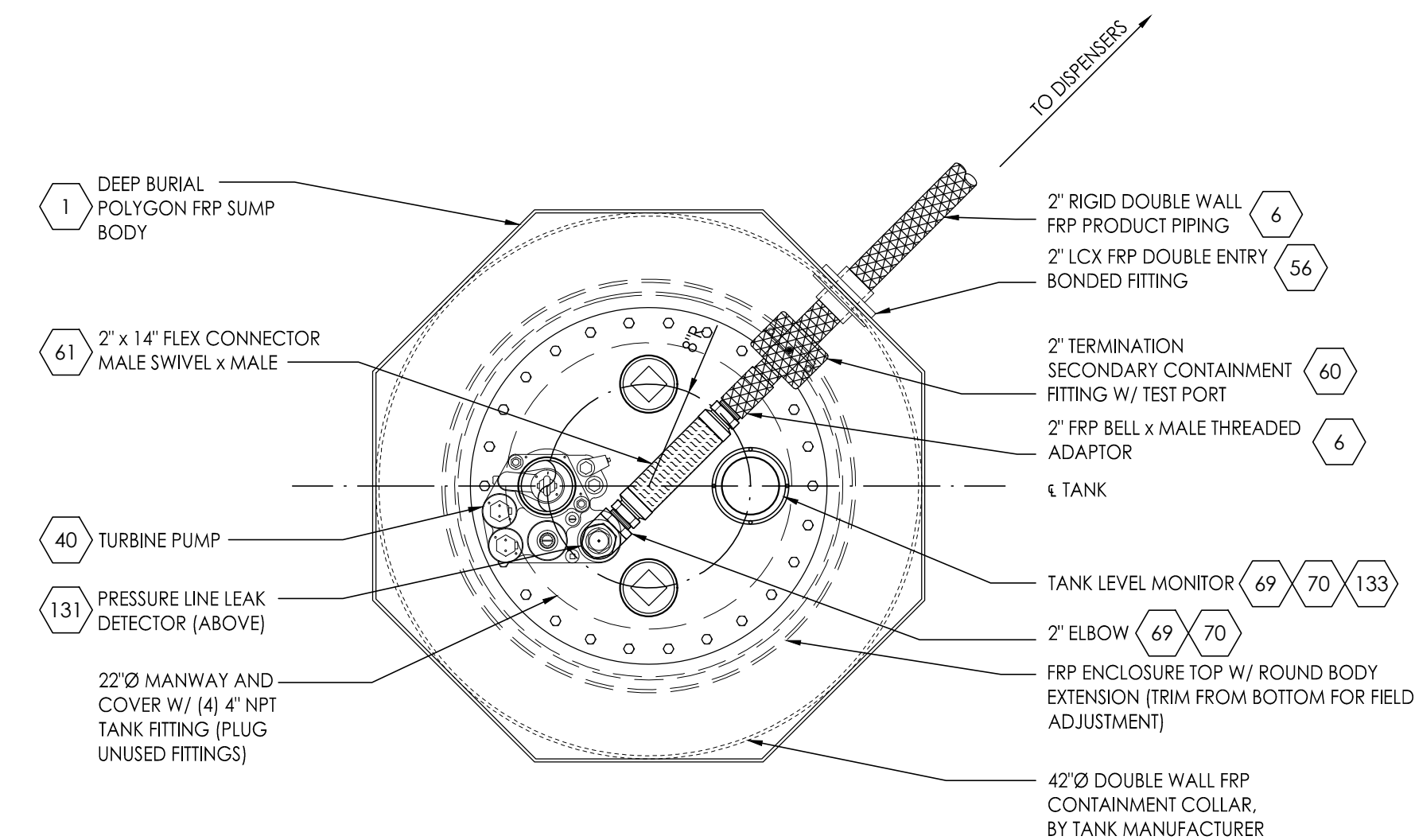
PROJECT #:
 SHEET NO.
TK501



NOTE:
 • FOR ALL FUEL TYPES EXCEPT FOR DIESEL, ALL COMPONENTS MUST BE SCH. 40 STAINLESS STEEL.
 • FOR DIESEL, ALL COMPONENTS MUST BE BLACK IRON.
 • PRODUCT PIPING CONFIGURATION AND EXIT POINTS MAY VARY. REFER TO TK101.

1 TANK SUMP DETAIL - PLAN

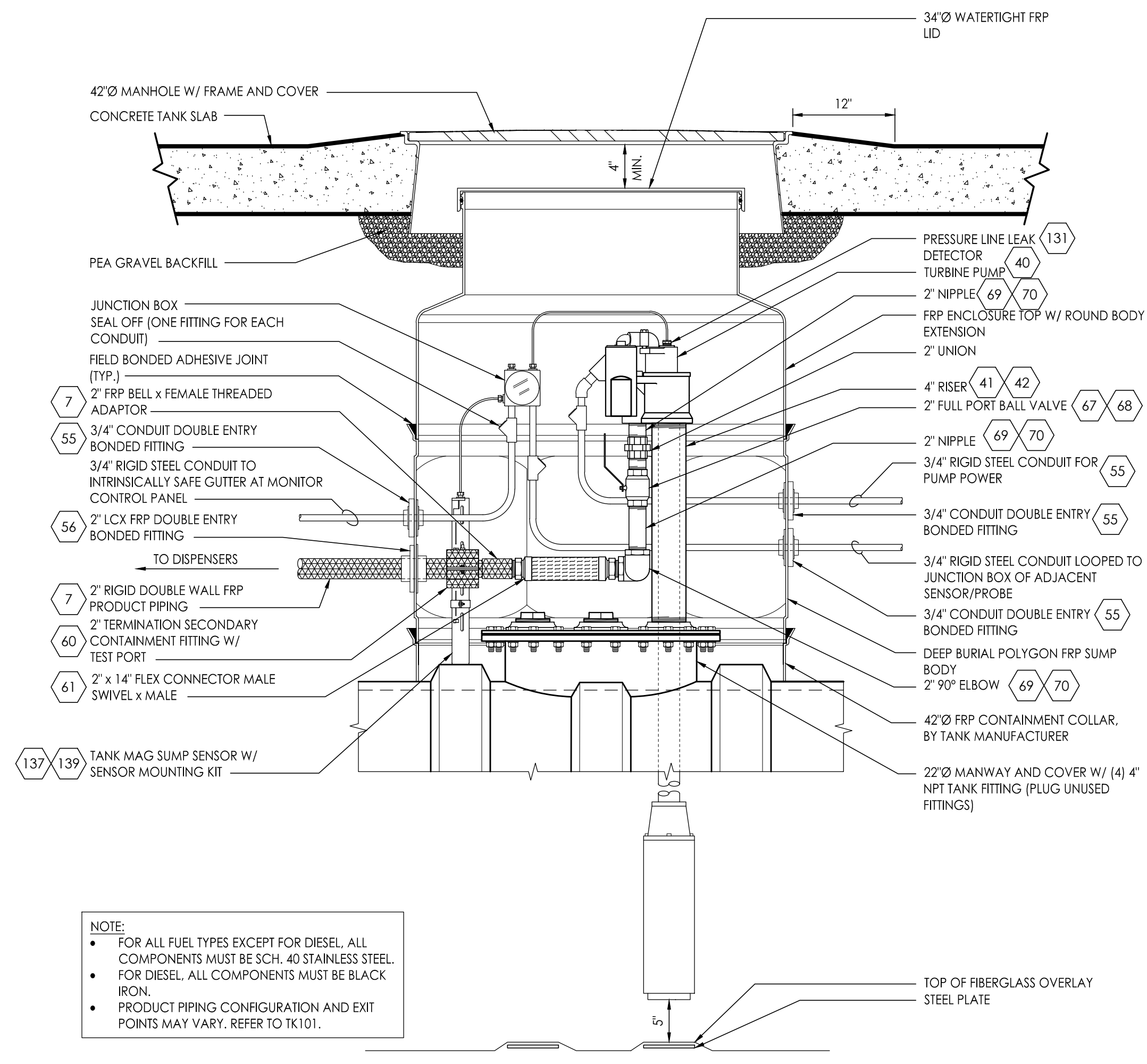
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NOTE:
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 • FOR DIESEL, ALL COMPONENTS MUST BE BLACK IRON.
 • PRODUCT PIPING CONFIGURATION AND EXIT POINTS MAY VARY. REFER TO TK101.

3 TANK SUMP DETAIL - PLAN

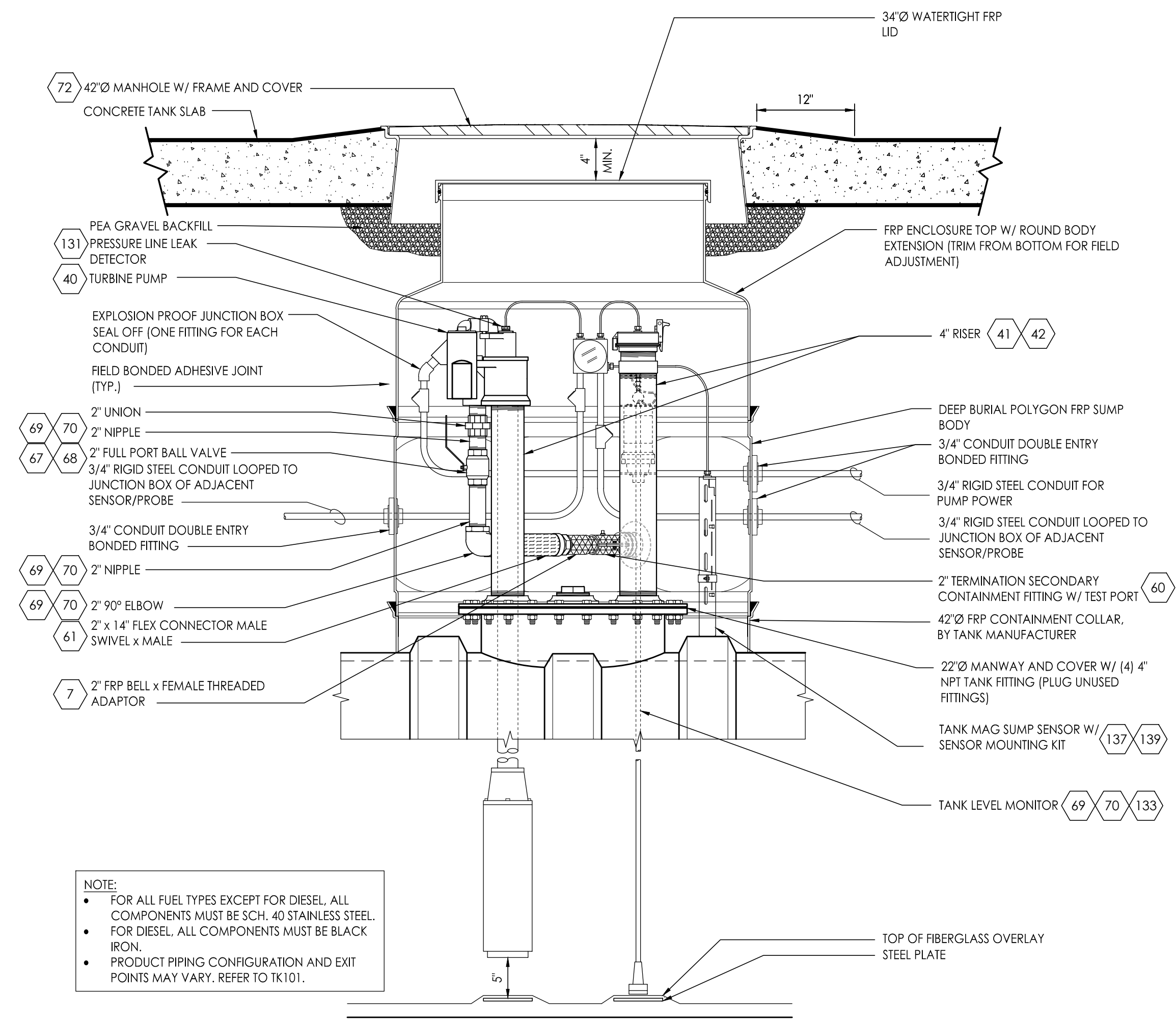
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NOTE:
 • FOR ALL FUEL TYPES EXCEPT FOR DIESEL, ALL COMPONENTS MUST BE SCH. 40 STAINLESS STEEL.
 • FOR DIESEL, ALL COMPONENTS MUST BE BLACK IRON.
 • PRODUCT PIPING CONFIGURATION AND EXIT POINTS MAY VARY. REFER TO TK101.

2 TANK SUMP DETAIL - PROFILE

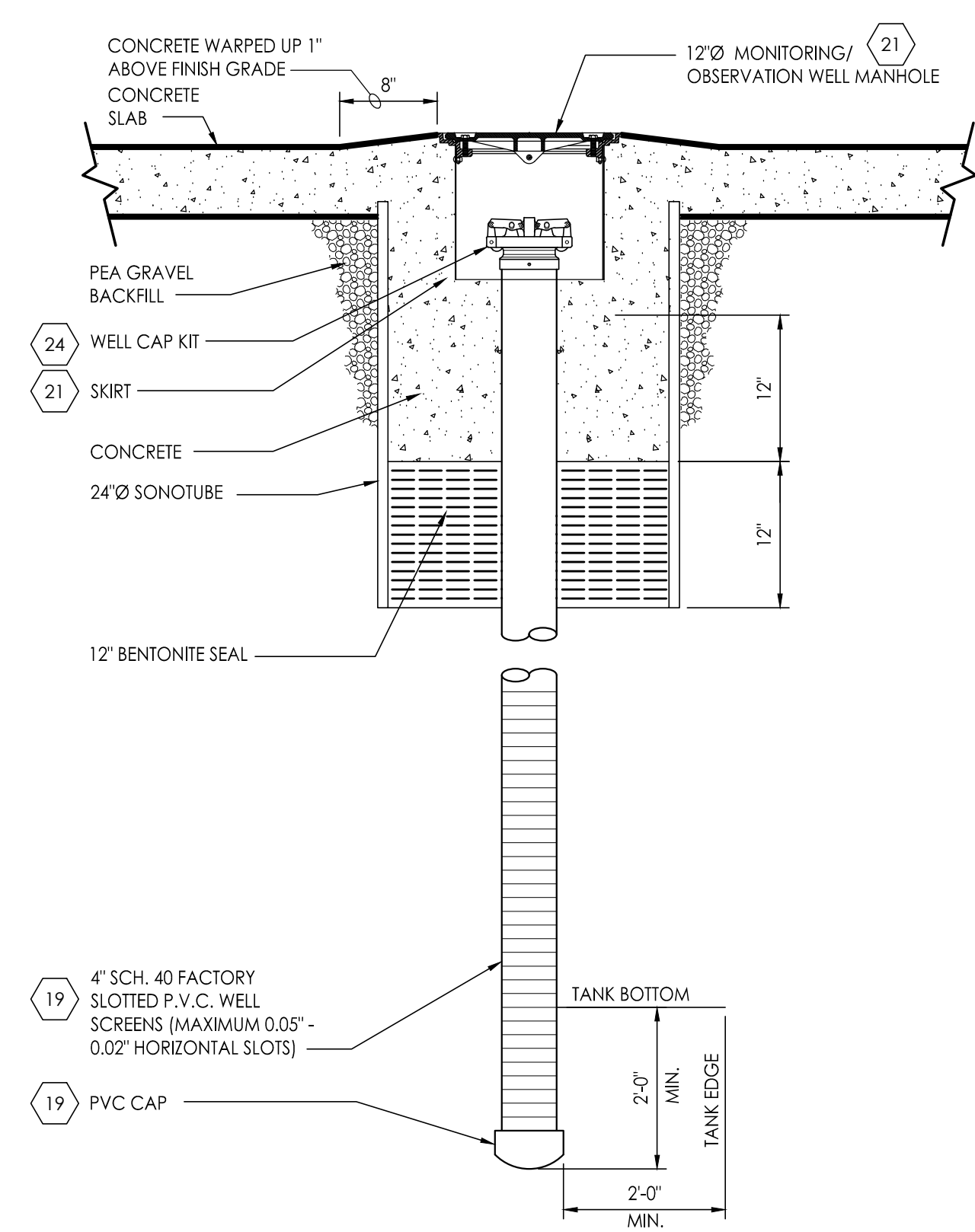
SCALE: NTS



NOTE:
 • FOR ALL FUEL TYPES EXCEPT FOR DIESEL, ALL COMPONENTS MUST BE SCH. 40 STAINLESS STEEL.
 • FOR DIESEL, ALL COMPONENTS MUST BE BLACK IRON.
 • PRODUCT PIPING CONFIGURATION AND EXIT POINTS MAY VARY. REFER TO TK101.

4 TANK SUMP DETAIL - PROFILE

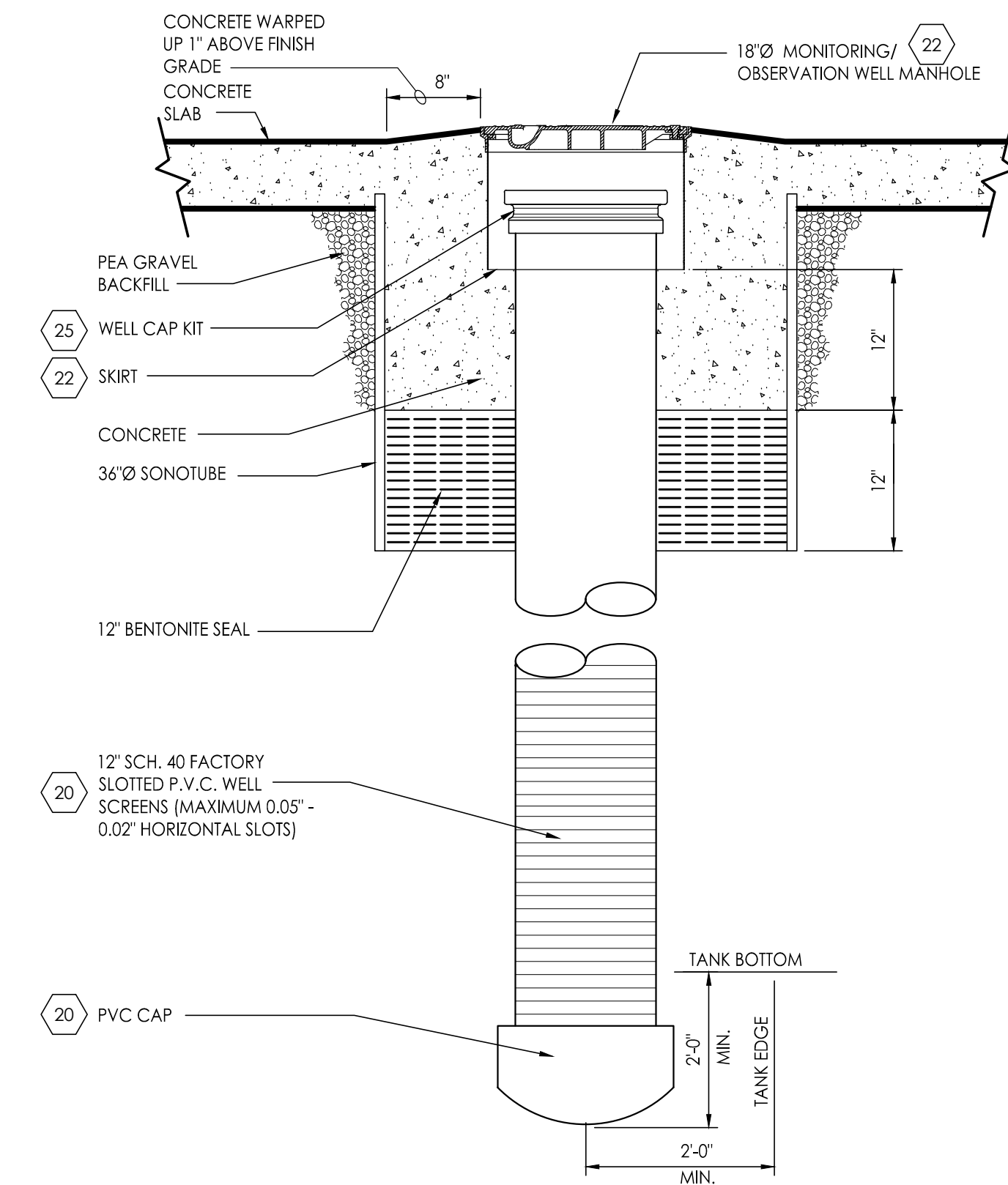
SCALE: NTS



1

OBSERVATION WELL DETAIL (4")

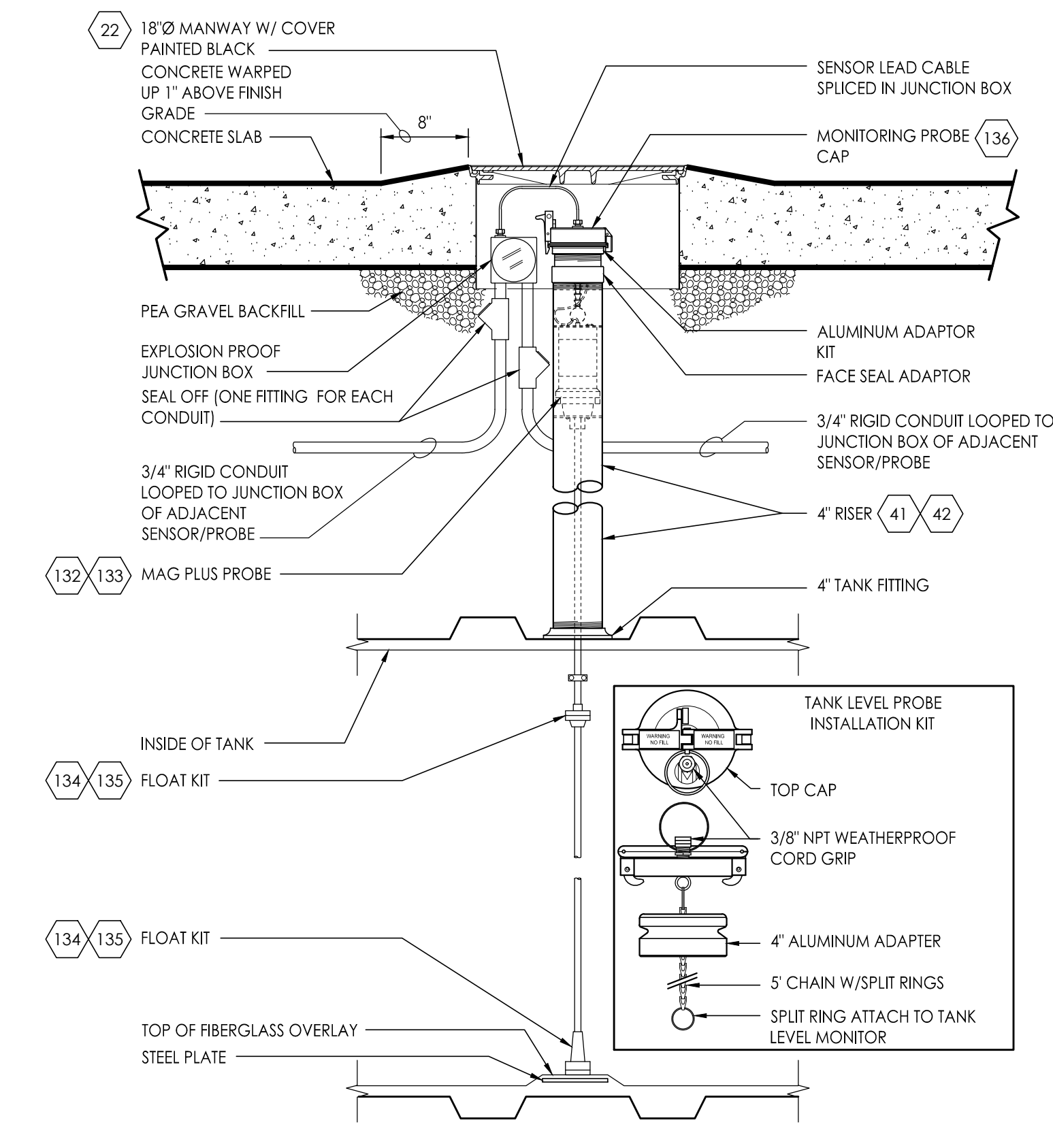
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2

OBSERVATION WELL DETAIL (12")

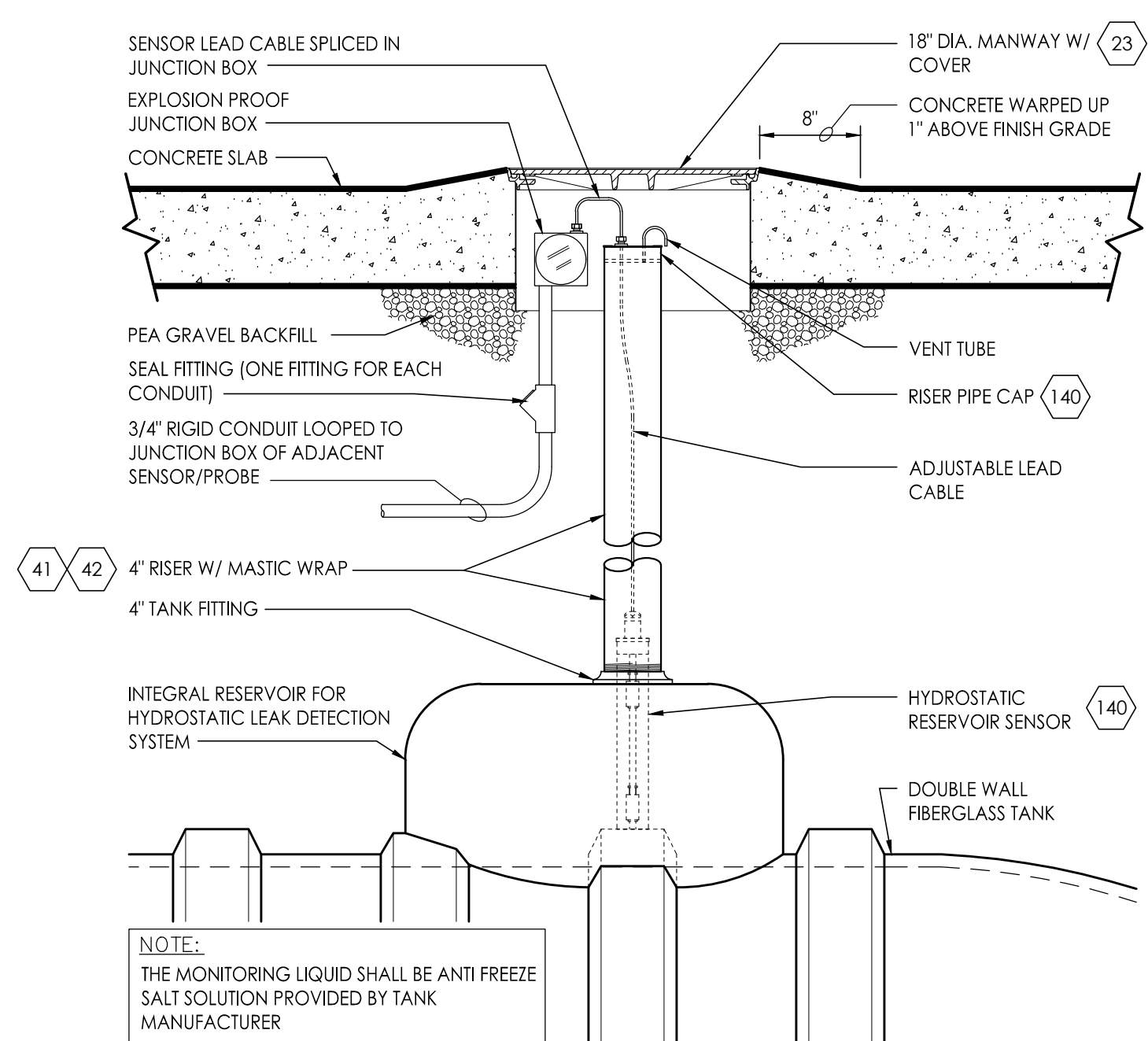
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3

TANK LEVEL MONITOR DETAIL

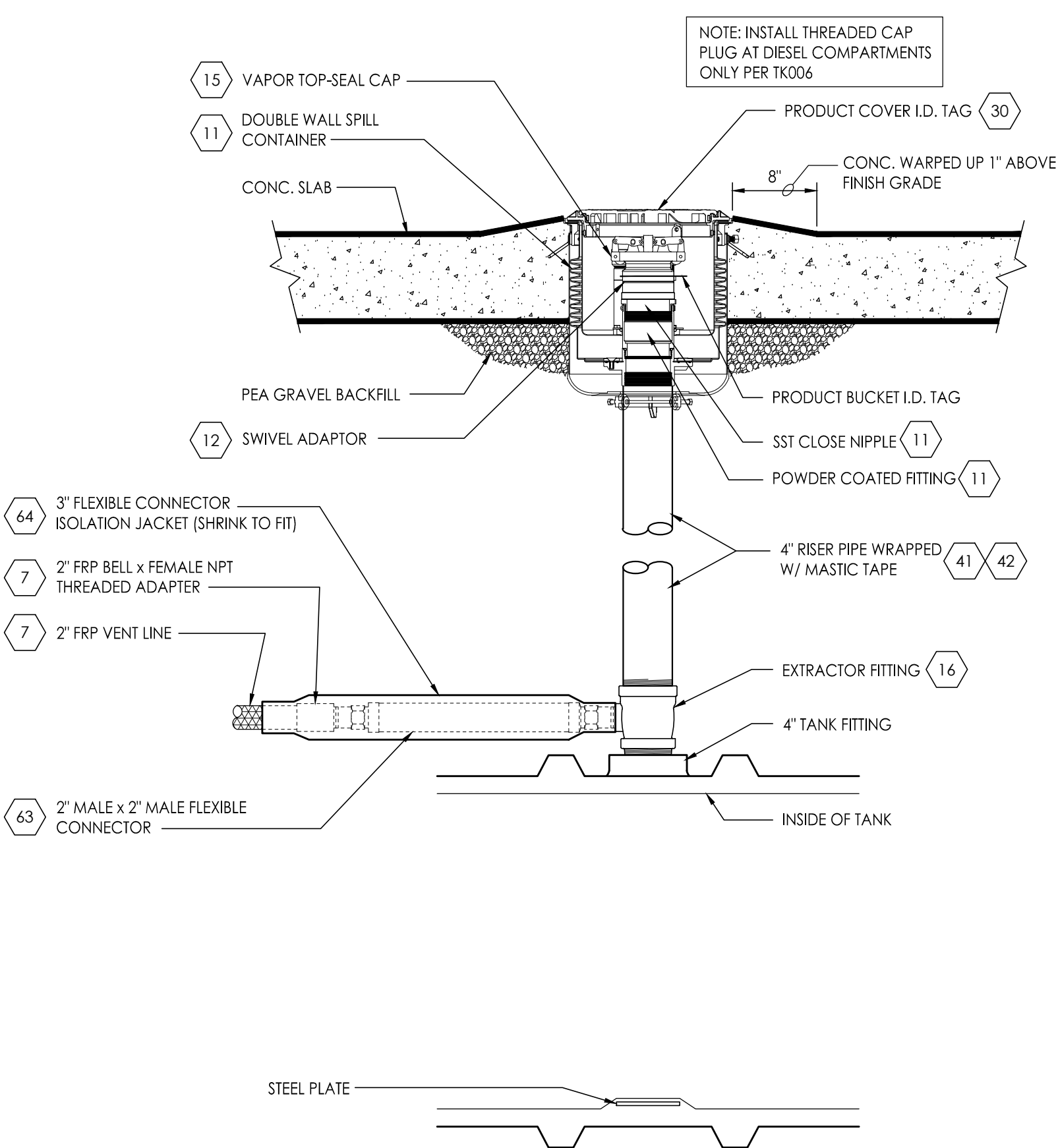
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4

INTERSTITIAL MONITOR DETAIL

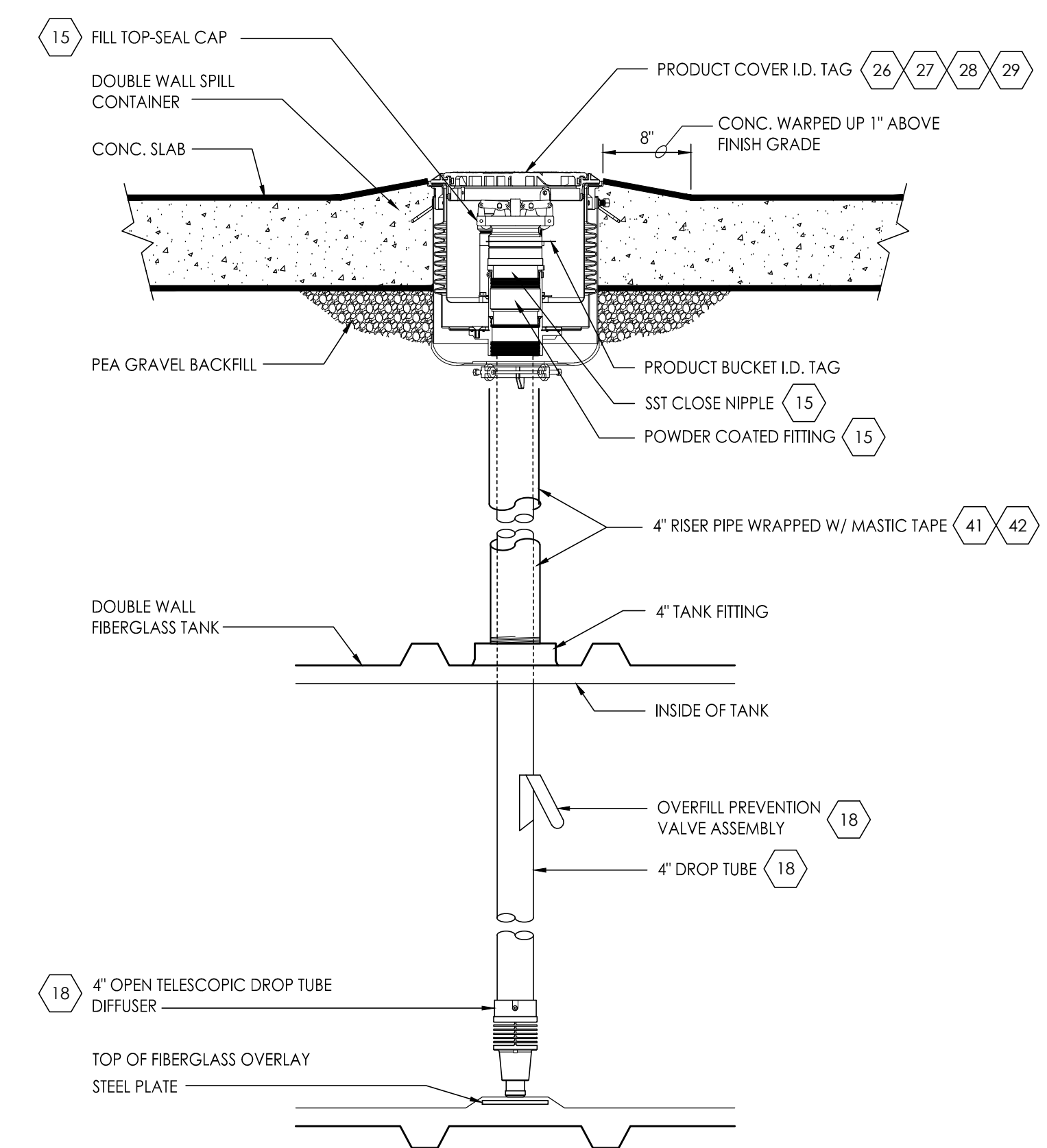
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5

VAPOR RISER DETAIL

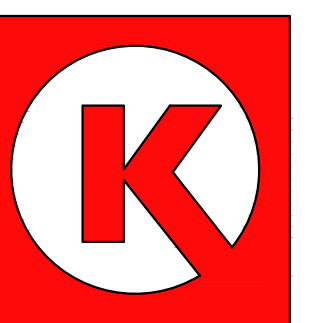
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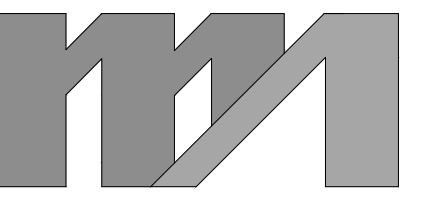
6

FILL RISER DETAIL

SCALE: NONE



CIRCLE K STORES INC.
1130 WEST WARNER ROAD
SUITE B
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602-728-8000



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FIRM #F-1449

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DATE

PROJECT: NIT
CIRCLE K STORE #XXXXXX
14100 CULEBRA RD,
SAN ANTONIO, TX 78254

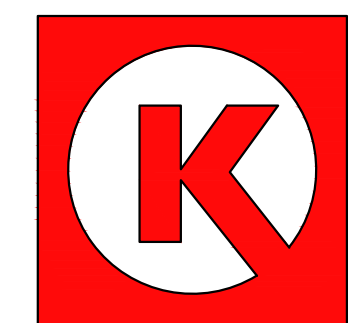
SHEET TITLE:
TANK TOP HARDWARE DETAILS

PROJECT #: 4647

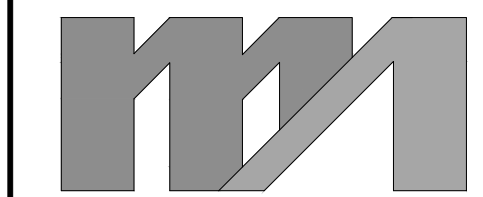
SHEET NO.

TK502

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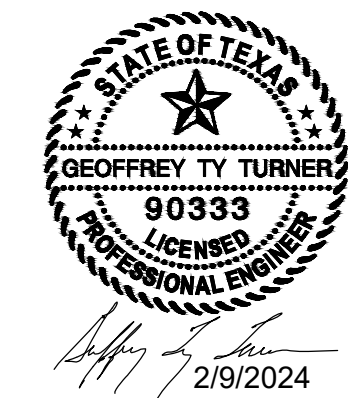


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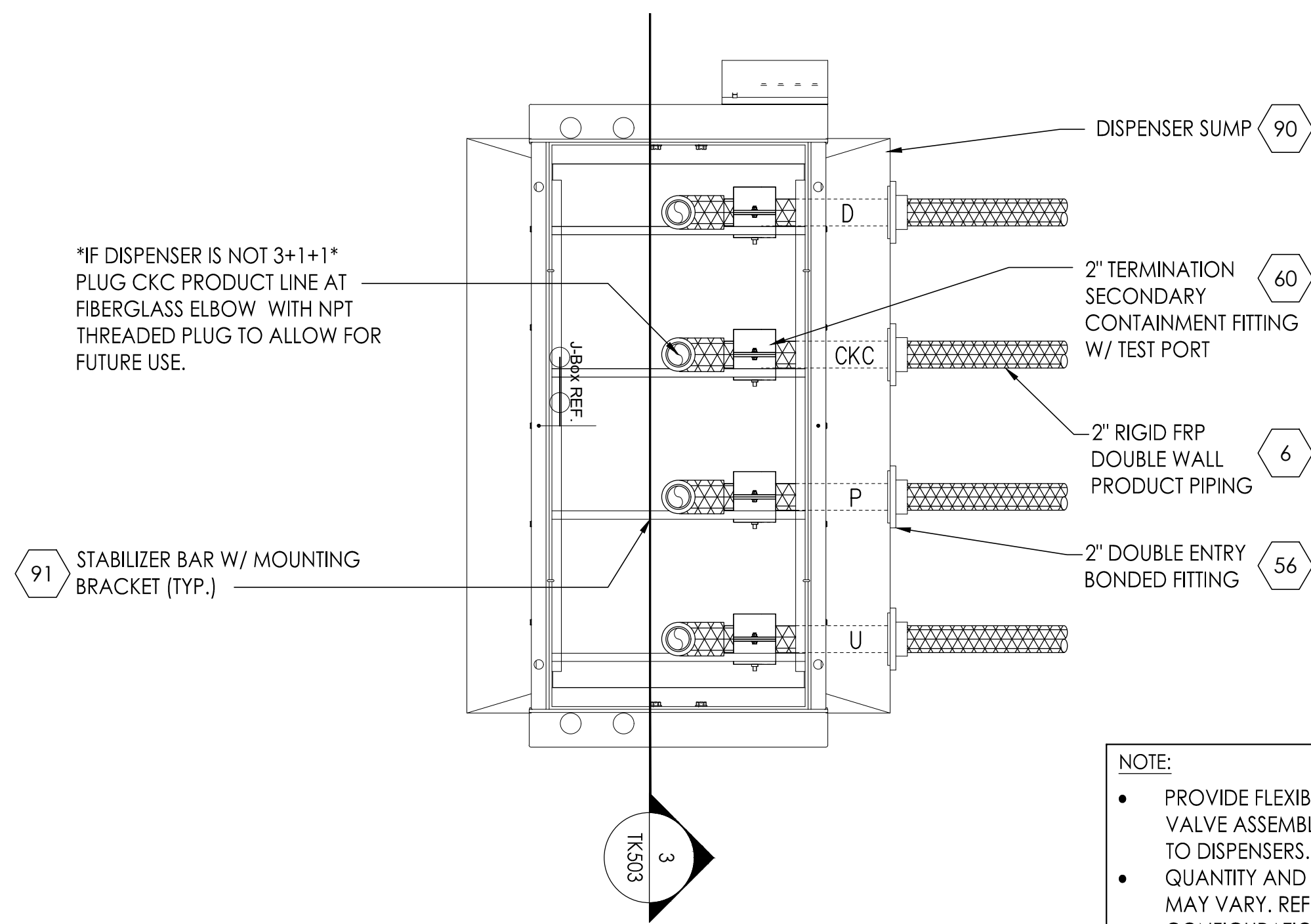
#	DATE

PROJECT: NIT1
CIRCLE K STORE #XXXXXXXX
14100 CULEBRA RD.,
SAN ANTONIO, TX 78254
SHEET TITLE: DISPENSER SUMP DETAILS

PROJECT #: 4647

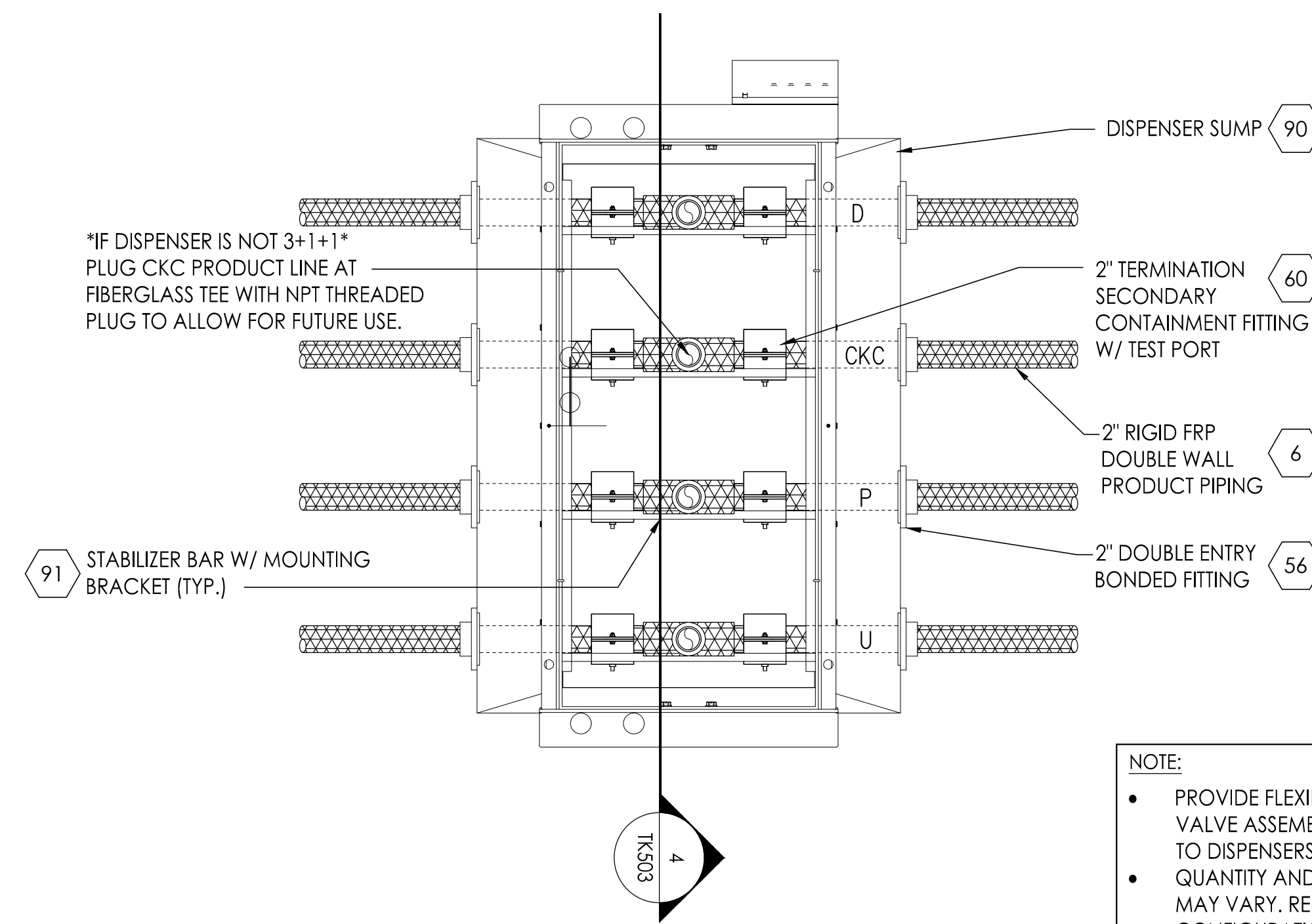
SHEET NO.

TK503



NOTE:

- PROVIDE FLEXIBLE CONNECTORS AND SHEAR VALVE ASSEMBLIES AT PRODUCT CONNECTIONS TO DISPENSERS.
- QUANTITY AND LOCATION OF PRODUCT PIPING MAY VARY. REFER TO TK101 FOR EXACT CONFIGURATION



NOTE:

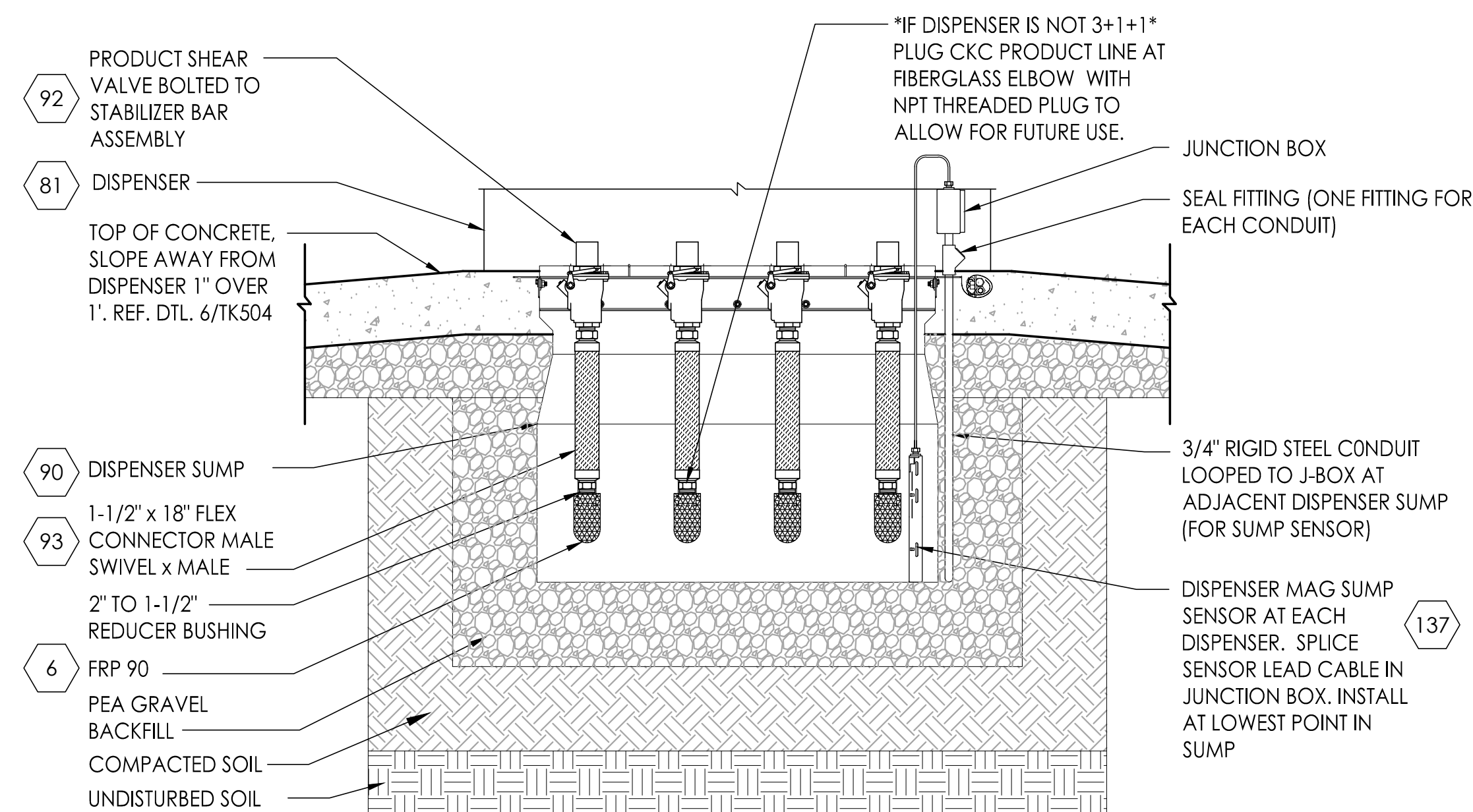
- PROVIDE FLEXIBLE CONNECTORS AND SHEAR VALVE ASSEMBLIES AT PRODUCT CONNECTIONS TO DISPENSERS.
- QUANTITY AND LOCATION OF PRODUCT PIPING MAY VARY. REFER TO TK101 FOR EXACT CONFIGURATION

1 DISPENSER SUMP DETAIL (TERMINATION)

SCALE: NTS

2 DISPENSER SUMP DETAIL (THRU & THRU)

SCALE: NTS

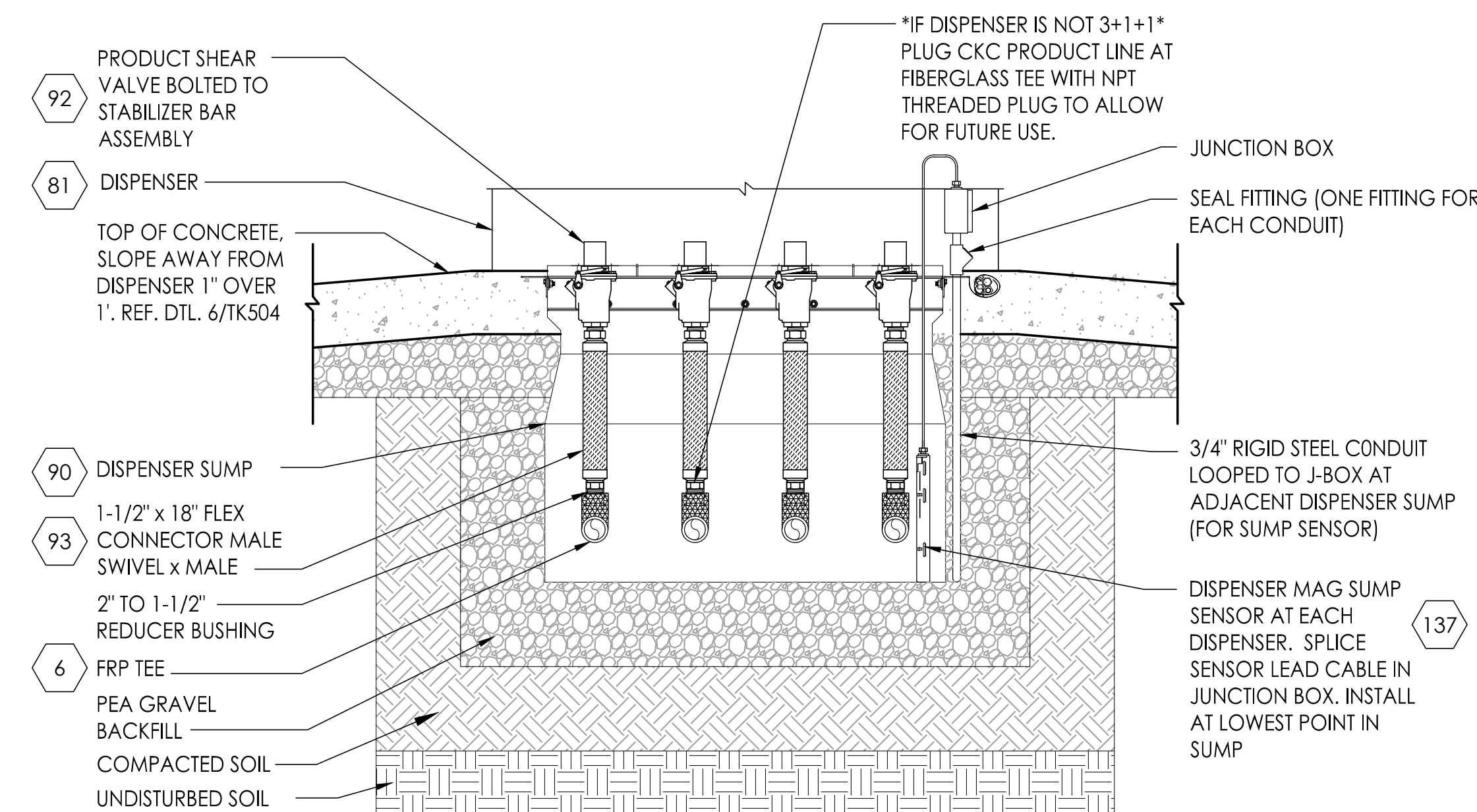


NOTE:

- PROVIDE FLEXIBLE CONNECTORS AND SHEAR VALVE ASSEMBLIES AT PRODUCT CONNECTIONS TO DISPENSERS.
- QUANTITY AND LOCATION OF PRODUCT PIPING MAY VARY. REFER TO TK101 FOR EXACT CONFIGURATION

3 DISPENSER SUMP SECTION (TERMINATION)

SCALE: NTS

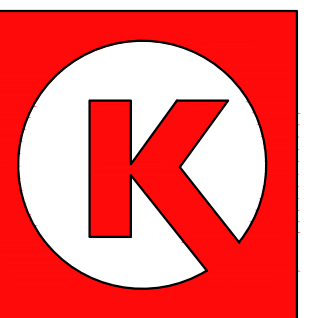


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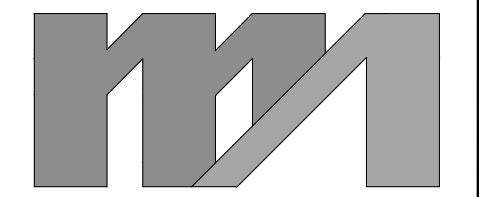
- PROVIDE FLEXIBLE CONNECTORS AND SHEAR VALVE ASSEMBLIES AT PRODUCT CONNECTIONS TO DISPENSERS.
- QUANTITY AND LOCATION OF PRODUCT PIPING MAY VARY. REFER TO TK101 FOR EXACT CONFIGURATION

4 DISPENSER SUMP SECTION (THRU & THRU)

SCALE: NTS

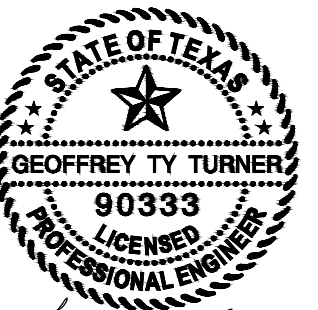


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 SUITE B
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FIRM #F-1449

REVISIONS	
#	DATE

PROJECT: NIT
CIRCLE K STORE #XXXXXX
 14100 CULEBRA RD,
 SAN ANTONIO, TX 78254
 SHEET TITLE:
FUEL SYSTEM DETAILS

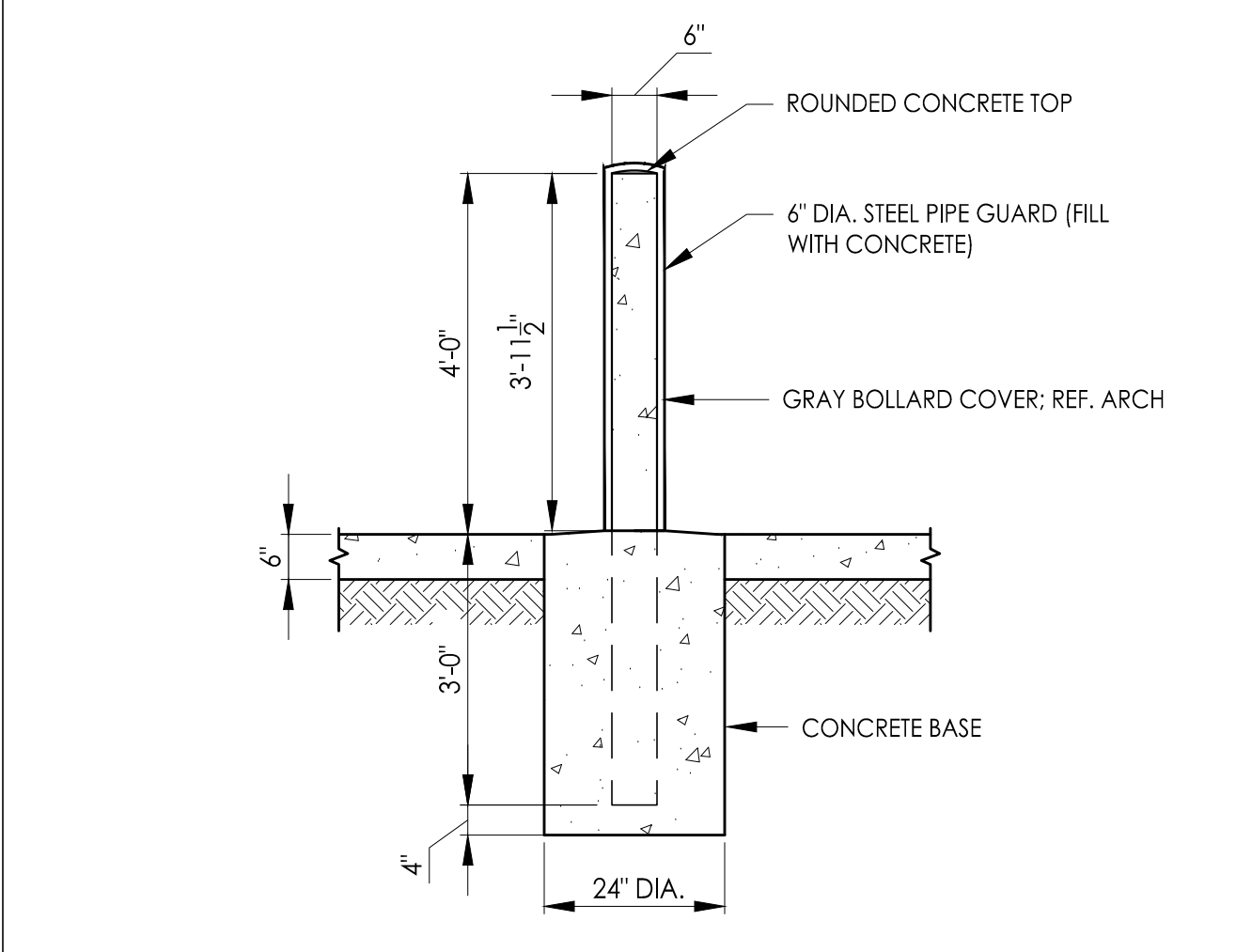
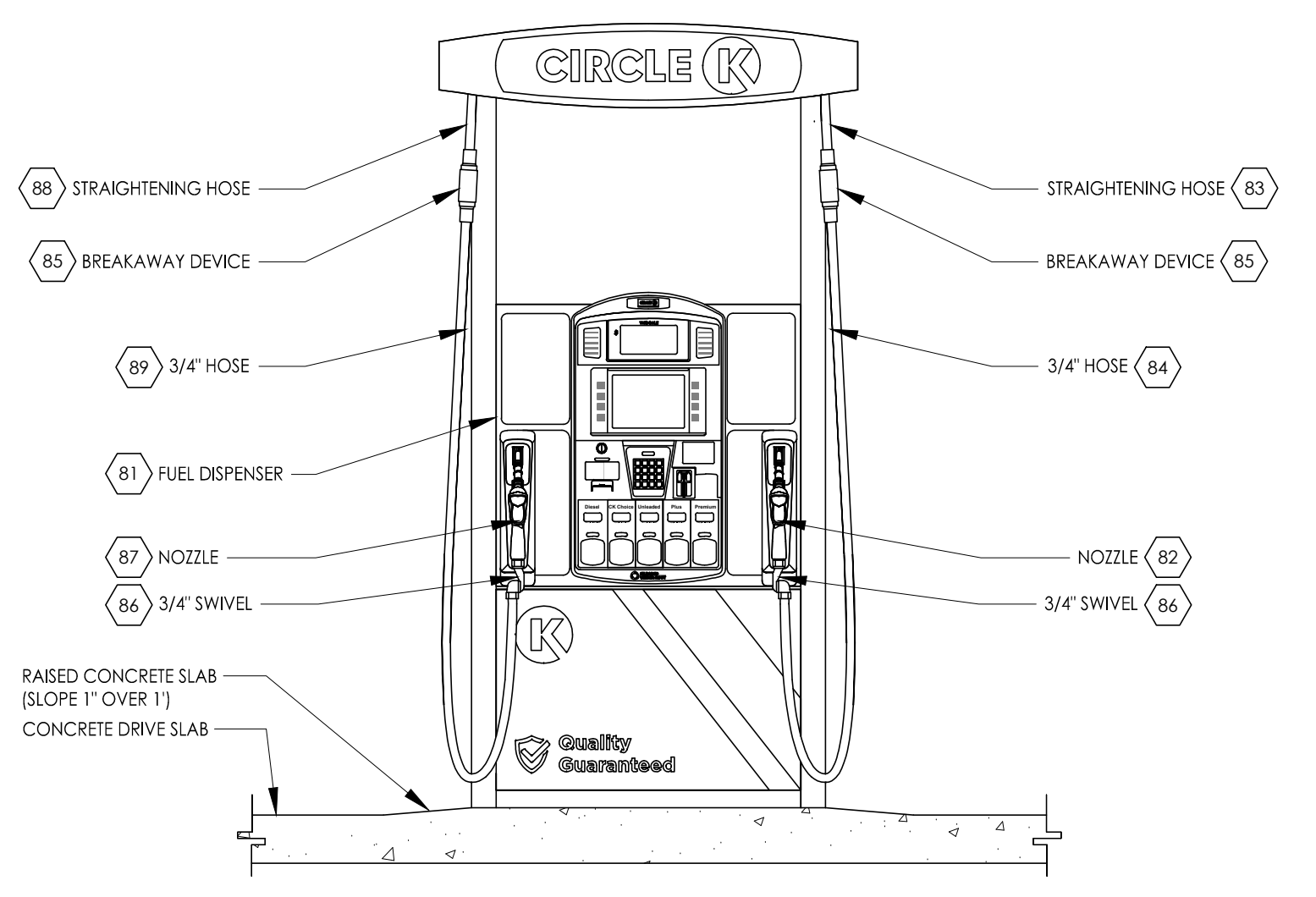
PROJECT #: 4647

SHEET NO.

TK504

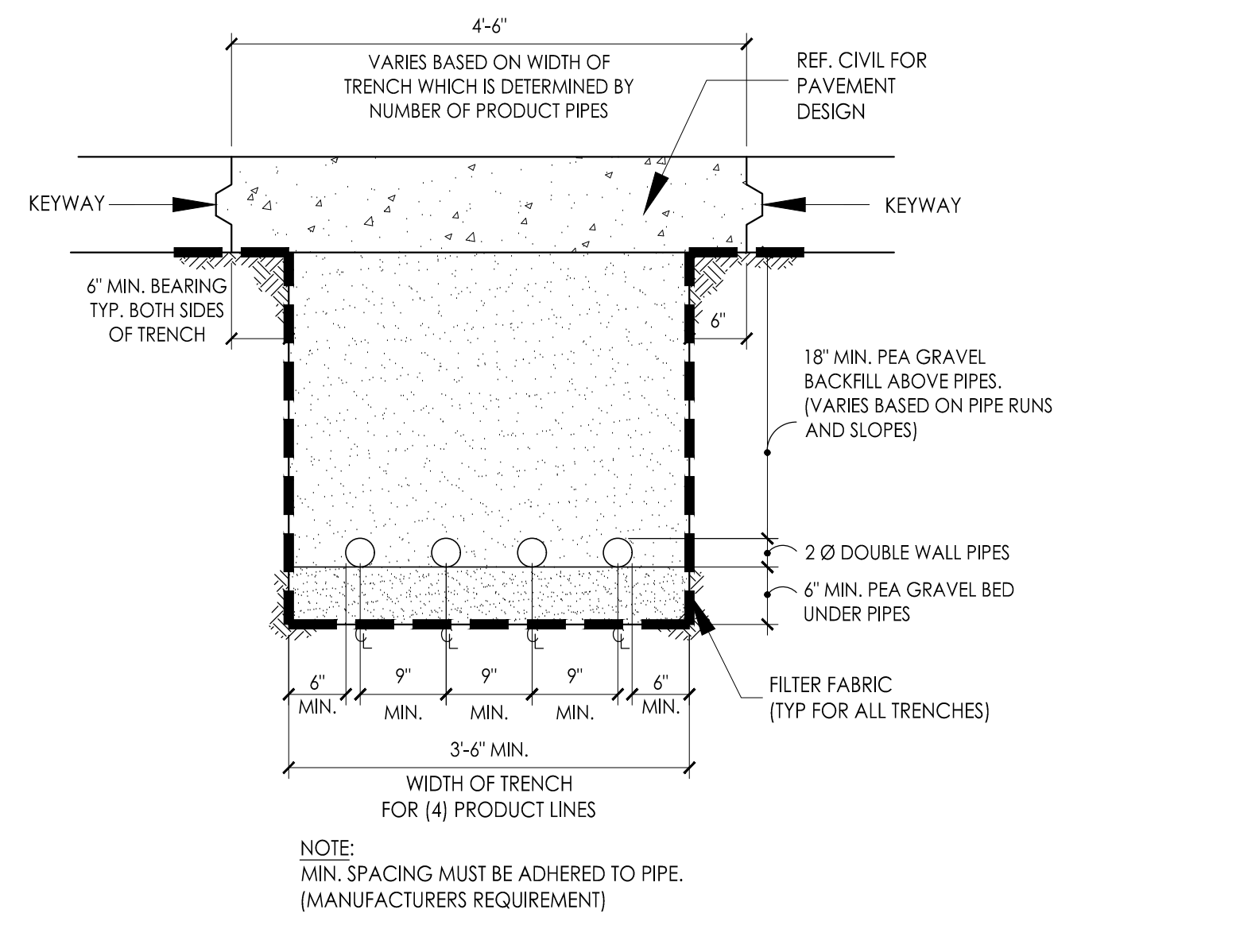
0 0 0 0	REGULAR E0 UNLEADED; LID PAINTED WHITE WITH "0" PAINTED IN BLACK MIDGRADE E0 UNLEADED; LID PAINTED BLUE WITH "0" PAINTED IN BLACK PREMIUM E0 UNLEADED; LID PAINTED RED WITH "0" PAINTED IN BLACK	E15 E85 B20 OFF OFF B20	E15 FUEL: LID PAINTED BROWN WITH "E15" PAINTED IN BLACK E85 FUEL: LID PAINTED BROWN WITH "E85" PAINTED IN BLACK ON-ROAD ULTRA LOW SULFUR DIESEL; LID PAINTED YELLOW ON-ROAD ULTRA LOW SULFUR DIESEL 820% BIODIESEL; LID PAINTED YELLOW WITH "B20" PAINTED IN BLACK OFF-ROAD ULTRA LOW SULFUR DIESEL; LID PAINTED YELLOW WITH "OFF" PAINTED IN RED OFF-ROAD ULTRA LOW SULFUR DIESEL; LID PAINTED YELLOW WITH "OFF" PAINTED IN RED AND "B20" PAINTED IN BLACK	Biodiesel B100/B99.9; LID PAINTED LIGHT BLUE DIESEL EXHAUST FLUID; PAINT DARK BLUE FUEL OIL #2; LID PAINTED GREEN WITH "2" PAINTED IN BLACK KEROSENE; LID PAINTED BROWN USED OIL; LID PAINTED GRAY MONITORING WELL; LID PAINTED WHITE WITH BLACK TRIANGLE VAPOR RECOVERY; LID PAINTED ORANGE
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2 API COLOR CODES FOR MANWAYS



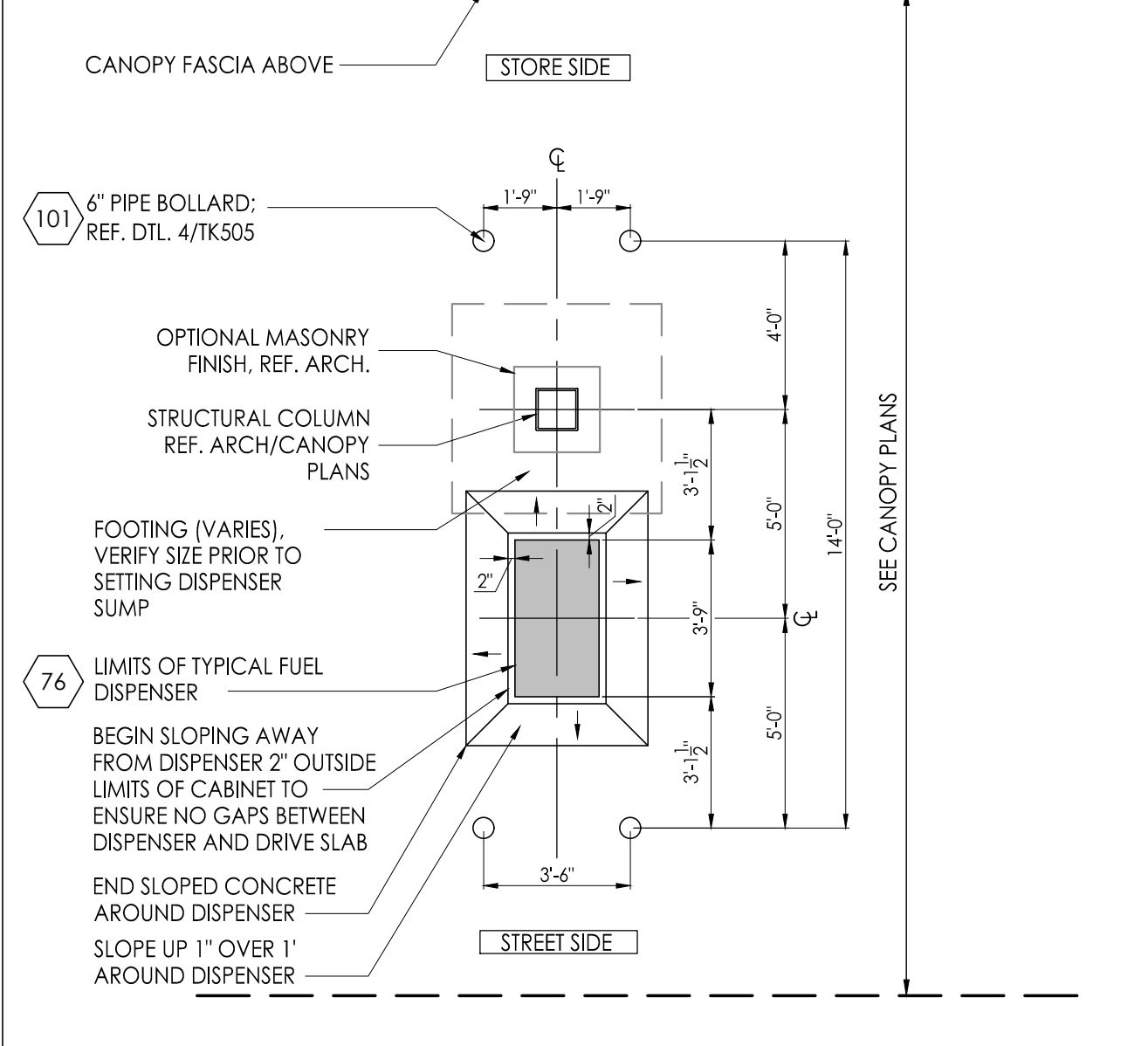
3 DISPENSER ELEVATION

SCALE: 1/2" = 1'-0"



4 PIPE BOLLARD DETAIL

SCALE: 1/2" = 1'-0"



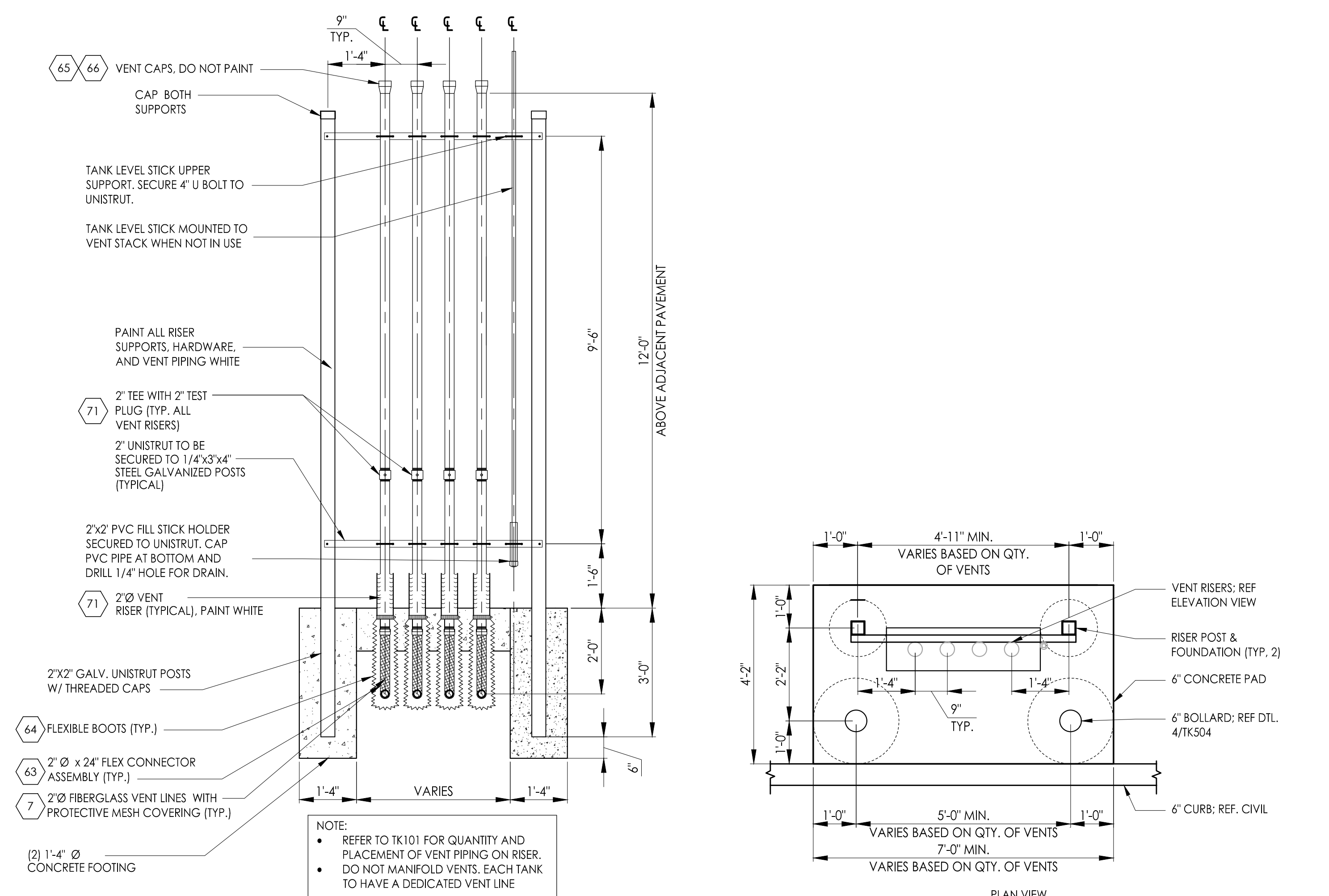
5 PIPE TRENCH

SCALE: 3/4" = 1'-0"

6 DISPENSER ISLAND DETAIL

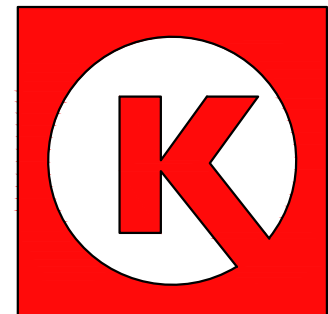
SCALE: 1/4" = 1'-0"

1b TYPICAL VENT THRU CANOPY COLUMN DETAIL (USE ONLY IF APPROVED BY CK) SCALE: 3/4" = 1'-0"

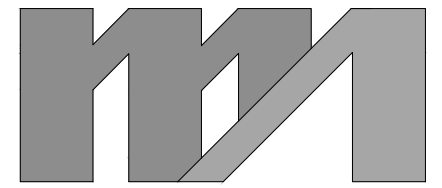


1a TYPICAL FREE STANDING VENT RISER (PREFERRED) SCALE: 1/2" = 1'-0"

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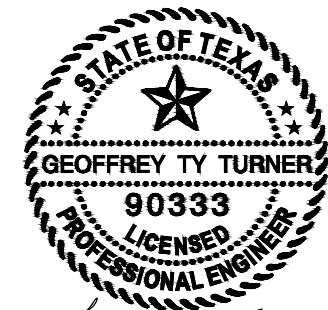
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FIRM #F-1449

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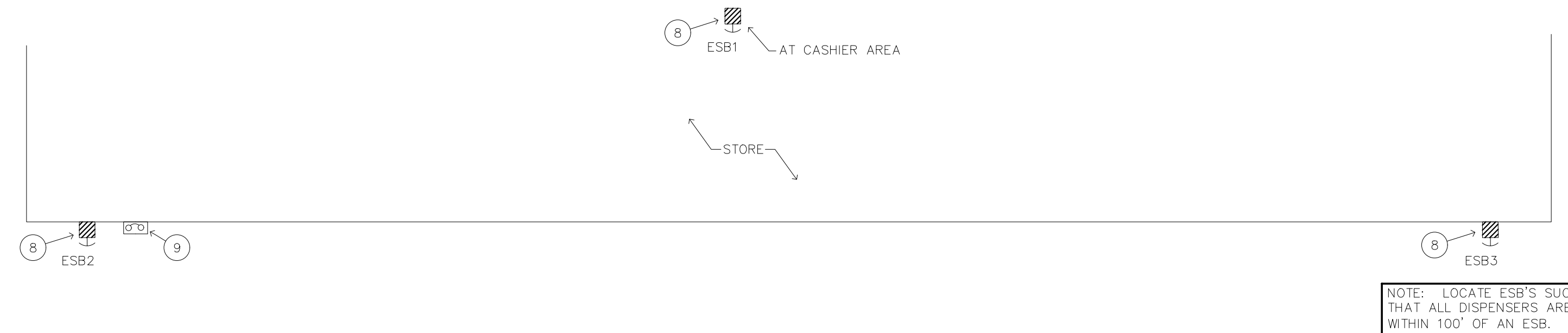
#	DATE

PROJECT: NIT
CIRCLE K STORE #XXXXXX
 14100 CULEBRA RD,
 SAN ANTONIO, TX 78254
 SHEET TITLE:

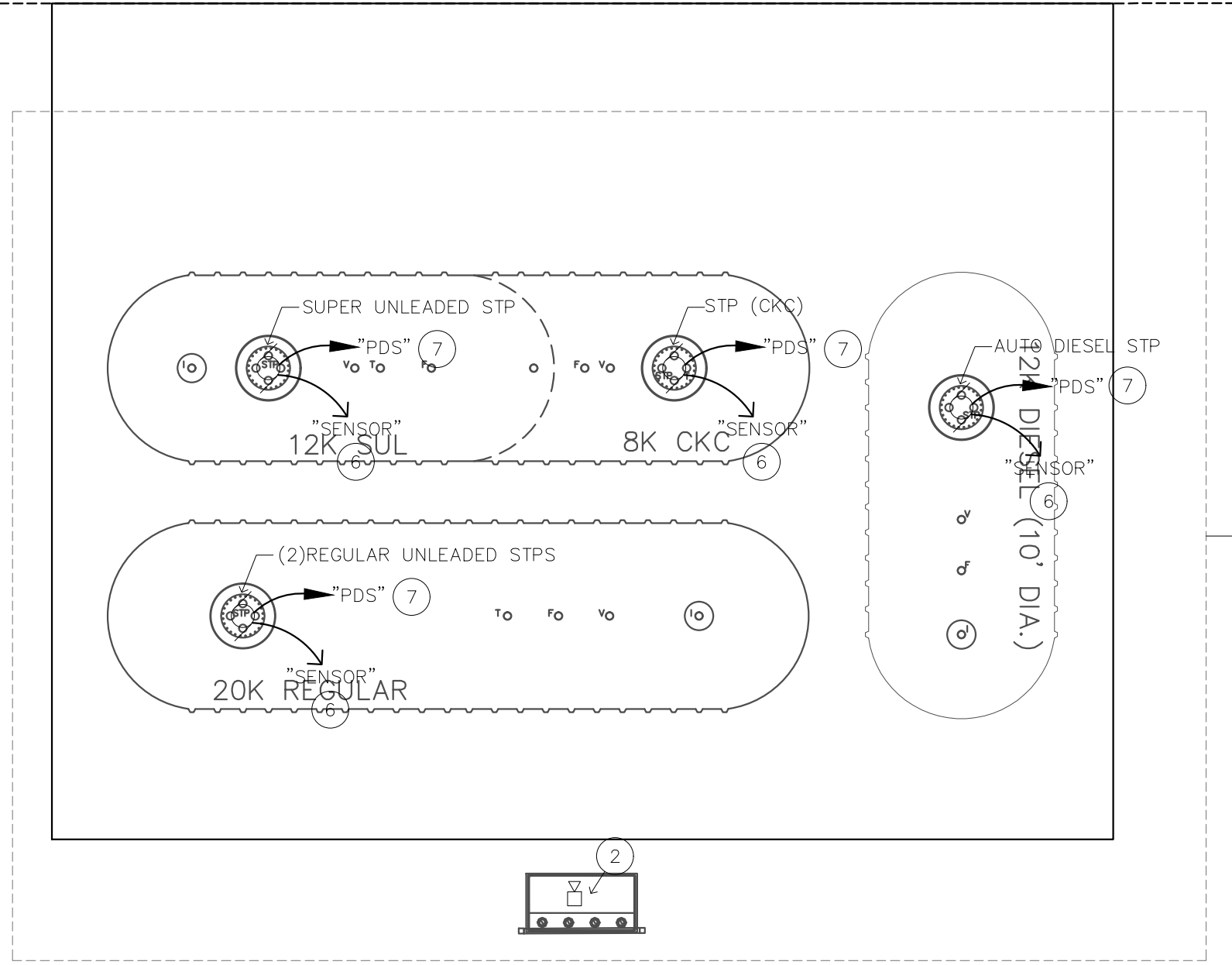
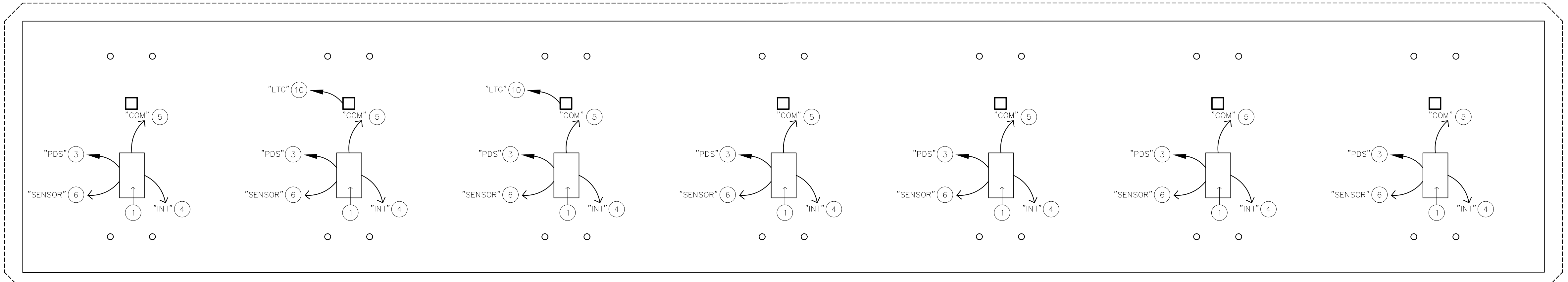
PROJECT #: 4647

SHEET NO.

SE1.0



- KEYED NOTES**
- 1 FUEL DISPENSER.
 - 2 OVERFILL ALARM AND ACKNOWLEDGEMENT SWITCH ON VENT RISER. REFER TO 4/GE1.0.
 - 3 DISPENSER POWER SUPPLY. REFER TO 1/GE1.0, TYPICAL.
 - 4 INTERCOM WIRING TO INTERCOM DIGITAL INTERFACE BOX. REFER TO 5/GE1.0, TYPICAL.
 - 5 COMMUNICATION WIRING. REFER TO 1/GE1.0, TYPICAL.
 - 6 MONITORING/DETECTION WIRING TO VEEDER-ROOT CONSOLE. REFER TO 9/GE1.0, TYPICAL.
 - 7 STP SUPPLY. REFER TO 1/GE1.0.
 - 8 EMERGENCY STOP BUTTON.
 - 9 EMERGENCY TELEPHONE. REFER TO 3/GE1.0.
 - 10 CANOPY LIGHTING POWER SUPPLY. REFER TO 1/GE1.0.



GAS/DIESEL FUEL ISLAND ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0"

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: Jack Greer

Date: 01/23/2024

Signature of Customer/Agent:



Regulated Entity Name: Circle K Stores, Inc.

Underground Storage Tank (UST) System Information

- 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)
- 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	20,000	UL Gasoline	Fiberglass

<i>UST Number</i>	<i>Size(Gallons)</i>	<i>Substance to be Stored</i>	<i>Double-wall Tank Material</i>
2	20,000	UL/0 Ethanol Gasoline	Fiberglass
3	12,000	Diesel	Fiberglass
4			
5			

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	Fiberglass Tank
Product Delivery Piping	Fiberglass piping

Equipment	Corrosion Protection (Method)
Vapor Recovery Piping	N/A
Submersible Pumps	In Sump
Flex Connector (dispenser end)	In Sump - Stainless Steel
Flex Connector (pump end)	In Sump - Stainless Steel
Riser	Wrapped with mastic tape when buried or inside pump

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 13-15 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 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" (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): FEMA MAP - PANEL 48029C0195G - 9/29/2010
- 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 _____, 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.



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Calibration Chart

20,000 Gallon - 10' Diameter Double-Wall Tank

DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS
0-1/8"	5	8-1/2"	587	16-7/8"	1628	25-1/4"	2959	33-5/8"	4497	42"	6181	50-3/8"	7960
0-1/4"	8	8-5/8"	600	17"	1646	25-3/8"	2981	33-3/4"	4521	42-1/8"	6207	50-1/2"	7987
0-3/8"	11	8-3/4"	613	17-1/8"	1664	25-1/2"	3002	33-7/8"	4546	42-1/4"	6233	50-5/8"	8014
0-1/2"	14	8-7/8"	626	17-1/4"	1682	25-5/8"	3024	34"	4570	42-3/8"	6259	50-3/4"	8042
0-5/8"	18	9"	639	17-3/8"	1700	25-3/4"	3046	34-1/8"	4594	42-1/2"	6285	50-7/8"	8069
0-3/4"	22	9-1/8"	652	17-1/2"	1718	25-7/8"	3067	34-1/4"	4618	42-5/8"	6312	51"	8096
0-7/8"	26	9-1/4"	665	17-5/8"	1737	26"	3089	34-3/8"	4643	42-3/4"	6338	51-1/8"	8123
1"	30	9-3/8"	679	17-3/4"	1755	26-1/8"	3111	34-1/2"	4667	42-7/8"	6364	51-1/4"	8150
1-1/8"	35	9-1/2"	692	17-7/8"	1774	26-1/4"	3133	34-5/8"	4692	43"	6390	51-3/8"	8177
1-1/4"	40	9-5/8"	706	18"	1792	26-3/8"	3155	34-3/4"	4716	43-1/8"	6416	51-1/2"	8204
1-3/8"	45	9-3/4"	719	18-1/8"	1811	26-1/2"	3177	34-7/8"	4741	43-1/4"	6442	51-5/8"	8231
1-1/2"	51	9-7/8"	733	18-1/4"	1829	26-5/8"	3199	35"	4765	43-3/8"	6468	51-3/4"	8258
1-5/8"	56	10"	747	18-3/8"	1848	26-3/4"	3221	35-1/8"	4790	43-1/2"	6494	51-7/8"	8285
1-3/4"	62	10-1/8"	761	18-1/2"	1867	26-7/8"	3243	35-1/4"	4814	43-5/8"	6521	52"	8313
1-7/8"	68	10-1/4"	775	18-5/8"	1885	27"	3266	35-3/8"	4839	43-3/4"	6547	52-1/8"	8340
2"	74	10-3/8"	789	18-3/4"	1904	27-1/8"	3288	35-1/2"	4863	43-7/8"	6573	52-1/4"	8367
2-1/8"	80	10-1/2"	803	18-7/8"	1923	27-1/4"	3310	35-5/8"	4888	44"	6599	52-3/8"	8394
2-1/4"	87	10-5/8"	817	19"	1942	27-3/8"	3332	35-3/4"	4913	44-1/8"	6626	52-1/2"	8421
2-3/8"	94	10-3/4"	832	19-1/8"	1961	27-1/2"	3355	35-7/8"	4938	44-1/4"	6652	52-5/8"	8448
2-1/2"	100	10-7/8"	846	19-1/4"	1980	27-5/8"	3377	36"	4962	44-3/8"	6678	52-3/4"	8476
2-5/8"	108	11"	861	19-3/8"	1999	27-3/4"	3399	36-1/8"	4987	44-1/2"	6705	52-7/8"	8503
2-3/4"	115	11-1/8"	875	19-1/2"	2018	27-7/8"	3422	36-1/4"	5012	44-5/8"	6731	53"	8530
2-7/8"	122	11-1/4"	890	19-5/8"	2038	28"	3444	36-3/8"	5037	44-3/4"	6757	53-1/8"	8557
3"	130	11-3/8"	905	19-3/4"	2057	28-1/8"	3467	36-1/2"	5062	44-7/8"	6784	53-1/4"	8584
3-1/8"	137	11-1/2"	919	19-7/8"	2076	28-1/4"	3490	36-5/8"	5086	45"	6810	53-3/8"	8612
3-1/4"	145	11-5/8"	934	20"	2096	28-3/8"	3512	36-3/4"	5111	45-1/8"	6837	53-1/2"	8639
3-3/8"	153	11-3/4"	949	20-1/8"	2115	28-1/2"	3535	36-7/8"	5136	45-1/4"	6863	53-5/8"	8666
3-1/2"	161	11-7/8"	964	20-1/4"	2135	28-5/8"	3558	37"	5161	45-3/8"	6890	53-3/4"	8693
3-5/8"	169	12"	980	20-3/8"	2154	28-3/4"	3580	37-1/8"	5186	45-1/2"	6916	53-7/8"	8721
3-3/4"	178	12-1/8"	995	20-1/2"	2174	28-7/8"	3603	37-1/4"	5211	45-5/8"	6943	54"	8748
3-7/8"	186	12-1/4"	1010	20-5/8"	2194	29"	3626	37-3/8"	5236	45-3/4"	6969	54-1/8"	8775
4"	195	12-3/8"	1026	20-3/4"	2214	29-1/8"	3649	37-1/2"	5262	45-7/8"	6996	54-1/4"	8802
4-1/8"	204	12-1/2"	1041	20-7/8"	2233	29-1/4"	3672	37-5/8"	5287	46"	7022	54-3/8"	8830
4-1/4"	213	12-5/8"	1057	21"	2253	29-3/8"	3695	37-3/4"	5312	46-1/8"	7049	54-1/2"	8857
4-3/8"	222	12-3/4"	1072	21-1/8"	2273	29-1/2"	3718	37-7/8"	5337	46-1/4"	7075	54-5/8"	8884
4-1/2"	231	12-7/8"	1088	21-1/4"	2293	29-5/8"	3741	38"	5362	46-3/8"	7102	54-3/4"	8912
4-5/8"	240	13"	1104	21-3/8"	2313	29-3/4"	3764	38-1/8"	5387	46-1/2"	7129	54-7/8"	8939
4-3/4"	250	13-1/8"	1119	21-1/2"	2333	29-7/8"	3787	38-1/4"	5413	46-5/8"	7155	55"	8966
4-7/8"	259	13-1/4"	1135	21-5/8"	2353	30"	3810	38-3/8"	5438	46-3/4"	7182	55-1/8"	8994
5"	269	13-3/8"	1151	21-3/4"	2373	30-1/8"	3833	38-1/2"	5463	46-7/8"	7209	55-1/4"	9021
5-1/8"	279	13-1/2"	1167	21-7/8"	2394	30-1/4"	3857	38-5/8"	5489	47"	7235	55-3/8"	9048
5-1/4"	289	13-5/8"	1184	22"	2414	30-3/8"	3880	38-3/4"	5514	47-1/8"	7262	55-1/2"	9076
5-3/8"	299	13-3/4"	1200	22-1/8"	2434	30-1/2"	3903	38-7/8"	5539	47-1/4"	7289	55-5/8"	9103
5-1/2"	309	13-7/8"	1216	22-1/4"	2455	30-5/8"	3926	39"	5565	47-3/8"	7315	55-3/4"	9130
5-5/8"	320	14"	1232	22-3/8"	2475	30-3/4"	3950	39-1/8"	5590	47-1/2"	7342	55-7/8"	9158
5-3/4"	330	14-1/8"	1249	22-1/2"	2496	30-7/8"	3973	39-1/4"	5616	47-5/8"	7369	56"	9185
5-7/8"	341	14-1/4"	1265	22-5/8"	2516	31"	3997	39-3/8"	5641	47-3/4"	7396	56-1/8"	9212
6"	351	14-3/8"	1282	22-3/4"	2537	31-1/8"	4020	39-1/2"	5667	47-7/8"	7422	56-1/4"	9240
6-1/8"	362	14-1/2"	1299	22-7/8"	2557	31-1/4"	4044	39-5/8"	5692	48"	7449	56-3/8"	9267
6-1/4"	373	14-5/8"	1315	23"	2578	31-3/8"	4067	39-3/4"	5718	48-1/8"	7476	56-1/2"	9294
6-3/8"	384	14-3/4"	1332	23-1/8"	2599	31-1/2"	4091	39-7/8"	5743	48-1/4"	7503	56-5/8"	9322
6-1/2"	395	14-7/8"	1349	23-1/4"	2620	31-5/8"	4114	40"	5769	48-3/8"	7530	56-3/4"	9349
6-5/8"	406	15"	1366	23-3/8"	2641	31-3/4"	4138	40-1/8"	5794	48-1/2"	7556	56-7/8"	9376
6-3/4"	418	15-1/8"	1383	23-1/2"	2661	31-7/8"	4162	40-1/4"	5820	48-5/8"	7583	57"	9404
6-7/8"	429	15-1/4"	1400	23-5/8"	2682	32"	4186	40-3/8"	5846	48-3/4"	7610	57-1/8"	9431
7"	441	15-3/8"	1417	23-3/4"	2703	32-1/8"	4209	40-1/2"	5871	48-7/8"	7637	57-1/4"	9459
7-1/8"	452	15-1/2"	1434	23-7/8"	2724	32-1/4"	4233	40-5/8"	5897	49"	7664	57-3/8"	9486
7-1/4"	464	15-5/8"	1452	24"	2745	32-3/8"	4257	40-3/4"	5923	49-1/8"	7691	57-1/2"	9513
7-3/8"	476	15-3/4"	1469	24-1/8"	2767	32-1/2"	4281	40-7/8"	5949	49-1/4"	7718	57-5/8"	9541
7-1/2"	488	15-7/8"	1486	24-1/4"	2788	32-5/8"	4305	41"	5974	49-3/8"	7745	57-3/4"	9568
7-5/8"	500	16"	1504	24-3/8"	2809	32-3/4"	4329	41-1/8"	6000	49-1/2"	7772	57-7/8"	9595
7-3/4"	512	16-1/8"	1521	24-1/2"	2830	32-7/8"	4353	41-1/4"	6026	49-5/8"	7798	58"	9623
7-7/8"	524	16-1/4"	1539	24-5/8"	2852	33"	4377	41-3/8"	6052	49-3/4"	7825	58-1/8"	9650
8"	536	16-3/8"	1557	24-3/4"	2873	33-1/8"	4401	41-1/2"	6078	49-7/8"	7852	58-1/4"	9678
8-1/8"	549	16-1/2"	1574	24-7/8"	2894	33-1/4"	4425	41-5/8"	6104	50"	7879	58-3/8"	9705
8-1/4"	561	16-5/8"	1592	25"	2916	33-3/8"	4449	41-3/4"	6130	50-1/8"	7906	58-1/2"	9732
8-3/8"	574	16-3/4"	1610	25-1/8"	2937	33-1/2"	4473	41-7/8"	6155	50-1/4"	7933	58-5/8"	9760

XERXES CORPORATION 20,000 Gallon - 10' Diameter Double-Wall Tank

DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS
58-3/4"	9787	67-1/2"	11698	76-1/4"	13562	85"	15324	93-3/4"	16925	102-1/2"	18296	111-1/4"	19335
58-7/8"	9815	67-5/8"	11725	76-3/8"	13588	85-1/8"	15348	93-7/8"	16947	102-5/8"	18313	111-3/8"	19347
59"	9842	67-3/4"	11752	76-1/2"	13614	85-1/4"	15372	94"	16968	102-3/4"	18331	111-1/2"	19358
59-1/8"	9869	67-7/8"	11780	76-5/8"	13640	85-3/8"	15396	94-1/8"	16989	102-7/8"	18348	111-5/8"	19370
59-1/4"	9897	68"	11807	76-3/4"	13666	85-1/2"	15420	94-1/4"	17011	103"	18365	111-3/4"	19381
59-3/8"	9924	68-1/8"	11834	76-7/8"	13691	85-5/8"	15444	94-3/8"	17032	103-1/8"	18383	111-7/8"	19392
59-1/2"	9952	68-1/4"	11861	77"	13717	85-3/4"	15468	94-1/2"	17053	103-1/4"	18400	112"	19404
59-5/8"	9979	68-3/8"	11888	77-1/8"	13743	85-7/8"	15492	94-5/8"	17074	103-3/8"	18417	112-1/8"	19415
59-3/4"	10006	68-1/2"	11915	77-1/4"	13769	86"	15516	94-3/4"	17095	103-1/2"	18434	112-1/4"	19425
59-7/8"	10034	68-5/8"	11942	77-3/8"	13795	86-1/8"	15540	94-7/8"	17116	103-5/8"	18451	112-3/8"	19436
60"	10061	68-3/4"	11969	77-1/2"	13821	86-1/4"	15564	95"	17137	103-3/4"	18468	112-1/2"	19447
60-1/8"	10089	68-7/8"	11996	77-5/8"	13847	86-3/8"	15587	95-1/8"	17158	103-7/8"	18484	112-5/8"	19458
60-1/4"	10116	69"	12023	77-3/4"	13872	86-1/2"	15611	95-1/4"	17179	104"	18501	112-3/4"	19468
60-3/8"	10143	69-1/8"	12050	77-7/8"	13898	86-5/8"	15635	95-3/8"	17200	104-1/8"	18518	112-7/8"	19478
60-1/2"	10171	69-1/4"	12076	78"	13924	86-3/4"	15659	95-1/2"	17220	104-1/4"	18534	113"	19489
60-5/8"	10198	69-3/8"	12103	78-1/8"	13950	86-7/8"	15682	95-5/8"	17241	104-3/8"	18551	113-1/8"	19499
60-3/4"	10226	69-1/2"	12130	78-1/4"	13975	87"	15706	95-3/4"	17262	104-1/2"	18567	113-1/4"	19509
60-7/8"	10253	69-5/8"	12157	78-3/8"	14001	87-1/8"	15730	95-7/8"	17282	104-5/8"	18584	113-3/8"	19519
61"	10280	69-3/4"	12184	78-1/2"	14027	87-1/4"	15753	96"	17303	104-3/4"	18600	113-1/2"	19528
61-1/8"	10308	69-7/8"	12211	78-5/8"	14052	87-3/8"	15777	96-1/8"	17324	104-7/8"	18616	113-5/8"	19538
61-1/4"	10335	70"	12238	78-3/4"	14078	87-1/2"	15800	96-1/4"	17344	105"	18632	113-3/4"	19548
61-3/8"	10363	70-1/8"	12265	78-7/8"	14103	87-5/8"	15824	96-3/8"	17364	105-1/8"	18648	113-7/8"	19557
61-1/2"	10390	70-1/4"	12292	79"	14129	87-3/4"	15847	96-1/2"	17385	105-1/4"	18664	114"	19566
61-5/8"	10417	70-3/8"	12318	79-1/8"	14154	87-7/8"	15871	96-5/8"	17405	105-3/8"	18680	114-1/8"	19575
61-3/4"	10445	70-1/2"	12345	79-1/4"	14180	88"	15894	96-3/4"	17425	105-1/2"	18696	114-1/4"	19584
61-7/8"	10472	70-5/8"	12372	79-3/8"	14205	88-1/8"	15917	96-7/8"	17446	105-5/8"	18712	114-3/8"	19593
62"	10499	70-3/4"	12399	79-1/2"	14231	88-1/4"	15941	97"	17466	105-3/4"	18728	114-1/2"	19602
62-1/8"	10527	70-7/8"	12426	79-5/8"	14256	88-3/8"	15964	97-1/8"	17486	105-7/8"	18743	114-5/8"	19610
62-1/4"	10554	71"	12452	79-3/4"	14282	88-1/2"	15987	97-1/4"	17506	106"	18759	114-3/4"	19619
62-3/8"	10581	71-1/8"	12479	79-7/8"	14307	88-5/8"	16010	97-3/8"	17526	106-1/8"	18774	114-7/8"	19627
62-1/2"	10609	71-1/4"	12506	80"	14332	88-3/4"	16033	97-1/2"	17546	106-1/4"	18790	115"	19635
62-5/8"	10636	71-3/8"	12532	80-1/8"	14358	88-7/8"	16056	97-5/8"	17566	106-3/8"	18805	115-1/8"	19643
62-3/4"	10664	71-1/2"	12559	80-1/4"	14383	89"	16080	97-3/4"	17585	106-1/2"	18820	115-1/4"	19651
62-7/8"	10691	71-5/8"	12586	80-3/8"	14408	89-1/8"	16103	97-7/8"	17605	106-5/8"	18835	115-3/8"	19658
63"	10718	71-3/4"	12613	80-1/2"	14434	89-1/4"	16126	98"	17625	106-3/4"	18850	115-1/2"	19666
63-1/8"	10746	71-7/8"	12639	80-5/8"	14459	89-3/8"	16148	98-1/8"	17645	106-7/8"	18865	115-5/8"	19673
63-1/4"	10773	72"	12666	80-3/4"	14484	89-1/2"	16171	98-1/4"	17664	107"	18880	115-3/4"	19681
63-3/8"	10800	72-1/8"	12692	80-7/8"	14509	89-5/8"	16194	98-3/8"	17684	107-1/8"	18895	115-7/8"	19688
63-1/2"	10828	72-1/4"	12719	81"	14534	89-3/4"	16217	98-1/2"	17703	107-1/4"	18910	116"	19694
63-5/8"	10855	72-3/8"	12746	81-1/8"	14559	89-7/8"	16240	98-5/8"	17723	107-3/8"	18925	116-1/8"	19701
63-3/4"	10882	72-1/2"	12772	81-1/4"	14584	90"	16263	98-3/4"	17742	107-1/2"	18939	116-1/4"	19708
63-7/8"	10909	72-5/8"	12799	81-3/8"	14609	90-1/8"	16285	98-7/8"	17761	107-5/8"	18954	116-3/8"	19714
64"	10937	72-3/4"	12825	81-1/2"	14635	90-1/4"	16308	99"	17781	107-3/4"	18968	116-1/2"	19720
64-1/8"	10964	72-7/8"	12852	81-5/8"	14660	90-3/8"	16331	99-1/8"	17800	107-7/8"	18982	116-5/8"	19726
64-1/4"	10991	73"	12878	81-3/4"	14684	90-1/2"	16353	99-1/4"	17819	108"	18997	116-3/4"	19732
64-3/8"	11019	73-1/8"	12905	81-7/8"	14709	90-5/8"	16376	99-3/8"	17838	108-1/8"	19011	116-7/8"	19737
64-1/2"	11046	73-1/4"	12931	82"	14734	90-3/4"	16398	99-1/2"	17857	108-1/4"	19025	117"	19742
64-5/8"	11073	73-3/8"	12958	82-1/8"	14759	90-7/8"	16421	99-5/8"	17876	108-3/8"	19039	117-1/8"	19747
64-3/4"	11100	73-1/2"	12984	82-1/4"	14784	91"	16443	99-3/4"	17895	108-1/2"	19053	117-1/4"	19752
64-7/8"	11128	73-5/8"	13011	82-3/8"	14809	91-1/8"	16465	99-7/8"	17914	108-5/8"	19067	117-3/8"	19757
65"	11155	73-3/4"	13037	82-1/2"	14834	91-1/4"	16488	100"	17933	108-3/4"	19080	117-1/2"	19761
65-1/8"	11182	73-7/8"	13064	82-5/8"	14859	91-3/8"	16510	100-1/8"	17952	108-7/8"	19094	117-5/8"	19765
65-1/4"	11209	74"	13090	82-3/4"	14883	91-1/2"	16532	100-1/4"	17970	109"	19107	117-3/4"	19769
65-3/8"	11237	74-1/8"	13116	82-7/8"	14908	91-5/8"	16555	100-3/8"	17989	109-1/8"	19121	117-7/8"	19772
65-1/2"	11264	74-1/4"	13143	83"	14933	91-3/4"	16577	100-1/2"	18007	109-1/4"	19134	118"	19775
65-5/8"	11291	74-3/8"	13169	83-1/8"	14957	91-7/8"	16599	100-5/8"	18026	109-3/8"	19148	118-1/8"	19778
65-3/4"	11318	74-1/2"	13195	83-1/4"	14982	92"	16621	100-3/4"	18044	109-1/2"	19161	118-1/4"	19780
65-7/8"	11345	74-5/8"	13222	83-3/8"	15007	92-1/8"	16643	100-7/8"	18063	109-5/8"	19174	118-3/8"	19782
66"	11373	74-3/4"	13248	83-1/2"	15031	92-1/4"	16665	101"	18081	109-3/4"	19187		
66-1/8"	11400	74-7/8"	13274	83-5/8"	15056	92-3/8"	16687	101-1/8"	18099	109-7/8"	19200		
66-1/4"	11427	75"	13300	83-3/4"	15080	92-1/2"	16709	101-1/4"	18117	110"	19212		
66-3/8"	11454	75-1/8"	13327	83-7/8"	15105	92-5/8"	16731	101-3/8"	18136	110-1/8"	19225		
66-1/2"	11481	75-1/4"	13353	84"	15129	92-3/4"	16752	101-1/2"	18154	110-1/4"	19238		
66-5/8"	11509	75-3/8"	13379	84-1/8"	15154	92-7/8"	16774	101-5/8"	18172	110-3/8"	19250		
66-3/4"	11536	75-1/2"	13405	84-1/4"	15178	93"	16796	101-3/4"	18190	110-1/2"	19263		
66-7/8"	11563	75-5/8"	13431	84-3/8"	15202	93-1/8"	16818	101-7/8"	18207	110-5/8"	19275		
67"	11590	75-3/4"	13457	84-1/2"	15227	93-1/4"	16839	102"	18225	110-3/4"	19287		
67-1/8"	11617	75-7/8"	13483	84-5/8"	15251	93-3/8"	16861	102-1/8"	18243	110-7/8"	19299		
67-1/4"	11644	76"	13509	84-3/4"	15275	93-1/2"	16882	102-1/4"	18261	111"	19311		
67-3/8"	11671	76-1/8"	13536	84-7/8"	15299	93-5/8"	16904	102-3/8"	18278	111-1/8"	19323		x1020dw.10-08



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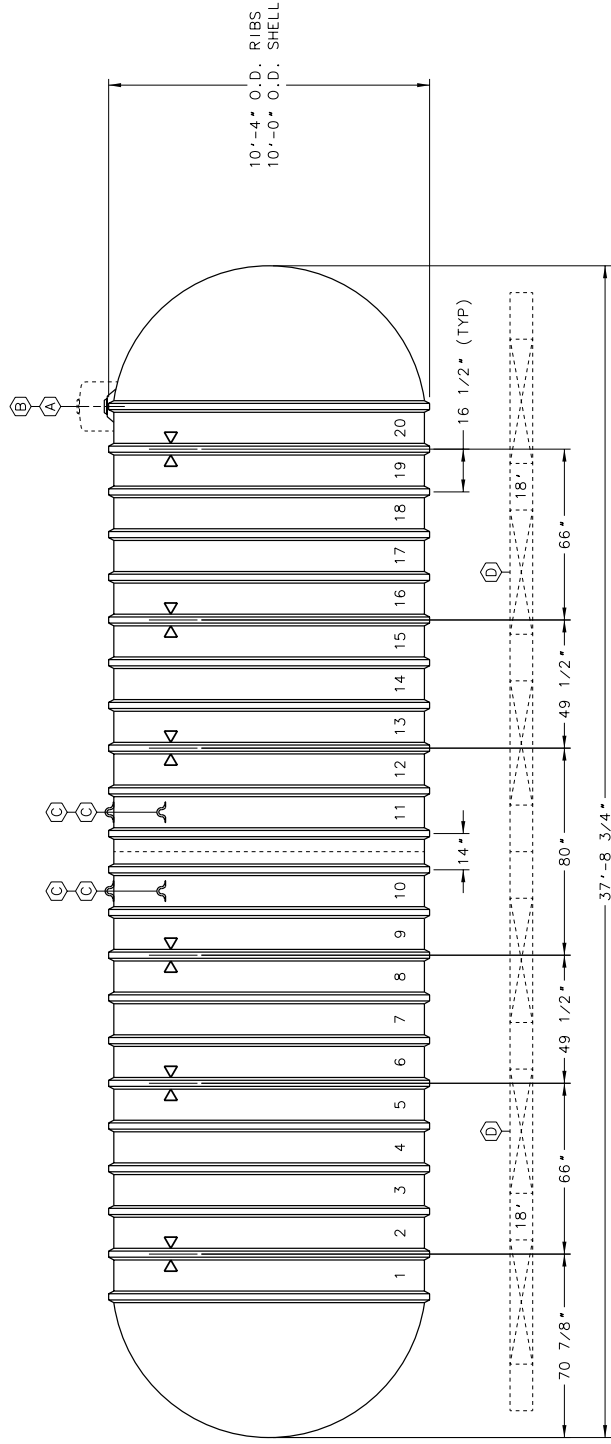
Calibration Chart

12,000 Gallon - 10' Diameter Double-Wall Tank

DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS
0-1/8"	3	8-1/2"	325	16-7/8"	927	25-1/4"	1716	33-5/8"	2642	42"	3667	50-3/8"	4755
0-1/4"	4	8-5/8"	332	17"	938	25-3/8"	1729	33-3/4"	2657	42-1/8"	3682	50-1/2"	4772
0-3/8"	5	8-3/4"	340	17-1/8"	949	25-1/2"	1742	33-7/8"	2672	42-1/4"	3698	50-5/8"	4789
0-1/2"	7	8-7/8"	347	17-1/4"	959	25-5/8"	1755	34"	2686	42-3/8"	3714	50-3/4"	4805
0-5/8"	9	9"	355	17-3/8"	970	25-3/4"	1768	34-1/8"	2701	42-1/2"	3730	50-7/8"	4822
0-3/4"	11	9-1/8"	362	17-1/2"	981	25-7/8"	1781	34-1/4"	2716	42-5/8"	3746	51"	4838
0-7/8"	14	9-1/4"	370	17-5/8"	991	26"	1794	34-3/8"	2731	42-3/4"	3762	51-1/8"	4855
1"	16	9-3/8"	377	17-3/4"	1002	26-1/8"	1808	34-1/2"	2745	42-7/8"	3778	51-1/4"	4872
1-1/8"	18	9-1/2"	385	17-7/8"	1013	26-1/4"	1821	34-5/8"	2760	43"	3794	51-3/8"	4888
1-1/4"	21	9-5/8"	393	18"	1024	26-3/8"	1834	34-3/4"	2775	43-1/8"	3810	51-1/2"	4905
1-3/8"	24	9-3/4"	401	18-1/8"	1035	26-1/2"	1847	34-7/8"	2790	43-1/4"	3826	51-5/8"	4921
1-1/2"	27	9-7/8"	408	18-1/4"	1046	26-5/8"	1860	35"	2805	43-3/8"	3842	51-3/4"	4938
1-5/8"	30	10"	416	18-3/8"	1057	26-3/4"	1873	35-1/8"	2820	43-1/2"	3858	51-7/8"	4955
1-3/4"	33	10-1/8"	424	18-1/2"	1068	26-7/8"	1887	35-1/4"	2835	43-5/8"	3874	52"	4971
1-7/8"	36	10-1/4"	432	18-5/8"	1079	27"	1900	35-3/8"	2849	43-3/4"	3890	52-1/8"	4988
2"	39	10-3/8"	440	18-3/4"	1090	27-1/8"	1913	35-1/2"	2864	43-7/8"	3906	52-1/4"	5005
2-1/8"	43	10-1/2"	448	18-7/8"	1101	27-1/4"	1927	35-5/8"	2879	44"	3922	52-3/8"	5021
2-1/4"	46	10-5/8"	457	19"	1112	27-3/8"	1940	35-3/4"	2894	44-1/8"	3938	52-1/2"	5038
2-3/8"	50	10-3/4"	465	19-1/8"	1123	27-1/2"	1953	35-7/8"	2909	44-1/4"	3954	52-5/8"	5055
2-1/2"	54	10-7/8"	473	19-1/4"	1135	27-5/8"	1967	36"	2924	44-3/8"	3970	52-3/4"	5071
2-5/8"	57	11"	482	19-3/8"	1146	27-3/4"	1980	36-1/8"	2939	44-1/2"	3986	52-7/8"	5088
2-3/4"	61	11-1/8"	490	19-1/2"	1157	27-7/8"	1994	36-1/4"	2954	44-5/8"	4002	53"	5105
2-7/8"	65	11-1/4"	498	19-5/8"	1169	28"	2007	36-3/8"	2970	44-3/4"	4019	53-1/8"	5122
3"	69	11-3/8"	507	19-3/4"	1180	28-1/8"	2021	36-1/2"	2985	44-7/8"	4035	53-1/4"	5138
3-1/8"	74	11-1/2"	515	19-7/8"	1192	28-1/4"	2035	36-5/8"	3000	45"	4051	53-3/8"	5155
3-1/4"	78	11-5/8"	524	20"	1203	28-3/8"	2048	36-3/4"	3015	45-1/8"	4067	53-1/2"	5172
3-3/8"	82	11-3/4"	533	20-1/8"	1215	28-1/2"	2062	36-7/8"	3030	45-1/4"	4083	53-5/8"	5188
3-1/2"	87	11-7/8"	541	20-1/4"	1226	28-5/8"	2075	37"	3045	45-3/8"	4099	53-3/4"	5205
3-5/8"	91	12"	550	20-3/8"	1238	28-3/4"	2089	37-1/8"	3060	45-1/2"	4116	53-7/8"	5222
3-3/4"	96	12-1/8"	559	20-1/2"	1249	28-7/8"	2103	37-1/4"	3076	45-5/8"	4132	54"	5239
3-7/8"	101	12-1/4"	568	20-5/8"	1261	29"	2117	37-3/8"	3091	45-3/4"	4148	54-1/8"	5255
4"	105	12-3/8"	577	20-3/4"	1273	29-1/8"	2130	37-1/2"	3106	45-7/8"	4164	54-1/4"	5272
4-1/8"	110	12-1/2"	586	20-7/8"	1284	29-1/4"	2144	37-5/8"	3121	46"	4181	54-3/8"	5289
4-1/4"	115	12-5/8"	595	21"	1296	29-3/8"	2158	37-3/4"	3137	46-1/8"	4197	54-1/2"	5306
4-3/8"	120	12-3/4"	604	21-1/8"	1308	29-1/2"	2172	37-7/8"	3152	46-1/4"	4213	54-5/8"	5322
4-1/2"	125	12-7/8"	613	21-1/4"	1320	29-5/8"	2186	38"	3167	46-3/8"	4229	54-3/4"	5339
4-5/8"	130	13"	622	21-3/8"	1332	29-3/4"	2200	38-1/8"	3183	46-1/2"	4246	54-7/8"	5356
4-3/4"	136	13-1/8"	631	21-1/2"	1344	29-7/8"	2213	38-1/4"	3198	46-5/8"	4262	55"	5373
4-7/8"	141	13-1/4"	640	21-5/8"	1356	30"	2227	38-3/8"	3213	46-3/4"	4278	55-1/8"	5389
5"	146	13-3/8"	649	21-3/4"	1368	30-1/8"	2241	38-1/2"	3229	46-7/8"	4295	55-1/4"	5406
5-1/8"	152	13-1/2"	659	21-7/8"	1380	30-1/4"	2255	38-5/8"	3244	47"	4311	55-3/8"	5423
5-1/4"	157	13-5/8"	668	22"	1392	30-3/8"	2269	38-3/4"	3260	47-1/8"	4327	55-1/2"	5440
5-3/8"	163	13-3/4"	678	22-1/8"	1404	30-1/2"	2283	38-7/8"	3275	47-1/4"	4344	55-5/8"	5457
5-1/2"	169	13-7/8"	687	22-1/4"	1416	30-5/8"	2298	39"	3291	47-3/8"	4360	55-3/4"	5473
5-5/8"	175	14"	697	22-3/8"	1428	30-3/4"	2312	39-1/8"	3306	47-1/2"	4376	55-7/8"	5490
5-3/4"	180	14-1/8"	706	22-1/2"	1440	30-7/8"	2326	39-1/4"	3322	47-5/8"	4393	56"	5507
5-7/8"	186	14-1/4"	716	22-5/8"	1452	31"	2340	39-3/8"	3337	47-3/4"	4409	56-1/8"	5524
6"	192	14-3/8"	725	22-3/4"	1465	31-1/8"	2354	39-1/2"	3353	47-7/8"	4426	56-1/4"	5541
6-1/8"	198	14-1/2"	735	22-7/8"	1477	31-1/4"	2368	39-5/8"	3368	48"	4442	56-3/8"	5557
6-1/4"	204	14-5/8"	745	23"	1489	31-3/8"	2382	39-3/4"	3384	48-1/8"	4458	56-1/2"	5574
6-3/8"	211	14-3/4"	755	23-1/8"	1502	31-1/2"	2397	39-7/8"	3399	48-1/4"	4475	56-5/8"	5591
6-1/2"	217	14-7/8"	764	23-1/4"	1514	31-5/8"	2411	40"	3415	48-3/8"	4491	56-3/4"	5608
6-5/8"	223	15"	774	23-3/8"	1526	31-3/4"	2425	40-1/8"	3431	48-1/2"	4508	56-7/8"	5625
6-3/4"	229	15-1/8"	784	23-1/2"	1539	31-7/8"	2440	40-1/4"	3446	48-5/8"	4524	57"	5641
6-7/8"	236	15-1/4"	794	23-5/8"	1551	32"	2454	40-3/8"	3462	48-3/4"	4541	57-1/8"	5658
7"	242	15-3/8"	804	23-3/4"	1564	32-1/8"	2468	40-1/2"	3478	48-7/8"	4557	57-1/4"	5675
7-1/8"	249	15-1/2"	814	23-7/8"	1576	32-1/4"	2483	40-5/8"	3493	49"	4574	57-3/8"	5692
7-1/4"	256	15-5/8"	824	24"	1589	32-3/8"	2497	40-3/4"	3509	49-1/8"	4590	57-1/2"	5709
7-3/8"	262	15-3/4"	834	24-1/8"	1602	32-1/2"	2512	40-7/8"	3525	49-1/4"	4607	57-5/8"	5726
7-1/2"	269	15-7/8"	845	24-1/4"	1614	32-5/8"	2526	41"	3540	49-3/8"	4623	57-3/4"	5742
7-5/8"	276	16"	855	24-3/8"	1627	32-3/4"	2540	41-1/8"	3556	49-1/2"	4640	57-7/8"	5759
7-3/4"	283	16-1/8"	865	24-1/2"	1640	32-7/8"	2555	41-1/4"	3572	49-5/8"	4656	58"	5776
7-7/8"	290	16-1/4"	875	24-5/8"	1652	33"	2569	41-3/8"	3588	49-3/4"	4673	58-1/8"	5793
8"	297	16-3/8"	886	24-3/4"	1665	33-1/8"	2584	41-1/2"	3603	49-7/8"	4689	58-1/4"	5810
8-1/8"	304	16-1/2"	896	24-7/8"	1678	33-1/4"	2599	41-5/8"	3619	50"	4706	58-3/8"	5827
8-1/4"	311	16-5/8"	906	25"	1691	33-3/8"	2613	41-3/4"	3635	50-1/8"	4722	58-1/2"	5843
8-3/8"	318	16-3/4"	917	25-1/8"	1704	33-1/2"	2628	41-7/8"	3651	50-1/4"	4739	58-5/8"	5860

XERXES CORPORATION 12,000 Gallon - 10' Diameter Double-Wall Tank

DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS	DIPSTICK READING	GALLONS
58-3/4"	5877	67-1/2"	7051	76-1/4"	8193	85"	9267	93-3/4"	10233	102-1/2"	11049	111-1/4"	11653
58-7/8"	5894	67-5/8"	7068	76-3/8"	8209	85-1/8"	9281	93-7/8"	10246	102-5/8"	11059	111-3/8"	11659
59"	5911	67-3/4"	7084	76-1/2"	8225	85-1/4"	9296	94"	10259	102-3/4"	11069	111-1/2"	11666
59-1/8"	5928	67-7/8"	7101	76-5/8"	8241	85-3/8"	9310	94-1/8"	10272	102-7/8"	11079	111-5/8"	11673
59-1/4"	5944	68"	7117	76-3/4"	8256	85-1/2"	9325	94-1/4"	10285	103"	11090	111-3/4"	11679
59-3/8"	5961	68-1/8"	7134	76-7/8"	8272	85-5/8"	9340	94-3/8"	10297	103-1/8"	11100	111-7/8"	11685
59-1/2"	5978	68-1/4"	7151	77"	8288	85-3/4"	9354	94-1/2"	10310	103-1/4"	11110	112"	11692
59-5/8"	5995	68-3/8"	7167	77-1/8"	8304	85-7/8"	9369	94-5/8"	10323	103-3/8"	11120	112-1/8"	11698
59-3/4"	6012	68-1/2"	7184	77-1/4"	8320	86"	9383	94-3/4"	10335	103-1/2"	11130	112-1/4"	11704
59-7/8"	6029	68-5/8"	7200	77-3/8"	8335	86-1/8"	9398	94-7/8"	10348	103-5/8"	11140	112-3/8"	11710
60"	6045	68-3/4"	7217	77-1/2"	8351	86-1/4"	9412	95"	10360	103-3/4"	11150	112-1/2"	11717
60-1/8"	6062	68-7/8"	7233	77-5/8"	8367	86-3/8"	9427	95-1/8"	10373	103-7/8"	11159	112-5/8"	11723
60-1/4"	6079	69"	7250	77-3/4"	8383	86-1/2"	9441	95-1/4"	10385	104"	11169	112-3/4"	11728
60-3/8"	6096	69-1/8"	7267	77-7/8"	8399	86-5/8"	9455	95-3/8"	10398	104-1/8"	11179	112-7/8"	11734
60-1/2"	6113	69-1/4"	7283	78"	8414	86-3/4"	9470	95-1/2"	10410	104-1/4"	11189	113"	11740
60-5/8"	6130	69-3/8"	7300	78-1/8"	8430	86-7/8"	9484	95-5/8"	10423	104-3/8"	11198	113-1/8"	11746
60-3/4"	6146	69-1/2"	7316	78-1/4"	8446	87"	9498	95-3/4"	10435	104-1/2"	11208	113-1/4"	11752
60-7/8"	6163	69-5/8"	7333	78-3/8"	8461	87-1/8"	9513	95-7/8"	10447	104-5/8"	11218	113-3/8"	11757
61"	6180	69-3/4"	7349	78-1/2"	8477	87-1/4"	9527	96"	10460	104-3/4"	11227	113-1/2"	11763
61-1/8"	6197	69-7/8"	7366	78-5/8"	8493	87-3/8"	9541	96-1/8"	10472	104-7/8"	11237	113-5/8"	11768
61-1/4"	6214	70"	7382	78-3/4"	8508	87-1/2"	9556	96-1/4"	10484	105"	11246	113-3/4"	11773
61-3/8"	6231	70-1/8"	7399	78-7/8"	8524	87-5/8"	9570	96-3/8"	10496	105-1/8"	11256	113-7/8"	11779
61-1/2"	6247	70-1/4"	7415	79"	8539	87-3/4"	9584	96-1/2"	10508	105-1/4"	11265	114"	11784
61-5/8"	6264	70-3/8"	7431	79-1/8"	8555	87-7/8"	9598	96-5/8"	10520	105-3/8"	11274	114-1/8"	11789
61-3/4"	6281	70-1/2"	7448	79-1/4"	8571	88"	9612	96-3/4"	10533	105-1/2"	11283	114-1/4"	11794
61-7/8"	6298	70-5/8"	7464	79-3/8"	8586	88-1/8"	9626	96-7/8"	10545	105-5/8"	11293	114-3/8"	11799
62"	6315	70-3/4"	7481	79-1/2"	8602	88-1/4"	9640	97"	10557	105-3/4"	11302	114-1/2"	11804
62-1/8"	6331	70-7/8"	7497	79-5/8"	8617	88-3/8"	9654	97-1/8"	10569	105-7/8"	11311	114-5/8"	11809
62-1/4"	6348	71"	7514	79-3/4"	8633	88-1/2"	9668	97-1/4"	10581	106"	11320	114-3/4"	11813
62-3/8"	6365	71-1/8"	7530	79-7/8"	8648	88-5/8"	9682	97-3/8"	10592	106-1/8"	11329	114-7/8"	11818
62-1/2"	6382	71-1/4"	7546	80"	8664	88-3/4"	9696	97-1/2"	10604	106-1/4"	11338	115"	11823
62-5/8"	6399	71-3/8"	7563	80-1/8"	8679	88-7/8"	9710	97-5/8"	10616	106-3/8"	11347	115-1/8"	11827
62-3/4"	6415	71-1/2"	7579	80-1/4"	8694	89"	9724	97-3/4"	10628	106-1/2"	11356	115-1/4"	11831
62-7/8"	6432	71-5/8"	7595	80-3/8"	8710	89-1/8"	9738	97-7/8"	10640	106-5/8"	11365	115-3/8"	11836
63"	6449	71-3/4"	7612	80-1/2"	8725	89-1/4"	9752	98"	10651	106-3/4"	11373	115-1/2"	11840
63-1/8"	6466	71-7/8"	7628	80-5/8"	8741	89-3/8"	9766	98-1/8"	10663	106-7/8"	11382	115-5/8"	11844
63-1/4"	6483	72"	7644	80-3/4"	8756	89-1/2"	9780	98-1/4"	10675	107"	11391	115-3/4"	11848
63-3/8"	6499	72-1/8"	7661	80-7/8"	8771	89-5/8"	9794	98-3/8"	10686	107-1/8"	11399	115-7/8"	11852
63-1/2"	6516	72-1/4"	7677	81"	8787	89-3/4"	9807	98-1/2"	10698	107-1/4"	11408	116"	11856
63-5/8"	6533	72-3/8"	7693	81-1/8"	8802	89-7/8"	9821	98-5/8"	10710	107-3/8"	11416	116-1/8"	11859
63-3/4"	6550	72-1/2"	7710	81-1/4"	8817	90"	9835	98-3/4"	10721	107-1/2"	11425	116-1/4"	11863
63-7/8"	6567	72-5/8"	7726	81-3/8"	8832	90-1/8"	9848	98-7/8"	10733	107-5/8"	11433	116-3/8"	11867
64"	6583	72-3/4"	7742	81-1/2"	8848	90-1/4"	9862	99"	10744	107-3/4"	11442	116-1/2"	11870
64-1/8"	6600	72-7/8"	7758	81-5/8"	8863	90-3/8"	9876	99-1/8"	10755	107-7/8"	11450	116-5/8"	11873
64-1/4"	6617	73"	7775	81-3/4"	8878	90-1/2"	9889	99-1/4"	10767	108"	11458	116-3/4"	11876
64-3/8"	6634	73-1/8"	7791	81-7/8"	8893	90-5/8"	9903	99-3/8"	10778	108-1/8"	11466	116-7/8"	11880
64-1/2"	6650	73-1/4"	7807	82"	8908	90-3/4"	9917	99-1/2"	10789	108-1/4"	11474	117"	11882
64-5/8"	6667	73-3/8"	7823	82-1/8"	8924	90-7/8"	9930	99-5/8"	10801	108-3/8"	11483	117-1/8"	11885
64-3/4"	6684	73-1/2"	7840	82-1/4"	8939	91"	9944	99-3/4"	10812	108-1/2"	11491	117-1/4"	11888
64-7/8"	6701	73-5/8"	7856	82-3/8"	8954	91-1/8"	9957	99-7/8"	10823	108-5/8"	11499	117-3/8"	11890
65"	6717	73-3/4"	7872	82-1/2"	8969	91-1/4"	9971	100"	10834	108-3/4"	11506	117-1/2"	11893
65-1/8"	6734	73-7/8"	7888	82-5/8"	8984	91-3/8"	9984	100-1/8"	10845	108-7/8"	11514	117-5/8"	11895
65-1/4"	6751	74"	7904	82-3/4"	8999	91-1/2"	9997	100-1/4"	10856	109"	11522	117-3/4"	11897
65-3/8"	6768	74-1/8"	7920	82-7/8"	9014	91-5/8"	10011	100-3/8"	10867	109-1/8"	11530	117-7/8"	11899
65-1/2"	6784	74-1/4"	7937	83"	9029	91-3/4"	10024	100-1/2"	10878	109-1/4"	11538	118"	11901
65-5/8"	6801	74-3/8"	7953	83-1/8"	9044	91-7/8"	10037	100-5/8"	10889	109-3/8"	11545	118-1/8"	11902
65-3/4"	6818	74-1/2"	7969	83-1/4"	9059	92"	10051	100-3/4"	10900	109-1/2"	11553	118-1/4"	11904
65-7/8"	6834	74-5/8"	7985	83-3/8"	9074	92-1/8"	10064	100-7/8"	10911	109-5/8"	11560	118-3/8"	11904
66"	6851	74-3/4"	8001	83-1/2"	9089	92-1/4"	10077	101"	10922	109-3/4"	11568		
66-1/8"	6868	74-7/8"	8017	83-5/8"	9104	92-3/8"	10090	101-1/8"	10933	109-7/8"	11575		
66-1/4"	6884	75"	8033	83-3/4"	9119	92-1/2"	10103	101-1/4"	10943	110"	11583		
66-3/8"	6901	75-1/8"	8049	83-7/8"	9134	92-5/8"	10117	101-3/8"	10954	110-1/8"	11590		
66-1/2"	6918	75-1/4"	8065	84"	9148	92-3/4"	10130	101-1/2"	10965	110-1/4"	11597		
66-5/8"	6934	75-3/8"	8081	84-1/8"	9163	92-7/8"	10143	101-5/8"	10975	110-3/8"	11604		
66-3/4"	6951	75-1/2"	8097	84-1/4"	9178	93"	10156	101-3/4"	10986	110-1/2"	11611		
66-7/8"	6968	75-5/8"	8113	84-3/8"	9193	93-1/8"	10169	101-7/8"	10997	110-5/8"	11618		
67"	6984	75-3/4"	8129	84-1/2"	9208	93-1/4"	10182	102"	11007	110-3/4"	11625		
67-1/8"	7001	75-7/8"	8145	84-5/8"	9222	93-3/8"	10195	102-1/8"	11018	110-7/8"	11632		
67-1/4"	7018	76"	8161	84-3/4"	9237	93-1/2"	10208	102-1/4"	11028	111"	11639		
67-3/8"	7034	76-1/8"	8177	84-7/8"	9252	93-5/8"	10221	102-3/8"	11038	111-1/8"	11646		x1012dw.10-08



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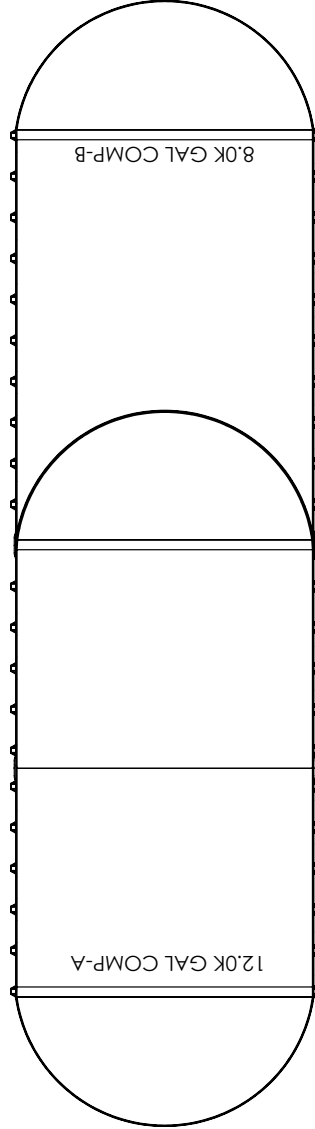
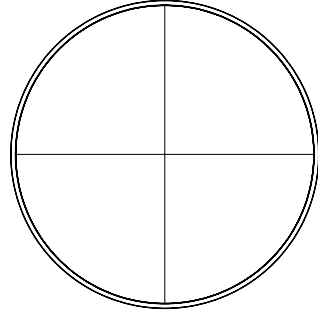
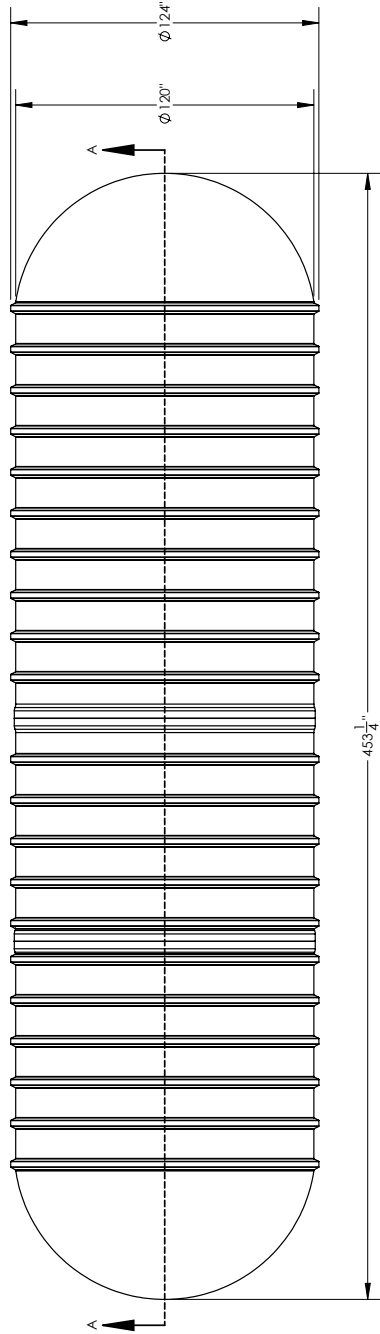
TITLE 10' DIA. DOUBLE-WALL
CAP - 20,000 GALLONS
MADE-TO-ORDER

DATE 3-14 DR. NO. S11-744.00

ITEM	QTY	DESCRIPTION
A	1	4" NPT MONITOR FITTING
B	1	OPTIONAL 18" DIA., HYDROSTATIC MONITORING RESERVOIR WITH 4" NPT FITTING
C	4	LIFTING LUG
D	4	OPTIONAL 18" PREFABRICATED CONCRETE DEADMAN
X	6	HOLD DOWN STRAP LOCATION

MADE-TO-ORDER NOTES:

1. TANK AS SHOWN IS DOUBLE WALL DRY, DOUBLE WALL BRINE MONITORED AND SINGLE WALL HAVE SAME CRITICAL DIMENSIONS
2. TANK REQUIRES 6 ANCHOR STRAPS, EQUALLY DISTRIBUTED WITH NO EMPTY DEADMEN SLOTS
3. CUSTOMER PROPOSED ACCESSORY LAYOUT MAY NEED ADJUSTING TO ACCOMMODATE ANCHOR STRAPS
4. THE FIRST AND LAST ANCHOR STRAP CAN BE NO MORE INBOARD THAN THE 2ND RIB FROM EITHER END
5. DEADMEN ARE OPTIONAL
6. NOMINAL WEIGHT AS PER 'MOG'



SECTION A-A
SCALE 1 : 50

MATERIAL: XERXES FRP

PROPRIETARY AND CONFIDENTIAL DO NOT SCALE DRAWING UNLESS OTHERWISE NOTED

THIS DRAWING IS THE PROPERTY OF SHAWCOR. THE RIGHTS OF SHAWCOR ARE RESERVED. THIS DRAWING IS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT ONLY. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION AND AUTHORIZATION OF SHAWCOR.

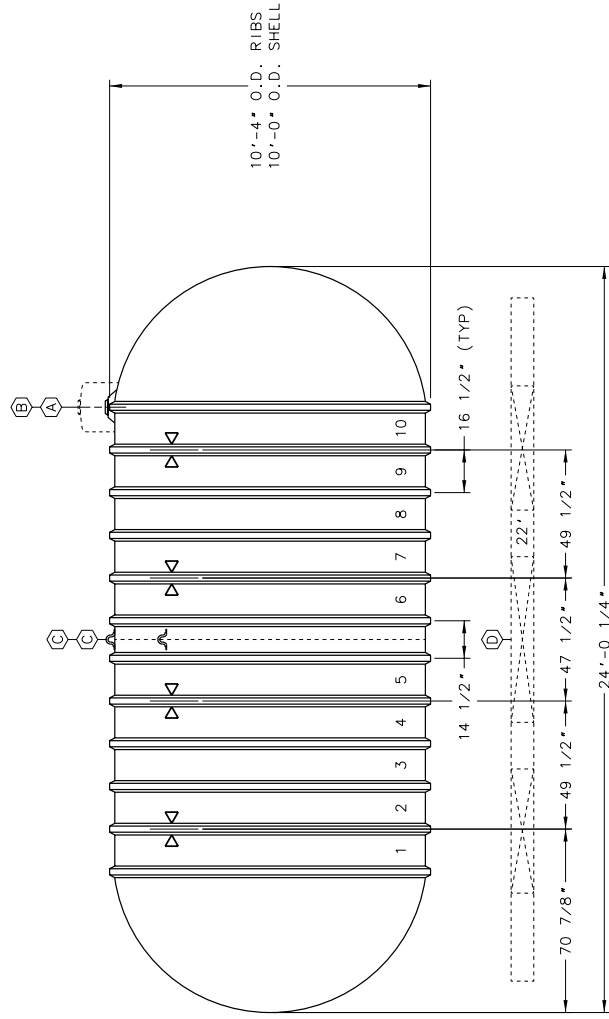
DESCRIPTION: 10DIA DW DRY 12K x 8K GALLONS

SIZE: B DWG NO: XS-002377 PART NO: N/A

WEIGHT: SEE MOG SHEET TO OF 32

REV #	REV DATE	CHK BY	CHK DATE	DESCRIPTION
2	JAN 07 2023	JH	JAN 09 2023	CORRECTED SHEET # AND 12 BID TANK, ADDED SHEET # 4
1	SEP 13 2022	PMW	SEP 21 2022	INITIAL RELEASE

REV #	REV DATE	CHK BY	CHK DATE	DESCRIPTION
1				



ITEM	QTY	DESCRIPTION
A	1	4" NPT MONITOR FITTING
B	1	OPTIONAL 18" D.I.A. HYDROSTATIC MONITORING RESERVOIR WITH 4" NPT FITTING
C	2	LIFTING LUG
D	2	OPTIONAL 22' PREFABRICATED CONCRETE DEADMAN
∞	4	HOLD DOWN STRAP LOCATION

XERXES
a xcl company

TITLE 10' DIA. DOUBLE-WALL
CAP. 12,000 GALLONS
MADE-TO-ORDER

DATE 3-14 DR. NO. S11-742.00

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: Richard V. Klar, P.G.


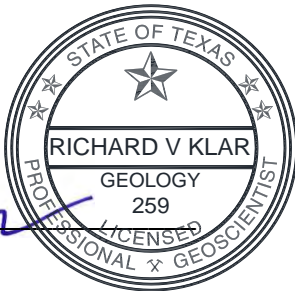
Telephone: 210-699-9090

Date: March 1, 2024

Fax: 210-699-6426

Representing: Raba Kistner, Inc., TBPG Firm #50220 / TBPE Firm #3257 for Morris + Associates (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:


 3/1/24

Regulated Entity Name: Circle K – Culebra and Talley, 1.95 Acres

Project Information

1. Date(s) of Geologic Assessment was performed: February 23, 2024

2. Type of Project:

WPAP

AST

SCS

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)
Houston Black clay, 0-1% slopes (HtA)	C	~0-4.5 foot
Lewisville silty clay, 1-3% slopes (LvB)	C	~0-3.0 feet

**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 thickness 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” = 20’

Site Geologic Map Scale: 1” = 20’

Site Soils Map Scale (if more than 1 soil type): 1” = 50’

9. Method of collecting positional data:

- Global Positioning System (GPS) technology.
- Other method(s). Please describe method of data collection: ____

10. The project site 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 11 (#) test holes present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

- The test holes 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

- 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.

ATTACHMENTS

ATTACHMENT A

GEOLOGIC ASSESSMENT TABLE (TCEQ-0585-TABLE)

COMMENTS TO GEOLOGIC ASSESSMENT TABLE

SOIL PROFILE

SITE SOILS MAP

GEOLOGIC ASSESSMENT TABLE										PROJECT NAME: Circle K - Culebra and Talley, 1.95 Acres San Antonio, Bexar County, Texas (RKI Project No. ASF24-027-00)										
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)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z								<40	≥40	<1.6	≥1.6	
S-1	29°31'6.59"N	98°46'31.57"W	MB (COMM)	30	T-Qu	210	2.0	~3-4					F / X	6	36	✓		✓		Hilltop
S-2	29°31'6.53"N	98°46'28.64"W	MB (G)	30	T-Qu	524	3.0	~4-6					F / X	6	36	✓		✓		Hilltop
S-3	29°31'4.68"N	98°46'28.95"W	MB (SS)	30	T-Qu	417	3.0	~8-10					F / X	8	38	✓		✓		Hilltop
S-4	29°31'3.93"N	98°46'31.04"W	MB (SD)	30	T-Qu	15	3.0	~6-8					F / X	8	38	✓		✓		Hilltop
S-5	29°31'4.82"N	98°46'31.24"W	MB (GEO, B-1)	30	T-Qu	0.3	0.3	1.0					Y	6	36	✓		✓		Hilltop
S-6	29°31'5.16"N	98°46'30.35"W	MB (GEO, B-2)	30	T-Qu	0.3	0.3	15.0					Y	6	36	✓		✓		Hilltop
S-7	29°31'5.96"N	98°46'29.40"W	MB (GEO, B-3)	30	T-Qu	0.3	0.3	15.0					Y	6	36	✓		✓		Hilltop
S-8	29°31'6.20"N	98°46'31.34"W	MB (GEO, B-4)	30	T-Qu, Kpg	0.3	0.3	30.0					Y	6	36	✓		✓		Hilltop
S-9	29°31'6.74"N	98°46'29.20"W	MB (GEO, B-5)	30	T-Qu, Kpg	0.3	0.3	30.0					Y	6	36	✓		✓		Hilltop
S-10	29°31'6.83"N	98°46'30.41"W	MB (GEO, B-6)	30	T-Qu, Kpg	0.3	0.3	25.0					Y	6	36	✓		✓		Hilltop
S-11	29°31'5.36"N	98°46'28.41"W	MB (GEO, P-1)	30	T-Qu	0.3	0.3	10.0					Y	6	36	✓		✓		Hilltop
S-12	29°31'4.67"N	98°46'30.62"W	MB (GEO, B-101)	30	T-Qu	0.3	0.3	5.0					Y	6	36	✓		✓		Hilltop
S-13	29°31'5.68"N	98°46'31.07"W	MB (GEO, B-102)	30	T-Qu	0.3	0.3	5.0					Y	6	36	✓		✓		Hilltop
S-14	29°31'5.37"N	98°46'29.35"W	MB (GEO, B-103)	30	T-Qu	0.3	0.3	14.4					Y	6	36	✓		✓		Hilltop
S-15	29°31'6.38"N	98°46'30.09"W	MB (GEO, B-104)	30	T-Qu	0.3	0.3	13.8					Y	6	36	✓		✓		Hilltop

* DATUM: NAD 83


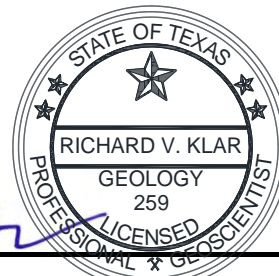
Features: COMM = communication; G = natural gas; SS = sanitary sewer; SD = storm drain; GEO = geotechnical boring, boring name

Formation: Q-Tu = Uvalde Gravel; Kpg = Pecan Gap Chalk

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: Granular bedding materials for utility lines and storm drain (Features S-1 through S-4).
Y	Other materials: All test holes were plugged to ground surface using site-derived (clay) soil cuttings and/or with granular bentonite.
12 TOPOGRAPHY	
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed	

I have read, I understood, and I have followed the Texas Natural Resource Conservation Commission'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 213.

Date: March 1, 2024

Sheet 1 of 1

COMMENTS TO GEOLOGIC ASSESSMENT TABLE
Circle K – Culebra and Talley, 1.95 Acres
San Antonio, Bexar County, Texas

The locations of the following features are indicated on the *Site Geologic Map* provided as *Attachment D* of this report. The sanitary sewer utility line and storm drain locations, were plotted based on plans provided by the project engineer (Morris + Associates [Morris], 2024), in addition to field observations.

Manmade Features in Bedrock (MB)

Feature S-1 (Communication Utility Trench)

Feature S-1 consists of a trench for a communications utility. The location of this trench was identified based on observations of flagging, and a stake within the project boundary. On the basis of our observations, it is inferred that the trench hosting the utility line is installed 3-4 feet or more into Uvalde Gravel (T-Qu) formation. The trench is inferred to cross through a portion of the subject property along the north side boundary, extending beyond the limits and connect to a telecommunications vault near the corner at the Culebra Road and Talley Road intersection. The length of the utility trench within the assessment area is estimated at approximately 210 linear feet.



Feature S-2 (Natural Gas Utility Trench)

Feature S-2 consists of a trench for a natural gas line owned by City Public Service (CPS) Energy. The location of this trench was identified based on a utility plan (Morris, 2024), observations of a gas line marker, flagging, paint markings, valves, and riser pipes. On the basis of our observations and review of the plan, it is inferred that the trench hosting the utility line is installed 4-6 feet or more into the T-Qu. The trench is inferred to cross into the subject property on the north side and parallels Talley Road along the west property boundary toward an access drive at the south end, and extends along the drive to the beyond the project limits. The length of the utility trench within the assessment area is estimated at approximately 524 linear feet.



Feature S-3 (Sanitary Sewer Utility Trench)

Feature S-3 consists of a trench for a 6-inch sanitary sewer line owned by San Antonio Water System (SAWS). The location of this trench was identified based on a utility plan (Morris, 2024), and observations of riser pipes and manholes. On the basis of our observations and review of the plan, the trench hosting the sanitary sewer utility line is installed 8-10 feet or more into the T-Qu. The trench is located southwest of Talley Road beginning at a manhole within an access drive and extends along the roadway to beyond the project limits. In addition, the trench extends northwest just beyond the roadway curb and parallel the access drive to beyond the project boundary. The length of the utility trench within the assessment area is estimated at approximately 417 linear feet.



Feature S-4 (Storm Drain Trench)

Feature S-5 consists of a trench for an 18-inch storm drain owned by the City of San Antonio. The location of this trench was identified based on a utility plan (Morris, 2024) and observations of inlets and manholes. On the basis of our observations and review of the plans, the trench hosting the storm is installed 6-8 feet or more into the T-Qu. The trench extends from a manhole in the access drive near the southwest property corner and extends northwest along the property boundary to an inlet at the roadway curb. The length of the utility trench within the assessment area is estimated at approximately 15 linear feet.

Features S-5 and S-15 (Plugged Geotechnical Test Holes)

Features S-5 through S-15 consist of plugged geotechnical test holes installed in two phases in April 2022 and August 2023 by **Raba Kistner, Inc. (RKI)** to support the proposed improvements. The borings were drilled within the planned development area using a truck-mounted drilling rig to depths ranging from 5 to 30 feet, with the exception of B-1. Boring B-1 was terminated at 1 foot due to mechanical issues with the drill rig. The near-surface soil conditions logged in conjunction with these drilling activities generally consisted of a firm to hard dark brown clay with traces of organics to depths of approximately 5.5 feet. The surface soils are underlain by tan gravelly clay or clayey sand from approximately 2 to 17 feet deep (T-Qu), which are in turn underlain by a hard calcareous tan and gray clay stratum (Kpg). The borings are no longer visible owing to site-grading activities but are reported to have been plugged with soil cuttings and/or bentonite with a clay cap.

SOIL PROFILE
Circle K – Culebra and Talley, 1.95 Acres
San Antonio, Bexar County, Texas

SOIL SERIES	THICKNESS ON SITE	DESCRIPTION
Houston	~0-4.5 feet	Houston Black clay, terrace, 0 to 1 percent slopes (HtA): This unit has a fine blocky structure consisting of a dark gray calcareous clay at the surface, measuring approximately 40 inches thick which typically overlies a gray clay layer 15 inches thick. The underlying material is variable from a clay loam to a sandy loam ranging in color from a reddish-yellow and dark brown to light gray.
Lewisville	~0-3.0 feet	Lewisville silty clay, 1 to 3 percent slopes (LvB): This soil unit consists of nearly level alluvial soils with a surface layer of dark grayish-brown clay typically 20 inches thick. The subsoil consists of a limy, brown clay that is about 17 inches thick and is firm but crumbly when moist.

The preceding table was prepared on the basis of information provided in the *Soils Survey of Bexar County, Texas (June 1991)*, in addition to field observations and geotechnical drilling data. As described above and depicted on the attached **Site Soils Map**, native soils within the project area are classified as the Houston Black and Lewisville series. The soils covering the majority of the project area are classified as Lewisville silty clay, 1 to 3 percent slopes (LvB). Soils of the Lewisville silty clay have a measured permeability on the order of 1.0 to 2.0 in/hr and are described as “moderate”. Other characteristics of this soil type are described as having a high potential for corrosion, with good internal drainage indicating low to moderate susceptibility to erosion. This association generally occurs on long narrow sloping areas separating nearly level terraces from soils on the uplands.



View toward the Culebra and Talley Road intersection of clay soils excavated along the north adjacent of project perimeter for the Culebra Road improvements.



General view of the clay topsoil across the SITE, taken from the northwest corner.

Soils underlying the southeast corner of the assessment area are classified as Houston Black clay, terrace, 0 to 1 percent slopes (HtA). HtA soils have a measured permeability on the order of 0.3 to 0.8 in/hr and are described as “slow”. This soil type is further described as having a very high potential for corrosion, cracks when dry, and with poor internal drainage indicating low susceptibility to erosion. This association generally occurs as nearly level and gently sloping areas on the uplands.

The geotechnical report prepared by **Raba Kistner, Inc. (2023)** was reviewed to evaluate soil and rock conditions within the project area. The surface layer is a topsoil consisting of a firm to hard dark brown clay with traces of organics to depths of 5.5 feet. The subsurface layers consists of a tan gravelly clay, tan clayey sand, or tan clayey gravel with calcareous material ranging from 2 to 17 feet in depth, underlain by a tan and gray clay to boring depth (i.e., approximately 30 feet).

ATTACHMENT B

STRATIGRAPHIC COLUMN

STRATIGRAPHIC COLUMN
Circle K – Culebra and Talley, 1.95 Acres
San Antonio, Bexar County, Texas

STRATIGRAPHIC FORMATION	THICKNESS	DESCRIPTION
Uvalde Gravel (T-Qu)	2 to 20± feet	This unit is comprised of caliche-cemented gravel, with well-rounded cobbles of chert, some cobbles of quartz, limestone, and igneous rock. <i>This formation represents the near-surface geologic formation underlying soil cover at the SITE. The T-Qu (i.e., tan gravelly clay, tan clayey sand, or tan clayey gravel with calcareous material) was reported in the geotechnical boring logs ranging from 2 to 17 feet.</i>
Pecan Gap Chalk (Kpg)	100 to 400 feet	This unit is comprised of very light yellow to yellowish-brown chalk and chalky marl, which is more calcareous to the west. The Kpg weathers to form moderately deep soil, which is seldom exposed. Identified in the field by the presence of <i>Exogyra ponderosa</i> . <i>Not exposed at the SITE. Geotechnical borings encountered Kpg from depths ranging from approximately 14 to 30 below ground surface.</i>
Austin Chalk (Kau)	350-580 feet	This unit consists of grayish-white to white chalk, limestone and marl. Highly fossiliferous. No karst development with low matrix permeability.
Eagle Ford Shale (Kef)	30-75 feet	The upper portion of this unit consists of light yellowish-brown limestone and shale with the lower portion comprising of light yellow to gray, laminated and flaggy siltstone and very fine-grained sandstone.
Buda Limestone (Kbu)	60-100 feet	This unit consists of fine grained, bioclastic, commonly glauconitic, pyritiferous, hard, massive, poorly bedded to nodular, thinner bedded and argillaceous near upper contact, light gray to pale orange: weathers dark gray to brown: burrows filled with chalky marl, abundant pelecypods: thickness is approximately 60 feet.
Del Rio Clay (Kdr)	60-120 feet	This unit is comprised of a blocky gray calcareous clay that weathers light gray to yellowish-gray, with some lenticular beds of highly calcareous siltstone. Identified in the field by the presence of <i>Ilymatogyra arietina</i>
Edwards Limestone (Ked)	180-224 feet	Unit consists of <i>miliolid</i> grainstone, mudstone to packstone, and chert. Identified in the field by massive to relatively thin beds.

Note: Stratigraphic Column adapted Barnes (1983).

ATTACHMENT C

NARRATIVE OF SITE SPECIFIC GEOLOGY

SITE GEOLOGY NARRATIVE
Circle K – Culebra and Talley, 1.95 Acres
San Antonio, Bexar County, Texas

Introduction

The following is a project-specific discussion of existing geological conditions and potential recharge features identified for the planned Circle K Corner Store project. This geologic assessment was performed by **Raba Kistner, Inc. (RKI)** for Morris + Associates pursuant to applicable Edwards Aquifer Protection Program Rules as specified in *Title 30 of the Texas Administrative Code, Section 213 (30 TAC §213, effective April 24, 2008)*. This report is in the format required by the Texas Commission on Environmental Quality (TCEQ) for the Geologic Assessment portion of the Underground Storage Tank (UST) submittal and was prepared in accordance with the revised *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585)*, which are applicable to submittals received by the TCEQ after October 1, 2004.

This geologic assessment report documents conditions observed by **RKI** within the site boundaries on February 23, 2024.

Site Description

Site Location. The project area comprises approximately 1.95 acres of land and is located at the southwest corner of Culebra Road and Talley Road on the west side of Bexar County, Texas (hereinafter referred to as SITE). The SITE has been previously graded. Planned construction activities will include the installation of the following: (i) a single-story, approximately 5,200 square foot building; (ii) a detached passenger vehicle fuel pump canopy; (iii) an underground storage tank (UST) system; and (iv) associated parking and driveway areas. Based on review of official maps published by the TCEQ, the SITE is fully located within the Edwards Aquifer Transition Zone (EATZ). As such, the performance of a geologic assessment is required to facilitate planned construction activities in accordance with applicable provisions set forth in the Edwards Aquifer Protection Program (EAPP) rules.



As presented on the attached **Site Geologic Map**, current adjacent properties include Culebra Road right-of-way (ROW) to the north; Talley Road ROW to the east; a multi-family development (Kallison Ranch) to the southeast; vacant land under development to the south and southeast; and a Burger King restaurant (currently under development) to the west.

Topography and Drainage. Topographic information for the SITE obtained from the *San Geronimo, Texas Topographic Quadrangle Map* prepared by the United States Geological Survey (USGS, 2013) and 1-foot topographic contours provided by the City of San Antonio (CoSA, 2023) was reviewed to evaluate the general surface conditions and drainage patterns are depicted on the **Site Geologic Map**. The SITE consists of very gently sloping hilltop topography, exhibiting a maximum elevation near the northwest property corner of approximately 1005 feet relative to mean sea level (msl), which slopes to a minimum elevation of 1002 feet msl along the southeast corner. The primary surface drainage pattern for the SITE is to the southeast toward existing stormwater conveyances along Talley Road, discharging to an earthen drainage channel, which is located east of Harlan High School (approximately 0.15 miles from the SITE's southeast property corner). The runoff contained within the drainage easement ultimately discharges approximately 4 miles away to the southeast/east to Culebra Creek. A review of the Flood Insurance Rate Map (FIRM 48029C0195G, FEMA, September 29, 2010) indicates that no portion of the SITE is within the designated 100-year floodplain.

Historical Property Use. Although research pertaining to past operations and historical land use activities within the project area was beyond the scope of this assessment, historical aerial imagery was reviewed to evaluate historical land use and the presence of lineations that could indicate the presence of faulting. The following aerial photographs were reviewed using Google Earth™: 1995, 2003, 2004, 2008, 2010, 2012-2023. Below is a list of land development activities observed within the assessment area:

- These aerial photographs from 1995 to 2019 depict the SITE as undeveloped land.
- The 2020 aerial photograph depicts a new boundary line on the north side for the expanded Culebra Road right-of-way.
- The 2021 aerial photograph indicates the addition of overhead power poles along the north project boundary (i.e., north adjacent) and grading (i.e., tree removal) along the west property boundary.
- The SITE is under development (i.e., several materials stockpiles evident) in the 2022 and 2023 aerial photographs.

There are no water wells located within the SITE boundaries or within 500-feet of the subject property. Review of the Texas Water Development Board (TWDB) records indicate that the nearest water well, owned by San Antonio Water System is located at the Country Oaks Mobile Home Park located at 7510 Talley Road (i.e., approximately 0.87 miles from the SITE). The well, State Well Number 68-26-904, was reportedly constructed on June 14, 1984 to a depth of 900 feet below ground surface (bgs) within the Edwards Aquifer for public-water supply purposes. A water level measurement of 318 feet bgs was taken on June 20, 1984.

Classification of Recharge Features: As further described herein, no naturally-occurring recharge features attributed to karstification of limestone terrain and/or surface erosional processes were identified within PROJECT boundaries. Features identified and discussed below include 15 manmade features (i.e.,

communication, natural gas, and sanitary sewer utility lines, a storm drain, in addition to plugged test holes). The significance of these features was assessed using definitions and guidance provided in *Instructions to Geologists (TCEQ-0585-Instructions, revised October 1, 2004)*. All features within the PROJECT that met the criteria presented in this reference were mapped. The characteristics of all mapped features and the assessments of these features, as defined by the TCEQ, are presented in the attached ***Geologic Assessment Table (TCEQ-0585-Table)***.

Stratigraphy

As presented in the attached ***Stratigraphic Column***, information pertaining to the lithologies and thickness of geologic units was taken from the *Geologic Atlas of San Antonio Sheet* (Barnes, 1983) published by the Bureau of Economic Geology at the University of Texas. The near-surface geologic formation underlying the SITE is the Uvalde Gravel (T-Qu), which is underlain by the Pecan Gap Chalk (Kpg) formation. These geologic formations are described as follows:

- The Uvalde Gravel consists of limestone and pebbles or boulders of chert or quartz embedded in clay or silt. The T-Qu deposits reportedly range from several feet to approximately 20 feet in thickness in Bexar County. The Uvalde Gravel contains little to no water due to its topographic position on hilltops and is not known to be karst forming. The geotechnical boring logs previously installed by RKI indicate that the T-Qu was encountered from 2 to 17 in depth.
- The Pecan Gap Chalk formation underlies the T-Qu and consists of very light yellow to yellow brown calcareous shale marl which weathers to form moderately deep soils. The Kpg is reported on the order of 100 – 400 feet thick in Bexar County. No exposures of the Kpg were observed within the assessment area and immediate surrounding development. The Kpg was encountered at the SITE at depths between 14 to 30 feet bgs as reported in the geotechnical boring logs.

Structure

This project area is located along the southern edge of the Balcones Fault Zone and, as such, possesses a distinct structural trend. In the SITE vicinity, this zone is characterized by primarily northeast–southwest trending normal faults. Locally, large scale normal faulting is expressed with the upthrown sides of the normal fault blocks to the northwest and the downthrown sides to the southeast. As a result of this larger-scale, regional faulting, minor internal fault sequences and fractures exist throughout this zone, which follow the same structural trend and accommodate localized displacement.

Based on review of the published reference to the SITE area, (i.e., Barnes, 1983), no large-scale normal faults or fault zones have been mapped to cross the SITE. Based on our review of historical aerial photographs, no pervasive lineations indicative of faulting were identified. No field indications of faulting (e.g., lineations, changes in soil type and vegetation, fractured rock outcrops, etc.) was observed in conjunction with field reconnaissance efforts. The nearest mapped normal fault (Barnes, 1983) is located approximately 1.3 miles northeast from the SITE.

Karst Features

The results of field mapping activities did not reveal the presence of any features within SITE boundaries that could be attributed to karstification of the underlying limestone terrain.

Manmade Features

As presented on the *Site Geologic Map*, a total of 15 manmade features were identified that may potentially serve to enhance the transmission of surface runoff to the subsurface. The features consist of a communications, natural gas, sanitary sewer utilities and storm drain trenches, in addition to plugged geotechnical test holes which meet the criteria for assessment as manmade features in bedrock. Information regarding the locations of the existing sanitary sewer utility and storm drain trenches were gleaned from survey and utility plans provided by Morris on February 22, 2024, field observations of stakes, paint markings, riser pipes, hydrants, manway access points or valves, and review of the Geotechnical Engineering Report (RKI, 2023). The specific utility trench features identified are listed below:

Feature S-1 consists of communication utility line.

Feature S-2 consists of a natural gas utility line owned by City Public Service (CPS) Energy.

Feature S-3 consists of a sanitary sewer utility line owned by the SAWS.

Feature S-4 consists of a storm drain owned by the City of San Antonio.

Although not directly observable, it is inferred that the trenches for these subgrade installations are backfilled in accordance with standard construction practices that include the use of structural fill soils (e.g., base course materials, limestone gravel, compacted clay soils, etc.) overlain by native or fill soils, depending upon location and surface improvements. The trenches were not observed in conjunction with any naturally-occurring recharge features. Although the backfilled trenches may exhibit somewhat greater relative infiltration rate than the surrounding soil/rock strata underlying the project boundaries, these manmade features are collectively classified as not sensitive, having a low potential of preferentially transmitting fluids into the Edwards Aquifer. This classification is based upon the point assignment criteria presented in the *Geologic Assessment Table (TCEQ-0585)* and professional judgment.

Features S-5 through S-15 consist of plugged geotechnical test holes installed by RKI in April 2022 and August 2023, to evaluate engineering characteristics to develop foundation and pavement designs and construction recommendations. These were reportedly installed to depths ranging from approximately 1 to 30 feet. No shallow groundwater was observed during drilling operations. These features are collectively classified as not sensitive as they have been plugged and no longer exist.

Potential for Fluid Migration to the Edwards Aquifer

Based on our review of SITE geology, topography and drainage conditions, in addition to the results of our detailed mapping efforts, the overall potential for fluid movement (i.e. surface-derived flow) to the Edwards Aquifer via infiltration is considered to be low. The following assessment findings support this conclusion.

- The entire SITE contains soil cover defined as Group C, which is described as having low capacity to transmit infiltrating precipitation. The SITE is fully located within the EATZ and underlain to depths of 30+ feet by geologic strata of the T-Qu and Kpg that not known to be karst forming.
- There were no naturally-occurring recharge features attributed to karstification of limestone bedrock or erosional processes identified as a result of field reconnaissance mapping efforts throughout the SITE.
- Manmade features present at the SITE, are collectively classified as not sensitive based on consideration of construction/plugging details and application of point assignment criteria and professional judgment.

References

Barnes, V. L., 1974, Revised 1983, Geologic Atlas of Texas Austin Sheet; Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas.

City of San Antonio, 2023b, *City of San Antonio Contours and Hydrology Interactive GIS Map*. <https://gis.sanantonio.gov/PWD/ContourMap/index.html>. City of San Antonio Transportation & Capital Improvement (accessed February 28, 2024).

Google Earth™, January 1995, December 2003, December 2004, May 2008, January 2010, April and November 2012, February 2013, February and November 2014, January, May, and November 2016, January 2017, January and December 2018, November 2019, April and December 2020, October 2021, March 2022, and June 2023.

Morris + Associates, 2024, *Overall Utility Plan*, Sheet C3.09 prepared by Pape-Dawon Engineers, Inc., dated July 2022 (*UTILITY PLAN.pdf*) and *Alta/NSPS Land Title and Topographic Survey (5902-ALTA.pdf)* prepared by Robert Kness, dated September 21, 2023; provided to RKI via email correspondence on February 22, 2024.

Maclay, R. W., 1995, Geology and hydrogeology of the Edwards aquifer in the San Antonio area, Texas: U.S. Geological Survey Water Resources Investigations Report 95-4186, 64 p.

National Flood Insurance Program, 2010, Flood Insurance Rate Map (FIRM), Bexar County, Texas and Incorporated Areas; Federal Emergency Management Agency (FEMA), Map 48029C0195G.

Raba Kistner, Inc. (RKI), 2023, *Geotechnical Engineering Study For Circle K –San Antonio. Project No.: ASA22-035-00*. Revised Report dated September 20, 2023.

TCEQ Edwards Aquifer Protection Program, 1998, Edwards Aquifer Recharge Zone Map, San Geronimo Quadrangle; TNRCC, September 1998.

Texas Water Development Board, Water Data Interactive (WDI) Groundwater Data Viewer, <https://www2.twdb.texas.gov/apps/WaterDataInteractive/GroundwaterDataViewer/?map=sdr>, accessed February 28, 2024.

United States Geological Survey (USGS), 2013, San Geronimo Quadrangle; USGS, Denver, Colorado.

United States Department of Agriculture (USDA), 1974, Soil Survey of Travis County, Texas; USDA / Soil Conservation Service / Texas Agricultural Experiment Station.

United States Department of Agriculture (USDA), 1986, Urban Hydrology for Small Watersheds; USDA / Natural Resource Conservation Service, Technical Release (TR-) 55, June 1986.

ATTACHMENT D

FEATURE POSITION TABLE (GPS COORDINATES)

SITE GEOLOGIC MAP

FEATURE POSITION TABLE
Circle K - Culebra and Talley, 1.95 Acres
San Antonio, Bexar County, Texas
 RKI Project No. ASF24-027-00

Feature Designation	Feature Type	Date Collected	North Latitude	West Longitude	UTM Northing (meters)	UTM Easting (meters)
S-1	Manmade feature in bedrock (Communication Utility Line)	2/23/2024	29°31'6.59"N	98°46'31.57"W	3265454	521762
S-2	Manmade feature in bedrock (Natural Gas Utility Line)	2/23/2024	29°31'6.53"N	98°46'28.64"W	3265452	521841
S-3	Manmade feature in bedrock (Sanitary Sewer Utility Line)	2/23/2024	29°31'4.68"N	98°46'28.95"W	3265395	521833
S-4	Manmade feature in bedrock (Storm Drain)	2/23/2024	29°31'3.93"N	98°46'31.04"W	3265372	521777
S-5	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-1)	4/2/2022	29°31'4.82"N	98°46'31.24"W	3265400	521772
S-6	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-2)	4/28/2022	29°31'5.16"N	98°46'30.35"W	3265410	521795
S-7	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-3)	4/28/2022	29°31'5.96"N	98°46'29.40"W	3265435	521821
S-8	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-4)	4/28/2022	29°31'6.20"N	98°46'31.34"W	3265442	521769
S-9	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-5)	4/28/2022	29°31'6.74"N	98°46'29.20"W	3265459	521826
S-10	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-6)	4/28/2022	29°31'6.83"N	98°46'30.41"W	3265461	521794
S-11	Manmade feature in bedrock (Plugged Geotechnical Test Hole, P-1)	4/28/2022	29°31'5.36"N	98°46'28.41"W	3265416	521848
S-12	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-101)	8/21/2023	29°31'4.67"N	98°46'30.62"W	3265395	521788
S-13	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-102)	8/21/2023	29°31'5.68"N	98°46'31.07"W	3265426	521776
S-14	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-103)	8/21/2023	29°31'5.37"N	98°46'29.35"W	3265417	521822
S-15	Manmade feature in bedrock (Plugged Geotechnical Test Hole, B-104)	8/21/2023	29°31'6.38"N	98°46'30.09"W	3265448	521802

- Notes:**
1. Geographic coordinates are presented Degrees, Minutes, Decimal Seconds
 2. Reference Datum is NAD 83.
 3. Data were collected utilizing a **Garmin GPS 60cx Global Positioning System**.
 4. Horizontal Accuracy: RMS Value < 3 meter ground resolution.
 5. GPS data were collected by Richard Sample (RKI Project Professional).
 6. GPS coordinates for the test holes were taken from the geotechnical borings logs prepared by **Raba Kistner, Inc.**, Project No. AAA22-035-00.
 7. GPS coordinates correlate to the points on the map for each feature.

Owner Authorization Form

Texas Commission on Environmental Quality
for Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

Land Owner Authorization

I, Philip Pfeiffer of
Land Owner Signatory Name

SWC Culebra/Talley Retail, Ltd.
Land Owner Name (Legal Entity or Individual)

am the owner of the property located at
CB 4451B, BLOCK 212 LOT 7

Legal description of the property referenced in the application

and am duly authorized in accordance with §213.4(c)(2) and §213.4(d)(1) or §213.23(c)(2) and §213.23(d) relating to the right to submit an application, signatory authority, and proof of authorized signatory.

I do hereby authorize Circle K Stores, Inc.
Applicant Name (Legal Entity or Individual)

to conduct Convenience Store w/ Fuel
Description of the proposed regulated activities

at Southwest Corner of Culebra Rd and Talley Rd.
Precise location of the authorized regulated activities

Land Owner Acknowledgement

I understand that SWC Culebra/Talley Retail, Ltd.
Land Owner Name (Legal Entity or Individual)

Is ultimately responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation even if the responsibility for compliance and the right to possess and control the property referenced in the application has been contractually assumed by another legal entity. I further understand that any failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature

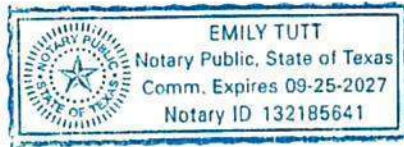
[Handwritten Signature]
Land Owner Signature

11/17/23
Date

THE STATE OF § Texas
County of § Bexar

BEFORE ME, the undersigned authority, on this day personally appeared Philip J. Pfeiffer Jr. 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 17th day of November



[Handwritten Signature]
NOTARY PUBLIC

Emily Tutt
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 9.25.27

Attached: (Mark all that apply)

- Lease Agreement
- Signed Contract
- Deed Recorded Easement
- Other legally binding document

Applicant Acknowledgement

I, Marcella Rocha of Circle K Stores, Inc.
Applicant Signatory Name Applicant Name (Legal Entity or Individual)

acknowledge that Philip J. Pfeiffer Jr.
Land Owner Name (Legal Entity or Individual)

has provided Circle K Stores, Inc.
Applicant Name (Legal Entity or Individual)

with the right to possess and control the property referenced in the Edwards Aquifer protection plan.

I understand that Circle K Stores, Inc.
Applicant Name (Legal Entity or Individual)

is contractually responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation. I further understand that failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Applicant Signature

Applicant Signature [Signature]

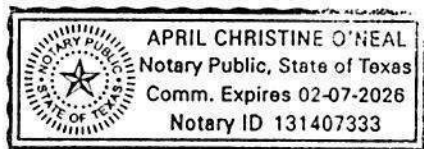
12/05/2003
Date

THE STATE OF § Texas

County of § Bexar

BEFORE ME, the undersigned authority, on this day personally appeared Marcella Rocha 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 5th day of December



[Signature]
NOTARY PUBLIC

April O'Neal
Typed or Printed Name of Notary
MY COMMISSION EXPIRES: 02/07/2026

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Marcella Rocha _____
Print Name

Assistant Secretary _____
Title - Owner/President/Other

of Circle K Stores, Inc. _____
Corporation/Partnership/Entity Name

have authorized Jack Greer _____
Print Name of Agent/Engineer


of Morris & Associates, Engineers, 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:

Applicant's Signature 

Date 12/05/2023

THE STATE OF Texas §

County of Brewer §

BEFORE ME, the undersigned authority, on this day personally appeared Marcello Roche 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.

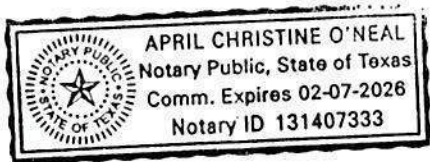
GIVEN under my hand and seal of office on this 5th day of December, 2023



NOTARY PUBLIC

April O'Neal

Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 02/07/2026

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Circle K Stores, Inc.

Regulated Entity Location: Circle K Stores, Inc.

Name of Customer: 14100 Culebra Rd, San Antonio, Tx 78254

Contact Person: Jack Greer

Phone: (832) 331-3713

Customer Reference Number (if issued): CN _____

Regulated Entity Reference Number (if issued): RN 102432044

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

12100 Park 35 Circle

Mail Code 214

Building A, 3rd Floor

P.O. Box 13088

Austin, TX 78753

Austin, TX 78711-3088

(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	3 Tanks	\$1,950
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature:  _____

Date: 11/8/2023

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



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600134456		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		1/10/2024
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)				
<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 (If an individual, print last name first: eg: Doe, John)			<i>If new Customer, enter previous Customer below:</i>	
Circle K Stores, Inc.			N/A	
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)
0010697700		17411495405		74-1149540
10. DUNS Number (if applicable)				
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"/> Local <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 checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher			<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant				
15. Mailing Address:		19500 Bulverde Road		
City		San Antonio	State	TX
ZIP		78259	ZIP + 4	
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information

21. General Regulated Entity Information <i>(If 'New Regulated Entity' is selected, a new permit application is also required.)</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 Core 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>									
Circle K									
23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>		14100 Culebra Rd							
		City	San Antonio	State	TX	ZIP	78254	ZIP + 4	
24. County		Bexar							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:									
26. Nearest City				State		Nearest ZIP Code			
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>									
27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:						
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)			
5500		5412		457110					
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>									
Circle K convenience store with automobile fueling services									
34. Mailing Address:		14100 Culebra Rd.							
		City	San Antonio	State	TX	ZIP	78254	ZIP + 4	
35. E-Mail Address:									
36. Telephone Number			37. Extension or Code			38. Fax Number <i>(if applicable)</i>			
() -						() -			

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 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 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"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Jack Greer			41. Title:	Graduate Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(832)331-3713		() -	j.greer@morrisassoc.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:	Morris & Associates, Engineers, LLC.	Job Title:	Graduate Engineer	
Name (In Print):	Jack Greer		Phone:	(832)331-3713
Signature:			Date:	1/24/2024

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.

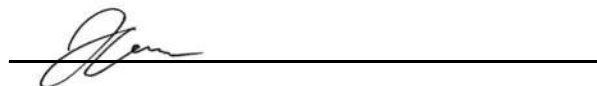
Signature

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: Jack Greer

Date: 01/24/2024

Signature of Customer/Agent:



Regulated Entity Name: Circle K Stores, Inc.

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: N/A

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 C – Sequence of Major Activities

A stabilized construction access of 3”-5” coarse aggregate over geotextile fabric will be placed to enter and exit the site before start of construction. Filter fabric fencing is to be placed around the perimeter of the site prior to the start of construction and to be maintained throughout the duration of construction. Site grading and utility installation on a 1.95 acre lot. Inlet protection barriers are to be placed around new storm inlets and maintained during construction. Underground petroleum storage tanks will then be placed into tank pit and backfilled. Contractor will then form and pour reinforced concrete pavement throughout the site. A 5,200 sq.ft. convenience store along with 7 fuel dispensers and fuel canopy is also to be constructed.

Sincerely,



Jack Greer

Morris + Associates

J.greer@morrisassoc.com

832-331-3713

Attachment D – Temporary Best Management Practices and Measures

A stabilized construction access of 3"-5" coarse aggregate over geotextile fabric will be placed to enter and exit the site before start of construction.

This will prevent construction vehicles from tracking mud and dirt onto adjacent roadways.

Filter fabric fencing is to be placed around the perimeter of the site prior to the start of construction and to be maintained throughout the duration of construction.

This will prevent sediment from running off site onto adjacent properties.

Inlet protection barriers are to be placed around new storm inlets and maintained during construction.

This will prevent sediment from entering the storm system.

Sincerely,

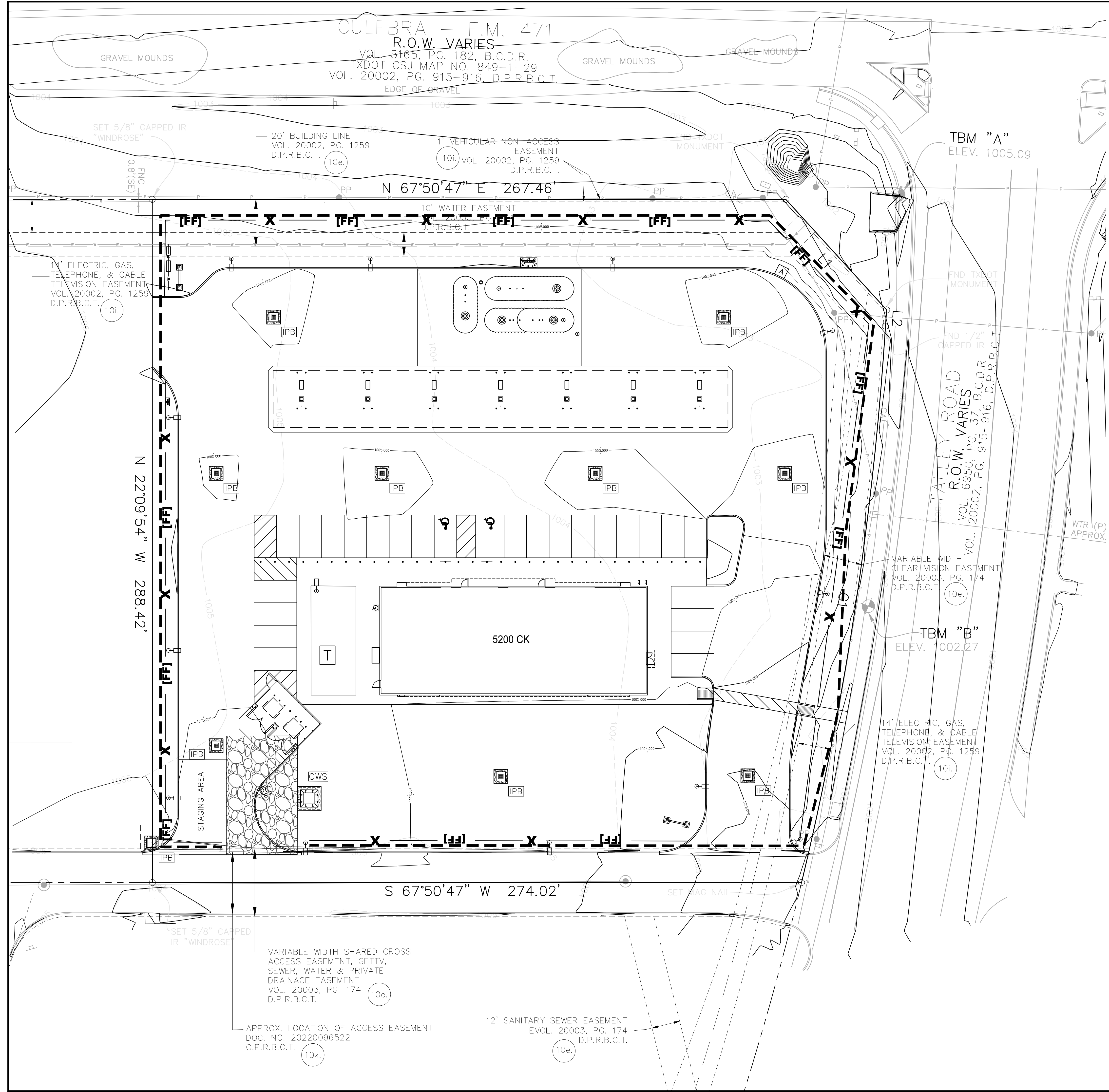


Jack Greer

Morris + Associates

J.greer@morrisassoc.com

832-331-3713



LEGEND:

- [FF] — X — TEMPORARY SEDIMENT CONTROL FENCE; REF C201
- - - - - LIMITS OF CONSTRUCTION
- IPB GRAVEL FILTER BAGS; REF C201
- ▨ STABILIZED CONSTRUCTION EXIT - TYPE 1; REF C201
- CWS CONCRETE TRUCK WASHOUT PIT; REF C202

GENERAL NOTES

- PROVIDE PROTECTION OF NEWLY INSTALLED INLETS DURING CONSTRUCTION TO ENSURE NO SEDIMENT ENTERING NEWLY INSTALLED DRAINAGE SYSTEM

EROSIONS CONTROL PLAN
SCALE: 1" = 20'-0"

CIRCLE K STORES INC.
1130 WEST WARNER ROAD
SUITE B
TEMPE, AZ 85284
602-728-8000

morris + associates
14139 HUFFMEISTER ROAD
CYPRESS, TX. 77429
PHONE: (832) 334-5000
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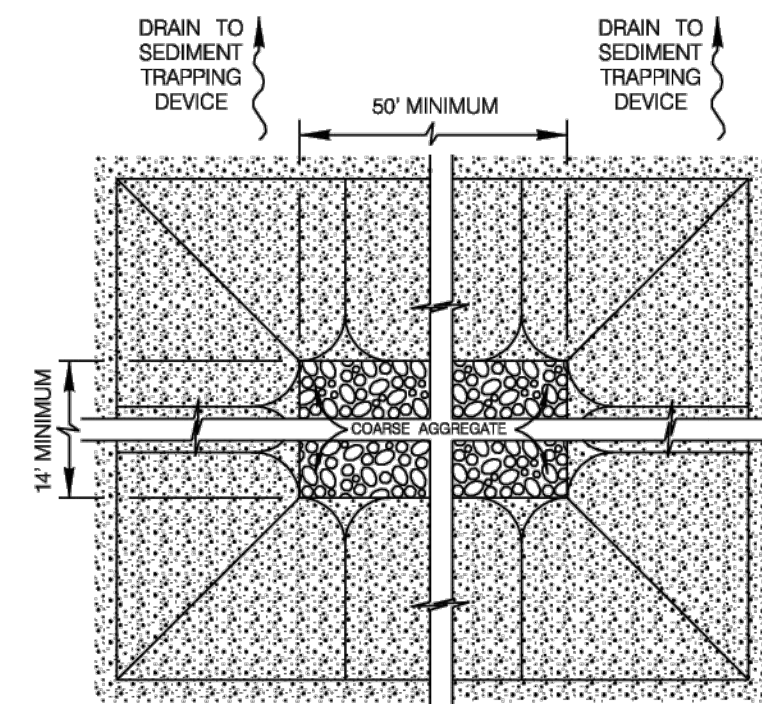
2/9/2024

FIRM #F-1449

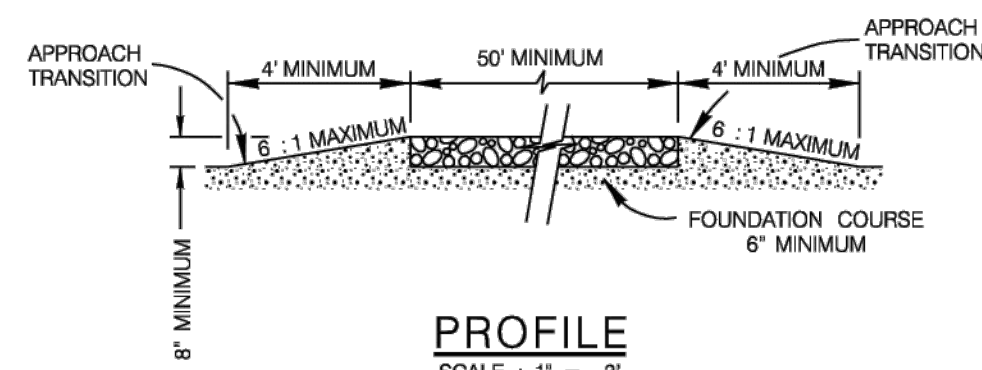
REVISIONS	
#	DATE

PROJECT: NIT
CIRCLE K STORE #XXXXXXX
14100 CULEBRA RD.
SAN ANTONIO, TX 78254
SHEET TITLE:
EROSIONS CONTROL PLAN

PROJECT #: 4647
SHEET NO.
C200



PLAN SCALE: 1" = 3'

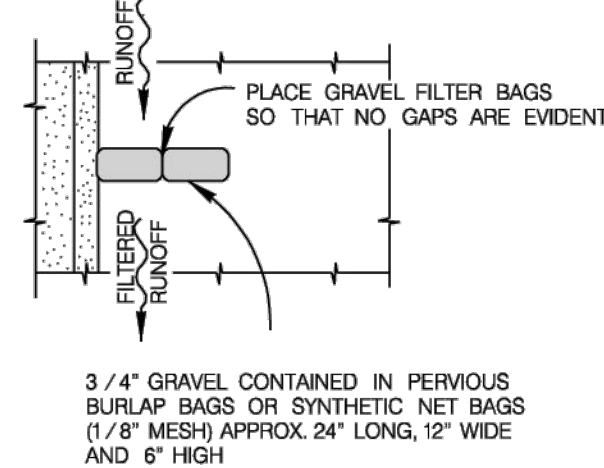


PROFILE SCALE: 1" = 3'

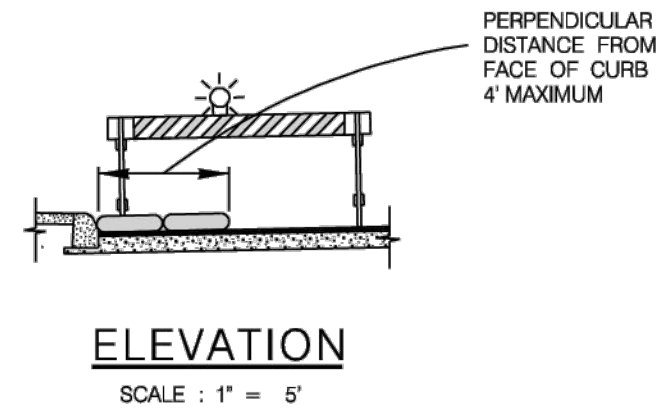
GENERAL NOTES

- 1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT - TYPE 1



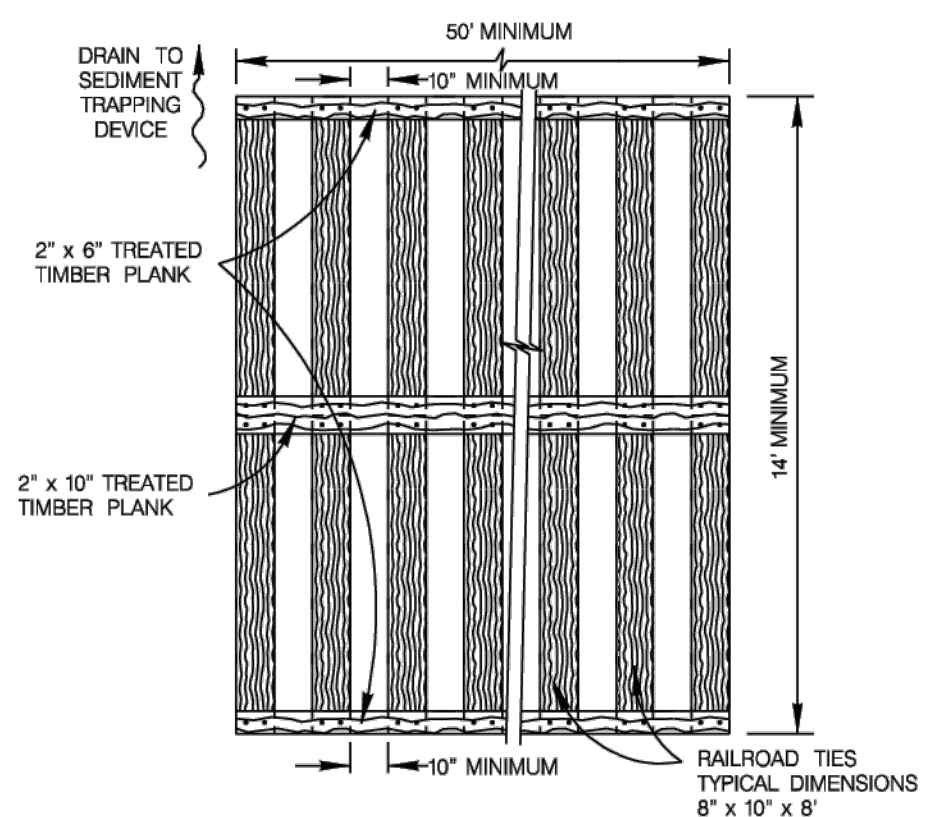
PLAN SCALE: 1" = 5'



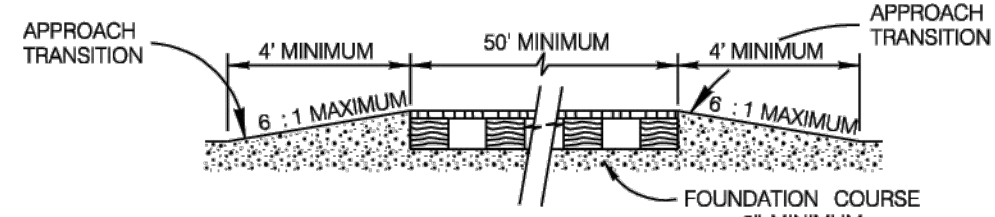
ELEVATION SCALE: 1" = 5'

NOTE: STRADDLE GRAVEL FILTER BAGS WITH TYPE 1 BARRICADES MOUNTED WITH TYPE 1A FLASHING WARNING LIGHT. SEE BARRICADE CONSTRUCTION SIGN DETAILS. PLACE FLASHING LIGHTS AWAY FROM GUTTER, FLUSH WITH OUTSIDE EDGE OF BAG CONFIGURATION.

GRAVEL FILTER BAGS



PLAN SCALE: 1" = 3'

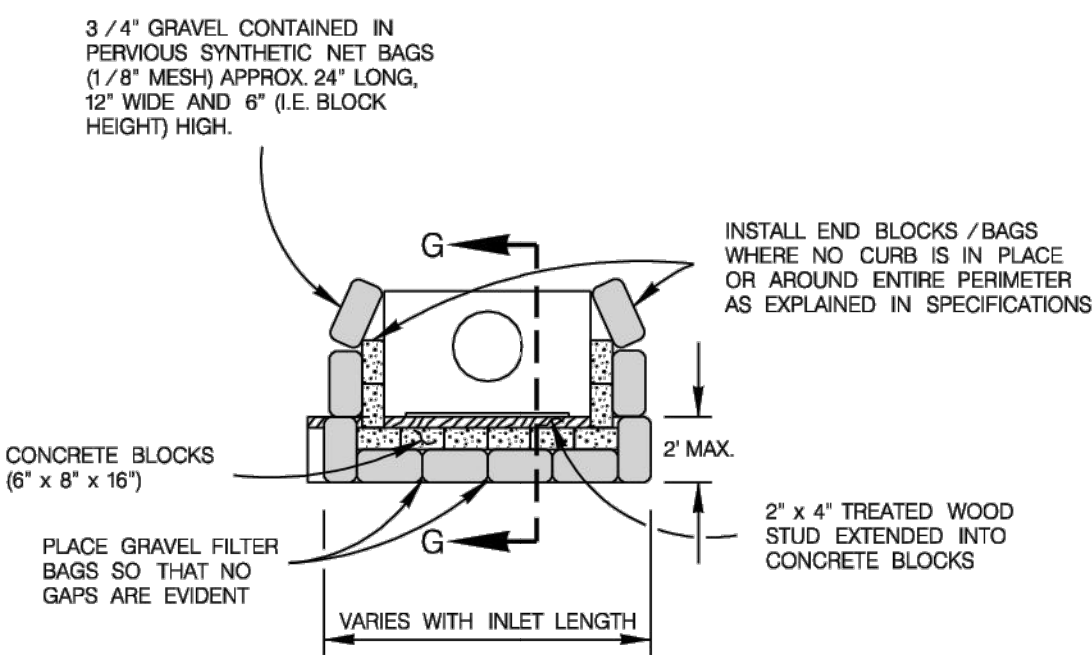


PROFILE SCALE: 1" = 3'

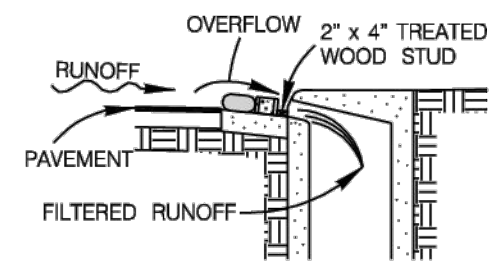
GENERAL NOTES

- 1. THE LENGTH OF THE TYPE 2 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1/2\"/>

CONSTRUCTION EXIT - TYPE 2



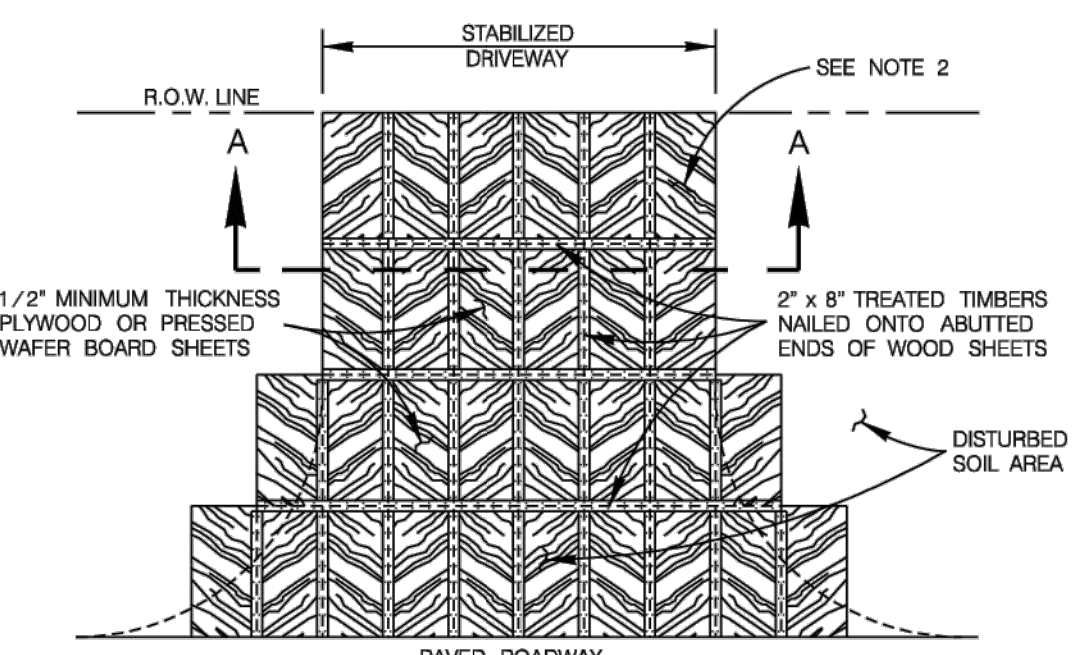
PLAN SCALE: 1" = 5'



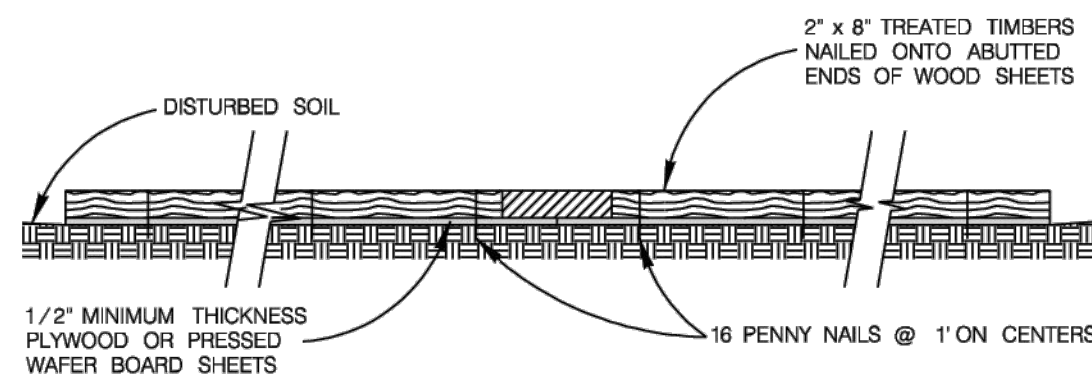
SECTION G-G SCALE: 1" = 5'

NOTE: GRAVEL FILTERS CAN BE USED ON PAVEMENT OR BARE GROUND.

CURB INLET GRAVEL FILTER



PLAN SCALE: 1" = 10'

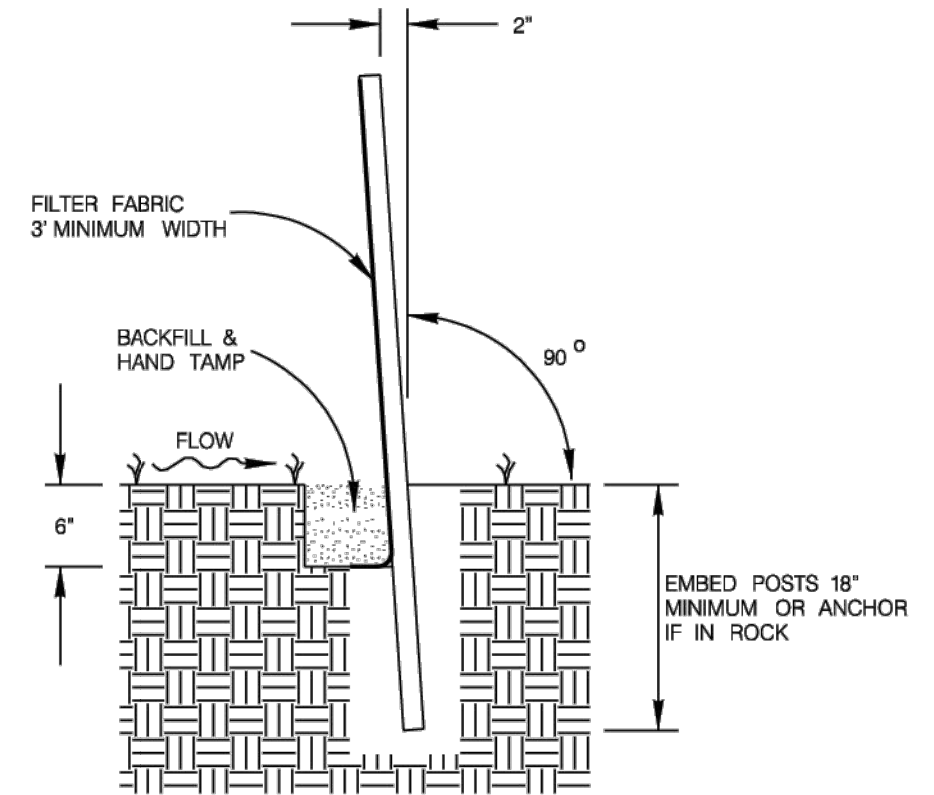


SECTION A-A SCALE: 1" = 1'

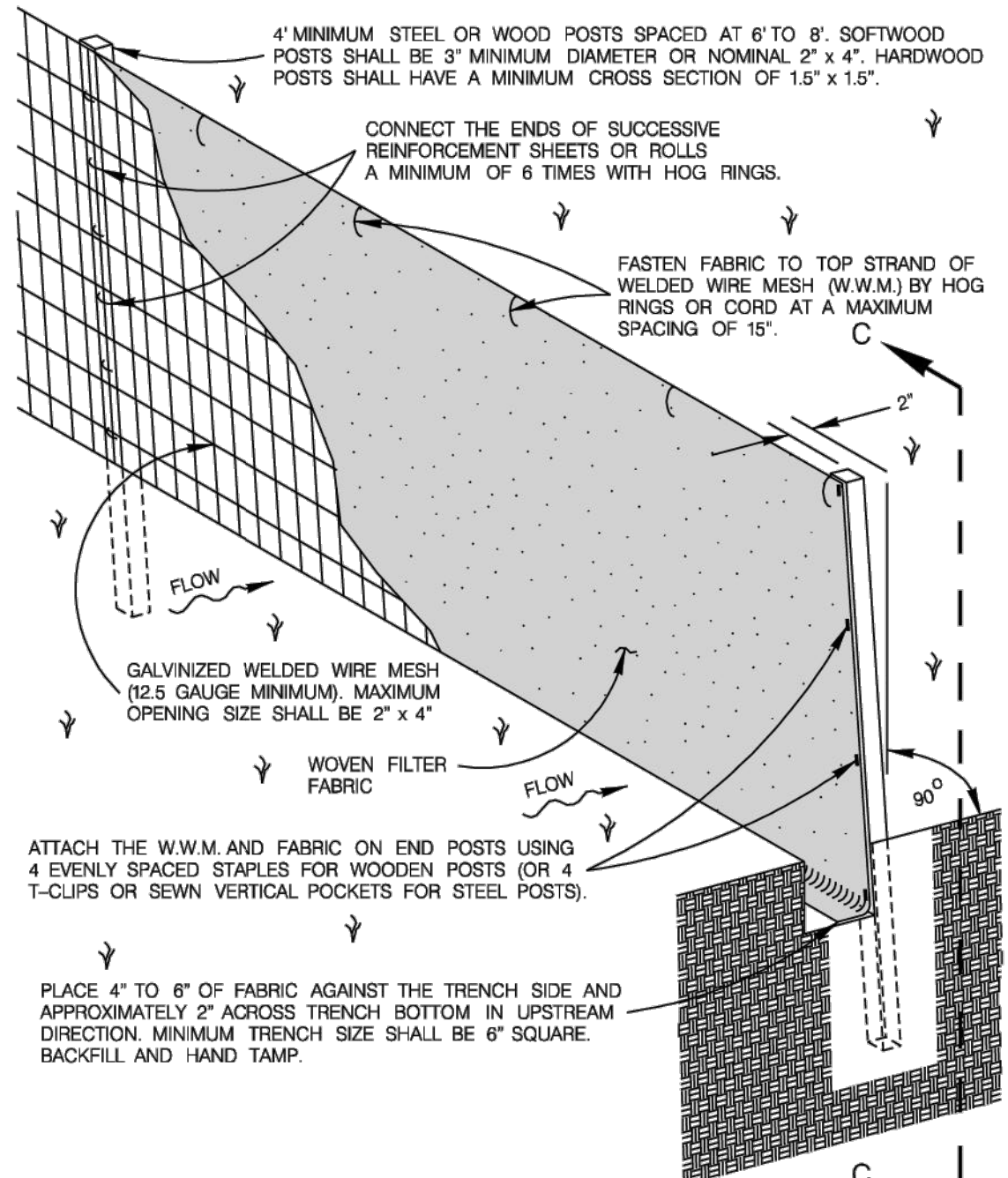
GENERAL NOTES

- 1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. THE TYPE 3 CONSTRUCTION EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN. AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT - TYPE 3



SECTION C-C SCALE: 1" = 1'



ISOMETRIC VIEW SCALE: 1" = 1'

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM / FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

GENERAL NOTES

- 1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

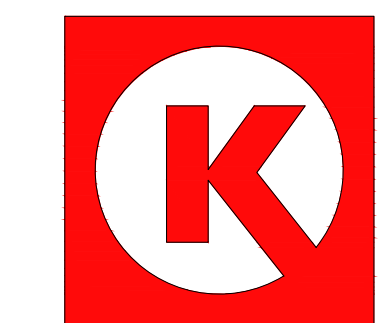
TEMPORARY SEDIMENT CONTROL FENCE

JANUARY 2005

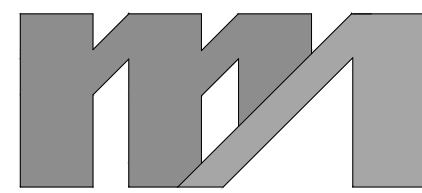
STANDARD PLANS CITY OF SAN ANTONIO, TEXAS DEPARTMENT OF PUBLIC WORKS

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1

Table with columns: DRAWN BY, CHECKED BY, DATE, REVISIONS, SCALE, SHEET OF



CIRCLE K STORES INC. 1130 WEST WARNER ROAD SUITE B TEMPE, AZ 85284 602-728-8000



14139 HUFFMEISTER ROAD CYPRESS, TX, 77429 PHONE: (832) 334-5000

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FIRM #F-1449

REVISIONS table with columns: #, DATE

PROJECT: NITI CIRCLE K STORE #XXXXXX 14100 CULEBRA RD, SAN ANTONIO, TX 78254 SHEET TITLE: EROSION CONTROL DETAILS

PROJECT #: 4547

SHEET NO.

C201

SCALE = NTS

Attachment I – Inspection and Maintenance of Temporary BPMs

This project will adhere to TCEQ RG-348 requirements for maintenance and inspections. Inspections are to be made weekly and after rainfall events.

Sincerely,



Jack Greer
Morris + Associates
J.greer@morrisassoc.com
832-331-3713