APTIM 12005 Ford Road, Suite 600 Dallas, TX 75234 Tel: 972.773.8400 Fax: 972.773.8401 www.aptim.com



Texas Commission on Environmental Quality Edwards Aquifer Protection Program - San Antonio Region 14250 Judson Road San Antonio, TX 78233

Subject: Edwards Aquifer Protection Plan - Modification 7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666 PST Facility ID No. 18194; LPST ID No. 120455 (Closed 2021) Edwards Aquifer ID No. 11-98081401 Regulated Entity No. RN 102921442

Dear Coordinator:

On behalf of 7-Eleven, Inc. (7-Eleven), Aptim Environmental & Infrastructure, Inc. (APTIM), is submitting the attached Edwards Aquifer Protection Plan (EAPP) Modification. The proposed project is scheduled to be conducted at 7-Eleven, Inc. Store No. 40569 (Site), located at 2700 Hunter Road, Unit B in San Marcos, Hays County, Texas.

The Site is an approximate 1.01-acre property that has operated as a retail petroleum facility from at least 1984 through present day. It is situated within the Edwards Aquifer Transition Zone. A Texas Commission on Environmental Quality (TCEQ) Central Registry records search documents four (4) 8,000-gallon single-walled fiberglass-reinforced plastic (FRP) Underground Storage Tanks (USTs) containing gasoline and diesel fuels. A UST Registration and Self-Certification Form dated November 9, 2023, documents tank numbers two and three as temporarily out of service. USTs one and four are currently registered as in use at the site. TCEQ records search also provides an Edwards Aquifer ID No. 11-98081401. Using the Edwards Aquifer ID Number documents were recovered using the TCEQ Records Online search. A document dated September 11, 1998, by the Texas Natural Resource Conservation Commission (TNRCC) documents the request of exception from the requirement of submittal of UST facility construction plans.

Currently 7-Eleven proposes the following new UST System modifications at the Site:

- Remove existing tank slab, dispenser islands, and existing UST system with product and vent piping;
- Install one (1) new 15,000-gallon capacity double-walled fiberglass-reinforced plastic (FRP) Regular Unleaded (RUL) Underground Storage Tank (UST);
- Install one (1) new 15,000-gallon capacity split double-walled FRP Diesel (DSL) and Premium Unleaded (PUL) UST;
- Install three (3) new RUL, PUL, and DSL Submersible Turbine Pumps (STP);
- Install three (3) new RUL, PUL, and DSL product fill buckets;
- Install new 3" double-walled piping over 2" double-walled FRP product piping from new USTs to existing dispensers;
- Install two (2) new vapor vent risers;
- Install new 2-inch coaxial single-walled piping for vapor/vent at USTs to new remote vent;
- Reuse one (1) existing 3+0 dispensers;
- Reuse one (1) existing 3+1 dispensers for DSL;
- Install two (2) new stainless steel dispenser islands;

- Install a new automatic tank gauge site monitor console;
- Install two (2) new observation wells in the tank slab; and
- Install new concrete at disturbed areas.

A Geologic Assessment (Appendix B) was conducted January 24, 2025. One permanent monitoring well was identified on the project site, but it will be plugged and abandoned prior to construction activities and is therefore not considered a sensitive feature in relation to the proposed scope of work. No offsite areas are anticipated to be affected by the proposed construction activities. The site is currently covered with concrete.

The following is documented in the Temporary Stormwater Section (Appendix E):

- Total area of impervious cover: approximately 21,452 square feet;
- Areas to be demolished (total disturbed area): approximately 4,570 square feet;
- Permanent Best Management Practices (BMPs): permanent seeding, sodding, or mulching.

Prior to concrete removal, a silt fence will be installed to intercept and detain waterborne sediment from unprotected areas. The fence shall remain in place until the disturbed area is permanently stabilized. After construction activities are complete, the area will be re-surfaced with an impervious concrete cover.

Attached are the following documents to describe the proposed modification to the current UST system:

Appendix A:	General Information Form
Appendix B:	Geologic Assessment
Appendix C:	Modification of a Previously Approved Plan
Appendix D:	Underground Storage Tank Facility Plan Application
	 UST Facility Site Plan
Appendix E:	Temporary Stormwater Section
	 Demo Plan with Erosion and Sediment Control Notes
Appendix F:	Agent Authorization Form
Appendix G:	Application Fee Form
Appendix H:	Core Data Form

Sincerely,

Perche Thomas

Derek Thompson Environmental Scientist APTIM

Jessica Jones Project Manager APTIM

Distribution: TCEQ Edwards Aquifer Protection Program (electronic copy) Barton Springs/ Edwards Aquifer (1 copy) TCEQ Region 11 (1 copy) Field Copy (1 copy) Store Copy (1 copy) APTIM File (1 copy)

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 <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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 N 40569	-Eleve	n, Inc.	2. Regulated Entity No.: 102921442								
3. Customer Name: 7-Eleven, Inc.					4. Customer No.: 600684112						
5. Project Type: (Please circle/check one)	New		Modif	fication)	Extension		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)	Reside	ntial	Non-1	resident	tial		8. Sit	te (acres):	Approximately 1.01		
9. Application Fee:	\$1,300		10. P	erman	ent I	BMP(s):	N/A			
11. SCS (Linear Ft.):	N/A		12. A	ST/US	T (N	o. Tar	nks):	2			
13. County:	Hays		14. W	/atersl	ned:	Guadalupe River Basin					

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.)	_1_								
Region (1 req.)	_1_		_						
County(ies)	_1_		_						
Groundwater Conservation District(s)	Edwards Aquifer Authority _1_Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	Barton Springs/ Edwards Aquifer	NA						
City(ies) Jurisdiction	Austin Buda Dripping Springs Kyle Mountain City _1_San Marcos Wimberley Woodcreek	Austin Bee Cave Pflugerville Rollingwood Round Rock Sunset Valley West Lake Hills	Austin Cedar Park Florence Georgetown Jerrell Leander Liberty Hill Pflugerville Round Rock						

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

Jessica Jones, Aptim Environmental and Infrastructure LLC

Print Name of Customer/Authorized Agent

03/07/2025

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):	Payable to TCEQ (Y/N):							
Core Data Form Complete (Y/N):	Check: Signed (Y/N):							
Core Data Form Incomplete Nos.:	Less than 90 days old (Y/N):							

APPENDIX A GENERAL INFORMATION FORM (TCEQ-0587)

General Information Form

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Jessica Jones of Aptim Environmental and Infrastructure, LLC

Date: 03/07/2025

Signature of Customer/Agent:

Project Information

- 1. Regulated Entity Name: <u>7-Eleven, Inc. Store No. 40569</u>
- 2. County: <u>Hays</u>
- 3. Stream Basin: Guadalupe Basin
- Groundwater Conservation District (If applicable): <u>Barton Springs/Edwards Aquifer</u> <u>Authority</u>
- 5. Edwards Aquifer Zone:

Recharge Zone

6. Plan Type:

___ WPAP ___ SCS Modification

TCEQ-0587	(Rev.	02-11	-15)
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1 of 4

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Exception Request

7. Customer (Applicant):

Contact Person: <u>Bill Holcomb</u> Entity: <u>7-Eleven, Inc.</u> Mailing Address: <u>P.O. Box 711</u> City, State: <u>Dallas, Texas</u> Telephone: <u>925-785-6808</u> Email Address: <u>Bill.Holcomb@7-11.com</u>

Zip: <u>75221</u> FAX: <u>N/A</u>

8. Agent/Representative (If any):

Contact Person: Jessica Jones, Project ManagerEntity: Aptim Environmental & Infrastructure, LLCMailing Address: 12005 Ford Road, Suite 600City, State: Dallas, TexasTelephone: (940) 395-1937Email Address: jessica.jones@aptim.com

9. Project Location:

The project site is located inside the city limits of <u>San Marcos, Texas</u>.

- The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
- The project site is not located within any city's limits or ETJ.
- 10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The project site is located at 2700 Hunter Road, Unit B in San Marcos, Hays County, Texas

- 11. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
- 12. Attachment B USGS / Edwards Recharge Zone Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:
 - Project site boundaries.
 - USGS Quadrangle Name(s).
 - Boundaries of the Recharge Zone (and Transition Zone, if applicable).
 - Drainage path from the project site to the boundary of the Recharge Zone.
- 13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate

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

- Survey staking will be completed by this date:
- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
 - Area of the site Offsite areas Impervious cover Permanent BMP(s) Proposed site use
 - Site bistom
 - Site history
 - Previous development
 - Area(s) to be demolished
- 15. Existing project site conditions are noted below:
 - Existing commercial site
 Existing industrial site
 Existing residential site
 Existing paved and/or unpaved roads
 Undeveloped (Cleared)
 Undeveloped (Undisturbed/Uncleared)
 Other: _____

Prohibited Activities

- 16. I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
 - (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
 - (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
 - (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
 - (4) The use of sewage holding tanks as parts of organized collection systems; and
 - (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
 - (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.
- 17. I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

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

Administrative Information

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

- For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

TCEQ cashier

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

- 20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 21. No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

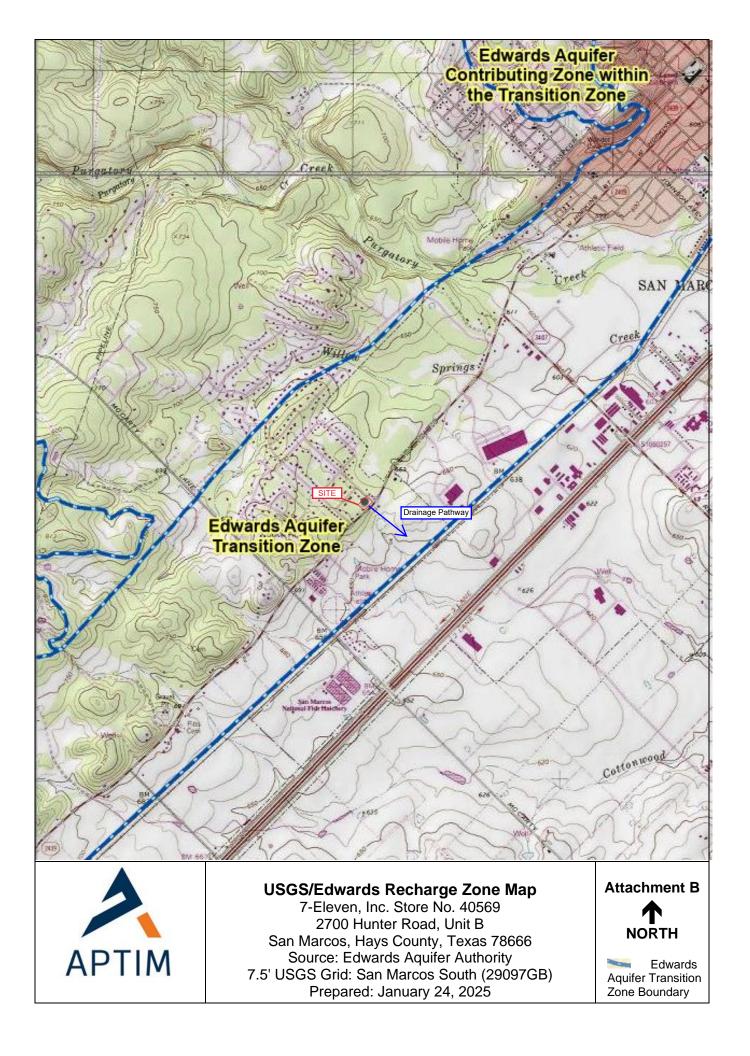
ATTACHMENT A

ROAD MAP



ATTACHMENT B

USGS/EDWARDS RECHARGE ZONE MAP



ATTACHMENT C

PROJECT DESCRIPTION

ATTACHMENT C

Project Description

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

This proposed UST System Replacement project is scheduled to be conducted at 7-Eleven, Inc. Store No. 40569 (Site), which is currently operating as a retail gasoline facility, located at 2700 Hunter Road, Unit B in San Marcos, Hays County, Texas.

The Site is an approximate 1.01-acre property that has operated as a retail petroleum facility from at least 1984 through present day. It is situated within the Edwards Aquifer Transition Zone. A Texas Commission on Environmental Quality (TCEQ) Central Registry records search documents four (4) 8,000-gallon single-walled fiberglass-reinforced plastic (FRP) Underground Storage Tanks (USTs) containing gasoline and diesel fuels. A UST Registration and Self-Certification Form dated November 9, 2023, documents tank numbers two and three as temporarily out of service. USTs one and four are currently registered as in use at the site. TCEQ records search also provides an Edwards Aquifer ID No. 11-98081401. Using the Edwards Aquifer ID Number documents were recovered using the TCEQ Records Online search. A document dated September 11, 1998, by the Texas Natural Resource Conservation Commission (TNRCC) documents the request of exception from the requirement of submittal of UST facility construction plans.

Currently 7-Eleven anticipates the following modifications at the Site:

- Remove existing tank slab, dispenser islands, and existing UST system with product and vent piping;
- Install one (1) new 15,000-gallon capacity double-walled fiberglass-reinforced plastic (FRP) Regular Unleaded (RUL) Underground Storage Tank (UST);
- Install one (1) new 15,000-gallon capacity split double-walled FRP Diesel (DSL) and Premium Unleaded (PUL) UST;
- Install three (3) new RUL, PUL, and DSL Submersible Turbine Pumps (STP);
- Install three (3) new RUL, PUL, and DSL product fill buckets;
- Install new 3" double-walled piping over 2" double-walled FRP product piping from new USTs to existing dispensers;
- Install two (2) new vapor vent risers;
- Install new 2-inch coaxial single-walled piping for vapor/vent at USTs to new remote vent;
- Reuse one (1) existing 3+0 dispensers;
- Reuse one (1) existing 3+1 dispensers for DSL;
- Install two (2) new stainless steel dispenser islands;
- Install a new automatic tank gauge site monitor console;
- Install two (2) new observation wells in the tank slab; and
- Install new concrete at disturbed areas.

A Geologic Assessment (Appendix B) was conducted January 24, 2025. One permanent monitoring well was identified on the project site, but it will be plugged and abandoned prior to construction activities and is therefore not considered a sensitive feature in relation to the proposed scope of

work. No offsite areas are anticipated to be affected by the proposed construction activities. The site is currently covered with concrete.

The following is documented in the Temporary Stormwater Section (Appendix E):

- Total area of impervious cover: approximately 21,452 square feet;
- Areas to be demolished (total disturbed area): approximately 4,570 square feet;
- Permanent Best Management Practices (BMPs): permanent seeding, sodding, or mulching.

Prior to concrete removal, a silt fence will be installed to intercept and detain waterborne sediment from unprotected areas. The fence shall remain in place until the disturbed area is permanently stabilized. After construction activities are complete, the area will be re-surfaced with an impervious concrete cover.

APPENDIX B GEOLOGIC ASSESSMENT

(TCEQ-0585)

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: Clarence Winzer,

Telephone: 512-694-8250

<u>P.G.</u>

Fax: NA

Date: 2/12/2025

Representing: <u>APTIM- TBPG 50431</u> (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Regulated Entity Name: 7-Eleven No. 40569

Project Information

- 1. Date(s) Geologic Assessment was performed: January 24, 2025
- 2. Type of Project:

WPA
SCS

- ۱P 3. Location of Project:
- Recharge Zone
- **Transition Zone**

TCEQ-0585 (Rev.02-11-15)

Contributing Zone within the Transition Zone



- 4. X 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, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)				
Comfort -Rock						
Outcrop Complex	р	2.25				
compiex	D	2.25				

- * Soil Group Definitions (Abbreviated)
 - A. Soils having a high infiltration rate when thoroughly wetted.
 - B. Soils having a moderate infiltration rate when thoroughly wetted.
 - C. Soils having a slow infiltration rate when thoroughly wetted.
 - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. Xttachment 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: $1'' = \underline{16'}$ Site Geologic Map Scale: $1'' = \underline{40'}$ Site Soils Map Scale (if more than 1 soil type): $1'' = \underline{40'}$

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection: _____

- 10. \boxtimes The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. \boxtimes Surface geologic units are shown and labeled on the Site Geologic Map.

TCEQ-0585 (Rev.02-11-15)

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 $\underline{1}$ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

 \mathbf{X} The wells are not in use and have been properly abandoned.

The wells are not in use and will be properly abandoned.

 \boxtimes The wells are in use and comply with 16 TAC Chapter 76.

There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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

APPENDIX B ATTACHMENT A GEOLOGIC ASSESSMENT TABLE

GEOLO	OGIC ASSESS	MENT TABLE					PROJ	ЕСТ	NAME	:	7-Eleven	# 4056	9		Date	of Co	llecti	on:	24-Jan-25	
LOCATION				FEATURE CHARACTERISTICS							EVAL	UAT	ION	PH	IYSICAL S	ETTING				
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	1	0		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DI	MENSIONS (FEE	ET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSI	TIVITY	TY CATCHMENT AREA (ACRES) TOPOGE		TOPOGRAPHY
						х	Y	Z		10						<40	<u>>40</u>	<1.6	>1.6	
MW-1	29°51'9.36"N	97°58'26.19"W	MB	30	Kau	0.5	20	0.5	NA	0	NA	NA	Ν	5	35	Х		Х		Hillside
	-																			
				-																
* DATUM:	GPS- World Geodeti	ic System of 1984 (WO	GS84)		Horizontal Accurac	cy Ass	essment: I	oetwee	en 8- 20 m	eters										
2A TYPE		TYPE			2B POINTS						8A INFI	ILLING								
С	Cave				30		N	None	, exposed	bedro	ock									
SC	Solution cavity				20		С	Coars	se - cobble	s, bre	eakdown, sa	nd, grave								
SF	Solution-enlarged fra	acture(s)			20		0	Loose	e or soft m	ud or	soil, organic	s, leaves	, sticks,	dark colors						
F	Fault				20		F	Fines	, compacte	ed cla	ay-rich sedim	ent, soil j	orofile, g	ray or red co	olors					
0	Other natural bedroc	k features			5		V	Veget	tation. Give	e deta	ails in narrati	ve descri	ption							
MB	Manmade feature in	bedrock			30		FS	Flows	stone, cem	ents,	cave deposi	its								
SW	Swallow hole				30		х	Other	materials											
SH	Sinkhole				20										-					
CD	Non-karst closed de	pression			5						OPOGRAPH									
Z	Zone, clustered or al	ligned features			30		Cliff, H	lilltop	o, Hillsi	de,	Drainag	e, Floo	odpla	in, Strea	mbed					
	an annun annun	1.																		

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.



Clarence Winga —

My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

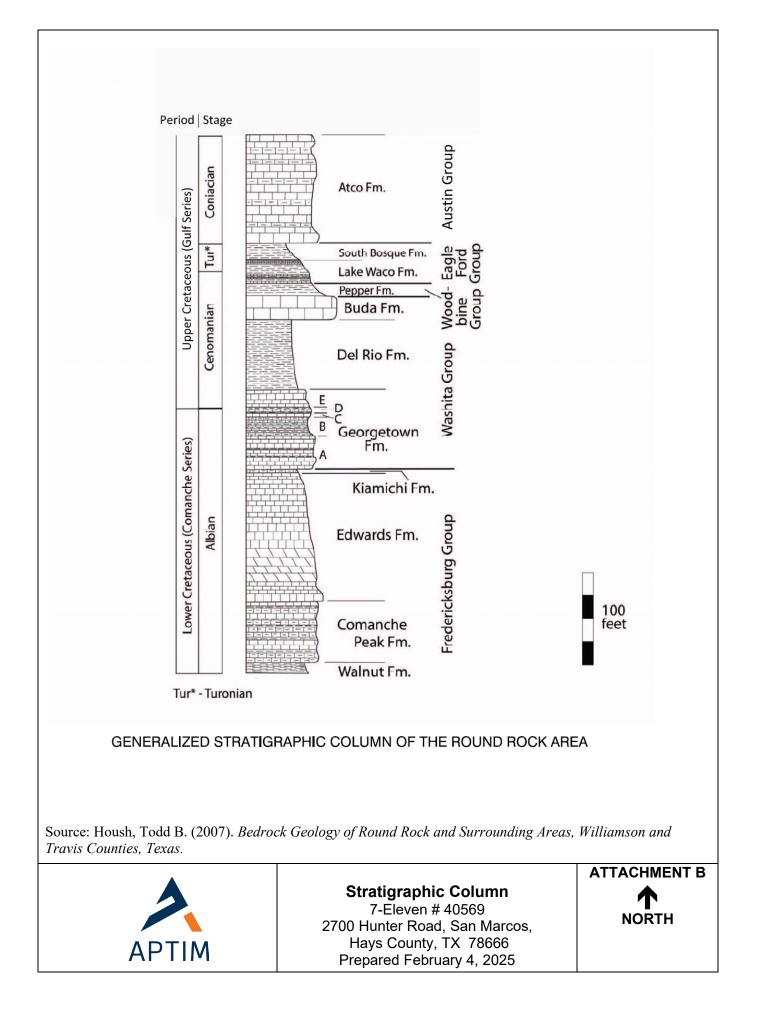
2/11/2025 Date

Assessor: Clarence Winzer, P.G.

Sheet ___1___ of ___1___

TCEQ-0585-Table (Rev. 10-01-04)

APPENDIX B ATTACHMENT B STRATIGRAPHIC COLUMN



APPENDIX B ATTACHMENT C SITE GEOLOGY

APPENDIX B

ATTACHMENT C

Site Geology

Client: 7-Eleven #40569 2700 Hunter Road, Unit B San Marcos, Hays County, TX 78666

According to the United States Department of Agriculture (USDA) soil survey of Hays County, the primary soil at the site is the Comfort-Rock outcrop complex.

The Comfort-Rock outcrop complex series consists of extremely stony clay, well drained, slowly permeable soils that are very shallow to shallow over indurated limestone bedrock. These soils are nearly level to moderately sloping soils formed in clayey residuum derived dolomitic limestone and occur on ridges of dissected plateaus. The A horizon consists of a dark grayish brown, very stony clay from 0- 5 inches with a moderate medium angular blocky structure parting to moderate fine subangular blocky. In general, it is found to be very hard to very firm, many fine roots to a few very fine tubular pores. The Bt horizon is a dark reddish gray, very cobbly clay from 5- 17 inches with moderate medium subangular and angular blocky structure parting to moderate fine angular blocky. In general, it is found to be very firm, with fine to medium roots and patchy clay films. The R horizon is indurated crystalline dolomitic limestone bedrock with irregular seams filled with soil from 17- 27 inches.

According to the Geologic Atlas of Texas, Seguin Sheet, the site is located on the Austin Chalk (Kau). The Austin Chalk consists of chalk and marl with mostly microgranular calcite with minor foraminifera tests, averages 85% calcium carbonate, ledge forming, grayish white to white, alternates with marl, and bentonitic seams locally. The Austin Chalk thickness ranges from 300-400 feet.

One sensitive feature (active monitoring well) was observed at the site during the geologic assessment survey performed on January 24, 2025, by Clarence Winzer (PG License No. 10409). Generally, the site was covered by 80% concrete or asphalt and approximately 20% vegetation underlain by a very dark grayish, brown stony clay. This is consistent with the geology and soil as previously discussed.

Based on the geologic features observed on the surface during the geologic assessment site survey, it is concluded that there is a low probability of rapid infiltration to the subsurface. However, if excavation occurs and exposes sensitive features below, surface water may be able to penetrate the subsurface at a rapid infiltration rate. It is also recommended that the onsite active monitor well (MW-1) be properly plugged and abandoned if it is determined that it may be damaged or destroyed during construction activities.

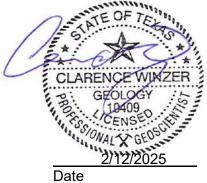
After excavation activities for the USTs are complete and prior to installation, APTIM will return to the site to conduct a geologic inspection of the tank pit excavation. If any sensitive features are found during the geologic inspection, the TCEQ will be notified immediately. A Geological Certification of Tank Pit Excavation Inspection will be submitted to the TCEQ, documenting the findings of the geologic inspection of the tank pit.

Additional information on the Comfort-Rock outcrop complex series can be found on the following web page.

Source information: soilseries.sc.egov.usda.gov

Clarence Winzer, P.G.

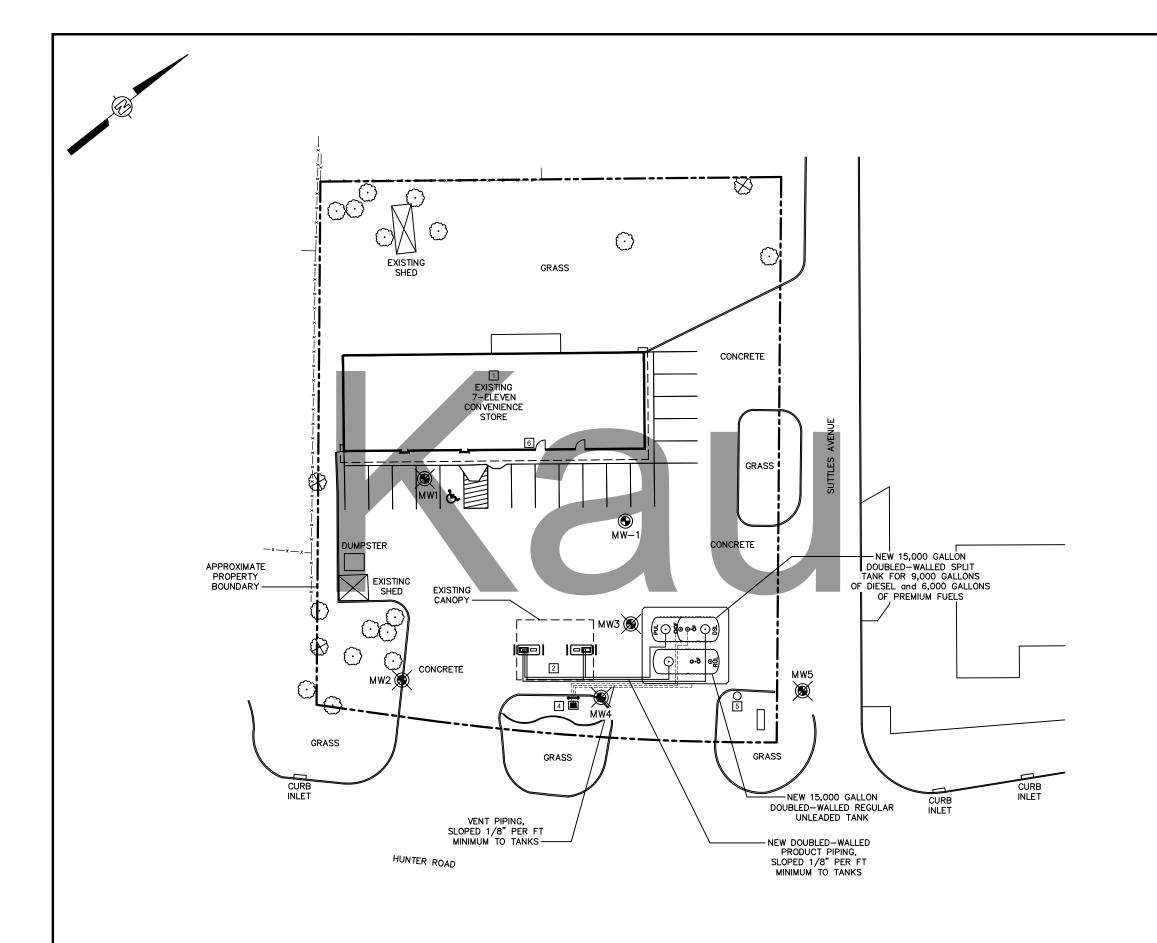
Signature of Professional Geoscientist



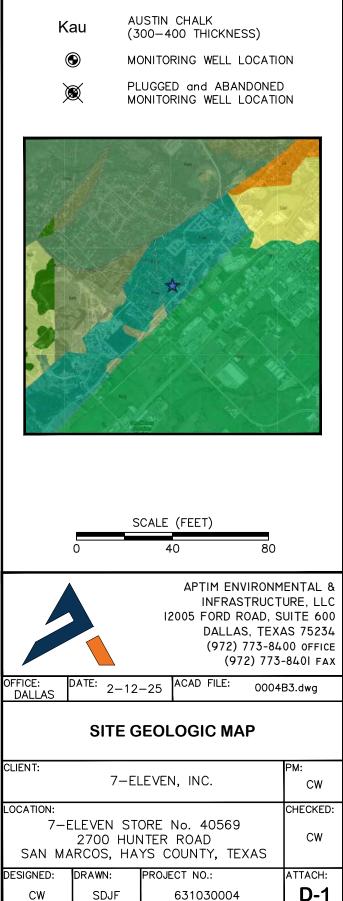
APPENDIX B

ATTACHMENT D

SITE GEOLOGIC MAP AND SOIL MAP









Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CrD	Comfort-Rock outcrop complex, 1 to 8 percent slopes	1.3	100.0%
Totals for Area of Interest		1.3	100.0%

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas Survey Area Data: Version 21, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 13, 2022—Apr 6, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

			(FEET)				
	0	4	0	80			
APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC 12005 FORD ROAD, SUITE 600 DALLAS, TEXAS 75234 (972) 773-8400 OFFICE (972) 773-8401 FAX							
DFFICE: [DALLAS	DATE: 2-11	-25	ACAD FILE:	00048	34.dwg		
SOIL MAP							
CLIENT:		PM: CW					
OCATION: 7-F	IEVEN ST) RF	No 40569		CHECKED:		
	7-ELEVEN STORE No. 40569 2700 HUNTER ROAD CW SAN MARCOS, HAYS COUNTY, TEXAS						
ESIGNED:	DRAWN:	PROJE	CT NO.:		ATTACH:		
CW	SDJF		631030004		D-2		

APPENDIX B ATTACHMENT E PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation Geologic Assessment

Client: 7-11# 40569 Location: 2700 Hunter Road, San Marcos, TX Photograph Date: January 24, 2025

Photograph No. 1

Date: 01/24/2025

Direction: South

Description:

View from north corner of Subject Property.

Prepared by: APTIM Photographer: Clarence Winzer, PG Project Number: 63103004



Photograph No. 2

Date: 01/24/2025

Direction: Southwest

Description: View from north corner of Subject Property.



Photographic Documentation Geologic Assessment

Photographer: Clarence Winzer, PG

Prepared by: APTIM

Project Number: 63103004

Client: 7-11# 40569 Location: 2700 Hunter Road, San Marcos, TX Photograph Date: January 24, 2025

Photograph No. 3

Date: 01/24/2025

Direction: Northeast

Description:

View from west corner of Subject Property.



Photograph No. 4

Date: 01/24/2025

Direction: Southeast

Description: View from west corner of Subject Property.



Photographic Documentation Geologic Assessment

Client: 7-11# 40569 Location: 2700 Hunter Road, San Marcos, TX Photograph Date: January 24, 2025

Photograph No. 5

Date: 01/24/2025

Direction: North

Description:

View from south corner of Subject Property.

Prepared by: APTIM Photographer: Clarence Winzer, PG Project Number: 63103004



Photograph No. 6

Date: 01/24/2025

Direction: Northwest

Description: View from southeast boundary of Subject Property.



Photographic Documentation Geologic Assessment

Client: 7-11# 40569 Location: 2700 Hunter Road, San Marcos, TX Photograph Date: January 24, 2025

Photograph No. 7

Date: 01/24/2025

Direction: West

Description:

View from east corner of Subject Property.

Prepared by: APTIM Photographer: Clarence Winzer, PG Project Number: 63103004



Photograph No. 8

Date: 01/24/2025

Direction: Northwest

Description: View from east corner of Subject Property.



Photographic Documentation Geologic Assessment

Photographer: Clarence Winzer, PG

Prepared by: APTIM

Client: 7-11# 40569 Location: 2700 Hunter Road, San Marcos, TX Photograph Date: January 24, 2025

Photograph No. 9

Date: 01/24/2025

Direction: Northwest

Description:

View of monitor well located on Subject Property.



APPENDIX C MODIFICATION OF A PREVIOUSLY APPROVED PLAN (TCEQ-0590)

Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Jessica Jones (on behalf of 7-Eleven, Inc.)

Date: 03/07/2025

Signature of Customer/Agent:

Project Information

 Current Regulated Entity Name: <u>7-Eleven, Inc. Store No. 40569</u> Original Regulated Entity Name: <u>Sack-N-Pac Store #111</u> Regulated Entity Number(s) (RN): <u>RN102921442</u> Edwards Aquifer Protection Program ID Number(s): <u>11-98081401</u>
 The applicant has not changed and the Customer Number (CN) is: _____

The applicant or Regulated Entity has changed. A new Core Data Form has been provided.

2. X Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.

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

WPAP Modification	Approved Project	Proposed Modification
Summary		
Acres	<u>N/A</u>	<u>N/A</u>
Type of Development	<u>N/A</u>	<u>N/A</u>
Number of Residential	<u>N/A</u>	<u>N/A</u>
Lots		
Impervious Cover (acres)	<u>N/A</u>	<u>N/A</u>
Impervious Cover (%	<u>N/A</u>	<u>N/A</u>
Permanent BMPs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
SCS Modification	Approved Project	Proposed Modification
Summary		
Linear Feet	<u>N/A</u>	<u>N/A</u>
Pipe Diameter	<u>N/A</u>	<u>N/A</u>

N/A

Other

N/A

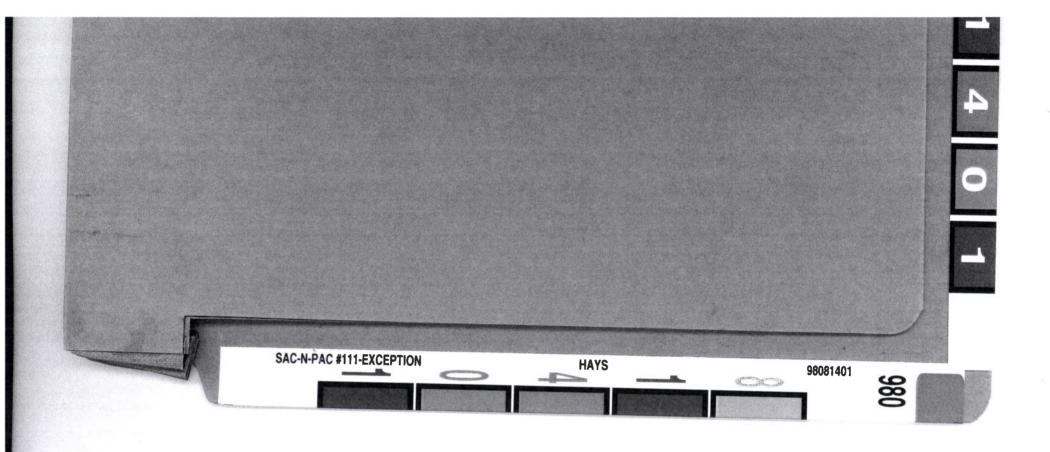
AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs	<u>N/A</u>	<u>N/A</u>
Volume of ASTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
UST Modification	Approved Project	Proposed Modification
UST Modification Summary	Approved Project	Proposed Modification
-	<i>Approved Project</i> Four (4)	Proposed Modification
Summary		

- 5. Attachment B: Narrative of Proposed Modification. A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any previous modifications, and how this proposed modification will change the approved plan.
- 6. Attachment C: Current Site Plan of the Approved Project. A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
 - The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
 - The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
 - The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.

The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.

- The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
- 7. The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
 - Acreage has not been added to or removed from the approved plan.
- 8. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

Attachment A EAPP Approval Letters



TNRCC - CODE SHEET FOR EDWARDS AOUIFER INSPECTIONS GENERAL INFORMATION PROJECT NAME: Some - N- Face # 111 ____ I.D. NO. 96081401 REGION: 1 1 COUNTY CODE: 015 - Bexar 🗌 163 - Medina 105 - Hays 227 - Travis 046 - Comal 232 - Uvalde 🗌 246 - Williamson 🗌 136 - Kinney TYPE OF INSPECTION: EAP - Plan Review INSPECTOR'S INITIALS: MM L EAF - Follow-up □ N/A - No Inspection REG REGION APPROVAL/DENIAL OF PLAN TYPE APPLICATION: TYPE PLAN: □ NEW □ WPA - Water Pollution Abatement □ MQD - Modification □ SCS - Sewage Collection System □ AST - Aboveground Storage Tank EXC - Exception UST - Underground Storage Tank $O_{S_{-}} / \frac{4}{2} / \frac{9}{8}$ DATE PLAN RECEIVED (MMDDYY) EUTERED 9/16/ 0 9 10 4 19 8 DATE DETERMINED ADMINISTRATIVELY COMPLETE □ NA/01- Plan Incomplete □ NA/02 - Fee Not Paid DATE PLAN RETURNED DATE RESPONSE DUE DATE RESPONSE REC'D RESPONSE ADEQUATE YES O NO DATE OF INSPECTION □ NA/01 - Plan Incomplete □ NA/02 - Fee Not Paid / 1 0 / 9 8 DATE OF LETTER \Box N/A APP - Approved DECISION: DEN - Denied INI FOL SITE INSPECTIONS INSPECTOR'S INITIALS: _ ___ DATE OF INSPECTION DATE OF REPORT TXD TXDOT WATER POLLUTION ABATEMENT PLAN TYPE APPLICATION: TYPE PLAN: □ NEW TXD - TXDOT Water Pollution Abatement Plan □ MOD - Modification □ EXC - Exception DATE PLAN RECEIVED DATE OF INSPECTION DATE FINDINGS SENT TO TXDOT LIAISON TECHNICAL ASSISTANCE/OTHER LETTERS □ TEC □ NOV □ RFI □ CAR □ CLR ____/___ DATE RESPONSE DUE _____ DATE OF REQUEST _ ___/___ /____ DATE RESPONSE REC'D __ DATE LETTER SENT _ __/___ __ RESPONSE ADEQUATE YES D NO

Barry R. McBee, *Chairman* R. B. "Ralph" Marquez, *Commissioner* John M. Baker, *Commissioner* Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

September 11, 1998

Mr. Tom Schott Sac-N-Pac Stores, Inc. 1405 United Drive, Suite 115 San Marcos, Texas 78666

Re: Edwards Aquifer, Hays County.

PROJECT NAME: Sac-N-Pac Store #111, Hunter and Suttles Road; San Marcos, Texas. PLAN TYPE: Request for Exception from Requirement for Submittal of Underground Storage Tank (UST) Facility Construction Plans and Specifications; 30 Texas Administrative Code (TAC) §213.5; Edwards Aquifer Protection Program.

Edwards Aquifer Protection Program File Number: 98081401

Dear Mr. Schott:

On August 14, 1998, the Texas Natural Resource Conservation Commission (TNRCC) received your request for an exception (under 30 TAC §213.9) from the Edwards Aquifer Protection Rules requirement for submitting an Edwards Aquifer Protection Plan (EAPP) application for modifications to the existing underground storage tank (UST) system at the referenced site. Final review of the exception request was completed after additional material was received on September 4, 1998. The justification provided in the exception request is in general compliance with 30 TAC Chapter 213; therefore, approval of the plan is hereby granted subject to applicable state rules and the conditions in this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, construction has commenced on the project or an extension of time has been requested.

Sac-N-Pac desires to undertake the following modifications at the existing gasoline station to come into compliance with the December 1998 UST requirements:

- 1) The replacement of four existing dispenser with two multi-product dispensers;
- 2) Removal of the existing swing joints and replacement with new stainless steel dispense r-end flexible connector hoses, shear valves, and associated secondary containment boots;
- 3) Replacement of suction pumps with submersible pressurized pumps;

REPLY TO: REGION 11 • 1921 CEDAR BEND DR., STE. 150 • AUSTIN, TEXAS 78758-5336 • 512/339-2929 • FAX 512/339-3795

Mr. Tom Schott Page 2 September 11, 1998

- 4) Installation of an automatic tank gauge and sump in each tank;
- 5) Installation of two monitor wells; and
- 6) Removal of limited segments of the dispenser-end and pump-end product piping. Approximately four feet of new 2-inch diameter fiberglass reinforced plastic piping will be installed at the dispenser-end connections and approximately two feet at the pump-end connections. Additionally, an estimated ten foot coupling will be installed to manifold tanks number 3 and 4.

The request indicated that the existing concrete over the tanks and in front of each dispenser island will be removed. Pea gravel around the fittings will be temporarily staged in a designated area until it is either determined to be free of contamination and returned to the excavations or disposed of in an off-site area. The replacement backfill material must be clean and free of contamination. Temporary erosion and sedimentation controls will be provided on-site.

Justification for the request is based upon the minimal amount of repiping that will be required for the proposed upgrade. The proposed enhancements to the UST system will provide greater environmental protection of the on-site soil and the groundwater of the Edwards Aquifer.

SPECIAL CONDITION

Only clean, washed, and non-corrosive backfill can be returned to the excavated areas. If the excavated backfill material is contaminated, it must be replaced with clean backfill.

STANDARD CONDITIONS

- For projects on the recharge zone all temporary erosion and sedimentation (E&S) controls shall be installed prior to all other construction at the site. (1) Silt fences should be used when the drainage area is less than 2 acres and the slope is less than 10%. (2) Rock berms with filtration should be used when the drainage areas are greater than two acres or when the slopes are in excess of 10%. The bottom edge of the filter fabric must be buried a minimum of 6 inches below grade.
- 2. The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.
- 3. A copy of any local construction permit should be submitted to the Austin Regional Office within 30 days of the issuance of this approval.

Mr. Tom Schott Page 3 September 11, 1998

- 4. Please note, following this approval of the regulated activities described in the referenced submittal, any modification to these activities that is required by some other regulating authority or is desired by the applicant will require the submittal of a new UST application to modify this approval. And, as indicated in 30 TAC §213.14, an application to modify any approved regulated activity shall include payment of appropriate fees and all information necessary for its review and executive director approval.
- 5. All contractors conducting regulated activities associated with this proposed regulated development shall be provided with copies of this approval letter and the entire contents of the submitted UST Plans & Specifications so as to convey to the contractors the specific conditions of approval. During the course of regulated activities, the contractors shall be required to keep on-site copies of the UST Plans and this approval letter.
- 6. Pursuant to 30 TAC §213.5(f)(1), prior to commencing construction, the applicant must notify the Austin Regional Office in writing at least 48 hours prior to initiation of construction.
- 7. If any solution openings or sinkholes are discovered during the upgrade activities, all excavation and installation activities shall be immediately suspended, and the owner or his designated representative shall notify the TNRCC's Austin Regional Office. Upon completion of the excavation, a qualified geologist shall inspect the pit. Further excavation and installation activities shall not proceed until the TNRCC has reviewed and approved the methods proposed to protect such features from any potential adverse impacts of the hydrocarbon storage facility.
- 8. All UST installations, repairs, and removals must be conducted by a registered UST contractor who has a licensed installer or on-site supervisor during all critical junctures, as required by 30 TAC §334 Subchapter I.
- 9. Installation, testing, and operation of the tanks, piping, and all other components of the proposed storage and monitoring systems shall be in conformance with the manufacturer's specifications and the procedures described in this letter.
- 10. An "as-built" project-specific site design plan shall be drawn to scale and of sufficient accuracy, clarity, and detail to depict the specific locations and dimensions of all components of the underground storage tank system, including the tanks, piping and fittings, pumps, observation wells, containment equipment, release detection devices, and other auxiliary equipment. Also, detailed construction drawings of plan and profile views and detail drawings of specific components shall be prepared. A copy of such "as-built" site plan and construction drawings, as well as operating instructions for all major system components and

Mr. Tom Schott Page 4 September 11, 1998

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written records of all tank tests, piping tests, release detection monitoring results, and other inspections, shall be maintained in a secure location at the site of the proposed facility and shall be available for examination by TNRCC personnel.

- 11. The owner of the proposed facility shall assure that the storage tank system is installed, operated, and maintained in full compliance with the applicable provisions of 30 TAC Chapter 334 of Commission rules, which establishes the requirements for the design, installation, operation, corrosion protection, construction notification, registration, fee assessment, financial responsibility, release reporting, and corrective action related to such system.
- 12. The applicant or his agent shall record this Edwards Aquifer Protection Program (EAPP) approval in the county deed records within 30 days of receiving this notice of exception and prior to commencing any regulated activity at the project location. Proof of deed recordation shall be submitted to the Austin Regional Office. A suggested format that you may use to deed record the approved EAPP is enclosed.

If you have any questions or require additional information, please contact Ms. Melissa Lopez of the Edwards Aquifer Protection Program at the Austin Regional Office at (512) 339-2929.

Sincerely frey A. Saitas, P.E.

Executive Director Texas Natural Resource Conservation Commission

JAS/mml Enclosure

 cc: Mr. Stephen Forbes, P.E., Forbes Environmental Engineering, Inc.
 Mr. Ron Patterson, Director, Planning & Development Services, City of San Marcos The Honorable Eddy Etheridge, County Judge, Hays County Ms. Rosalinda Escalón, Field Operations, TNRCC, Austin

FORBES ENVIRONMENTAL ENGINEERING, INC.

435 Isom Road, Suite 228 San Antonio, Texas 78216 (210)342-8382; FAX: 344-5407

Ms. Melissa Lopez Petroleum Underground Storage Tank Division Texas Natural Resource Conservation Commission Region 11 Austin 1921 Cedar Bend, Suite 150 Austin, Texas 78758 August 10, 1998

AUG 1 4 1998

TNRCC-Field Operations Austin Region 11

RE: Request for exception to requirement for submittal of HHS Application in order to conduct UST System improvements at Sac-N-Pac #111; Facility No. 0018194

Dear Ms. Lopez:

The following is a summary description of the improvements to completed for the UST system at Sac-N-Pac Store #111 located at Hunter and Suttles Road in San Marcos, Texas. The facility lies inside the boundaries of the Edwards Aquifer Transition Zone(see attached Figure 1.0). The purpose of the modifications are to improve the efficiency and at the same time to meet December 1998 UST requirements. There is little to no potential for the planned improvements to impact groundwater, nor will the activities change any topographic or geologic features. There are no known sensitive features at the site. This request for exception is submitted in accordance with the provisions of 30 TAC §213.9 (pertaining to Exceptions to the TNRCC Edwards Aquifer Rules).

The current system consists of four 8,000 gallon single wall FRP USTs. There are two islands(see Figure 3.0) with two units. 'Each unit has one dispenser, except for one of the unleaded units which has two dispensers. See attached Figure 2.0 showing the general UST system layout and proposed upgrades.

The planned improvements are to replace the four existing dispensers with two multiproduct dispensers; install stainless steel flex connector hoses with secondary containment boots below each dispenser with new shear valves; install stainless steel flex connector hoses with secondary containment boots at each submersible pump; replace suction pumps with pressure pumps; install automatic tank gauge with sump in each tank; install two monitor wells; and couple Tank 3 and 4 together with a 2" single wall FRP manifold(not a pressure line). The following tasks will be performed to install these improvements:

- The concrete in front of each island will be removed in order to replace the existing swing joints with the new flex connector hoses and shear valves, and install the secondary containment boots.
- In order to install the connectors and containment at the submersible pumps and install the automatic tank gauge probes, the existing concrete over half of the tankhold will be removed. The pea gravel around the fittings will be temporarily staged on the surface. Tank 3 and Tank 4 will be connected together with the 2" FRP manifold. The staged pea gravel will be replaced in the tankhold once the new equipment is in place and the surface recovered with concrete.

There will be only minimum disturbance to the shallow subsurface above the tanks. Only enough surface concrete and backfill will be removed to be able to perform the respective tasks. No tanks are to be removed and minimum repiping will be necessary.

Request for Exception 8/10/98 Page 2

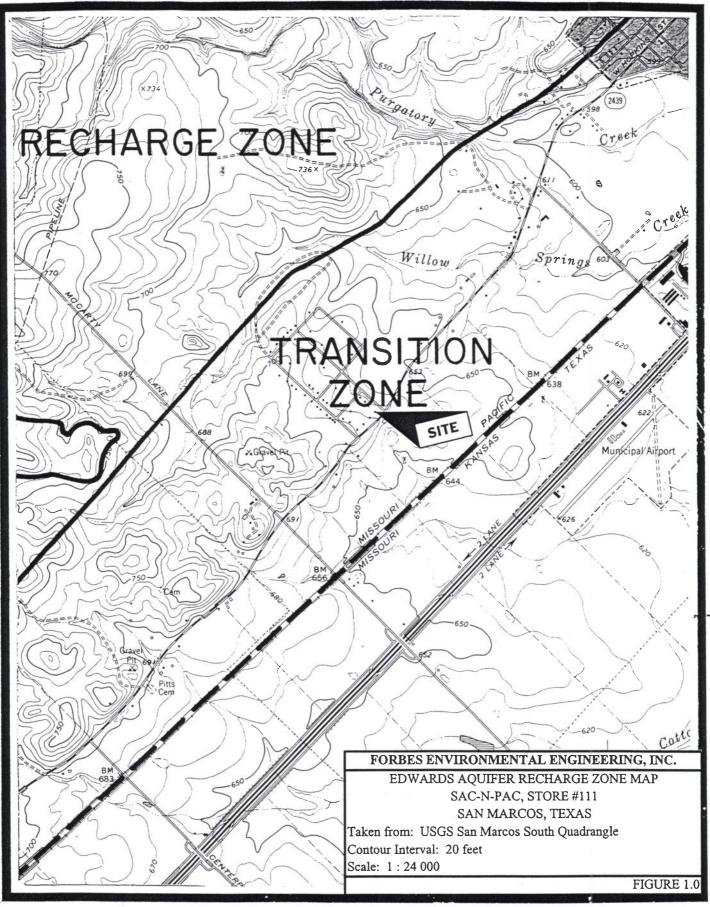
Therefore, an exception to the requirements for submittal of an Application for Underground Hydrocarbon Storage on the Edwards Aquifer Transition Zone is requested. The contractor will be appropriately registered and submit applicable notifications.

Please let me know if you need additional information or have any questions. Thank you for your assistance and consideration.

Sincerely yours,

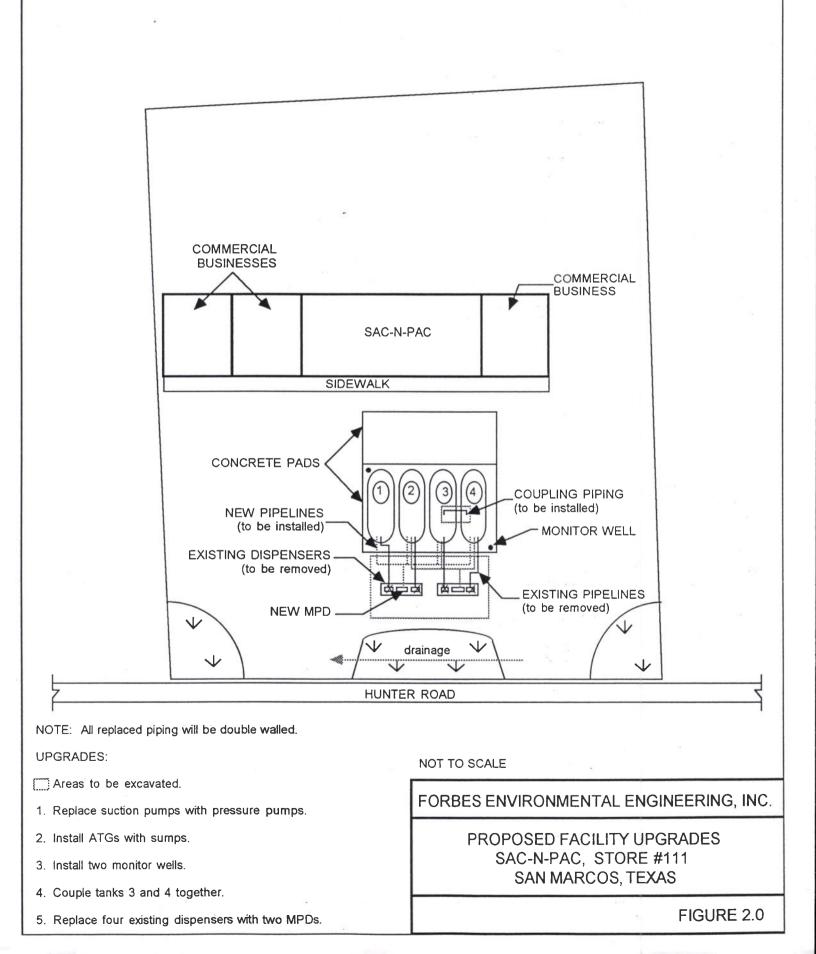
Stephen Forbes, P.E

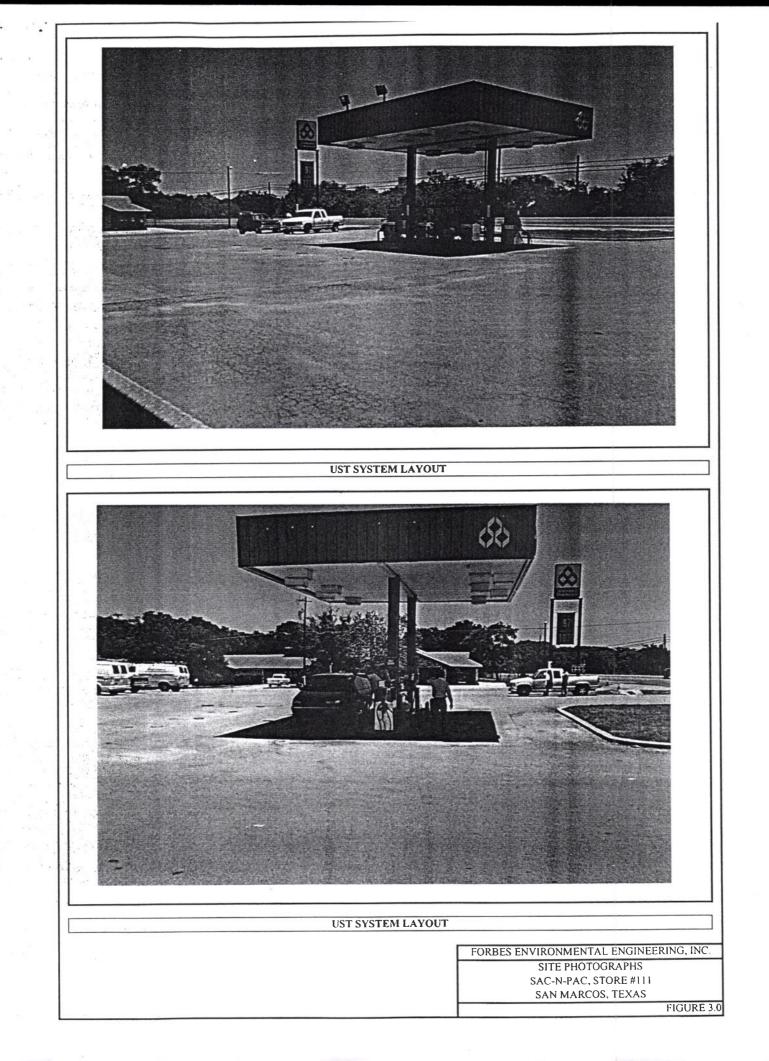
cc: Tom Schott, Sac-N-Pac Stores, Inc.



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FORBES ENVIRONMENTAL ENGINEERING, INC.

435 Isom Rd., Suite 228 San Antonio, Texas 78216 (210)342-8382

MEMORANDUM

TO: Ms. Melissa Lopez TNRCC, Region 11 1921 Cedar Bend, Suite 150 Austin Texas, 78758 DATE: September 2, 1998

SEP 04 1998

TNRCC-Field Operations Austin Region 11

AEUEINED

CC: Mr. Tom Schott Sac-N-Pac, Inc. Via Facsimile Original by USPS

FROM: Stephen Forbes, P.E.

SUBJECT: Addendum to request for exception for Sac-N-Pac #111 dated 8/10/98.

As you requested, this addendum is submitted to clarify the extent of pipe work to be completed for the above referenced request. The pipe work will be limited to approximately four feet at the dispenser islands in order to hook-up new flex connectors to accommodate new dispensers, and two feet at each new pressure pump installation, as well as an estimated ten foot coupling to connect tanks 3 and 4. The remaining original piping will not be disturbed.

It is understood that if there is any significant deviation from these plans all work will be discontinued and the TNRCC will be notified. Work will not be continued without concurrence from the TNRCC.

Please let me know if this does not adequately resolve and clarify any concerns. Thank you your assistance and consideration.

phen Forbes, P.E.

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION TELEPHONE MEMO TO THE FILE

Please complete with typewriter or black pen.	
Call to: <u>helissin logen</u> Date of call: <u>11-3-98</u> Phone no.: (<u>2(0)</u>) <u>242.2382</u>	Call from: Steve For Ses File no.: 98081401 Subject: Son-N-Par #111
Information for file: Hotel of commune	ut of constructor
Si	gned Mith. Ly

FORBES ENVIRONMENTAL ENGINEERING, INC.

1921 Cedar Bend, Suite 150

Petroleum Underground Storage Tank Division Texas Natural Resource Conservation Commission

Ms. Melissa Lopez

Region 11 Austin

Austin, Texas 78758

435 Isom Road, Suite 228 San Antonio, Texas 78216 (210)342-8382; FAX: 344-5407

August 10, 1998

RECEIVED

AUG 1 4 1998

RE: Request for exception to requirement for submittal of HHS Application in order to region 11 conduct UST System improvements at Sac-N-Pac #111; Facility No. 0018194

Dear Ms. Lopez:

The following is a summary description of the improvements to completed for the UST system at Sac-N-Pac Store #111 located at Hunter and Suttles Road in San Marcos, Texas. The facility lies inside the boundaries of the Edwards Aquifer Transition Zone(see attached Figure 1.0). The purpose of the modifications are to improve the efficiency and at the same time to meet December 1998 UST requirements. There is little to no potential for the planned improvements to impact groundwater, nor will the activities change any topographic or geologic features. There are no known sensitive features at the site. This request for exception is submitted in accordance with the provisions of 30 TAC §213.9 (pertaining to Exceptions to the TNRCC Edwards Aquifer Rules).

The current system consists of four 8,000 gallon single wall FRP USTs. There are two islands(see Figure 3.0) with two units. Each unit has one dispenser, except for one of the unleaded units which has two dispensers. See attached Figure 2.0 showing the general UST system layout and proposed upgrades.

The planned improvements are to replace the four existing dispensers with two multiproduct dispensers; install stainless steel flex connector hoses with secondary containment boots below each dispenser with new shear valves; install stainless steel flex connector hoses with secondary containment boots at each submersible pump; replace suction pumps with pressure pumps; install automatic tank gauge with sump in each tank; install two monitor wells; and couple Tank 3 and 4 together with a 2" single wall FRP manifold(not a pressure line). The following tasks will be performed to install these improvements:

- The concrete in front of each island will be removed in order to replace the existing swing joints with the new flex connector hoses and shear valves, and install the secondary containment boots.
- In order to install the connectors and containment at the submersible pumps and install the automatic tank gauge probes, the existing concrete over half of the tankhold will be removed. The pea gravel around the fittings will be temporarily staged on the surface. Tank 3 and Tank 4 will be connected together with the 2" FRP manifold. The staged pea gravel will be replaced in the tankhold once the new equipment is in place and the surface recovered with concrete.

There will be only minimum disturbance to the shallow subsurface above the tanks. Only enough surface concrete and backfill will be removed to be able to perform the respective tasks. No tanks are to be removed and minimum repiping will be necessary.

Request for Exception 8/10/98 Page 2

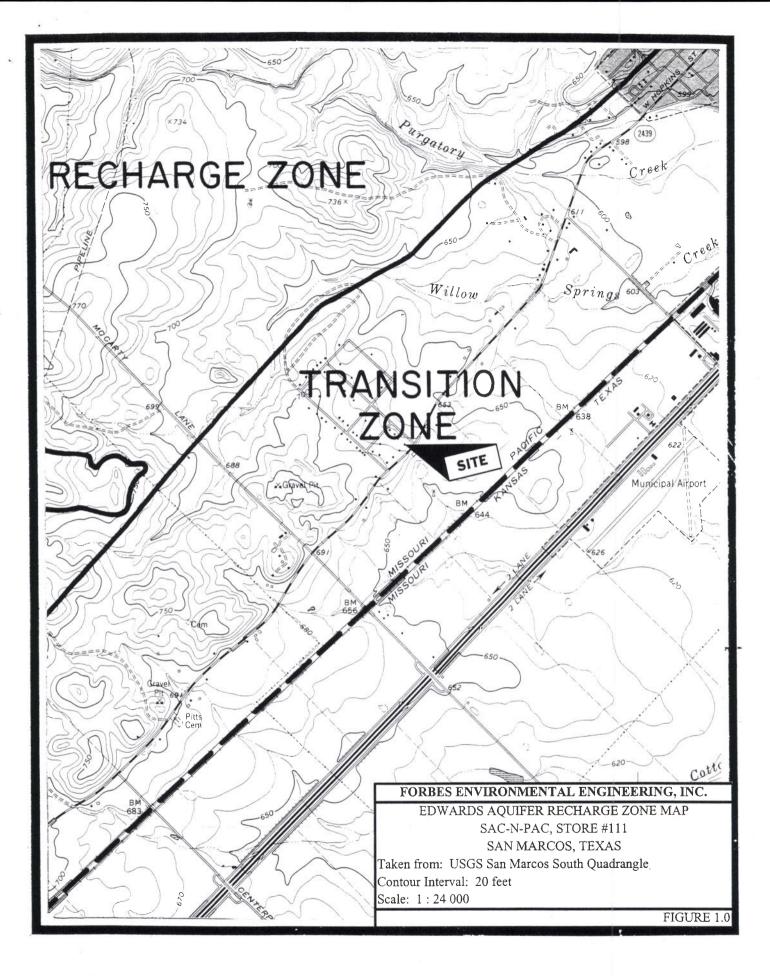
Therefore, an exception to the requirements for submittal of an Application for Underground Hydrocarbon Storage on the Edwards Aquifer Transition Zone is requested. The contractor will be appropriately registered and submit applicable notifications.

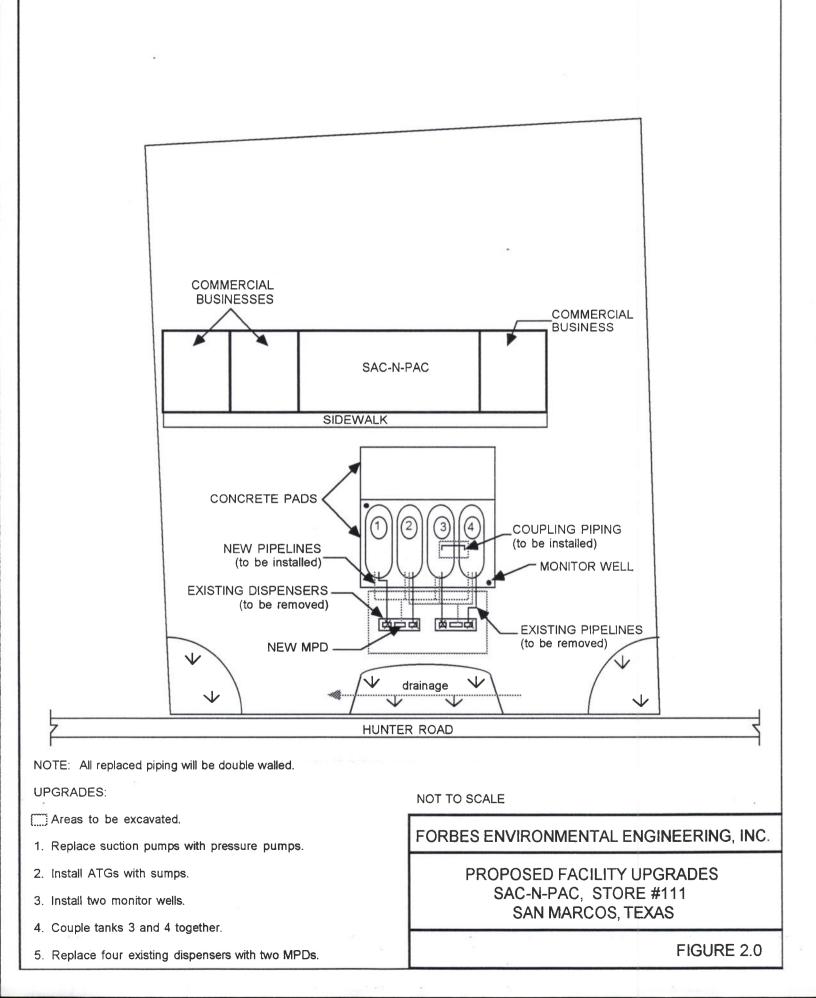
Please let me know if you need additional information or have any questions. Thank you for your assistance and consideration.

Sincerely yours,

Stephen Forbes, P.E.

cc: Tom Schott, Sac-N-Pac Stores, Inc.







WALLGREN SVCS

FORBES ENVIRONMENTAL ENGINEERING, INC.

435 Isom Rd., Suite 228 San Antonio, Texas 78216 (210)342-8382

MEMORANDUM

TO: Ms. Melissa Lopez TNRCC, Region 11 1921 Cedar Bend, Suite 150 Austin Texas, 78758 DATE: September 2, 1998

CC: Mr. Tom Schott Via Facsimile Sac-N-Pac, Inc. Original by USPS

FROM: Stephen Forbes, P.E.

SUBJECT: Addendum to request for exception for Sac-N-Pac #111 dated 8/10/98.

As you requested, this addendum is submitted to clarify the extent of pipe work to be completed for the above referenced request. The pipe work will be limited to approximately four feet at the dispenser islands in order to hook-up new flex connectors to accommodate new dispensers, and two feet at each new pressure pump installation, as well as an estimated ten foot coupling to connect tanks 3 and 4. The remaining original piping will not be disturbed.

It is understood that if there is any significant deviation from these plans all work will be discontinued and the TNRCC will be notified. Work will not be continued without concurrence from the TNRCC.

Please let me know if this does not adequately resolve and clarify any concerns. Thank you your assistance and consideration.

Stephen Forbes, P.E.

SAC-N-PAC STORES, INC

FACSIMILE TRANSMITTAL SHEET		
TO: MELISSA LOPEZ	FROM: Loei KLAVER	
COMPANY:	DATE:	
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER: 3	
PHONE NUMBER:	RE: #///	
	•	
□ FOR REVIEW □ URG	ENT D PLEASECOMMENT	

1405 UNITED DRIVE, SUITE 115 SAN MARCOS, TX 78666 OFFICE# (512)392.6484 FAX# (512)392.6333 09/30/98 WED 10:49 FAX 512 392 6333 SAC-N-PAC

S

DEED RECORDATION AFFIDAVIT 471

Edwards Aquifer Protection Plan

THE STATE OF TEXAS

County of ______ §

BEFORE ME, the undersigned authority, on this day personally appeared ______

- (1) That my name is <u>Commensed Warners</u> and that I own the real property described below.
- (2) That said real property is subject to an EDWARDS AQUIFER PROTECTION PLAN which was required under the 30 Texas Administrative Code (TAC) \$213, the EDWARDS AQUIFER RULES of the TEXAS NATURAL RESOURCE CONSERVATION COMMISSION.
 - (3) That the EDWARDS AQUIFER PROTECTION PLAN for said real property was, approved by the TEXAS NATURAL RESOURCE CONSERVATION COMMISSION on <u>09/11/98</u>
 - A copy of the letter of approval from the commission is attached to this affidavit as Exhibit A and is incorporated herein by reference.
- (4) The said real property is located in <u>H7445</u> County, Texas, and the legal description of the property is as follows: 1.01 Acres - Im Veramenoi Lergeye No /

LEAGUE anes SWORN AND SUBSCRIBED TO before me, on this 24theay of September 1998.

THE STATE OF TEXAS S

County of thays \$

BEFORE ME, the undersigned authority, on this day personally appeared

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 <u>244</u>-day of <u>(eptember)</u> 19<u>98</u>. NOTARY PUBLIC <u>LORI E. KLAVER</u> Typed or Printed Name of Notary MY COMMISSION EXPIRES: <u>July 28, 2002</u> SAC-N-PAC

1458 476

4.4.1.299

FILED AND RECORDED OFFICIAL PUBLIC RECORDS

Stranger!

9-24-98 08:50 AM 9820306 LYNN \$17.00 MARGIE T VILLALPANDO, County Clerk HAYS COUNTY

SAC-N-PAC STORES, ENC. ATT: TOM SCHOTT 1405 UNITED DRIVE, SUITE 115 SAN MARCUS, TR. 78666

Attachment B

Narrative of Proposed Modification

ATTACHMENT B

Narrative of Proposed Modification

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

This proposed UST System Replacement project is scheduled to be conducted at 7-Eleven, Inc. Store No. 40569 (Site), which is currently operating as a retail gasoline facility, located at 2700 Hunter Road, Unit B in San Marcos, Hays County, Texas.

The Site is an approximate 1.01-acre property that has operated as a retail petroleum facility from at least 1984 through present day. It is situated within the Edwards Aquifer Transition Zone. A Texas Commission on Environmental Quality (TCEQ) Central Registry records search documents four (4) 8,000-gallon single-walled fiberglass-reinforced plastic (FRP) Underground Storage Tanks (USTs) containing gasoline and diesel fuels. A UST Registration and Self-Certification Form dated November 9, 2023, documents tank numbers two and three as temporarily out of service. USTs one and four are currently registered as in use at the site. TCEQ records search also provides an Edwards Aquifer ID No. 11-98081401. Using the Edwards Aquifer ID Number documents were recovered using the TCEQ Records Online search. A document dated September 11, 1998, by the Texas Natural Resource Conservation Commission (TNRCC) documents the request of exception from the requirement of submittal of UST facility construction plans.

Currently 7-Eleven proposes the following UST System modifications at the Site:

- Remove existing tank slab, dispenser islands, and existing UST system with product and vent piping;
- Install one (1) new 15,000-gallon capacity double-walled fiberglass-reinforced plastic (FRP) Regular Unleaded (RUL) Underground Storage Tank (UST);
- Install one (1) new 15,000-gallon capacity split double-walled FRP Diesel (DSL) and Premium Unleaded (PUL) UST;
- Install three (3) new RUL, PUL, and DSL Submersible Turbine Pumps (STP);
- Install three (3) new RUL, PUL, and DSL product fill buckets;
- Install new 3" double-walled piping over 2" double-walled FRP product piping from new USTs to existing dispensers;
- Install two (2) new vapor vent risers;
- Install new 2-inch coaxial single-walled piping for vapor/vent at USTs to new remote vent;
- Reuse one (1) existing 3+0 dispensers;
- Reuse one (1) existing 3+1 dispensers for DSL;
- Install two (2) new stainless steel dispenser islands;
- Install a new automatic tank gauge site monitor console;
- Install two (2) new observation wells in the tank slab; and
- Install new concrete at disturbed areas.

A Geologic Assessment (Appendix B) was conducted January 24, 2025. Sensitive features were not identified on the project site. No offsite areas are anticipated to be affected by the proposed construction activities. The site is currently covered with concrete.

The following is documented in the Temporary Stormwater Section (Appendix E):

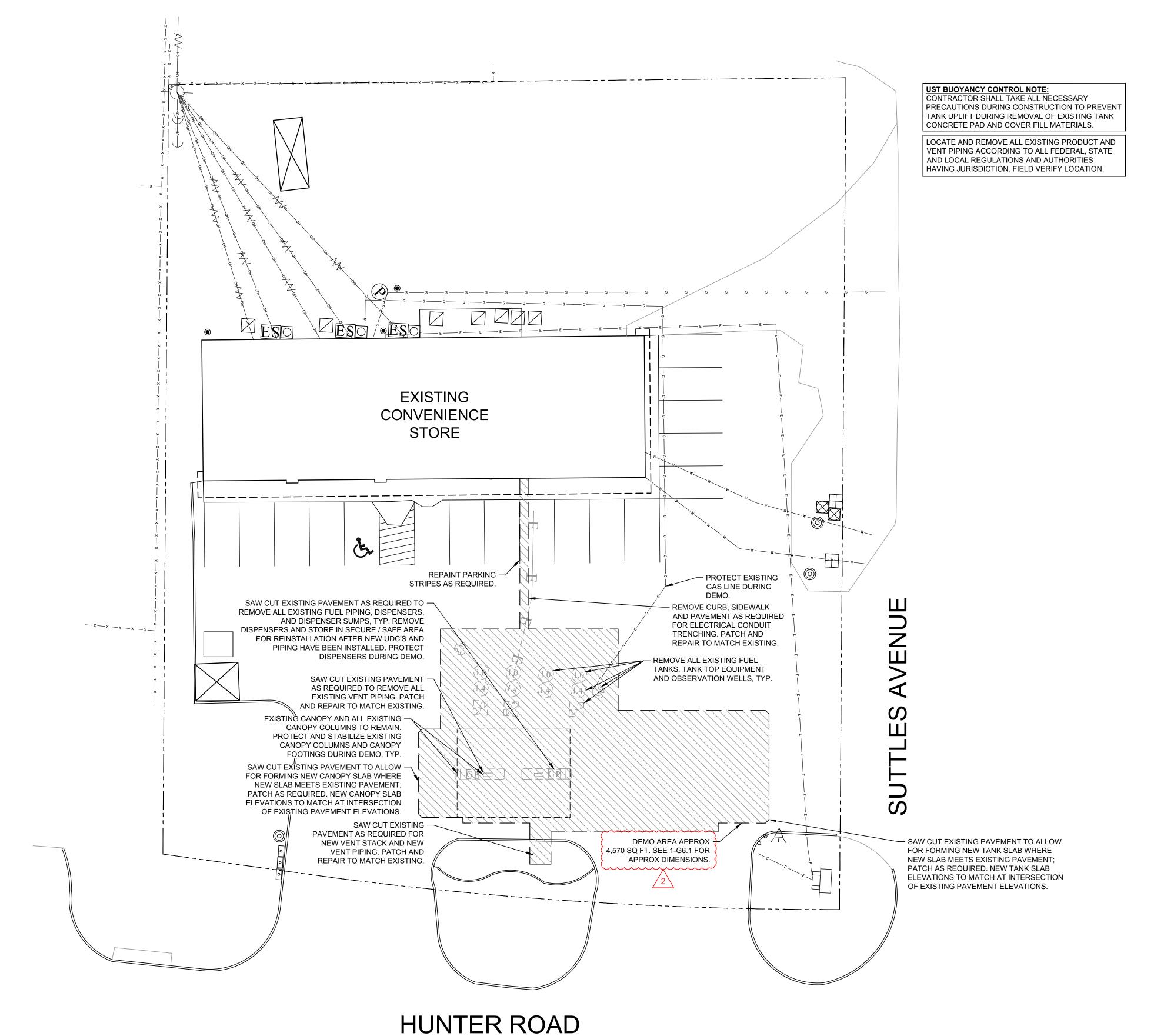
- Total area of impervious cover: approximately 4,570 square feet;
- Areas to be demolished (total disturbed area): approximately 4,570 square feet;

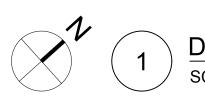
• Permanent Best Management Practices (BMPs): permanent seeding, sodding, or mulching.

Prior to concrete removal, a silt fence will be installed to intercept and detain waterborne sediment from unprotected areas. The fence shall remain in place until the disturbed area is permanently stabilized. After construction activities are complete, the area will be re-surfaced with an impervious concrete cover.

Attachment C

Current Site Plan of the Approved Project





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DEMO PLAN SCALE: 1/16" = 1'-0"



Know what's **below** Call before you dig.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CORESTATES, INC. DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

GENERAL NOTES

CONTRACTOR TO CUT AND REMOVE CONCRETE A NECESSARY TO REMOVE ALL EXISTING PIPING. LOCATION OF REMOVAL AT DISPENSER ISLANDS I APPROXIMATE AND IS BASED ON AVAILABLE INFORMATION.

AS	Rev. # Date Description 1 02/06/25 DEER REVIEW COMMENTS	- 0	to 202	24-05	
	7-ELEVEN, INC.	3200 HACKBERRY ROAD, IRVING TEXAS 75063	7-ELEVEN #40569 2700 HUNTER RD, STE B	SAN MARCOS, TX 78666	FUELING DEMOLITION PLAN
			GROUP		ERM NUMBER, F-9349 EXPIRATION: 07/31/2025
	TATO J				Ш
				212 SE 34th Street Suite 2 Bentonville, AR 72712	479.986.4400 core-states.com
	8204		30/24	KLC 212 SE 34th Street suite 2 Bentonville, AR 72712	RWB core-states.com
	8204		30/24	KLC 212 SE 34th Street suite 2 Bentonville, AR 72712	RWB core-states.com
	8204			KLC 212 SE 34th Street suite 2 Bentonville, AR 72712	RWB core-states.com
	8204	specific use for which they are intended. Any extension of use Scale: AS NOTED GURE	to other projects, by owner or any other party, without the expressed, written consent of Date: 12/30/24	Core States Group is done at the user's own risk. If used in a Drawn By: KLC Bentonville, AR 72712 Bentonville, AR 72712	States Group harmless from all Checked By: RWB core-states.com claims and losses.

FUELING - USA

APPENDIX D UNDERGROUND STORAGE TANK FACILITY PLAN APPLICATION (TCEQ-0583)

Underground Storage Tank Facility Plan Application

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Jessica Jones of Aptim Environmental and Infrastructure, LLC

Date: 03/07/2025

Signature of Customer/Agent:

Regulated Entity Name: 7-Eleven, Inc. Store No. 40569

Underground Storage Tank (UST) System Information

- 1. X Attachment A Detailed Narrative of UST Facility. A detailed narrative description of the proposed UST Facility is attached. Note: Example descriptions are provided in the instructions (TCEQ-0583-Instructions)
- 2. Tanks and substance to be stored:

Table 1 - Tanks and Substances Stored

UST Number	Size(Gallons)	Substance to be Stored	Double-wall Tank Material
1	15K gallon	Gasoline - RUL	Double-wall FRP

UST Number	Size(Gallons)	Substance to be Stored	Double-wall Tank Material
		6K gal: Gasoline - PUL	
2	15K gallon (split tank)	9K gal: Diesel	Double-wall FRP
3			
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

Equipment	Corrosion Protection (Method)
Tanks	FRP (noncorrodible)

Equipment	Corrosion Protection (Method)
Product Delivery Piping	FRP (noncorrodible)
Vapor Recovery Piping	Not Applicable
Submersible Pumps	Tank top appurtenances contained in double- walled FRP STP Sump
Flex Connector (dispenser end)	Stainless Steel contained in UDC sump
Flex Connector (pump end)	Stainless Steel contained in UDC sump
Riser	Black Iron wrapped with dielectric wrap

7. \square 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

igtriangleq Mechanical line leak detectors (for pressurized lines only)

Automatic (electronic) line leak detectors

Excavation and Backfill

 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 <u>16</u> 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 <u>12</u> 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

Crushed rock

12. The slope of the product delivery line(s) will conform to 30 TAC 334.46(c)(2) and will be 1/8" per foot (1/8" per foot minimum).

Site Plan Requirements

- Items 13 24 must be included on the Site Plan.
- 13. The Site Plan must have a minimum scale of 1'' = 400'.

Site Plan Scale: 1" = <u>40'</u>.

14. 100-year floodplain boundaries:

\boxtimes	The 100-year floodplain boundaries are based on the following specific (including date
	of material) sources(s): FEMA Flood Insurance Map: Hays County Unincorporated Areas.
	<u>Map No. 48209CO476G. Effective Date: 01/17/2025.</u>

Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

 \boxtimes 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 <u>6 (1 active + 5 plugged) (</u>#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

 \boxtimes The wells are not in use and have been properly abandoned.

] The wells are not in use and will be properly abandoned.

 \boxtimes 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. \square 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. X 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.

ATTACHMENT A

Detailed Narrative of UST Facility

ATTACHMENT A

Detailed Narrative of the UST Facility

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

This proposed UST System Replacement project is scheduled to be conducted at 7-Eleven, Inc. Store No. 40569 (Site), which is currently operating as a retail gasoline facility, located at 2700 Hunter Road, Unit B in San Marcos, Hays County, Texas.

The Site is an approximate 1.01-acre property that has operated as a retail petroleum facility from at least 1984 through present day. It is situated within the Edwards Aquifer Transition Zone. A Texas Commission on Environmental Quality (TCEQ) Central Registry records search documents four (4) 8,000-gallon single-walled fiberglass-reinforced plastic (FRP) Underground Storage Tanks (USTs) containing gasoline and diesel fuels. A UST Registration and Self-Certification Form dated November 9, 2023, documents tank numbers two and three as temporarily out of service. USTs one and four are currently registered as in use at the site. TCEQ records search also provides an Edwards Aquifer ID No. 11-98081401. Using the Edwards Aquifer ID Number documents were recovered using the TCEQ Records Online search. A document dated September 11, 1998, by the Texas Natural Resource Conservation Commission (TNRCC) documents the request of exception from the requirement of submittal of UST facility construction plans.

Currently 7-Eleven proposes the following UST System modifications at the Site:

- Remove existing tank slab, dispenser islands, and existing UST system with product and vent piping;
- Install one (1) new 15,000-gallon capacity double-walled fiberglass-reinforced plastic (FRP) Regular Unleaded (RUL) Underground Storage Tank (UST);
- Install one (1) new 15,000-gallon capacity split double-walled FRP Diesel (DSL) and Premium Unleaded (PUL) UST;
- Install three (3) new RUL, PUL, and DSL Submersible Turbine Pumps (STP);
- Install three (3) new RUL, PUL, and DSL product fill buckets;
- Install new 3" double-walled piping over 2" double-walled FRP product piping from new USTs to existing dispensers;
- Install two (2) new vapor vent risers;
- Install new 2-inch coaxial single-walled piping for vapor/vent at USTs to new remote vent;
- Reuse one (1) existing 3+0 dispensers;
- Reuse one (1) existing 3+1 dispensers for DSL;
- Install two (2) new stainless steel dispenser islands;
- Install a new automatic tank gauge site monitor console;

- Install two (2) new observation wells in the tank slab; and
- Install new concrete at disturbed areas.

Prior to concrete removal, a silt fence will be installed to intercept and detain waterborne sediment from unprotected areas. The fence shall remain in place until the disturbed area is permanently stabilized. After construction activities are complete, the area will be resurfaced with an impervious concrete cover.

ATTACHMENT B

Manufacturer Information For Tanks



Fuel and DEF Underground Fiberglass Tanks



"As far as protecting my owners and their future, I'm looking at 30 to 40 years down the road. Fiberglass is the way to go. It allows us to go with the new biofuels and not worry."

Think decades not years

#1

Corrosion is the #1 cause of tank failure

10-100x

MIC can occur 10-100 times faster than chemical corrosion A fiberglass underground storage tank made of 100% premium resin is superior to a steel tank in many ways — starting with corrosion resistance and structural strength. That's why major fuel marketers, C-store chains and hypermarkets overwhelmingly choose fiberglass underground storage tanks today. And that's why customers continue to equate secure storage of fuel products with the Xerxes name.

External corrosion from surrounding soil began the trend of replacing rusting steel fuel tanks with corrosion-resistant fiberglass tanks decades ago. When new biofuels and ultralow sulfur diesel (ULSD) entered the market, a rise of internal corrosion in steel fuel tanks created a new problem. Water bottoms in steel tanks storing biofuels lead to aggressive microbial influenced corrosion (MIC). Untreated, the ultimate result can be tank failure. Once again, fiberglass' resistance to corrosion — inside and out gives it clear environmental advantages.

Xerxes corrosion-resistant fiberglass tanks need no added coating or cathodic protection to make them corrosion-resistant with new biofuels and traditional fuels. Our 30-year limited warranty points to the strength of fiberglass' corrosion resistance.

Compatible with

E10, E15, E85, biodiesel, ultra-low sulfur diesel

- No expensive maintenance required to remove water bottoms
- No water-bottom warranty exclusion
- Warranty transferable to new tank owner

30-year limited warranty

Compared to 10 years for many steel tanks

Structural strength is about more than weight

Engineers look at tank material and geometry when evaluating design options for an underground fuel tank. The strength of our tank comes from a combination of the material stiffness of fiberglass composite and the geometry of our integrally ribbed, cylindrical tank with dished or domed end caps.



Integrally Constructed Ribs

Functioning like I-beams, high-profile fiberglass ribs are fabricated directly into the tank cylinder. This process is superior to ribs created in a separate manufacturing step.

Designed for H-25 / HS-25 axle loads

Designed for easy shipping



Glass-Fabric Bonding

Our proprietary Parabeam[®] consists of two layers of glass fabric woven together by vertical pillars. Infused with a thermoset resin, it produces a unique laminate that adds strength and creates a defined interstitial space. _____

and installation

ANSI/CAN/UL/ULC 1316:2018 listed

Oil-water separators UL 2215-listed CAN/ ULC S656-listed

"We are always looking for ways to improve our environmental performance. Installing fiberglass double-wall tanks not only helps us achieve this, it reduces our environmental risk."

 Retail fuel marketer when replacing steel tanks with fiberglass tanks DEF tanks third-party compatibility tested

Underground Tanks — Diameters up to 12 feet



Fuel Storage Tanks

Double-wall tanks are the industry standard in fuel storage. Triple-wall tanks provide enhanced containment when site conditions or regulations warrant that. Multicompartment tanks save space when storing more than one grade or type of fuel.



DEF Storage Tanks

Diesel exhaust fluid (DEF) has specific storage requirements. Fiberglass underground DEF tanks need no added coatings or linings to maintain product integrity. Underground tanks can also store larger capacities than above ground tanks.



Oil-Water Separators

Our oil-water separators incorporate unique refinements inside our tank to remove free-floating oils and settleable sands from oil-water mixtures. A properly sized coalescer is designed to produce effluent quality to meet most water runoff regulations.

- Capacities up to 50,000
 gallons or 155,000 liters
- Double-wall, triplewall and multicompartment models
- Dry and hydrostatic monitoring options
- Capacities up to 50,000 gallons or 155,000 liters
- Single-wall and double-wall models
- Extensive third-party compatibility testing
- Capacities up to 30,000 gallons or 113,000 liters
- Single-wall and double-wall models
- 4'-10' diameters

Accessories

Retail and commercial fueling facilities are sophisticated systems in highly regulated environments. A full range of easy-to-install accessories provide a total solution.



Containment Sumps

Single-wall and doublewall containment sumps are custom-matched to our factory-installed collars. Double-wall sumps are frequently chosen to meet changing regulations. A variety of models are available.



Truchek[®] Hydrostatic Monitoring

Our patented Truchek system continuously monitors both walls of a double-wall tank for leaks in all installation conditions. It also provides options for easy and reliable tank-tightness testing.



Engineering Anchoring System

An anchoring system can add extra security to a tank installation. Engineered and sized for specific tank sizes, our anchoring system includes prefabricated concrete deadmen, anchoring straps, galvanized jawto-jaw turnbuckles and adjustable anchor points.

Typical Accessories

- Engineered anchoring systems
- Dry and hydrostatic monitoring options
- Manways, covers and extensions
- Containment collars, sumps and covers
- Standard and custom fittings and nozzles
- Fill tubes
- Ladders

Unparalleled manufacturing capability

Leading the way in composite technology

No other tank manufacturer has the kind of manufacturing capability in North America that we have. No matter where our customers need fuel tanks, our facilities are not far from your next installation.

Xerxes fuel tanks and accessories offer longterm security for all your underground fuel and DEF storage needs. Throughout North America, our expert engineering and sales teams are ready to design and deliver the tanks you need.

xerxes.com

We provide the best technologies, products and services for every project. Our goal is to exceed expectations with unparalleled expertise, delivery, performance and value. We do this every step of the way — from project planning through the life of each fuel project.

Contact us at fuelsales@mattr.com to discuss your next project.

40+ years of industry experience

225,000+ tanks Installed

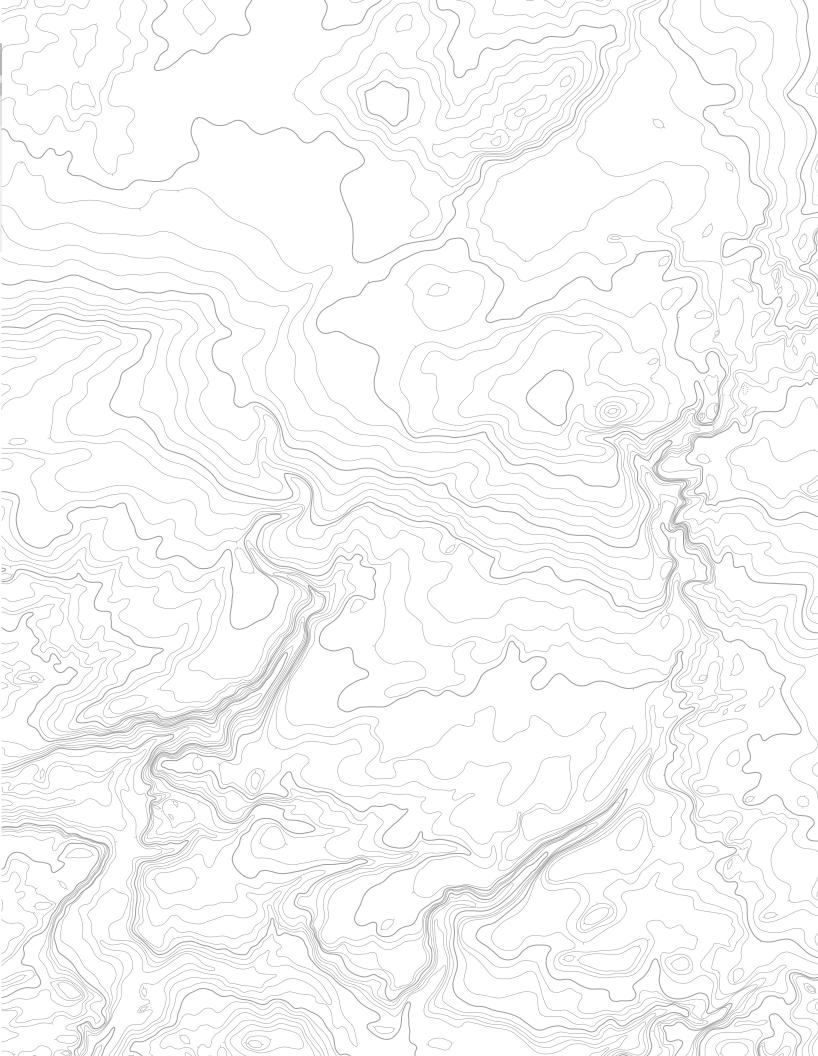
6 manufacturing facilities in North America

Contractor training Expert engineering and sales consulting

Fuel compatibility validation

Regulatory compliance assistance

Application design drawings



Xerxes – A Mattr brand

Xerxes is a key brand of Mattr, a global growth-oriented company that delivers advanced materials technology and complex manufacturing expertise through a diverse portfolio of brands. The company's market-leading brands provide engineered products and solutions that support critical infrastructure for markets such as water, transportation, communication, energy and electrification.

The name Mattr reflects our expertise in high-value materials technology. The company's core competencies revolve around converting physical materials into solutions that serve the greater good of our world. The name is also an affirmation that what we do matters – to our employees, our families, our customers, our communities, our world.

xerxes.com | fuelsales@mattr.com









Double-Wall and Triple-Wall Tanks

Underground tanks are backed by proven longevity

Fuel marketers, equipment distributors and commercial accounts rely on proven technology when planning their underground installations. It makes sense that they look to Xerxes, the manufacturer that developed the first UL-listed doublewall fiberglass tank.

All our tanks were in early compliance with the updated certification requirements of the new bi-national standard ANSI/CAN/UL/ ULC 1316:1218.

Tank geometry and materials create structural strength

- Xerxes fuel tanks are designed and manufactured to provide decades of secure storage for any application.
- Cylindrical tank with dished or domed end caps is designed to withstand the stresses of underground storage.
- Integrally manufactured fiberglass ribs function like I-beams and enhance tank strength.
- Premium resin and glass-fiber reinforcement create a structurally strong tank.

Double-wall and triple-wall tanks

- No added corrosion protection needed to store ethanol-blended fuel (E10, E15, E85), biodiesel fuels and ultra-low sulfur diesel (ULSD).
- Incorporates our proprietary 3D glass fiber (Parabeam[®]) to bond tank walls
- · One-compartment or multicompartment models.
- Tertiary containment available for added protection in sensitive environments, such as nearby aquifers, lakes or streams.



Multicompartment tanks

• Store more than one grade or type of fuel in the same tank.

- Provide space-saving installation with a single tank.
- · Can provide savings in installation and insurance costs.
- · Are available in two- and three-compartment models.

Corrosion-resistant inside and out

Lightweight tanks for easy shipping and installation

Compatible with traditional fuels and new biofuels

30-year limited warranty Designed to withstand H-25 / HS-25 axle loads

Double-Wall and Triple-Wall Tanks

Product and project reliability

- Stringent quality control of manufacturing ensures that every tank is a long-term investment.
- · Comprehensive installation training is available.
- 40+ years of composite manufacturing and 225,000+ installed tanks assure customers that we stand behind our products and warranties.

Easy shipping and installation

- Lightweight tank and engineered deadmen can generally fit on the same truck flatbed.
- No special, heavy equipment needed for installation.
- · Ideal for tight site footprints and remote locations.
- Tanks can be moved from original installation and recertified for new installation.

ONE-COMPARTMENT TANKS SINGLE-WALL & DOUBLE-WALL

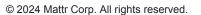
NOMINAL	DESIGNED FOR U.S.	DESIGNED FOR CANADIAN
DIAMETER	INSTALLATIONS (GALLONS)	INSTALLATIONS (LITERS)
4'	600 - 2,000	2,500 - 5,000
6'	2,000 - 8,000	10,000 - 25,000
8'	2,000 - 17,000	15,000 - 65,000
10'	7,000 - 40,000	50,000 - 110,000
12'	20,000 - 50,000	-

MULTICOMPARTMENT TANKS DOUBLE-WALL

NOMINAL DIAMETER	DESIGNED FOR U.S. INSTALLATIONS (GALLONS)	DESIGNED FOR CANADIAN INSTALLATIONS (LITERS)
6'	4,000 - 12,000	15,000 - 25,000
8'	6,000 - 25,000	35,000 - 65,000
10'	12,000 - 40,000	70,000 - 110,000

For over 40 years, Xerxes has designed and manufactured fiberglass underground storage tanks for fuel, water and wastewater. Xerxes' most recent expansion is its HydroChain[™] product line. These highly engineered products with site-specific designs provide a complete stormwater management solution. Xerxes is a key brand of Mattr, a global materials technology company serving critical infrastructure markets.

FDWT0923 | fuelsales@mattr.com | xerxes.com





Typical fuel tank accessories

- Engineered anchoring system
- Truchek[®] hydrostatic monitoring system
- · Containment collars, sumps and covers
- Manways, extensions and covers
- Fittings and nozzles
- Fill tubes





Calibration Chart 15,000 Gallon - 10' Diameter Double-Wall Tank

	www.xei	rxes.com											
DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK	
READING 0-1/8"	GALLONS 3	READING 8-1/2"	GALLONS 429	READING 16-7/8"	GALLONS 1206	READING 25-1/4"	GALLONS 2211	READING 33-5/8"	GALLONS 3381	READING 42"	GALLONS 4668	READING 50-3/8"	GALLONS 6031
0-1/4"	5	8-5/8"	439	17"	1220	25-3/8"	2228	33-3/4"	3399	42-1/8"	4688	50-1/2"	6052
0-3/8"	8	8-3/4"	448	17-1/8"	1233	25-1/2"	2244	33-7/8"	3418	42-1/4"	4708	50-5/8"	6073
0-1/2"	10	8-7/8"	458	17-1/4"	1247	25-5/8"	2260	34"	3436	42-3/8"	4728	50-3/4"	6094
0-5/8" 0-3/4"	<u>13</u> 15	9" 9-1/8"	<u>468</u> 477	17-3/8" 17-1/2"	<u>1261</u> 1274	25-3/4" 25-7/8"	2277 2293	<u>34-1/8"</u> 34-1/4"	<u>3455</u> 3473	42-1/2" 42-5/8"	4748 4767	<u>50-7/8"</u> 51"	<u>6114</u> 6135
0-3/4	18	9-1/8	487	17-1/2	1274	25-778	2293	34-1/4	3492	42-3/8	4787	51-1/8"	6156
1"	22	9-3/8"	497	17-3/4"	1302	26-1/8"	2327	34-1/2"	3511	42-7/8"	4807	51-1/4"	6177
1-1/8"	25	9-1/2"	507	17-7/8"	1316	26-1/4"	2343	34-5/8"	3529	43"	4827	51-3/8"	6198
1-1/4"	29	9-5/8"	517	18"	1330	26-3/8"	2360	34-3/4"	3548	43-1/8"	4847	51-1/2"	6218
<u>1-3/8"</u> 1-1/2"	<u>32</u> 36	9-3/4" 9-7/8"	<u>527</u> 538	<u>18-1/8"</u> 18-1/4"	<u>1344</u> 1358	26-1/2" 26-5/8"	2377 2393	34-7/8" 35"	<u>3567</u> 3585	43-1/4" 43-3/8"	4868 4888	51-5/8" 51-3/4"	6239 6260
1-5/8"	40	10"	548	18-3/8"	1372	26-3/4"	2410	35-1/8"	3604	43-1/2"	4908	51-7/8"	6281
1-3/4"	44	10-1/8"	558	18-1/2"	1386	26-7/8"	2427	35-1/4"	3623	43-5/8"	4928	52"	6302
1-7/8"	49	10-1/4"	569	18-5/8"	1400	27"	2444	35-3/8"	3642	43-3/4"	4948	52-1/8"	6323
2"	53	10-3/8"	579	18-3/4"	1414	27-1/8"	2461	35-1/2"	3660	43-7/8"	4968	52-1/4"	6343
<u>2-1/8"</u> 2-1/4"	<u>58</u> 62	10-1/2" 10-5/8"	<u>590</u> 600	<u>18-7/8"</u> 19"	<u>1428</u> 1443	27-1/4" 27-3/8"	<u>2477</u> 2494	35-5/8" 35-3/4"	<u>3679</u> 3698	44" 44-1/8"	4988 5008	52-3/8" 52-1/2"	<u>6364</u> 6385
2-1/4	62 67	10-3/4"	611	19-1/8"	1443	27-3/0	2494	35-3/4 35-7/8"	3717	44-1/6	5008	52-1/2 52-5/8"	6406
2-1/2"	72	10-7/8"	622	19-1/4"	1471	27-5/8"	2528	36"	3736	44-3/8"	5048	52-3/4"	6427
2-5/8"	77	11"	632	19-3/8"	1486	27-3/4"	2545	36-1/8"	3755	44-1/2"	5069	52-7/8"	6448
2-3/4"	83	11-1/8"	643	19-1/2"	1500	27-7/8"	2562	36-1/4"	3774	44-5/8"	5089	53"	6469
<u>2-7/8"</u> 3"	88	11-1/4"	<u>654</u>	19-5/8"	1515	28"	2580	36-3/8"	3793	44-3/4"	<u>5109</u>	53-1/8"	<u>6489</u>
3"	<u>93</u> 99	<u>11-3/8"</u> 11-1/2"	<u>665</u> 676	<u>19-3/4"</u> 19-7/8"	<u>1529</u> 1544	28-1/8" 28-1/4"	<u>2597</u> 2614	36-1/2" 36-5/8"	<u>3812</u> 3831	44-7/8" 45"	<u>5129</u> 5150	53-1/4" 53-3/8"	<u>6510</u> 6531
3-1/4"	105	11-5/8"	687	20"	1559	28-3/8"	2631	36-3/4"	3850	45-1/8"	5170	53-1/2"	6552
3-3/8"	110	11-3/4"	699	20-1/8"	1573	28-1/2"	2648	36-7/8"	3869	45-1/4"	5190	53-5/8"	6573
3-1/2"	116	11-7/8"	710	20-1/4"	1588	28-5/8"	2666	37"	3888	45-3/8"	5210	53-3/4"	6594
3-5/8"	122	12"	721	20-3/8"	1603	28-3/4"	2683	37-1/8"	3907	45-1/2"	5231	53-7/8"	6615
3-3/4"	129	12-1/8"	732	20-1/2"	1618	28-7/8"	2700	37-1/4"	3926	45-5/8" 45-3/4"	5251	54"	6636
<u>3-7/8"</u> 4"	<u>135</u> 141	<u>12-1/4"</u> 12-3/8"	744 755	20-5/8" 20-3/4"	<u>1632</u> 1647	29" 29-1/8"	2718 2735	37-3/8" 37-1/2"	<u>3945</u> 3964	45-3/4 45-7/8"	<u>5271</u> 5292	54-1/8" 54-1/4"	6657 6678
4-1/8"	148	12-1/2"	767	20-7/8"	1662	29-1/4"	2752	37-5/8"	3984	46"	5312	54-3/8"	6699
4-1/4"	154	12-5/8"	778	21"	1677	29-3/8"	2770	37-3/4"	4003	46-1/8"	5332	54-1/2"	6720
4-3/8"	161	12-3/4"	790	21-1/8"	1692	29-1/2"	2787	37-7/8"	4022	46-1/4"	5353	54-5/8"	6741
4-1/2"	167	12-7/8"	802	21-1/4"	1707	29-5/8"	2805	38"	4041	46-3/8"	5373	54-3/4"	6762
<u>4-5/8"</u> <u>4-3/4"</u>	<u>174</u> 181	<u>13"</u> 13-1/8"	<u>814</u> 825	21-3/8" 21-1/2"	1722 1738	29-3/4" 29-7/8"	2822 2840	<u>38-1/8"</u> 38-1/4"	4061 4080	46-1/2"	<u>5393</u> 5414	54-7/8" 55"	6782 6803
4-3/4	188	13-1/6	837	21-1/2	1753	30"	2858	38-3/8"	4080	46-5/8" 46-3/4"	5434	55-1/8"	6824
5"	195	13-3/8"	849	21-3/4"	1768	30-1/8"	2875	38-1/2"	4118	46-7/8"	5455	55-1/4"	6845
5-1/8"	203	13-1/2"	861	21-7/8"	1783	30-1/4"	2893	38-5/8"	4138	47"	5475	55-3/8"	6866
5-1/4"	210	13-5/8"	873	22"	1799	30-3/8"	2911	38-3/4"	4157	47-1/8"	5496	55-1/2"	6887
5-3/8"	217	13-3/4"	886	22-1/8"	1814	30-1/2"	2928	38-7/8"	4177	47-1/4"	5516	55-5/8"	6908
5-1/2" 5-5/8"	225 232	<u>13-7/8"</u> 14"	<u>898</u> 910	22-1/4" 22-3/8"	<u>1829</u> 1845	30-5/8" 30-3/4"	<u>2946</u> 2964	39" 39-1/8"	4196 4215	47-3/8" 47-1/2"	<u>5537</u> 5557	55-3/4" 55-7/8"	<u>6929</u> 6950
5-3/4"	232	14-1/8"	922	22-3/8	1860	30-3/4	2904	39-1/8	4215	47-1/2	5578	56"	6971
5-7/8"	248	14-1/4"	935	22-5/8"	1876	31"	3000	39-3/8"	4254	47-3/4"	5598	56-1/8"	6992
6"	256	14-3/8"	947	22-3/4"	1892	31-1/8"	3017	39-1/2"	4274	47-7/8"	5619	56-1/4"	7013
6-1/8"	263	14-1/2"	959	22-7/8"	1907	31-1/4"	3035	39-5/8"	4293	48"	5639	56-3/8"	7034
6-1/4" 6-3/8"	271 280	14-5/8" 14-3/4"	972 985	23" 23-1/8"	1923 1938	31-3/8" 31-1/2"	<u>3053</u> 3071	39-3/4" 39-7/8"	<u>4313</u> 4333	48-1/8" 48-1/4"	<u>5660</u> 5680	56-1/2" 56-5/8"	7055 7076
6-1/2"	288	14-3/4	985	23-1/8	1956	31-5/8"	3089	40"	4352	48-3/8"	5701	56-3/4"	7070
6-5/8"	296	15"	1010	23-3/8"	1970	31-3/4"	3107	40-1/8"	4372	48-1/2"	5722	56-7/8"	7118
6-3/4"	304	15-1/8"	1023	23-1/2"	1986	31-7/8"	3125	40-1/4"	4391	48-5/8"	5742	57"	7139
6-7/8"	313	15-1/4"	1035	23-5/8"	2002	32"	3143	40-3/8"	4411	48-3/4"	5763	57-1/8"	7160
7" 7-1/8"	<u>321</u> 330	15-3/8" 15-1/2"	<u>1048</u> 1061	23-3/4" 23-7/8"	2018 2033	32-1/8" 32-1/4"	<u>3161</u> 3180	40-1/2" 40-5/8"	<u>4431</u> 4450	<u>48-7/8"</u> 49"	<u>5783</u> 5804	57-1/4" 57-3/8"	7181 7202
7-1/8"	330	15-1/2" 15-5/8"	1061	23-7/8" 24"	2033	32-1/4" 32-3/8"	3180	40-5/8" 40-3/4"	4450	49" 49-1/8"	<u>5804</u> 5825	57-3/8" 57-1/2"	7202
7-1/4	347	15-3/4"	1074	24-1/8"	2045	32-3/0	3216	40-7/8"	4490	49-1/4"	5845	57-5/8"	7245
7-1/2"	356	15-7/8"	1100	24-1/4"	2081	32-5/8"	3234	41"	4509	49-3/8"	5866	57-3/4"	7266
7-5/8"	365	16"	1113	24-3/8"	2098	32-3/4"	3252	41-1/8"	4529	49-1/2"	5887	57-7/8"	7287
7-3/4"	374	16-1/8"	1126	24-1/2"	2114	32-7/8"	3271	41-1/4"	4549	49-5/8"	5907	58"	7308
7-7/8" 8"	383	16-1/4"	1140	24-5/8"	2130	33"	3289	41-3/8"	4569 4589	49-3/4"	<u>5928</u>	58-1/8" 58-1/4"	7329 7350
8-1/8"	<u>392</u> 401	16-3/8" 16-1/2"	<u>1153</u> 1166	24-3/4" 24-7/8"	2146 2162	33-1/8" 33-1/4"	<u>3307</u> 3326	41-1/2" 41-5/8"	4589	49-7/8" 50"	<u>5949</u> 5969	58-1/4" 58-3/8"	7350
8-1/4"	411	16-5/8"	1179	24-770	2102	33-3/8"	3344	41-3/4"	4628	50-1/8"	5990	58-1/2"	7392
8-3/8"	420	16-3/4"	1193	25-1/8"	2195	33-1/2"	3362	41-7/8"	4648	50-1/4"	6011	58-5/8"	7413

XERXES (ORPOR	ATION 1	5,000 Ga	llon - 10	' Diamete	r Doubl	e-Wall T	ank

B8-347 T446 67.147 10330 85° 11676 93.347 12214 102.66 139.747 111.111 147. SF 7476 67.567 8222 70.367 111.111 147. 147						-	5,000 Ga							
68.4.97 76.4.6 67.5.87 802.1 77.2.9 93.3.47 128.8 102.1.2 123.8 111.1.4 111.1.4 111.1.4 111.1.4 111.1.4 111.1.4 111.1.4 111.1.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 111.2 1111.2 111.2 111.2 <th< th=""><th></th><th></th><th>DIPSTICK</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>			DIPSTICK											
98-76* 7455 67-85* 9922 76.39* 1997 997-76* 19230 102-36* 1937 111-37* 147.7* 59-7 747.6 67-34* 8844 76-54* 10300 65-14* 1715 94-14* 12303 102-37* 13986 111-37* 147.7* 147.8* 14														GALLONS
59° 7476 67-76° 9948 767.76° 9948 765.76° 9948 765.76° 9948 765.76° 9947 111-12° 147.76° 147.87° 147.85° 147.87°														14711
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19-387 7538 65-187 10420 85-587 11770 94-387 12770 103-142 14032 11-178 1477 69-162 7565 68-347 9006 77-178 10420 85-787 11820 94-447 1021 103-141 14031 112-187 117 112-187 117 112-18 112-18 112-12 14031 112-187 112-17 14031 112-187 112-17 14031 112-187 112-18 112-18 112-18 112-17 14031 112-187 112-17<	59-1/8"	7497	67-7/8"	8964	76-5/8"	10390	85-3/8"	11733	94-1/8"	12946	102-7/8"	13973	111-5/8"	14737
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60.7% 7192 69.5% 9244 78.3% 10667 97.147 10300 957.187 13184 104-587 14153 113.247 1468 113.247 1486 113.247 1486 113.247 1486 113.247 1486 113.247 1486 113.247 1486 113.247 1486 113.247 1487 113.347 1448 611.487 7565 70' 9315 78.347 10706 87.347 10204 96.147 13246 105.147 14187 113.347 1487 611.427 7587 70.148 9357 77 71.47 10804 867.247 13246 105.147 14225 114.474 1488 613.347 79398 79.147 10802 867.347 13207 105.547 14225 114.474 1488 613.347 79398 79.548 79.348 13307 105.547 14226 114.474 1488 62.472 80.502 77.478 79.349 133	60-5/8"	7749	69-3/8"	9212	78-1/8"	10628	86-7/8"	11952	95-5/8"	13137	104-3/8"	14126	113-1/8"	14833
61* 7613 69-34* 9245 78-56* 107:06 87-39* 102:00 96-7* 13184 104-34* 14175 113-5* 1488 611:48* 7855 70* 9316 78-34* 10728 87-12* 12024 96-14* 13201 105*** 14187 113-3*** 148 611:38* 726* 70*** 9336 78-7*** 10765 87-38* 10205 96-58* 13224 105**** 14199 113-7**** 148 61:56* 796* 70**** 9377 79** 10765 87-78* 10202 105-14** 14223 114-14** 148 61:56* 796* 70-58* 9418 79-34* 1408 88-14* 1213 96-74** 13020 105-54** 14220 114-2** 149 62-16* 2002 70-76** 9469 79-4** 10303 106**** 14220 114-2*** 149 14270 114-2**** 149 14220 114-2**** <td>60-3/4"</td> <td>7771</td> <td>69-1/2"</td> <td>9233</td> <td>78-1/4"</td> <td>10647</td> <td>87"</td> <td>11970</td> <td>95-3/4"</td> <td>13153</td> <td>104-1/2"</td> <td>14138</td> <td>113-1/4"</td> <td>14840</td>	60-3/4"	7771	69-1/2"	9233	78-1/4"	10647	87"	11970	95-3/4"	13153	104-1/2"	14138	113-1/4"	14840
61* 7613 69-34* 9245 78-56* 107:06 87-39* 102:00 96-7* 13184 104-34* 14175 113-5* 1488 611:48* 7855 70* 9316 78-34* 10728 87-12* 12024 96-14* 13201 105*** 14187 113-3*** 148 611:38* 726* 70*** 9336 78-7*** 10765 87-38* 10205 96-58* 13224 105**** 14199 113-7**** 148 61:56* 796* 70**** 9377 79** 10765 87-78* 10202 105-14** 14223 114-14** 148 61:56* 796* 70-58* 9418 79-34* 1408 88-14* 1213 96-74** 13020 105-54** 14220 114-2** 149 62-16* 2002 70-76** 9469 79-4** 10303 106**** 14220 114-2*** 149 14270 114-2**** 149 14220 114-2**** <td>60-7/8"</td> <td>7792</td> <td>69-5/8</td> <td>9254</td> <td>78-3/8"</td> <td>10667</td> <td>87-1/8"</td> <td>11988</td> <td>95-7/8"</td> <td>13169</td> <td>104-5/8"</td> <td>14150</td> <td>113-3/8"</td> <td>14847</td>	60-7/8"	7792	69-5/8	9254	78-3/8"	10667	87-1/8"	11988	95-7/8"	13169	104-5/8"	14150	113-3/8"	14847
61:1.4% 78:34 69:7/8* 92:36 78:56* 71:2* 132:05 105* 1417* 132:15 105* 1417* 132:15 105* 14187 113:55* 14187 113:55* 14187 113:55* 14187 113:55* 113:55* 105* 14187 113:55* 14187 113:55* 14187 113:55* 14187 113:55* 14187 113:55* 14187 113:55* 14187 113:55* 113:55* 14187 113:55* 14187 113:55* 14187 113:55* 14187 114:55* 114:5* 14235 114:1*1* 1488 61:34* 79:397 70:55* 94:8 70:34* 92:77* 132:07 105:58* 142:25 114:3*8 114:3*8 142:25 114:3*8 1	61"		69-3/4"	9274	78-1/2"	10687		12006	96"	13184	104-3/4"	14163	113-1/2"	14855
61-14/8 7855 70" 9345 78-344" 10720 87-162" 12042 99-144" 13211 105-16" 144187 113-34" 14488 61-13/8" 7576 70-16" 93367 75-16" 10766 87-364" 12028 995-16" 13282 105-14" 14221 114-14" 148 61-13/8" 77818 70.76 87.76" 12028 95-34" 13222 105-14" 14223 114-14" 148 61-176" 77960 70-56" 9418 79-34" 9489 98-16" 12131 96-74" 13323 105-74" 14227 114-36" 149 62-16" 9400 70-76" 9496 79-86" 18628 88-17" 12202 97-36" 13333 106-16" 14220 114-36" 149 62-16" 9406 71-14" 9507 79-76" 19011 88-76" 12220 97-36" 13383 106-14" 14200 114-14" 148 62-1														14862
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$ \begin{array}{c} 16156^* & 7918 & 70.36^* & 9377 & 79-16^* & 10784 & 87.78^* & 12085 & 96-58^* & 13262 & 105-36^* & 14223 & 114-16^* & 148 \\ 161.76^* & 7980 & 70-56^* & 9418 & 79-36^* & 10823 & 88-16^* & 1213 & 96-37^* & 13207 & 105-56^* & 14247 & 114-36^* & 148 \\ 161.76^* & 7980 & 70-56^* & 9418 & 79-36^* & 10823 & 88-16^* & 1213 & 96-37^* & 13302 & 105-56^* & 14247 & 114-36^* & 149 \\ 162^* & 8002 & 70-76^* & 9459 & 79-56^* & 10862 & 88-38^* & 12167 & 97-18^* & 13323 & 105-78^* & 14220 & 114-56^* & 149 \\ 162-14^* & 8002 & 70-76^* & 9459 & 79-56^* & 10862 & 88-38^* & 12167 & 97-18^* & 13323 & 105-78^* & 14220 & 114-56^* & 149 \\ 162-14^* & 8002 & 71^* & 9469 & 79-36^* & 10082 & 88-12^* & 12164 & 97-14^* & 13323 & 106^-18^* & 14228 & 114-34^* & 143 \\ 162-14^* & 8002 & 71^* & 9480 & 79-78^* & 10901 & 88-58^* & 12210 & 97-12^* & 13383 & 106-18^* & 14238 & 114-78^* & 148 \\ 162-14^* & 8005 & 71-36^* & 9541 & 80^{-1} & 10921 & 88-34^* & 12219 & 97-12^* & 13383 & 106-18^* & 14238 & 115-18^* & 143 \\ 162-55^* & 8006 & 71-36^* & 9541 & 80^{-1} & 10921 & 88-78^* & 12229 & 97-34^* & 13383 & 106-18^* & 14238 & 115-18^* & 143 \\ 162-378^* & 1312 & 10-55^* & 9542 & 80-34^* & 10959 & 89^* & 12256 & 97-34^* & 13383 & 106-34^* & 14350 & 115-18^* & 1438 \\ 163^* & 1419 & 71-78^* & 9623 & 90-56^* & 10107 & 89-38^* & 12207 & 98-14^* & 13464 & 106-34^* & 14350 & 115-12^* & 1448 \\ 163-14^* & 8191 & 72^* & 9644 & 80-34^* & 10078 & 89-16^* & 12307 & 98-14^* & 13464 & 106^* 74^* & 14364 & 115-78^* & 1449 \\ 163-14^* & 8233 & 72-14^* & 9668 & 81^* & 11075 & 89-54^* & 13207 & 98-14^* & 13464 & 107-148^* & 14384 & 115-78^* & 1449 \\ 163-14^* & 8233 & 72-14^* & 9668 & 81^* & 11075 & 89-54^* & 13202 & 107-148^* & 14386 & 116^* & 1498 \\ 163-34^* & 8236 & 72-12^* & 9746 & 81-38^* & 11133 & 90-178^* & 12324 & 98-34^* & 13517 & 107-148^* & 14384 & 116^* & 1498 \\ 163-34^* & 8236 & 72-37^* & 9746 & 81-14^* & 11078^* & 82-377 & 82-58^* & 13502 & 107-14^* & 14384 & 116^* & 1498 \\ 163-34^* & 8336 & 72-37^* & 9746 & 81-14^* & 11078^* & 12359 & 93-34^* & 13575 & 108$														14882
														14909
														14915
		8023				10882						14282		14921
		8044	71-1/8"	9500	79-7/8"	10901	88-5/8"	12202	97-3/8"	13353	106-1/8"	14293	114-7/8"	14927
	62-1/2"	8065	71-1/4"	9521	80"	10921	88-3/4"	12219	97-1/2"	13368	106-1/4"	14305	115"	14933
	62-5/8"	8086	71-3/8"	9541	80-1/8"	10940	88-7/8"	12237	97-5/8"	13383	106-3/8"	14316	115-1/8"	14939
				9562		10959		12255						14945
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$ \begin{array}{c} 63-1/4^* \\ 8191 \\ 72^* \\ 963-38^* \\ 8212 \\ 72-1/8^* \\ 9664 \\ 80-78^* \\ 11066 \\ 80-78^* \\ 11066 \\ 80-78^* \\ 1232 \\ 99-34^* \\ 1232 \\ 99-34^* \\ 1232 \\ 99-34^* \\ 1232 \\ 99-34^* \\ 1232 \\ 1232 \\ 99-34^* \\ 1232 \\ 99-34^* \\ 1232 \\ 1347 \\ 107-1/8^* \\ 1449 \\ 115-78^* \\ 1449 \\ 115-78^* \\ 1449 \\ 115-78^* \\ 1439 \\ 1107 \\ 89-34^* \\ 1232 \\ 99-34^* \\ 1232 \\ 99-34^* \\ 1350 \\ 107-38^* \\ 1440 \\ 116-1/8^* \\ 1449 \\ 116-1/8^* \\ 1449 \\ 165-78^* \\ 1237 \\ 99-34^* \\ 1350 \\ 107-38^* \\ 1440 \\ 107-38^* \\ 1440 \\ 116-1/8^* \\ 1442 \\ 116-1/8^* \\ 149 \\ 165-78^* \\ 1227 \\ 99-34^* \\ 1350 \\ 107-38^* \\ 1440 \\ 107-38^* \\ 1442 \\ 116-1/8^* \\ 1442 \\ 116-1/8^* \\ 149 \\ 165-78^* \\ 1442 \\ 1111 \\ 199 \\ 90^* \\ 1239 \\ 99-38^* \\ 1356 \\ 107-78^* \\ 14449 \\ 116-1/8^* \\ 1442 \\ 116-38^* \\ 1440 \\ 116-34^* \\ 1500 \\ 64-1/2^* \\ 8338 \\ 73-1/8^* \\ 9807 \\ 81-34^* \\ 11121 \\ 90-38^* \\ 1122 \\ 90-34^* \\ 1244 \\ 99-318^* \\ 1356 \\ 107-78^* \\ 14440 \\ 116-34^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 116-34^* \\ 1440 \\ 116-34^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 116-1/4^* \\ 1440 \\ 116-1/4^* \\ 1440 \\ 116-34^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 116-1/4^* \\ 1440 \\ 116-1/4^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 64-1/2^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8421 \\ 73-3/4^* \\ 9968 \\ 82-1/8^* \\ 1128 \\ 91-1/8^* \\ 1254 \\ 99-7/8^* \\ 1361 \\ 108-3/4^* \\ 1440 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8484 \\ 73-3/4^* \\ 1998 \\ 82-1/8^* \\ 1128 \\ 91-1/8^* \\ 1254 \\ 99-7/8^* \\ 1361 \\ 108-3/4^* \\ 1442 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8484 \\ 73-3/4^* \\ 1998 \\ 82-1/8^* \\ 1128 \\ 91-1/8^* \\ 1254 \\ 99-7/8^* \\ 1361 \\ 108-3/4^* \\ 1452 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8484 \\ 73-3/4^* \\ 1452 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8484 \\ 73-3/4^* \\ 1452 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8680 \\ 74^* \\ 1452 \\ 117-1/4^* \\ 1500 \\ 100-1/4^* \\ 1365 \\ 100-3/8^* \\ 1370 \\ 100-1/8^* \\ 1452 \\ 117-1/4^* \\ 1500 \\ 65-1/8^* \\ 8680 \\ 75^* \\ 1132 \\ 99-7/8^* \\ 11330 \\ 91-1/8^* \\ 1258 \\ 100-1/8^* \\ 1367 \\ 100-3/8^* \\$														
$\begin{array}{c} 63.3/8" & 8212 & 72.1/8" & 9664 & 80.7/8" & 11056 & 89.5/8" & 12342 & 98.3/8" & 13472 & 107.1/8" & 14384 & 115.7/8" & 1499 \\ \hline 63.3/8" & 8254 & 72.3/8" & 9705 & 81.1/8" & 11094 & 89.7/8" & 12377 & 98.5/8" & 13502 & 107.3/8" & 14406 & 116.1/8" & 1499 \\ \hline 63.3/4" & 8254 & 72.3/8" & 9705 & 81.1/8" & 11094 & 89.7/8" & 12377 & 98.5/8" & 13502 & 107.3/8" & 14406 & 116.1/8" & 1499 \\ \hline 63.3/4" & 8276 & 72.5/8" & 9746 & 81.3/8" & 11113 & 90.1/8" & 12411 & 98.3/4" & 13517 & 107.3/2" & 14417 & 116.1/8" & 1499 \\ \hline 63.3/4" & 8296 & 72.5/8" & 9746 & 81.3/8" & 11113 & 90.1/8" & 12411 & 98.3/4" & 13517 & 107.3/2" & 14417 & 116.1/8" & 1499 \\ \hline 64.4" & 8317 & 72.3/4" & 9766 & 81.1/2" & 11152 & 90.1/4" & 12429 & 99" & 13546 & 107.3/4" & 14438 & 116.1/2" & 1499 \\ \hline 64.1/4" & 8338 & 72.7/8" & 9786 & 81.5/8" & 11171 & 90.3/8" & 12446 & 99.1/8" & 13560 & 107.7/8" & 14449 & 116.5/8" & 1500 \\ \hline 64.1/4" & 8359 & 73" & 9807 & 81.3/4" & 111209 & 90.5/8" & 12446 & 99.1/8" & 13560 & 107.7/8" & 14449 & 116.5/8" & 1500 \\ \hline 64.3/8" & 8360 & 73.1/8" & 9827 & 81.7/8" & 11228 & 90.3/4" & 12480 & 99.3/8" & 13689 & 108.1/4" & 14470 & 116.7/8" & 1500 \\ \hline 64.3/8" & 8420 & 73.1/8" & 9868 & 82.1/8" & 11228 & 90.3/4" & 12541 & 99.5/6" & 13618 & 108.3/8" & 14440 & 116.7/8" & 1500 \\ \hline 64.3/8" & 8421 & 73.3/8" & 9868 & 82.3/8" & 11228 & 91.1/8" & 12531 & 99.7/8" & 13646 & 108.5/8" & 14512 & 117.3/8" & 1500 \\ \hline 65.7/8" & 8453 & 73.5/8" & 9908 & 82.3/8" & 11228 & 91.1/8" & 12548 & 99.7/8" & 13646 & 108.5/8" & 14512 & 117.3/8" & 1500 \\ \hline 65.7/8" & 8659 & 74.7/8" & 9999 & 82.7/8" & 11361 & 91.1/4" & 12565 & 100" & 13661 & 108.3/8" & 14512 & 117.3/8" & 1500 \\ \hline 65.7/8" & 8569 & 74.1/8" & 9999 & 82.7/8" & 11363 & 91.3/4" & 12581 & 190.7/8" & 13661 & 108.3/8" & 14512 & 117.5/8" & 1500 \\ \hline 65.7/8" & 8650 & 74.7/8" & 9999 & 82.7/8" & 11361 & 91.3/4" & 12581 & 100.1/8" & 13632 & 117.5/8" & 1500 \\ \hline 65.7/8" & 8658 & 74.1/4" & 10009 & 83" & 11330 & 91.3/4" & 12581 & 100.1/8" & 13632 & 109.7/8" & 14552 & 117.7/8" & 1500 \\ \hline 65.7/8" & 8659 & 74.7/8" & 9949 & 82.7$														
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														14991
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	64-1/8"	8338		9786	81-5/8"	11171	90-3/8"	12446	99-1/8"	13560		14449	116-5/8"	15000
	64-1/4"	8359		9807	81-3/4"	11190	90-1/2"	12463	99-1/4"	13575	108"	14460	116-3/4"	15004
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	64-3/8"	8380	73-1/8"	9827	81-7/8"	11209	90-5/8"	12480	99-3/8"	13589	108-1/8"	14470	116-7/8"	15008
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	64-1/2"	8400	73-1/4"	9847	82"	11228	90-3/4"	12497	99-1/2"	13603	108-1/4"	14481	117"	15012
														15016
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65-7/8" 8630 74-5/8" 10070 83-3/8" 11436 92-1/8" 12683 100-7/8" 13759 109-5/8" 14592 118-3/8" 1504 66" 8651 74-3/4" 10090 83-1/2" 11455 92-1/4" 12700 101" 13772 109-3/4" 14601 166-1/8" 66-1/8" 8672 74-7/8" 10110 83-5/8" 11474 92-3/8" 12717 101-1/8" 13786 109-7/8" 14611 166-1/4" 66-1/4" 8693 75" 10130 83-3/4" 11492 92-1/2" 12733 101-1/4" 13800 110" 14620 166-3/8" 8714 75-1/8" 10150 83-7/8" 11511 92-5/8" 12750 101-3/8" 13813 110-1/8" 14630 166-1/2" 8735 75-1/4" 10170 84" 11530 92-3/4" 12767 101-1/2" 13827 110-1/4" 14639 166-3/8" 8756 75-3/8" 10190 84-1/8" 11548 92-7/8" 12783 101-5/8" 13841 110-3/8" 14649 166-3/4" 8776 75-														15038
66"865174-3/4"1009083-1/2"1145592-1/4"12700101"13772109-3/4"1460166-1/8"867274-7/8"1011083-5/8"1147492-3/8"12717101-1/8"13786109-7/8"1461166-1/4"869375"1013083-3/4"1149292-1/2"12733101-1/4"13800110"1462066-3/8"871475-1/8"1015083-7/8"1151192-5/8"12750101-3/8"13813110-1/8"1463066-1/2"873575-1/4"1017084"1153092-3/4"12767101-1/2"13827110-1/4"1463966-5/8"875675-3/8"1019084-1/8"1154892-7/8"12783101-5/8"13841110-3/8"1464966-3/4"877675-1/2"1021084-1/4"1156793"12800101-3/4"13854110-1/2"1465866-7/8"879775-5/8"1023184-3/8"1158693-1/8"12816101-7/8"13881110-5/8"1466767"881875-3/4"1025184-1/2"1160493-1/4"12832102"13881110-3/4"1467667-1/8"883975-7/8"1027184-5/8"1162393-3/8"12849102-1/8"13894110-7/8"1468567-1/4"886076"1029184-3/4"1164193-1/2"12865102-1/4"13908111"146														15040
66-1/8"867274-7/8"1011083-5/8"1147492-3/8"12717101-1/8"13786109-7/8"1461166-1/4"869375"1013083-3/4"1149292-1/2"12733101-1/4"13800110"1462066-3/8"871475-1/8"1015083-7/8"1151192-5/8"12750101-3/8"13813110-1/8"1463066-1/2"873575-1/4"1017084"1153092-3/4"12767101-1/2"13827110-1/4"1463966-5/8"875675-3/8"1019084-1/8"1154892-7/8"12783101-5/8"13841110-3/8"1464966-3/4"877675-1/2"1021084-1/4"1156793"12800101-3/4"13854110-1/2"1465866-7/8"879775-5/8"1023184-3/8"1158693-1/8"12816101-7/8"13868110-5/8"1466767"881875-3/4"1025184-1/2"1160493-1/4"12832102"13881110-3/4"1467667-1/8"883975-7/8"1027184-5/8"1162393-3/8"12849102-1/8"13894110-7/8"1468567-1/4"886076"1029184-3/4"1164193-1/2"12865102-1/4"13908111"14694													118-3/8"	15041
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66-1/4"869375"1013083-3/4"1149292-1/2"12733101-1/4"13800110"1462066-3/8"871475-1/8"1015083-7/8"1151192-5/8"12750101-3/8"13813110-1/8"1463066-1/2"873575-1/4"1017084"1153092-3/4"12767101-1/2"13827110-1/4"1463966-5/8"875675-3/8"1019084-1/8"1154892-7/8"12783101-5/8"13841110-3/8"1464966-3/4"877675-1/2"1021084-1/4"1156793"12800101-3/4"13854110-1/2"1465866-7/8"879775-5/8"1023184-3/8"1158693-1/8"12816101-7/8"13881110-3/4"1466767"881875-3/4"1025184-1/2"1160493-1/4"12832102"13881110-3/4"1467667-1/8"883975-7/8"1027184-5/8"1162393-3/8"12849102-1/8"13894110-7/8"1468567-1/4"886076"1029184-3/4"1164193-1/2"12865102-1/4"13908111"14694			74-7/8"		83-5/8"	11474	92-3/8"	12717	101-1/8"		109-7/8"	14611		
66-3/8"871475-1/8"1015083-7/8"1151192-5/8"12750101-3/8"13813110-1/8"1463066-1/2"873575-1/4"1017084"1153092-3/4"12767101-1/2"13827110-1/4"1463966-5/8"875675-3/8"1019084-1/8"1154892-7/8"12783101-5/8"13841110-3/8"1464966-3/4"877675-1/2"1021084-1/4"1156793"12800101-3/4"13854110-1/2"1465866-7/8"879775-5/8"1023184-3/8"1158693-1/8"12816101-7/8"13868110-5/8"1466767"881875-3/4"1025184-1/2"1160493-1/4"12832102"13881110-3/4"1467667-1/8"883975-7/8"1027184-5/8"1162393-3/8"12849102-1/8"13894110-7/8"1468567-1/4"886076"1029184-3/4"1164193-1/2"12865102-1/4"13908111"14694														
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67-3/8" 8881 76-1/8" 10310 84-7/8" 11660 93-5/8" 12882 102-3/8" 13921 111-1/8" 14703 10DW15kusg.Ja	67-3/8"	8881	76-1/8"	10310	84-7/8"	11660	93-5/8"	12882	102-3/8"	13921	111-1/8"	14703	10DW15k	usg.Jan16



Calibration Chart

6,000 Gallon - 10' Diameter Double-Wall END Tank For Use with Multicompartment Tanks

									Joinpu			5	
DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK	
READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS
0-1/8"	2	8-1/2"	210	16-7/8"	562	25-1/4"	997	33-5/8"	1488	42"	2018	50-3/8"	2572
0-1/4"	3	8-5/8"	214	17"	568	25-3/8"	1004	33-3/4"	1496	42-1/8"	2026	50-1/2"	2580
0-3/8"	4	8-3/4"	219	17-1/8"	574	25-1/2"	1011	33-7/8"	1504	42-1/4"	2034	50-5/8"	2588
0-1/2"	5	8-7/8"	223	17-1/4"	580	25-5/8"	1018	34"	1511	42-3/8"	2042	50-3/4"	2597
0-5/8"	7	9"	228	17-3/8"	586	25-3/4"	1025	34-1/8"	1519	42-1/2"	2050	50-7/8"	2605
0-3/4"	8	9-1/8"	233	17-1/2"	592	25-7/8"	1032	34-1/4"	1527	42-5/8"	2058	51"	2614
0-7/8"	10	9-1/4"	237	17-5/8"	598	26"	1039	34-3/8"	1534	42-3/4"	2067	51-1/8"	2622
1"	12	9-3/8"	242	17-3/4"	604	26-1/8"	1046	34-1/2"	1542	42-7/8"	2075	51-1/4"	2630
1-1/8"	13	9-1/2"	246	17-7/8"	610	26-1/4"	1053	34-5/8"	1550	43"	2083	51-3/8"	2639
1-1/4"	15	9-5/8"	251	18"	616	26-3/8"	1060	34-3/4"	1557	43-1/8"	2091	51-1/2"	2647
1-3/8"	17	9-3/4"	256	18-1/8"	622	26-1/2"	1067	34-7/8"	1565	43-1/4"	2099	51-5/8"	2656
1-1/2"	19	9-7/8"	260	18-1/4"	629	26-5/8"	1074	35"	1573	43-3/8"	2107	51-3/4"	2664
1-5/8"	21	10"	265	18-3/8"	635	26-3/4"	1081	35-1/8"	1581	43-1/2"	2116	51-7/8"	2672
1-3/4"	23	10-1/8"	270	18-1/2"	641	26-7/8"	1089	35-1/4"	1588	43-5/8"	2124	52"	2681
1-7/8"	26	10-1/4"	275	18-5/8"	647	27"	1096	35-3/8"	1596	43-3/4"	2132	52-1/8"	2689
2"	28	10-3/8"	280	18-3/4"	653	27-1/8"	1103	35-1/2"	1604	43-7/8"	2140	52-1/4"	2698
2-1/8"	30	10-1/2"	284	18-7/8"	660	27-1/4"	1110	35-5/8"	1612	44"	2148	52-3/8"	2706
2-1/4"	33	10-5/8"	289	19"	666	27-3/8"	1117	35-3/4"	1620	44-1/8"	2157	52-1/2"	2715
2-3/8"	35	10-3/4"	294	19-1/8"	672	27-1/2"	1124	35-7/8"	1627	44-1/4"	2165	52-5/8"	2723
2-1/2"	38	10-7/8"	299	19-1/4"	678	27-5/8"	1131	36"	1635	44-3/8"	2173	52-3/4"	2731
2-5/8"	40	11"	304	19-3/8"	685	27-3/4"	1139	36-1/8"	1643	44-1/2"	2181	52-7/8"	2740
2-3/4"	43	11-1/8"	309	19-1/2"	691	27-7/8"	1146	36-1/4"	1651	44-5/8"	2189	53"	2748
<u>2-7/8"</u> 3"	45	11-1/4"	314	19-5/8"	697 704	28"	1153	36-3/8"	1659	44-3/4"	2198	53-1/8"	2757
3-1/8"	48 51	<u>11-3/8"</u> 11-1/2"	319 324	19-3/4" 19-7/8"	704	28-1/8" 28-1/4"	1160 1168	36-1/2" 36-5/8"	1666 1674	44-7/8" 45"	2206 2214	53-1/4" 53-3/8"	2765 2774
3-1/6	51	11-1/2	324	20"	710	28-3/8"	1175	36-3/8	1674	45 45-1/8"	2214	53-3/8 53-1/2"	2774
3-1/4	54 57	11-3/4"	329	20 20-1/8"	716	28-3/8	1175	36-3/4	1690	45-1/6 45-1/4"	2222	53-1/2	2782
3-3/8	60	11-7/8"	339	20-1/8	729	28-5/8"	1189	30-778	1698	45-3/8"	2231	53-3/4"	2790
3-5/8"	63	12"	345	20-1/4	736	28-3/4"	1197	37-1/8"	1706	45-1/2"	2239	53-7/8"	2807
3-3/4"	66	12-1/8"	350	20-3/8	742	28-7/8"	1204	37-1/4"	1700	45-5/8"	2255	54"	2816
3-7/8"	69	12-1/4"	355	20-5/8"	748	20-770	1211	37-3/8"	1722	45-3/4"	2264	54-1/8"	2824
4"	72	12-3/8"	360	20-3/4"	755	29-1/8"	1218	37-1/2"	1729	45-7/8"	2272	54-1/4"	2833
4-1/8"	75	12-1/2"	365	20-7/8"	761	29-1/4"	1226	37-5/8"	1737	46"	2280	54-3/8"	2841
4-1/4"	78	12-5/8"	371	21"	768	29-3/8"	1233	37-3/4"	1745	46-1/8"	2288	54-1/2"	2850
4-3/8"	82	12-3/4"	376	21-1/8"	774	29-1/2"	1240	37-7/8"	1753	46-1/4"	2297	54-5/8"	2858
4-1/2"	85	12-7/8"	381	21-1/4"	781	29-5/8"	1248	38"	1761	46-3/8"	2305	54-3/4"	2866
4-5/8"	88	13"	387	21-3/8"	787	29-3/4"	1255	38-1/8"	1769	46-1/2"	2313	54-7/8"	2875
4-3/4"	92	13-1/8"	392	21-1/2"	794	29-7/8"	1263	38-1/4"	1777	46-5/8"	2321	55"	2883
4-7/8"	95	13-1/4"	397	21-5/8"	801	30"	1270	38-3/8"	1785	46-3/4"	2330	55-1/8"	2892
5"	99	13-3/8"	403	21-3/4"	807	30-1/8"	1277	38-1/2"	1793	46-7/8"	2338	55-1/4"	2900
5-1/8"	102	13-1/2"	408	21-7/8"	814	30-1/4"	1285	38-5/8"	1801	47"	2346	55-3/8"	2909
5-1/4"	106	13-5/8"	414	22"	820	30-3/8"	1292	38-3/4"	1809	47-1/8"	2355	55-1/2"	2917
5-3/8"	109	13-3/4"	419	22-1/8"	827	30-1/2"	1300	38-7/8"	1817	47-1/4"	2363	55-5/8"	2926
5-1/2"	113	13-7/8"	425	22-1/4"	834	30-5/8"	1307	39"	1825	47-3/8"	2371	55-3/4"	2934
5-5/8"	116	14"	430	22-3/8"	840	30-3/4"	1314	39-1/8"	1833	47-1/2"	2380	55-7/8"	2943
5-3/4"	120	14-1/8"	436	22-1/2"	847	30-7/8"	1322	39-1/4"	1841	47-5/8"	2388	56"	2951
5-7/8"	124	14-1/4"	441	22-5/8"	854	31"	1329	39-3/8"	1849	47-3/4"	2396	56-1/8"	2960
6"	128	14-3/8"	447	22-3/4"	860	31-1/8"	1337	39-1/2"	1857	47-7/8"	2405	56-1/4"	2968
6-1/8"	131	14-1/2"	452	22-7/8"	867	31-1/4"	1344	39-5/8"	1865	48"	2413	56-3/8"	2976
6-1/4"	135	14-5/8"	458	23"	874	31-3/8"	1352	39-3/4"	1873	48-1/8"	2421	56-1/2"	2985
6-3/8"	139	14-3/4"	463	23-1/8"	880	31-1/2"	1359	39-7/8"	1881	48-1/4"	2430	56-5/8"	2993
6-1/2"	143	14-7/8"	469	23-1/4"	887	31-5/8"	1367	40"	1889	48-3/8"	2438	56-3/4"	3002
6-5/8"	147	15"	475	23-3/8"	894	31-3/4"	1374	40-1/8"	1897	48-1/2"	2446	56-7/8"	3010
6-3/4" 6-7/8"	151 155	<u>15-1/8"</u> 15-1/4"	480 486	23-1/2" 23-5/8"	901 908	31-7/8" 32"	1382 1389	40-1/4" 40-3/8"	<u>1905</u> 1913	48-5/8" 48-3/4"	2455 2463	57" 57-1/8"	3019 3027
<u>6-7/8</u> 7"	155	15-1/4	486	23-5/8	908 914	32 32-1/8"	1389	40-3/8 40-1/2"	1913	48-3/4 48-7/8"	2463	57-1/8 57-1/4"	3027
7-1/8"	163	15-3/8	492	23-3/4	914	32-1/6 32-1/4"	1405	40-1/2	1921	40-770 49"	2471	57-1/4 57-3/8"	3036
7-1/6	163	15-1/2	503	23-778	921	32-1/4	1405	40-3/4"	1929	49 49-1/8"	2480	57-3/8 57-1/2"	3053
7-1/4	171	15-3/4"	503	24-1/8"	928	32-3/8	1412	40-3/4	1937	49-1/8	2400	57-5/8"	3061
7-3/8	176	15-7/8"	515	24-1/4"	933	32-5/8"	1420	40-778	1943	49-3/8"	2505	57-3/4"	3070
7-5/8"	180	16"	521	24-3/8"	949	32-3/4"	1435	41-1/8"	1955	49-1/2"	2503	57-7/8"	3078
7-3/4"	184	16-1/8"	527	24-1/2"	955	32-7/8"	1442	41-1/4"	1969	49-5/8"	2521	58"	3087
7-7/8"	188	16-1/4"	532	24-5/8"	962	33"	1450	41-3/8"	1977	49-3/4"	2530	58-1/8"	3095
8"	193	16-3/8"	538	24-3/4"	969	33-1/8"	1458	41-1/2"	1985	49-7/8"	2538	58-1/4"	3104
8-1/8"	197	16-1/2"	544	24-7/8"	976	33-1/4"	1465	41-5/8"	1993	50"	2547	58-3/8"	3112
8-1/4"	201	16-5/8"	550	25"	983	33-3/8"	1473	41-3/4"	2002	50-1/8"	2555	58-1/2"	3121
8-3/8"	206	16-3/4"	556	25-1/8"	990	33-1/2"	1481	41-7/8"	2010	50-1/4"	2563	58-5/8"	3129

XERXES CORPORATION 6,000 Gallon - 10' Diameter Double-Wall END Tank

netword OLLONG Retword OLLONG OLLONG Retword OLLONG						;								
93.47 91.47 67.48 91.47 91.48 95.47 91.48 97.48 91.48 97.48 91.48 97.48 91.44 97.48 91.44 97.48 91.44 91.44 91.44 91.44 91.44 91.43 91.47 91.44 91.47 91.44 91.47 91.44 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.48 91.47 91.44 91.48 91.47 91.44 91.48 91.44 91.47 91.44 91.48 91.44 <th< th=""><th>DIPSTICK</th><th></th><th>DIPSTICK</th><th></th><th>DIPSTICK</th><th></th><th>DIPSTICK</th><th></th><th>DIPSTICK</th><th></th><th>DIPSTICK</th><th></th><th>DIPSTICK</th><th></th></th<>	DIPSTICK		DIPSTICK											
587-76 3146 67-347 3747 76.387 4316 88-1/87 4686 98-7/87 5376 102-87 5271 111-387 6718 591-19 3163 67-347 3764 76-524 4322 65-349 4883 94-119 5300 102-778 5324 111-597 6120 591-17 110-587 3773 777 4436 65-341 4000 41-12 5410 103-147 5117 103-347 5514 112-147 6190 58-377 3200 68-387 3776 77.147 4384 86-18 4020 44-347 6431 103-147 6469 112-127 6630 63-376 3244 68-587 3304 77.567 4413 86-384 4000 96-717 5481 103-147 5991 112-127 6200 60-147 3564 77.577 4413 86-378 4970 9541 103-347 6721 103-377 6606 113-127 6614 <th></th>														
Sep 3156 67.36 37.46 76.47 63.24 63														
59.1-6* 3163 67.7.6* 3162 67.8** 63.2** 64.8** 64.1** 53.0** 110.2** 64.1** 613.0** 59.3*6* 3160 66.1*** 77.1** 76.7** 64.8** 64.0** 77.1*** 64.8** 77.1*** 64.8** 64.0*** 77.4*** 64.8** 64.0**** 56.0**** 100.3**** 64.8**** 77.8**** 64.8***** 77.8***********************************														
59-147 3171 86 772 7840 95-17 95.04 103.04 111-347 6184 59-167 3188 66-196 3771 777 4368 65.344 4000 94-162 5410 103.144 6544 112.144 6169 59-367 3176 66-386 3788 771.144 6464 5479 4413 9469 94.142 5444 103.142 686 112.144 6169 50-67 320 66-386 3781 77-759 4897 861.40 95.497 5438 103.44 857.47 674.83 103.44 857.47 674.83 103.44 857.47 674.83 103.44 127.76 671.74 421 86.34 4956 55.47 548.1 104.147 5580 112.747 626.47 113.48 127.74 641.4 103.44 127.74 641.41 103.44 112.74 631.1 112.74 631.1 112.74 631.1 112.74 631.1 112.74														
59-38 3180 85-18* 3180 85-68* 4888 95-38* 50-40* 103-18* 56-38* 117-78* 6188 59-56* 3197 68-38* 7788 77* 4836 85-78* 4910 64-58* 5411 103-38* 5638 112-18* 6188 59-78* 3214 68-58* 4838 567.4* 4912 64-34* 103-58* 6614* 77.4* 4878 867.4* 4922 64-37* 5531 103-58* 680.4* 5337 6538 103-58* 6617 77.4* 4938 65-17* 6438 101-7* 6838 112-18* 6203 60.78* 3286 77.7* 4446 867.8* 4968 55-17* 5648 104-17* 5888 112-17* 6214 60.38* 3284 77.7* 4443 867.8* 4988 5547 104-12* 5588 112-17* 6214 60.37* 3280 78.17* 44438 86.3* 496.4* <td>59-1/8"</td> <td>3163</td> <td>67-7/8"</td> <td>3754</td> <td>76-5/8"</td> <td>4332</td> <td>85-3/8"</td> <td>4883</td> <td>94-1/8"</td> <td>5390</td> <td>102-7/8"</td> <td>5832</td> <td>111-5/8"</td> <td>6176</td>	59-1/8"	3163	67-7/8"	3754	76-5/8"	4332	85-3/8"	4883	94-1/8"	5390	102-7/8"	5832	111-5/8"	6176
91-02 3180 80-147 3709 777 4380 85-347 4000 94-127 5410 103-147 5510 112-147 6192 63-347 33205 66-547 33205 66-547 33205 711-147 4137 887 4220 84-347 6541 113-347 6619 5619 60-07 3322 66-567 3320 771-27 4380 86-144 4020 973 4531 113-347 6877 112-127 6200 60-147 3326 65-777 4413 85-87 4980 95-387 5461 104-147 5884 112-76 62147 60-147 3326 69-347 3328 77-777 4413 85-87 4980 95-387 5461 104-127 5566 114-147 5587 5471 104-387 5597 104-127 5567 114-147 5576 5411 104-347 5576 114-147 5576 114-147 5576 104-127 5664	59-1/4"	3171	68"	3762	76-3/4"	4340	85-1/2"	4890	94-1/4"	5397	103"	5838	111-3/4"	6180
58-56 3197 65-387 3191 65-387 4171 103-387 555 112-118" 6192 58-374 3206 68-142 373 86-163 422 49-44 4524 103-127 6861 112-14" 6193 56-767 3216 68-347 3810 77-387 4388 66-178 5438 103-347 8077 112-687 6706 50-167 3236 66-778 3820 77-587 4429 485-18 5444 103-787 6977 12-687 6706 50-177 3286 69-367 3846 7787 4429 4874 4978 49	59-3/8"	3180	68-1/8"	3771	76-7/8"	4348	85-5/8"	4898	94-3/8"	5404	103-1/8"	5844	111-7/8"	6184
58-56 3197 65-387 3191 65-387 4171 103-387 555 112-118" 6192 58-374 3206 68-142 373 86-163 422 49-44 4524 103-127 6861 112-14" 6193 56-767 3216 68-347 3810 77-387 4388 66-178 5438 103-347 8077 112-687 6706 50-167 3236 66-778 3820 77-587 4429 485-18 5444 103-787 6977 12-687 6706 50-177 3286 69-367 3846 7787 4429 4874 4978 49	59-1/2"	3188		3779	77"	4356		4906		5410	103-1/4"	5849	112"	
59-34" 3206 69-12' 3766 77-14' 4371 86' 4924 142-14' 103-12' 886 112-14'' 61165 59-78" 321 66-56' 3321 77-56' 4381 68-14'' 4308 69-76' 5331 103-34'' 6577 121-12'' 103-36'' 6577 121-12'' 103-36'' 6578'' 112-13'' 6578'' 112-13'' 6578'' 113''' 6578'' 104''' 6588 112-34'' 6211''' 6361''' 104''' 6588'' 113'''' 6211''' 6364''' 104''' 6588'' 113'''' 6371''' 105'''' 105'''' 101''''' 103'''' 103''''' 103''''' 103''''''''''''''''''''''''''''''''''''														
59.76 321.4 69.64 30.44 77.478 438 69.748 433 60.787 5433 103.247 6877 112.347 61193 60.148 323.4 68.78 323.4 68.78 3444 103.747 5877 112.648 60.70 53.347 5877 112.648 60.70 53.347 5877 112.648 60.70 53.347 55.56 54.41 30.347 53.74 63.541 53.84 61.74 32.86 65.147 33.86 77.76 4413 66.76 489.8 65.78 54.84 11.41 68.88 11.41 68.84 11.41 55.85 54.71 10.41.37 68.84 11.41 55.85 54.71 10.41.37 69.84 11.41 11.51.67 62.21 55.34 55.84 54.84 10.77.85 62.11 10.51.14 53.97 10.51.14 53.97 10.51.14 53.97 10.51.14 53.97 10.51.14 53.97 10.51.14 53.97 10.51.14 53.97 10.51														
00* 3222 08-344* 3818 77-12* 4889 08-74* 4838 08-74* 5874 112-12* 62038 60-147 3238 657*6 3324 77-34* 4405 66-14* 5644 1047* 5877 127.34* 62108 60-147 3236 65-14* 3458 65-14* 5458 16-14* 5888 117.3** 6214 60-14* 3267 65-14* 3464 4869 65-12* 5464 104-14* 5888 11.3** 6224* 60-54* 3267 65-12* 5364 78** 6442 86*** 4878 65-44* 104-14* 5888 11.3** 6224* 60-54* 3365 75*** 4483 67*** 5011 64+78 5818 104+74* 5814 114*** 5234 114*** 5234 114**** 5234 114**** 5234 114***** 5234 114****** 5234 114***********************************														
60-147 3231 86-787 3821 77-68* 4403 86-78* 54-14* 5414 10-4* 5883 112-34* 6210 60-36* 3248 66-147 3338 77-78* 4421 86-56* 4543 5455 10-14* 5688 112-34* 6211 60-127 3256 69-14* 3338 77-18* 4421 86-78* 477 10-34* 173* 5690 113-14* 6221 60-34* 377 59-12* 3484 10-45** 5690 113-14* 6224 60-34* 377 3830 78-14* 4457 67* 4888 55-34* 5478 10-424* 5610 113-14* 6224 61-12 3268 69-34* 3380 78-16* 4453 67.44* 4888 55-38* 10-424* 5611 10-44* 10-54* 5624 113-5** 6241 61-34* 3348 77.16* 5638 10-57** 5634 114-14**														
60-14% 3229 66" 3829 77-34" 4405 86-12" 95-14" 5451 194" 5803 112-36" 6214 60-38 3246 69-14" 3346 77-14" 4413 86-34" 4966 95-32" 5546 101-14" 5938 113-16" 6221 60-36 3265 69-36" 3361 78-14" 4429 86-74" 4966 95-76" 5441 104-36" 5916 113-36" 6224 60-78 3262 69-76" 3880 78-12" 4445 87-14" 4996 96" 5431 104-56" 5916 113-36" 6224 61-14" 3307 70" 3896 78-74" 4447 87-76" 5441 105-18" 5932 113-34" 6234 61-14" 3307 70" 3895 78-74" 4407 87-26" 5011 65-14" 5491 105-18" 5932 113-34" 6234 61-14" 3307 70"""														
60-36 2946 66-147 3286 77.76" 4413 86-56" 495.87 54-88 101-17" 6889 113" 6217 60-68 3265 69-34" 3864 75-18" 4423 86-78" 4973 55-58" 5471 104-38" 6999 113-14" 6224 60-34" 3221 69-568 3871 75-38" 4445 87-18" 4888 55-38" 5444 104-34" 5010 113-12" 5231 61-14" 3200 69-34" 3281 75-58" 4461 87-38" 5003 66-12" 5418 105-14" 5621 113-32" 6238 6238 1511 105-14" 5632 113-34" 6238 5511 105-14" 5632 113-34" 6234 5511 105-14" 5631 114-14" 6234 5524 105-34" 5641 114-14" 6234 5524 105-34" 5641 114-14" 6234 5524 105-34" 5631 114-14"														
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00-378 02-378 02-172 3863 78-174 4443 77-74 4981 95-785 5478 104-1576 59718 5348 104-576 59718 5348 104-576 59718 5348 104-576 59718 5348 104-576 5921 113-342 6228 61-178 3228 69-578 5448 104-576 5921 113-342 6234 61-178 3228 69-578 5488 75-578 5011 95-187 5511 105-178 5922 113-374 6234 61-388 3321 70-147 3921 79-147 5028 96-578 5518 105-178 5932 114-344 6241 61-388 3321 70-147 3921 79-147 6314 86-578 5531 105-578 5933 114-344 6254 62-178 3348 70-574 5344 86-578 5571 105-578 5958 114-342 6256 62-178 3347 79-34	60-5/8"	3265	69-3/8"	3854	78-1/8"	4429	86-7/8"	4973	95-5/8"	5471	104-3/8"	5899	113-1/8"	6221
00-78* 322 06-54* 3371 78-36* 4458 97-78* 6484 104-34* 595* 6231 61-16* 3290 66-78* 3880 78-56* 4461 87-38* 5003 96-18* 5486 104-34* 5921 113-34* 6238 61-16* 3307 70* 3386 78-57* 4461 87-38* 5031 96-18* 5540 105** 5522 113-34* 6238 61-12* 3332 70-18* 3013 79* 4485 87-78* 5033 96-12* 5618 105-14* 5934 114* 6244 61-36* 3332 70-38* 392 79+14* 4501 88* 104-17* 87.44 105-14* 5933 114+14* 6244 61-34* 5334 70-54* 3338 79-14* 5034 95-34* 1534* 5953 114-14* 6257 62-14* 3335 70-17* 3964 79-14* 5550 106-														
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617.6* 3349 70.578* 3938 79.38* 4509 88.14* 5065 97* 5544 105.578* 5953 114-32* 6227 62.10* 3366 70.716* 3984 79.12* 4513 88.147 5065 97*.18* 5565 105.716* 5964 114-32* 6226 62.14* 3365 70.716* 3963 79.74* 4523 88.12* 5070 97*.14* 5563 106.14* 5974 114-3** 6226 62.12* 3383 71-14* 3971 79.76* 4544 88-58* 5077 97*.34* 5563 106.14* 5974 115-14* 6276 62.45* 3400 71-12* 3986 80-14* 4564 89* 5099 106.14* 5978 115-14* 6271 62.478* 3434 71.75* 3986 80-14* 4564 89* 5010 97.74* 5583 106.14* 6271 6273 63.14* 3443 71.75* 4004 80.74* 510 97.74* 5589 106.14** <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
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		3409		3996	80-1/4"	4564				5583		5989		6274
	62-7/8"	3417	71-5/8"	4004	80-3/8"	4572	89-1/8"	5107	97-7/8"	5589	106-5/8"	5994	115-3/8"	6277
	63"	3425	71-3/4"	4012	80-1/2"	4580	89-1/4"	5114	98"	5595	106-3/4"	6000	115-1/2"	6279
	63-1/8"	3434	71-7/8"	4021	80-5/8"	4588	89-3/8"	5121	98-1/8"	5602	106-7/8"	6005	115-5/8"	6282
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	64-1/8"	3502		4087	81-5/8"	4651	90-3/8"	5179	99-1/8"		107-7/8"	6044	116-5/8"	6301
$ \begin{array}{ccccccccccccccccccccccccccccccc$	64-1/4"	3510	73"	4095	81-3/4"	4659	90-1/2"	5186	99-1/4"	5659	108"	6049	116-3/4"	6303
$ \begin{array}{ccccccccccccccccccccccccccccccc$	64-3/8"	3518	73-1/8"	4103	81-7/8"	4667	90-5/8"	5194	99-3/8"	5665	108-1/8"	6054	116-7/8"	6305
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$65"$ 3561 $73\cdot3/4"$ 4144 $82\cdot1/2"$ 4706 $91\cdot1/4"$ 5229 $100"$ 5696 $108\cdot3/4"$ 6077 $117\cdot1/2"$ 6313 $65\cdot1/8"$ 3569 $73\cdot7/8"$ 4153 $82\cdot5/8"$ 4714 $91\cdot3/8"$ 5236 $100\cdot1/8"$ 5702 $108\cdot7/8"$ 6082 $117\cdot5/8"$ 6315 $65\cdot1/4"$ 3578 $74"$ 4161 $82\cdot3/4"$ 4721 $91\cdot1/2"$ 5244 $100\cdot1/4"$ 5708 $109"$ 6086 $117\cdot3/4"$ 6316 $65\cdot3/8"$ 3586 $74\cdot1/8"$ 4169 $82\cdot7/8"$ 4729 $91\cdot5/8"$ 5251 $100\cdot3/8"$ 5714 $109\cdot1/8"$ 6091 $117\cdot7/8"$ 6317 $65\cdot1/2"$ 3594 $74\cdot1/4"$ 4177 $83"$ 4773 $91\cdot3/4"$ 5258 $100\cdot1/2"$ 5720 $109\cdot1/4"$ 6095 $118"$ 6318 $65\cdot5/8"$ 3603 $74\cdot3/8"$ 4185 $83\cdot1/4"$ 4775 $92"$ 5272 $100\cdot3/4"$ 5732 $109\cdot1/2"$ 6104 $118\cdot1/8"$ 6319 $65\cdot5/8"$ 3620 $74\cdot5/8"$ 4202 $83\cdot3/8"$ 4760 $92\cdot1/8"$ 5279 $100\cdot7/8"$ 5738 $109\cdot3/4"$ 6113 6113 $66\cdot1/8"$ 3626 $74\cdot7/8"$ 4218 $83\cdot5/8"$ 4776 $92\cdot3/8"$ 5233 $101\cdot1/8"$ 5750 $109\cdot7/8"$ 6118 $66\cdot1/8"$ 3662 $75\cdot1/4"$ 4218 $83\cdot7/8"$ 4776 $92\cdot3/8"$ 5203 $101\cdot1/8"$ 6172														
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66-1/8"363674-7/8"421883-5/8"477692-3/8"5293101-1/8"5750109-7/8"611866-1/4"364575"422683-3/4"478392-1/2"5300101-1/4"5756110"612266-3/8"365375-1/8"423583-7/8"479192-5/8"5307101-3/8"5762110-1/8"612666-1/2"366275-1/4"424384"479992-3/4"5314101-1/2"5768110-1/4"613166-5/8"367075-3/8"425184-1/8"480692-7/8"5321101-5/8"5774110-3/8"613566-3/4"367975-1/2"425984-1/4"481493"5328101-3/4"5780110-1/2"613966-7/8"368775-5/8"426784-3/8"482293-1/8"5335101-7/8"5792110-3/4"614467"369575-3/4"427584-1/2"482993-1/4"5342102"5792110-3/4"614867-1/8"370475-7/8"428384-5/8"483793-3/8"5349102-1/8"5798110-7/8"615267-1/4"371276"429284-3/4"484593-1/2"5356102-1/4"5803111"6156					83-3/8"		92-1/8"				109-5/8"		118-3/8"	6321
66-1/8"363674-7/8"421883-5/8"477692-3/8"5293101-1/8"5750109-7/8"611866-1/4"364575"422683-3/4"478392-1/2"5300101-1/4"5756110"612266-3/8"365375-1/8"423583-7/8"479192-5/8"5307101-3/8"5762110-1/8"612666-1/2"366275-1/4"424384"479992-3/4"5314101-1/2"5768110-1/4"613166-5/8"367075-3/8"425184-1/8"480692-7/8"5321101-5/8"5774110-3/8"613566-3/4"367975-1/2"425984-1/4"481493"5328101-3/4"5780110-1/2"613966-7/8"368775-5/8"426784-3/8"482293-1/8"5335101-7/8"5792110-3/4"614467"369575-3/4"427584-1/2"482993-1/4"5342102"5792110-3/4"614867-1/8"370475-7/8"428384-5/8"483793-3/8"5349102-1/8"5798110-7/8"615267-1/4"371276"429284-3/4"484593-1/2"5356102-1/4"5803111"6156	66"	3628	74-3/4"	4210	83-1/2"	4768	92-1/4"	5286	101"	5744	109-3/4"	6113		
66-1/4"364575"422683-3/4"478392-1/2"5300101-1/4"5756110"6122612666-3/8"365375-1/8"423583-7/8"479192-5/8"5307101-3/8"5762110-1/8"6126612666-1/2"366275-1/4"424384"479992-3/4"5314101-1/2"5768110-1/4"6131613166-5/8"367075-3/8"425184-1/8"480692-7/8"5321101-5/8"5774110-3/8"6135613566-3/4"367975-1/2"425984-1/4"481493"5328101-3/4"5780110-1/2"6139614466-7/8"368775-5/8"426784-3/8"482293-1/8"5335101-7/8"5786110-5/8"6144614467"369575-3/4"427584-1/2"482993-1/4"5342102"5792110-3/4"6148614467-1/8"370475-7/8"428384-5/8"483793-3/8"5349102-1/8"5798110-7/8"6152614467-1/4"371276"429284-3/4"484593-1/2"5356102-1/4"5803111"61566152	66-1/8"	3636	74-7/8"	4218	83-5/8"	4776	92-3/8"	5293	101-1/8"		109-7/8"	6118		
66-3/8"365375-1/8"423583-7/8"479192-5/8"5307101-3/8"5762110-1/8"612666-1/2"366275-1/4"424384"479992-3/4"5314101-1/2"5768110-1/4"613166-5/8"367075-3/8"425184-1/8"480692-7/8"5321101-5/8"5774110-3/8"613566-3/4"367975-1/2"425984-1/4"481493"5328101-3/4"5780110-1/2"613966-7/8"368775-5/8"426784-3/8"482293-1/8"5335101-7/8"5786110-5/8"614467"369575-3/4"427584-1/2"482993-1/4"5342102"5792110-3/4"614867-1/8"370475-7/8"428384-5/8"483793-3/8"5349102-1/8"5798110-7/8"615267-1/4"371276"429284-3/4"484593-1/2"5356102-1/4"5803111"6156														
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66-5/8"367075-3/8"425184-1/8"480692-7/8"5321101-5/8"5774110-3/8"6135613566-3/4"367975-1/2"425984-1/4"481493"5328101-3/4"5780110-1/2"613966-3/466-7/8"368775-5/8"426784-3/8"482293-1/8"5335101-7/8"5786110-5/8"6144614867"369575-3/4"427584-1/2"482993-1/4"5342102"5792110-3/4"6148614867-1/8"370475-7/8"428384-5/8"483793-3/8"5349102-1/8"5798110-7/8"6152615267-1/4"371276"429284-3/4"484593-1/2"5356102-1/4"5803111"61566152														
66-3/4" 3679 75-1/2" 4259 84-1/4" 4814 93" 5328 101-3/4" 5780 110-1/2" 6139 6139 66-7/8" 3687 75-5/8" 4267 84-3/8" 4822 93-1/8" 5335 101-7/8" 5786 110-5/8" 6144														
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67-1/4" 3712 76" 4292 84-3/4" 4845 93-1/2" 5356 102-1/4" 5803 111" 6156														
67-3/8" 3721 76-1/8" 4300 84-7/8" 4852 93-5/8" 5363 102-3/8" 5809 111-1/8" 6160 10DW End6kusg.Jan16	67-1/4"	3712	76"	4292	84-3/4"	4845	93-1/2"	5356	102-1/4"	5803	111"	6156		
	67-3/8"	3721	76-1/8"	4300	84-7/8"	4852	93-5/8"	5363	102-3/8"	5809	111-1/8"	6160	10DW End6	Skusg.Jan16



Calibration Chart 9,000 Gallon - 10' Diameter Double-Wall Tank

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DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK	
READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS
0-1/8"	2	8-1/2"	223	16-7/8"	655	25-1/4"	1233	33-5/8"	1921	42"	2689	50-3/8"	3509
0-1/4"	2	8-5/8"	228	17"	663	25-3/8"	1243	33-3/4"	1932	42-1/8"	2701	50-1/2"	3522
0-3/8"	4	8-3/4"	234	17-1/8"	670	25-1/2"	1252	33-7/8"	1943	42-1/4"	2713	50-5/8"	3534
0-1/2" 0-5/8"	<u>5</u>	<u>8-7/8"</u> 9"	<u>239</u> 244	<u>17-1/4"</u> 17-3/8"	678 686	25-5/8" 25-3/4"	<u>1262</u> 1272	34" 34-1/8"	<u>1954</u> 1965	42-3/8" 42-1/2"	2725 2737	50-3/4" 50-7/8"	<u>3547</u> 3559
0-3/4"	7	9-1/8"	244	17-3/8	694	25-3/4	1272	34-1/8	1905	42-1/2	2748	51"	3572
0-7/8"	9	9-1/4"	255	17-5/8"	702	26"	1291	34-3/8"	1987	42-3/4"	2760	51-1/8"	3584
1"	10	9-3/8"	260	17-3/4"	709	26-1/8"	1301	34-1/2"	1998	42-7/8"	2772	51-1/4"	3597
1-1/8"	12	9-1/2"	266	17-7/8"	717	26-1/4"	1310	34-5/8"	2009	43"	2784	51-3/8"	3609
1-1/4"	14	9-5/8"	271	18"	725	26-3/8"	1320	34-3/4"	2020	43-1/8"	2796	51-1/2"	3622
1-3/8"	15	9-3/4"	277	18-1/8"	733	26-1/2"	1330	34-7/8"	2031	43-1/4"	2808	51-5/8"	3634
1-1/2"	17	9-7/8"	282	18-1/4"	741	26-5/8"	1340	35"	2042	43-3/8"	2821	51-3/4"	3647
1-5/8"	19	10"	288	18-3/8"	749	26-3/4"	1349	35-1/8"	2054	43-1/2"	2833	51-7/8"	3660
<u>1-3/4"</u> 1-7/8"	21 24	<u>10-1/8"</u> 10-1/4"	<u>293</u> 299	<u>18-1/2"</u> 18-5/8"	757 765	26-7/8" 27"	<u>1359</u> 1369	35-1/4" 35-3/8"	2065	43-5/8" 43-3/4"	2845	52" 52-1/8"	<u>3672</u> 3685
2"	24	10-1/4	305	18-3/4"	765	27-1/8"	1369	35-3/8	2076 2087	43-3/4	2857 2869	52-1/6 52-1/4"	3697
2-1/8"	28	10-3/8	311	18-7/8"	781	27-1/4"	1389	35-5/8"	2007	43-778	2881	52-3/8"	3710
2-1/4"	30	10-5/8"	316	10 1/0	790	27-3/8"	1399	35-3/4"	2109	44-1/8"	2893	52-1/2"	3723
2-3/8"	33	10-3/4"	322	19-1/8"	798	27-1/2"	1409	35-7/8"	2121	44-1/4"	2905	52-5/8"	3735
2-1/2"	35	10-7/8"	328	19-1/4"	806	27-5/8"	1419	36"	2132	44-3/8"	2917	52-3/4"	3748
2-5/8"	38	11"	334	19-3/8"	814	27-3/4"	1429	36-1/8"	2143	44-1/2"	2929	52-7/8"	3760
2-3/4"	41	11-1/8"	340	19-1/2"	822	27-7/8"	1439	36-1/4"	2154	44-5/8"	2941	53"	3773
2-7/8"	43	11-1/4"	346	19-5/8"	831	28"	1449	36-3/8"	2166	44-3/4"	2954	53-1/8"	3786
3"	46	11-3/8"	352	19-3/4"	839	28-1/8"	1459	36-1/2"	2177	44-7/8"	2966	53-1/4"	3798
3-1/8"	49	11-1/2"	358	19-7/8"	847	28-1/4"	1469	36-5/8"	2188	45"	2978	53-3/8"	3811
<u>3-1/4"</u> <u>3-3/8"</u>	<u>52</u> 55	<u>11-5/8"</u> 11-3/4"	<u>364</u> 371	20" 20-1/8"	<u>856</u> 864	28-3/8" 28-1/2"	<u>1479</u> 1489	<u>36-3/4"</u> 36-7/8"	2200 2211	45-1/8" 45-1/4"	2990 3002	53-1/2" 53-5/8"	<u>3823</u> 3836
3-3/8	58	11-3/4	377	20-1/8	873	28-5/8"	1409	30-778	2211	45-3/8"	3002	53-3/4"	3849
3-5/8"	61	12"	383	20-3/8"	881	28-3/4"	1509	37-1/8"	2234	45-1/2"	3027	53-7/8"	3861
3-3/4"	64	12-1/8"	389	20-1/2"	890	28-7/8"	1519	37-1/4"	2245	45-5/8"	3039	54"	3874
3-7/8"	67	12-1/4"	396	20-5/8"	898	29"	1530	37-3/8"	2257	45-3/4"	3051	54-1/8"	3887
4"	71	12-3/8"	402	20-3/4"	907	29-1/8"	1540	37-1/2"	2268	45-7/8"	3063	54-1/4"	3899
4-1/8"	74	12-1/2"	408	20-7/8"	915	29-1/4"	1550	37-5/8"	2280	46"	3076	54-3/8"	3912
4-1/4"	77	12-5/8"	415	21"	924	29-3/8"	1560	37-3/4"	2291	46-1/8"	3088	54-1/2"	3925
4-3/8"	81	12-3/4"	421	21-1/8"	933	29-1/2"	1571	37-7/8"	2302	46-1/4"	3100	54-5/8"	3937
4-1/2"	84	12-7/8"	428	21-1/4"	941	29-5/8"	1581	38"	2314	46-3/8"	3112	54-3/4"	3950
4-5/8" 4-3/4"	88	13" 13-1/8"	434	21-3/8"	950	29-3/4" 29-7/8"	1591	38-1/8"	2325	46-1/2"	3125	54-7/8" 55"	3963
4-3/4 4-7/8"	<u>91</u> 95	13-1/6	<u>441</u> 448	21-1/2" 21-5/8"	959 968	<u>29-7/8</u> 30"	<u>1602</u> 1612	<u>38-1/4"</u> 38-3/8"	2337 2349	46-5/8" 46-3/4"	<u>3137</u> 3149	55-1/8"	<u>3975</u> 3988
5"	99	13-3/8"	454	21-3/4"	976	30-1/8"	1622	38-1/2"	2360	46-7/8"	3162	55-1/4"	4001
5-1/8"	102	13-1/2"	461	21-7/8"	985	30-1/4"	1633	38-5/8"	2372	47"	3174	55-3/8"	4013
5-1/4"	106	13-5/8"	468	22"	994	30-3/8"	1643	38-3/4"	2383	47-1/8"	3186	55-1/2"	4026
5-3/8"	110	13-3/4"	474	22-1/8"	1003	30-1/2"	1654	38-7/8"	2395	47-1/4"	3198	55-5/8"	4039
5-1/2"	114	13-7/8"	481	22-1/4"	1012	30-5/8"	1664	39"	2406	47-3/8"	3211	55-3/4"	4051
5-5/8"	118	14"	488	22-3/8"	1021	30-3/4"	1675	39-1/8"	2418	47-1/2"	3223	55-7/8"	4064
5-3/4"	122	14-1/8"	495	22-1/2"	1030	30-7/8"	1685	39-1/4"	2430	47-5/8"	3235	56"	4077
<u>5-7/8"</u> 6"	126	14-1/4"	<u>502</u>	22-5/8"	1039	31"	1696	39-3/8"	2441	47-3/4"	3248	56-1/8"	4090
6-1/8"	<u>130</u> 135	14-3/8" 14-1/2"	<u>509</u> 516	22-3/4" 22-7/8"	<u>1048</u> 1057	<u>31-1/8"</u> 31-1/4"	<u>1706</u> 1717	<u>39-1/2"</u> 39-5/8"	2453 2465	47-7/8" 48"	3260 3273	56-1/4" 56-3/8"	<u>4102</u> 4115
6-1/4"	139	14-1/2	523	22-776	1066	31-3/8"	1727	39-3/8	2405	40 48-1/8"	3285	56-3/8 56-1/2"	4115
6-3/8"	143	14-3/4"	530	23-1/8"	1000	31-1/2"	1738	39-7/8"	2488	48-1/4"	3297	56-5/8"	4140
6-1/2"	147	14-7/8"	537	23-1/4"	1084	31-5/8"	1749	40"	2500	48-3/8"	3310	56-3/4"	4153
6-5/8"	152	15"	544	23-3/8"	1093	31-3/4"	1759	40-1/8"	2511	48-1/2"	3322	56-7/8"	4166
6-3/4"	156	15-1/8"	551	23-1/2"	1102	31-7/8"	1770	40-1/4"	2523	48-5/8"	3335	57"	4178
6-7/8"	161	15-1/4"	559	23-5/8"	1112	32"	1781	40-3/8"	2535	48-3/4"	3347	57-1/8"	4191
7"	165	15-3/8"	566	23-3/4"	1121	32-1/8"	1791	40-1/2"	2547	48-7/8"	3359	57-1/4"	4204
7-1/8"	170	15-1/2"	573	23-7/8"	1130	32-1/4"	1802	40-5/8"	2558	49"	3372	57-3/8"	4217
7-1/4" 7-3/8"	174	<u>15-5/8"</u> 15-3/4"	580	24"	<u>1139</u> 1149	32-3/8"	<u>1813</u> 1824	40-3/4" 40-7/8"	2570 2582	49-1/8" 49-1/4"	3384	57-1/2" 57-5/8"	<u>4229</u> 4242
7-3/8	<u>179</u> 184	15-3/4	588 595	24-1/8" 24-1/4"	1149	<u>32-1/2"</u> 32-5/8"	1824	40-7/8 41"	2582	49-1/4 49-3/8"	<u>3397</u> 3409	57-5/8 57-3/4"	4242
7-1/2	189	15-778	602	24-1/4	1167	32-3/8	1845	41-1/8"	2606	49-3/8	3409	57-3/4 57-7/8"	4255
7-3/4"	103	16-1/8"	610	24-1/2"	1177	32-7/8"	1856	41-1/4"	2617	49-5/8"	3434	58"	4280
7-7/8"	198	16-1/4"	617	24-5/8"	1186	33"	1867	41-3/8"	2629	49-3/4"	3447	58-1/8"	4293
8"	203	16-3/8"	625	24-3/4"	1195	33-1/8"	1878	41-1/2"	2641	49-7/8"	3459	58-1/4"	4306
8-1/8"	208	16-1/2"	632	24-7/8"	1205	33-1/4"	1888	41-5/8"	2653	50"	3472	58-3/8"	4318
8-1/4"	213	16-5/8"	640	25"	1214	33-3/8"	1899	41-3/4"	2665	50-1/8"	3484	58-1/2"	4331
8-3/8"	218	16-3/4"	647	25-1/8"	1224	33-1/2"	1910	41-7/8"	2677	50-1/4"	3497	58-5/8"	4344

X	XERXES CORPORATION 9,000 Gallon - 10' Diameter Double-Wall Tank											

XERXES CORPORATION 9,000 Gallon - 10 [•] Diameter Double-Wall Tank													
DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK		DIPSTICK	
READING 58-3/4"	GALLONS 4357	READING 67-1/2"	GALLONS 5244	READING 76-1/4"	GALLONS 6105	READING 85"	GALLONS 6911	READING 93-3/4"	GALLONS	READING 102-1/2"	GALLONS 8231	READING	GALLONS
58-7/8"		67-5/8"			6105	85-1/8"	6922		7631 7641	102-1/2		111-1/4"	8665 8670
59"	4369 4382	67-3/8 67-3/4"	5256 5269	76-3/8" 76-1/2"	6129	85-1/8 85-1/4"	<u>6922</u> 6933	93-7/8" 94"	7641	102-5/8	8238 8246	111-3/8" 111-1/2"	8675
59 59-1/8"	4395	67-3/4	5289	76-1/2	6141	85-3/8"	<u> </u>	94 94-1/8"	7660	102-3/4	8253	111-1/2	8680
59-1/8 59-1/4"	4395	68"	5294	76-3/4"	6153	85-1/2"	6955	94-1/8	7669	102-778	8260	111-3/4"	8684
59-1/4 59-3/8"	4407	68-1/8"	5307	76-3/4	6165	85-5/8"	6966	94-1/4	7679	103-1/8"	8268	111-3/4	8689
59-3/8	4420	68-1/4"	5319	70-778	6177	85-3/4"	6977	94-3/8	7688	103-1/4"	8275	112"	8693
59-1/2 59-5/8"	4435	68-3/8"	5332	77-1/8"	6189	85-7/8"	6988	94-1/2 94-5/8"	7697	103-1/4	8282	112-1/8"	8698
59-3/8 59-3/4"	4446	68-1/2"	5344	77-1/8	6201	86"	6999	94-3/8	7707	103-3/8	8290	112-1/6	8702
59-3/4 59-7/8"	4456	68-5/8"	5357	77-3/8"	6213	86-1/8"	7009	94-3/4	7716	103-1/2	8290	112-1/4	8702
<u> </u>	4471	68-3/4"	5369	77-1/2"	6213	86-1/4"	7009	94-778	7725	103-3/4"	8304	112-3/6	8711
60-1/8"	4404	68-7/8"	5382	77-5/8"	6236	86-3/8"	7020	95-1/8"	7734	103-3/4	8311	112-1/2	8715
60-1/8 60-1/4"	4509	69"	5394	77-3/4"	6248	86-1/2"	7031	95-1/8	7744	103-778	8318	112-3/8	8719
60-3/8"	4522	69-1/8"	5407	77-7/8"	6260	86-5/8"	7042	95-3/8"	7753	104-1/8"	8325	112-3/4	8723
60-1/2"	4535	69-1/4"	5419	78"	6272	86-3/4"	7052	95-1/2"	7762	104-1/4"	8332	112-776	8727
60-5/8"	4535	69-3/8"	5432	78-1/8"	6284	86-7/8"	7003	95-5/8"	7771	104-1/4	8339	113-1/8"	8731
60-3/4"	4560	69-3/8 69-1/2"	5444	78-1/8	6295	87"	7074	95-3/4"	7780	104-3/8	8346	113-1/4"	8735
60-3/4 60-7/8"	4500	69-1/2 69-5/8	5457	78-3/8"	6307	87-1/8"	7085	95-3/4	7789	104-1/2	8353	113-3/8"	8739
61"	4586	69-3/4"	5469	78-1/2"	6319	87-1/4"	71095	95-778	7798	104-3/4"	8360	113-1/2"	8743
61-1/8"	4598	69-7/8"	5481	78-5/8"	6331	87-3/8"	7100	96-1/8"	7807	104-3/4	8367	113-5/8"	8747
61-1/4"	4598	70"	5494	78-3/4"	6342	87-3/8	7127	96-1/8 96-1/4"	7816	104-778	8374	113-3/4"	8750
61-3/8"	4624	70-1/8"	5506	78-7/8"	6354	87-5/8"	7138	96-3/8"	7825	105-1/8"	8381	113-7/8"	8754
61-3/6	4624	70-1/8	5519	70-770	6366	87-3/8 87-3/4"	7130	96-3/8	7834	105-1/8	8388	113-7/0	8758
61-5/8"	4637	70-1/4	5531	79 79-1/8"	6378	87-3/4 87-7/8"	7140	96-1/2 96-5/8"	7843	105-1/4	8394	114-1/8"	8761
61-3/4"	4662	70-3/8	5544	79-1/8	6389	88"	7169	96-3/4"	7852	105-3/8	8401	114-1/4"	8765
61-7/8"	4675	70-1/2	5556	79-3/8"	6401	88-1/8"	7180	96-7/8"	7861	105-5/8"	8408	114-3/8"	8768
62"	4687	70-3/4"	5568	79-3/0	6413	88-1/4"	7190	97"	7870	105-3/4"	8414	114-1/2"	8772
62-1/8"	4700	70-3/4	5581	79-1/2	6424	88-3/8"	7201	97-1/8"	7879	105-7/8"	8421	114-1/2	8775
62-1/4"	4713	70-770 71"	5593	79-3/4"	6436	88-1/2"	7211	97-1/4"	7888	105-770	8427	114-3/4"	8778
62-3/8"	4725	71-1/8"	5606	79-7/8"	6448	88-5/8"	7222	97-3/8"	7896	106-1/8"	8434	114-7/8"	8782
62-1/2"	4738	71-1/4"	5618	80"	6459	88-3/4"	7232	97-1/2"	7905	106-1/4"	8440	114-778	8785
62-5/8"	4751	71-3/8"	5630	80-1/8"	6471	88-7/8"	7243	97-5/8"	7903	106-3/8"	8447	115-1/8"	8788
62-3/4"	4764	71-3/8	5643	80-1/8	6482	89"	7253	97-3/4"	7923	106-1/2"	8453	115-1/4"	8791
62-7/8"	4776	71-5/8"	5655	80-3/8"	6494	89-1/8"	7263	97-7/8"	7923	106-5/8"	8459	115-3/8"	8794
63"	4789	71-3/4"	5667	80-1/2"	6505	89-1/4"	7203	98"	7940	106-3/4"	8466	115-1/2"	8797
63-1/8"	4802	71-7/8"	5680	80-5/8"	6517	89-3/8"	7284	98-1/8"	7948	106-7/8"	8472	115-5/8"	8800
63-1/4"	4814	71-770	5692	80-3/4"	6529	89-1/2"	7294	98-1/4"	7940	100-770	8478	115-3/4"	8802
63-3/8"	4827	72-1/8"	5704	80-7/8"	6540	89-5/8"	7305	98-3/8"	7966	107-1/8"	8484	115-7/8"	8805
63-1/2"	4840	72-1/4"	5717	81"	6552	89-3/4"	7315	98-1/2"	7974	107-1/4"	8491	116"	8808
63-5/8"	4852	72-3/8"	5729	81-1/8"	6563	89-7/8"	7325	98-5/8"	7983	107-3/8"	8497	116-1/8"	8810
63-3/4"	4865	72-1/2"	5741	81-1/4"	6575	90"	7335	98-3/4"	7903	107-3/0	8503	116-1/4"	8813
63-7/8"	4878	72-5/8"	5753	81-3/8"	6586	90-1/8"	7346	98-7/8"	7999	107-5/8"	8509	116-3/8"	8815
64"	4890	72-3/4"	5766	81-1/2"	6597	90-1/4"	7356	99"	8008	107-3/4"	8515	116-1/2"	8818
64-1/8"	4903	72-7/8"	5778	81-5/8"	6609	90-3/8"	7366	99-1/8"	8016	107-7/8"	8521	116-5/8"	8820
64-1/4"	4916	73"	5790	81-3/4"	6620	90-1/2"	7376	99-1/4"	8025	107 770	8527	116-3/4"	8822
64-3/8"	4928	73-1/8"	5802	81-7/8"	6632	90-5/8"	7386	99-3/8"	8033	108-1/8"	8533	116-7/8"	8824
64-1/2"	4941	73-1/4"	5815	82"	6643	90-3/4"	7396	99-1/2"	8041	108-1/4"	8538	117"	8826
64-5/8"	4954	73-3/8"	5827	82-1/8"	6654	90-7/8"	7406	99-5/8"	8049	108-3/8"	8544	117-1/8"	8828
64-3/4"	4966	73-1/2"	5839	82-1/8	6666	91"	7400	99-3/4"	8058	108-1/2"	8550	117-1/4"	8830
64-7/8"	4979	73-5/8"	5851	82-3/8"	6677	91-1/8"	7426	99-7/8"	8066	108-5/8"	8556	117-3/8"	8832
65"	4992	73-3/4"	5863	82-3/8	6688	91-1/4"	7436	100"	8074	108-3/4"	8561	117-3/8	8833
65-1/8"	5004	73-7/8"	5876	82-5/8"	6700	91-3/8"	7446	100-1/8"	8082	108-7/8"	8567	117-5/8"	8835
65-1/4"	5017	74"	5888	82-3/8	6711	91-1/2"	7456	100-1/4"	8090	109"	8573	117-3/4"	8836
65-3/8"	5030	74-1/8"	5900	82-7/8"	6722	91-5/8"	7466	100-3/8"	8098	109-1/8"	8578	117-7/8"	8838
65-1/2"	5042	74-1/4"	5912	83"	6733	91-3/4"	7476	100-1/2"	8106	109-1/4"	8584	118"	8839
65-5/8"	5055	74-3/8"	5924	83-1/8"	6745	91-7/8"	7486	100-5/8"	8114	109-3/8"	8589	118-1/8"	8840
65-3/4"	5068	74-1/2"	5936	83-1/4"	6756	92"	7496	100-3/4"	8122	109-1/2"	8594	118-1/4"	8841
65-7/8"	5080	74-5/8"	5949	83-3/8"	6767	92-1/8"	7506	100-7/8"	8130	109-5/8"	8600	118-3/8"	8841
66"	5093	74-3/4"	5961	83-1/2"	6778	92-1/4"	7515	100 1/0	8138	109-3/4"	8605		
66-1/8"	5105	74-7/8"	5973	83-5/8"	6789	92-3/8"	7525	101-1/8"	8146	109-7/8"	8610		
66-1/4"	5118	75"	5985	83-3/4"	6801	92-1/2"	7535	101-1/4"	8154	110"	8616		
66-3/8"	5131	75-1/8"	5997	83-7/8"	6812	92-5/8"	7545	101-3/8"	8162	110-1/8"	8621		
66-1/2"	5143	75-1/4"	6009	84"	6823	92-3/4"	7554	101-1/2"	8169	110-1/4"	8626		
66-5/8"	5156	75-3/8"	6021	84-1/8"	6834	92-7/8"	7564	101-5/8"	8177	110-3/8"	8631		
66-3/4"	5168	75-1/2"	6033	84-1/4"	6845	93"	7574	101-3/4"	8185	110-1/2"	8636		
66-7/8"	5181	75-5/8"	6045	84-3/8"	6856	93-1/8"	7583	101-7/8"	8193	110-5/8"	8641		
67"	5194	75-3/4"	6057	84-1/2"	6867	93-1/4"	7593	102"	8200	110-3/4"	8646		
67-1/8"	5206	75-7/8"	6069	84-5/8"	6878	93-3/8"	7603	102-1/8"	8208	110-7/8"	8651		
67-1/4"	5219	76"	6081	84-3/4"	6889	93-1/2"	7612	102-1/4"	8216	111"	8656		
67-3/8"	5231	76-1/8"	6093	84-7/8"	6900	93-5/8"	7622	102-3/8"	8223	111-1/8"	8661	10DW9ki	isg.Jan16
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Fiberglass Underground Storage Tanks





ZCL XERXES

ZCL | XERXES RELIABLE, CORROSION-RESISTANT TANKS

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



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

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

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

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

Our history of **storage solutions** includes:

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



WHY CHOOSE A FIBERGLASS TANK?

Best Product Investment

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

FIBERGLASS OUTPERFORMS STEEL

CORROSION RESISTANCE

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

FUEL COMPATIBILITY

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





OUR FIBERGLASS TANKS PROVIDE UNMATCHED BENEFITS

The ZCL | Xerxes Advantage

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



RIB DESIGN FOR STRUCTURAL INTEGRITY

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

30-YEAR WARRANTY

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

PARABEAM®

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

MAINTENANCE-FREE

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

TRUCHEK® CONTINUOUS LEAK DETECTION

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

ZCL XERXES

ZCL | XERXES STORAGE TANK SOLUTIONS

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

DOUBLE-WALL TANKS

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

MULTICOMPARTMENT TANKS

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

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

FEATURES

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

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



TRIPLE-WALL TANKS

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

DIESEL EXHAUST FLUID TANKS

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

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

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

OIL-WATER SEPARATORS

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

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

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

FEATURES

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

FEATURES

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

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



ZCL | XERXES STORAGE TANK SOLUTIONS



TANK UPGRADE SYSTEM

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

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

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



ZCL | XERXES FUEL TANK ACCESSORIES

Your Complete Solution

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

Installation & Technical Support

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

LEARN MORE ONLINE

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

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

CONTAINMENT SUMPS AND COLLARS

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

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

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



ANCHORING SYSTEM

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

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

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

TRUCHEK® CONTINUOUS MONITORING

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

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

FEATURES

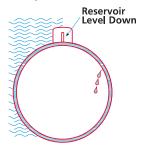
- Deadmen sizes for tank diameters 6-12 feet
- Corrosion-resistant anchor straps
- Optional man-out-of-hole straps available
- Galvanized turnbuckles

FEATURES

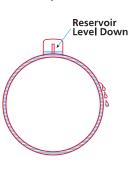
- 24/7 continuous tank monitoring regardless of installation conditions
- UL-verified as meeting the EPA criteria for tank-tightness testing
- Designed for dry-hole & wet-hole installations

How TRUCHEK[®] Works

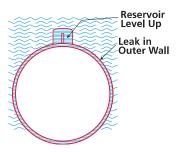
Primary-Tank Leak in Wet Hole or Dry Hole



Secondary-Tank Leak in Dry Hole



Secondary-Tank Leak in Wet Hole



TANK-TIGHTNESS TESTING

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

ZCL | Xerxes **Underground Double-Wall Tank Data**

	Nominal Capacity (gallons)	Tank Length (feet/inches)	Nominal Shipping Weights (Ibs) (dry interstitial)	Nominal Shipping Weights (Ibs) (wet interstitial)	Number of Anchor Straps Required	Nominal Capacity (liters)	Tank Length (mm)	Nominal Shipping Weights(Kg) (dry interstitial)	Nominal Shipping Weights (Kg) (wet interstitial)	Number of Anchor Straps Required
4′	600	7′ - 3 1/2″	900	1,100	2	2,500	2,303	400	500	2
	1,000	11'-7 1/2"	1,100	1,300	2	3,900	3,395	500	600	2
	2,000	22′ -3 5/8″	2,800	3,400	2	5,000	4,380	600	700	2
[2,500	13′ - 5 3/4″	2,200	2,800	2	10,000	4,520	900	1,100	2
	3,000	16'-4 1/4"	2,600	3,300	2	15,000	6,604	1,300	1,600	4
6′	4,000	20'-8"	3,600	4,400	2	20,000	8,465	1,700	2,000	4
	5,000	26'-5"	4,300	5,200	4	25,000	10,420	2,200	2,500	4
	6,000	30′ - 8 3/4″	5,000	6,100	4					
[4,000	15′- 1/2″	2,700	3,600	2	15,000	3,994	900	1,100	2
	5,000	17'-8 1/2"	3,200	4,200	2	20,000	5,137	1,200	1,500	2
	6,000	20'-6 1/2"	3,700	4,900	2	25,000	6,090	1,400	1,700	2
8′	8,000	26'- 1/2"	4,800	6,200	4	30,000	7,264	1,700	2,100	4
	10,000	31'-6 1/2"	5,900	7,500	4	35,000	8,185	2,000	2,300	4
	12,000	37'- 1/2"	7,000	8,800	4	40,000	9,392	2,300	2,700	4
	15,000	46'- 9"	9,100	11,200	6	45,000	10,363	2,500	3,000	4
						50,000	11,328	2,700	3,200	4
						60,000	13,500	3,400	3,900	6
						65,000	14,522	3,700	4,300	6
[10,000	21′-5 1/4″	4,900	6,400	4	50,000	7,449	2,900	3,300	4
	12,000	24'- 1/4"	5,600	7,200	4	55,000	8,280	3,200	3,600	4
	15,000	29'-5 3/4"	7,000	8,900	4	60,000	8,827	3,300	3,800	5
10/	20,000	37′ - 8 3/4″	9,000	11,300	6	65,000	9,576	3,600	4,200	5
10′	25,000	47′ - 6 3/4″	11,800	14,600	8	70,000	10,395	3,900	4,500	6
	30,000	55′ - 9 3/4″	14,000	17,200	10	75,000	10,903	4,100	4,700	6
	35,000	64'- 3/4"	16,500	20,100	12	80,000	11,582	4,400	4,900	6
	40,000	73′ - 8 1/4″	19,000	23,100	14	85,000	12,268	4,700	5,300	7
						90,000	13,068	5,000	5,600	7
						100,000	14,345	5,400	6,100	8
						110,000	15,723	5,900	6,700	9
[20,000	29′ -4″	14,000	16,700	6					
-	25,000	35′ -7″	16,600	19,700	8					
	30,000	43′ -1″	19,900	23,500	10					
1.77	35,000	49′ -4″	22,500	26,500	12					
12'	40,000	54′ - 4″	24,600	28,900	12					
	45,000	60′ -7″	27,400	32,100	16					
	48,000	65′ - 7″	29,500	34,500	18					

Notes:

50,000

1. Tank data for multicompartment tank models is available at www.zcl.com.

30,500

68' -1"

2. Actual height of the tank may be greater than the actual diameter due to fittings and accessories. Load height during shipping may vary due to tank placement on the shipping trailer.

18

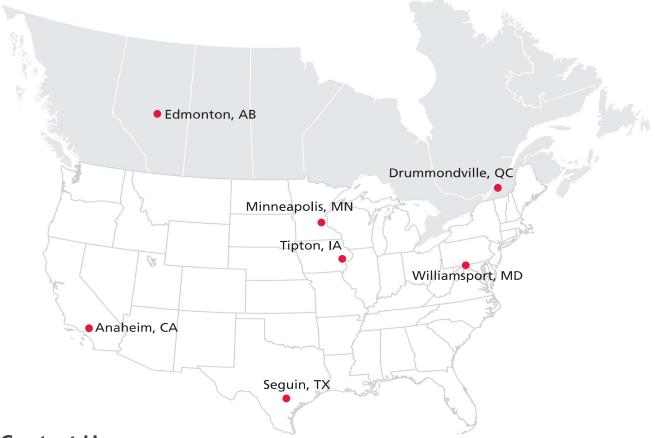
3. If an overfill-protection device is installed in the tank, the actual capacity will be reduced.

35,700

Multiple Facilities

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

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



Contact Us

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

On the Web: www.zcl.com

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

Corporate Head Office

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US Office

Xerxes Corporation 7901 Xerxes Avenue S Minneapolis, MN 55431

Manufacturing Facilities:

Canada Edmonton, AB Drummondville, QC

USA

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





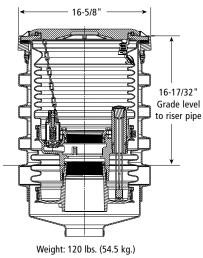
OPW EDGE[™] Double-Wall Spill Containers

Designed in collaboration with contractors and end-users, the OPW EDGE[™] Double-Wall Spill Container installs in the same space as single-wall buckets. The EDGE[™] delivers best-inclass features that significantly improve reliability, installation, testing and ease of serviceability. The EDGE[™] exceeds the performance levels of all other doublewall spill containers.

- Fully Testable
- Unbeatable installation ease
- Uses existing riser pipe
- Unparalleled serviceability
- Superior quality
- Significantly reduces installation time and labor costs



Sealable Cover Option Available



Materials

Cover: Cast iron Mounting Ring: Duragard® coated ductile iron Bellows: Polyethylene Base: Cast iron E-coating Clamps: Stainless steel Seals: Buna-N

Features

- Top Mounted Vacuum Test Port
 - For quick and easy access
- Superior Visual Gauge
 - No messy dipsticks to contend with
 - Significantly simplifies and reduces testing time

Ease of Access to the Electronic Sensor for Testing

- Easy access for testing
- Located to eliminate damage potential during product drops
- Roto-Molded Primary & Secondary Buckets
 - Thicker walls for greater durability and reliability
- Ribbed Polyethylene Skirt Design
 - Roto-molded for long-life durability
 - Provides rigidity for added durability
 - Provides handles on all sides for ease of installation

Patent-Pending Socket Design

- Enables the EDGE[~] to install into the space of a single-wall spill container
- Helps to align bucket on riser

Listings and

Certifications



Patent-Pending Ledge Design

- Provides machined sealing face for drop tube
- Improves overall drop tube sealing integrity
- Eliminates face seal adaptors or de-burring of the riser pipe to obtain a flat surface for the drop tube

Patent-Pending Removable Adaptor

- Allows for quick and easy access to drop tube
- Eliminates the need for cumbersome chain wrenches

Bellow Seals

- Improves overall sealing integrity
- Eliminates mess and curing time found in sealants
- Reduces service time and costs

SC Test

Missouri DENRIApproved

• Vacuum Testing Lid for Edge, 2200, 21000 and Multiports

CARB

California Air Resources

Franklin Fueling Systems 4" SUBMERSIBLE TURBINE PUMPS

Since hitting the market in 1988, FE PETRO® brand submersible pumps have developed a reputation as the standard in performance, quality and dependability with innovative features only available from Franklin Fueling Systems. It is, and always will be about filling cars faster. With best-in-class flow rates and backed by a long history of dependability, FE PETRO® pumps are responsible for delivering fuel to thousands of customers around the globe, day in and day out.

TECHNICAL ADVANTAGES

Variable Speed

With faster fill times during peak hours and power savings during non-peak hours, variable speed submersible pumping systems allow you to maximize profits with consistent flow rates while mitigating operating expenses.

MagShell[®]

The patented stainless steel MagShell[®], available on 2 Hp and 4 Hp pumps, is designed to maximize flow rate capabilities, potential throughput, and profits. By expanding the pump motor shell, the MagShell[®] increases the area for product flow by 45%.

Biofuel Compatibility

FE PETRO[®] Alcohol-Gas (AG) and Advanced Protection (AP) pumps are UL listed with both UL79A (up to 85% Ethanol) and UL79B (up to 20% or 100% Biodiesel).

Variable Length

The patented telescoping pump shaft lets installers adjust the length of the pump onsite for the perfect fit.

Advanced Protection

Stop corrosion in its tracks. Special powder-coated, e-coated, and stainless steel components defend your pump in the tank and in the sump from accelerated corrosion.

Turbine Pump Interface

Remote enhanced pump monitoring and control including pump-in-water automation, clogged intake escalation, tank leveling, and tank priority.

Intake Filter Screen

Avoid system damage, pumping slowdowns, and reduce filter changes by keeping harmful tank debris, sediment, and corrosion from entering the pumping system with this factoryinstalled option.

	4 нР	2 нр		3⁄4 HP
Variable Speed	 Image: A set of the set of the	 Image: A set of the set of the		
Fixed Speed		 Image: A set of the set of the	 Image: A set of the set of the	 Image: A set of the set of the
MagShell®	 Image: A set of the set of the	 Image: A set of the set of the		
Biofuel Compatibility*	 Image: A set of the set of the	 Image: A set of the set of the	 Image: A set of the set of the	 Image: A set of the set of the
Variable Length	 Image: A set of the set of the	 Image: A set of the set of the	 Image: A set of the set of the	 Image: A second s
Advanced Protection	 Image: A set of the set of the	 Image: A second s	 Image: A second s	 Image: A second s
Turbine Pump Interface**	 Image: A set of the set of the	 Image: A second s	 Image: A set of the set of the	 Image: A second s
Intake Filter Screen	\checkmark	 Image: A set of the set of the	 Image: A set of the set of the	 Image: A start of the start of

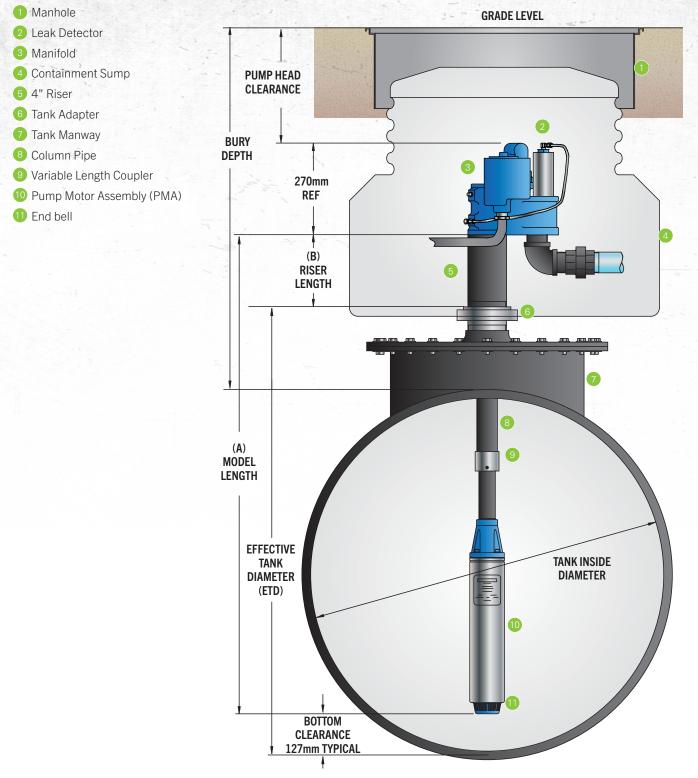
FEATURE SELECTION

*Up to 85% Ethanol and up to 20% or 100% Biodiesel.

*Fixed speed models require a Guardian Series[®] Single Phase Smart Controller (SPGC-220) to network with EVO[®] Series Automatic Tank Gauges.

SPECIFICATIONS

4" Submersible Pump Components & Key Dimensions



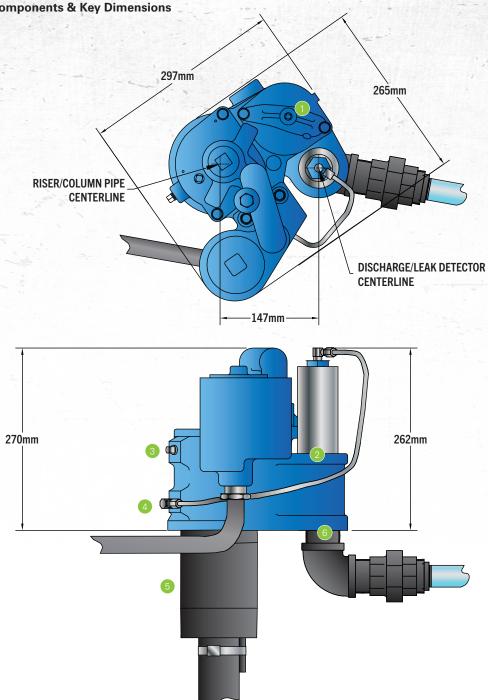
Notes:

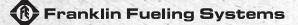
- 1. Effective tank diameter (ETD) = Inside tank diameter (to top of 4" bung), including tank manway and/or sump adapter.
- 2. Model length (A) = ETD plus riser length minus bottom clearance minus 25mm thread engagement.
- 3. Riser length (B) = Bury depth (to top of tank) minus pump head clearance minus tank manway and/or minus sump adapter.

SPECIFICATIONS

4" Submersible Pump Manifold Components & Key Dimensions

- 1 Line Test Port, ¼" NPT
- 2 Leak Detector Port, 2" NPT
- 3 Syphon Port, ¼" NPT
- 4 Tank Port, ¼" NPT
- 5 Riser Pipe, 4" NPT
- 6 Discharge Outlet, 2" NPT





1½ HP SUBMERSIBLE TURBINE PUMPS

FE PETRO® 1½ Hp fixed speed submersible pumps deliver consistent flow rates for medium throughput fuels.

TECHNICAL ADVANTAGES

OPTIONAL FEATURES

Biofuel Compatibility

FE PETRO® pumps are UL listed with both UL79A (up to 85% Ethanol) and UL79B (up to 20% or 100% Biodiesel).

Variable Length

The patented telescoping pump shaft lets installers adjust the length of the pump onsite for the perfect fit.

Advanced Protection

Stop corrosion in its tracks. Special powder-coated, e-coated, and stainless steel components defend your pump in the tank and in the sump from accelerated corrosion.

STANDARD FEATURES

Active Air Eliminator

FE PETRO® STPs come standard with active air elimination, which eliminates air through the highest point in the pump head at all times when the pump is running, assuring air does not pass into discharge piping.

Safety and Ease of Maintenance

FE PETRO[®] STPs include a contractor electrical disconnect, which requires loosening only one bolt, allowing motor wiring to be disconnected without venting the dangerous tank vapors into the sump when servicing FE PETRO[®] submersible products.

Simple Servicing

If ever required, the pump can be easily removed from the tank by unthreading three bolts. There is no need to disconnect the syphon system or to remove the leak detector from the system to service the STP.

Turbine Pump Interface

Remote enhanced pump monitoring and control including pump-in-water automation, clogged intake escalation, tank leveling, and tank priority.

Intake Filter Screen

Avoid system damage, pumping slowdowns, and reduce filter changes by keeping harmful tank debris, sediment, and corrosion from entering the pumping system with this factoryinstalled option.

Manual Pressure Relief

As a standard FE PETRO® feature, a vent screw is provided to bleed line pressure to zero when necessary. By turning this screw, product is diverted back to the tank, dropping line pressure to zero. This reduces fuel discharged into the sump manhole or dispenser pan during servicing, further protecting service technicians and the environment.

Outlast, Outperform with Franklin Electric Inside

FE PETRO® STPs are powered by the legendary Franklin Electric motor and built for long term performance. Franklin Electric-powered submersible pumps provide maximum uptime and a proven track record in the fueling industry that spans more than four decades. They feature best-in-class flow rates and a long history of dependability.

Quality Certification

Franklin Fueling Systems is an ISO 9001 Certified Manufacturer.



SPECIFICATIONS

General

- 1½ Hp fixed speed models are available in variable length and fixed length options.
- Check valve: 70mm diameter fluorocarbon seal constructed with cast aluminum body and steel backing washer.
- Pressure relief valve: available in four pressure relief settings, integral to check valve. Standard model relieves at 2.8 bar and resets above 2.4 bar.
- Syphon: venturi-type syphon primer supplied with every submersible. Syphon check valve and secondary syphon sold separately.
- Air eliminator: every submersible includes a tank return path with one-way check valve to provide active air elimination.
- Electrical disconnect: electrical yoke for positive contractor disconnect during service.

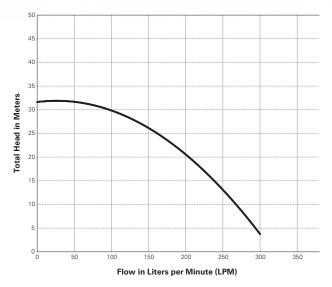
Pump Motor

- 1½ Hp fixed speed, 2875 rpm, multi-stage centrifugal type pump motor with integral, automatic, thermal overload protection.
- Standard pressure (three-stage) model, max. pressure = 2.62 bar.
- High pressure (four-stage) model, max. pressure = 3.31 bar.

Approvals

- cULus listed.
- Consult factory for applicable approvals.

1¹/₂ Hp Single-Phase Fixed Speed Pump Performance Chart (STP150B)



Note: Performance based on pumping gasoline (0.78 specific gravity). Pressure is taken at the manifold discharge outlet. 150B models are powered by a 250 Volt power supply.

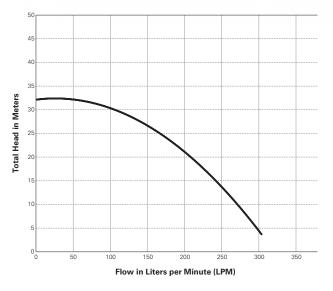
Power Requirements

- 150B fixed speed models require single-phase, 200-250 VAC, 50 Hz incoming power. 150C fixed speed models require three-phase 380-415 VAV, 50 Hz incoming power.
- 150B fixed speed models incorporate a starting and running capacitor, with internal bleed resistor, rated 440 Volt, 15 microfarad.
- SPGC single-phase Guardian[™] Series Controllers and STP-CBBS single-phase control boxes are available for 150B pump control.
- STP-SCIIC three phase controllers and STP-CBB3C threephase magnetic starters are available for 150C control.
- Max. motor draw: 150B 9 Amps, 150C 3 Amps.

Liquid Compatibility

- Max. liquid viscosity: 70 SSU at 60 °F (15 °C).
- Standard STP models are UL and cUL listed for fuel mixtures containing up to 10% ethanol with gasoline, and 20% MTBE, 20% ETBE or 17% TAME with gasoline.
- STPAP/STPAG (AG compatible) models are UL listed for fuel mixtures containing diesel fuel with up to 20% Biodiesel, 100% Biodiesel, up to 85% ethanol with gasoline, and 20% MTBE, 20% ETBE or 17% TAME with gasoline.
- 1½ Hp fixed speed models can also be used with diesel fuels, fuel oils, kerosene, Avgas, and jet fuels in a non-gelled pourable state.
- All wetted elastomers are made of a high grade, fluorocarbon compound.

1¹/₂ Hp Three-Phase Fixed Speed Pump Performance Chart (STP150C)



Note: Performance based on pumping gasoline (0.78 specific gravity). Pressure is taken at the manifold discharge outlet. 150C models are powered by a 415 Volt power supply.

ORDERING INFORMATION

11/2 Hp Fixed Speed Submersible Pump Ordering Guide

A typical turbine model designation has up to five components to define the pump being supplied as follows:

STP XXXXX Y - A - B

STP = Basic Model Designation

XXXXX = Factory Installed Options (Model designations may include one or more of the following characters in alphabetical order.)

AP = Advanced Protection with powder-coated, e-coated, and stainless steel components, alcohol-gasoline compatible (up to E85, up to B20, and B100) (Note standard models up to 10% ethanol capable)

AG = Alcohol-gasoline compatible (up to E85, up to B20, and B100) (Note standard models up to 10% ethanol capable)

 $F = Floating suction adapter (1\frac{1}{2}" NPT female adapter)$

K = Intake filter screen (IFS, factory installed to PMA)

R = Model R check valve (1.7 bar relief / 1.5 bar reset for PLLD)

*W = Model W check valve (1.1 bar relief / 0.9 bar reset for PPM4000)

Y = Pump Motor Horsepower Rating

 $150B = 1\frac{1}{2}$ hp fixed speed, 50 Hz, single-phase

 $150C = 1\frac{1}{2}$ hp fixed speed, 50 Hz, three-phase

A = Model Length (see table)

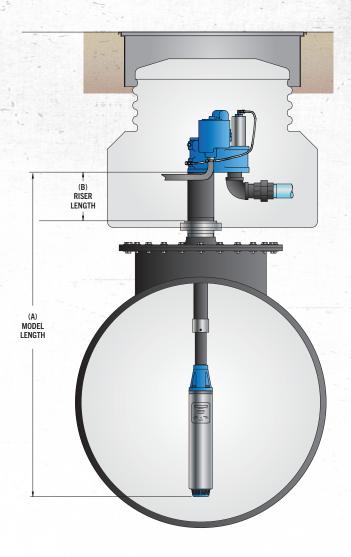
- VL1 = Variable length range #1.
- VL2 = Variable length range #2.
- VL3 = Variable length range #3.

(Note VL2 models fit 94% of all known installations)

B = Riser Pipe Length (see diagram)

Riser pipe length is expressed as two numeric characters that indicate the total length of the riser in inches. Riser pipes are available from 178mm to 1524mm in 25mm increments (additional charge for risers 787mm or longer).

Notes: *If not otherwise specified, all STP models are supplied with standard model check valve (2.8 bar relief / 2.4 bar reset for MLD, TS-LS300, and TS-LS500).



Model Length (A)

STP Horsepower	Model Length Range	Model Length Designation
150B 1½ Hp Fixed Speed	1556mm – 2298mm	VL1
	2344mm – 3905mm	VL2
	3156mm – 5499mm	VL3
150C 1½ Hp Fixed Speed	1531mm – 2273mm	VL1
	2318mm – 3879mm	VL2
	3131mm – 5473mm	VL3

Note: High pressure option adds about 13mm to PMA and model length.

ORDERING INFORMATION

Single-Phase 11/2 Hp Fixed Speed Submersible Turbine Pumps

Model	Description	Model Length Range Number	Model Length Range*
STP150B-VL1	1½ Hp fixed speed	VL1	1556mm – 2298mm
STP150B-VL2	1½ Hp fixed speed	VL2	2344mm – 3905mm
STP150B-VL3	1½ Hp fixed speed	VL3	3156mm – 5499mm
STPH150B-VL1	1½ Hp high pressure fixed speed	VL1	1569mm – 2311mm
STPH150B-VL2	1½ Hp high pressure fixed speed	VL2	2357mm – 3918mm
STPH150B-VL3	1½ Hp high pressure fixed speed	VL3	3169mm – 5512mm

Three-Phase 11/2 Hp Fixed Speed Submersible Turbine Pumps

Model	Description	Model Length Range Number	Model Length Range*
STP150C-VL1	1½ Hp fixed speed	VL1	1531mm – 2273mm
STP150C-VL2	1½ Hp fixed speed	VL2	2318mm – 3879mm
STP150C-VL3	1½ Hp fixed speed	VL3	3131mm – 5473mm
STPH150C-VL1	1½ Hp high pressure fixed speed	VL1	1544mm – 2286mm
STPH150C-VL2	1½ Hp high pressure fixed speed	VL2	2331mm – 3892mm
STPH150C-VL3	1½ Hp high pressure fixed speed	VL3	3144mm – 5486mm

Single-Phase Alcohol-Gas (AG) 11/2 Hp Fixed Speed Submersible Turbine Pumps

Model	Description	Model Length Range Number	Model Length Range*
STPAG150B-VL1	1½ Hp AG fixed speed	VL1	1556mm – 2298mm
STPAG150B-VL2	1½ Hp AG fixed speed	VL2	2344mm – 3905mm
STPAG150B-VL3	1½ Hp AG fixed speed	VL3	3156mm – 5499mm
STPAGH150B-VL1	1½ Hp AG high pressure fixed speed	VL1	1569mm – 2311mm
STPAGH150B-VL2	1½ Hp AG high pressure fixed speed	VL2	2357mm – 3918mm
STPAGH150B-VL3	1½ Hp AG high pressure fixed speed	VL3	3169mm – 5512mm
STPAP150B-VL1	1½ Hp fixed speed with Advanced Protection	VL1	1556mm – 2298mm
STPAP150B-VL2	1½ Hp fixed speed with Advanced Protection	VL2	2344mm – 3905mm
STPAP150B-VL3	1½ Hp fixed speed with Advanced Protection	VL3	3156mm – 5499mm
STPAPH150B-VL1	1½ Hp high pressure fixed speed with Advanced Protection	VL1	1569mm – 2311mm
STPAPH150B-VL2	1½ Hp high pressure fixed speed with Advanced Protection	VL2	2357mm – 3918mm
STPAPH150B-VL3	1½ Hp high pressure fixed speed with Advanced Protection	VL3	3169mm – 5512mm

Three-Phase Alcohol-Gas (AG) 11/2 Hp Fixed Speed Submersible Turbine Pumps

Model	Description	Model Length Range Number	Model Length Range*
STPAG150C-VL1	1½ Hp AG fixed speed	VL1	1531mm – 2273mm
STPAG150C-VL2	1½ Hp AG fixed speed	VL2	2318mm – 3879mm
STPAG150C-VL3	1½ Hp AG fixed speed	VL3	3131mm – 5473mm
STPAGH150C-VL1	1½ Hp AG high pressure fixed speed	VL1	1544mm – 2286mm
STPAGH150C-VL2	1½ Hp AG high pressure fixed speed	VL2	2331mm – 3892mm
STPAGH150C-VL3	1½ Hp AG high pressure fixed speed	VL3	3144mm – 5486mm
STPAP150C-VL1	1½ Hp fixed speed with Advanced Protection	VL1	1531mm – 2273mm
STPAP150C-VL2	1½ Hp fixed speed with Advanced Protection	VL2	2318mm – 3879mm
STPAP150C-VL3	1½ Hp fixed speed with Advanced Protection	VL3	3131mm – 5473mm
STPAPH150C-VL1	$1\!\!\!/_2$ Hp high pressure fixed speed with Advanced Protection	VL1	1544mm – 2286mm
STPAPH150C-VL2	$1\!\!\!/_2$ Hp high pressure fixed speed with Advanced Protection	VL2	2331mm – 3892mm
STPAPH150C-VL3	$1\frac{1}{2}$ Hp high pressure fixed speed with Advanced Protection	VL3	3144mm – 5486mm

Notes: 1. STP models are compatible with fuel mixtures containing up to 10% ethanol with gasoline, up to 5% Biodiesel with diesel fuels, and 20% MTBE, 20% ETBE or 17% TAME with gasoline. STPAG/STPAP models are compatible with fuel mixtures containing diesel fuel with up to 20% Biodiesel, 100% Biodiesel, up to 85% ethanol with gasoline, and 20% MTBE, 20% ETBE or 17% TAME with gasoline.

2. All models are supplied with a standard check valve unless factory option "R" or "W" is specified.

3. All above 150B models require single-phase, 200-250 VAC, 50 Hz incoming power. All above 150C models require single-phase, 380-450 VAC, 50 Hz incoming power.

4. 4" riser pipe, if supplied locally, must be 41/2" OD by 3/16" WT tubing.

5. For riser pipe lengths 787mm to 1524mm, additional charges apply (call Customer Service for lead times).

*Model length (A) defined as the dimension from turbine manifold bottom to pump motor inlet.

Factory Installed Approvals

Specified in model number at time of STP order.

Model	Description			
(ATXF)	Submersible Turbine Pumps with ATEX Flameproof approval for EN markets	3	1-1-1-1	1
(RT)	Submersible Turbine Pumps with ROSTEST approval for Eastern European markets			

Note: If not otherwise specified, all models are supplied to UL approval as standard. Consult factory for local approvals.

Factory Installed Options

Specified in model number at time of STP order.

Model	Description
F	Floating suction adapter, 1½" NPT female, must be factory installed
K	IFS (intake filter screen) factory assembled to pump motor assembly
R	Model R check valve, factory installed, for Veeder-Root* PLLD Line Leak
W	Model W check valve, factory installed, for Red Jacket PPM4000 Line Leak

Field Installed Options

1¹/₂ Hp fixed speed specific accessories.

Model	Description
400137937	Syphon check valve, alcohol-gasoline compatible
400818922	STP-CBBS, single-phase control box with lockout switch, 240 Volt coil
402312932	STP-DHIB + SPGC-220 Guardian Series [™] Single Phase Smart Controller bundle
402313922	STP-DHIB-CBBS, combo DHIB with factory-wired STP-CBBS single-phase control box
402459931	Model 65 psi (4.5 bar) check valve AG compatible, (for slave of manifolded STPs with Veeder-Root* PLLD)
402507930	Secondary syphon kit (when two syphon primes are required for one STP)
5800100220	SPGC-220 Guardian Series [™] Single Phase Smart Controller
401220965	STP-CBB3C three-phase, 380-415 VAC magnetic starter
5800103300	STP-SCIIIC three-phase, 380-415 VAC smart controller
5800300200	STP-DHIB, dispenser hook isolation for 240 Volt dispenser handle switches, up to eight each



TLS-450PLUS, TLS4, & TLS4B Automatic Tank Gauges

Specification Sheet



Standard Features	TLS-450PLUS	TLS4	TLS4B
Color touch screen with user-friendly graphic display	\checkmark	\checkmark	\checkmark
Universal AC power supply, 100-249VAC, 50/60HZ	\checkmark	\checkmark	\checkmark
Optional DC power input, +24VDC, +5VDC	N/A	\checkmark	\checkmark
Rechargeable backup battery	\checkmark	\checkmark	\checkmark
Internal 2-Amp relays, 120/240VAC or 30VDC	1	2	2
One internal universal low voltage input, 12VDC - senses contact closure	N/A	\checkmark	\checkmark
Maximum number of universal probe and/or sensor inputs	64/128/192/256 ¹	12/76 ¹	б
Maximum number of in-tank probes	64 ¹	12/32 ¹	6
Maximum number of any one type of sensor	99 ¹	12/76 ¹	6
Optional inputs and outputs	√ ²	√ ³	N/A
Web-enabled – monitor and manage via a web browser on a computer or mobile device	\checkmark	\checkmark	\checkmark

¹ = TLS-450PLUS can have up to three TLS-XB Expansion Boxes; TLS4 can have one TLS-XB

² = 123430FL03 call late up to three FL030 Expansion boxe, FL03 call late up to three FL030 Expansion boxe, FL03 call late up to three FL030 Expansion boxe, FL03 call late up to three FL030 Expansion boxe, FL03 call late up to three FL030 Expansion boxe, FL030 Expansion

Communications	TLS-450PLUS	TLS4	TLS4B
Configurable optically isolated RS-232/RS-485 serial ports – provides electrical isolation	N/A	2	2
Configurable RS-232/RS-485 serial ports	Up to 5	2	2
Ethernet port(s)	3	3	1
Ethernet network(s)	2	2	1
USB ports (external/internal)	2/2	2/0	2/0
External GSM/GPRS modem via Ethernet port	\checkmark	\checkmark	\checkmark

System Specifications	TLS-450PLUS	TLS4	TLS4B
Multipoint tank chart, supports up to 5,000 unique points	\checkmark	\checkmark	\checkmark
Network printer support via Ethernet	\checkmark	\checkmark	\checkmark
Operating temperature: 32°F to 104°F (0°C to 40°C)	\checkmark	\checkmark	\checkmark
Storage temperature: -40°F to 158°F (-40°C to 70°C)	\checkmark	\checkmark	\checkmark
Relative humidity 0-90% (non-condensing)	\checkmark	\checkmark	\checkmark
Approximate external dimensions	18.11" x 11.02" x 8.66" 46cm x 28cm x 22cm	12.99" x 7.87" x 3.54" 33cm x 20cm x 9cm	12.99" x 7.87" x 3.54" 33cm x 20cm x 9cm
Construction 16GA (0.060"/0.1524cm) powder-coated steel	\checkmark	\checkmark	1

Safety Approval Groups	TLS-450PLUS	TLS4	TLS4B
UL/cUL listed	\checkmark	\checkmark	\checkmark
ATEX	\checkmark	\checkmark	\checkmark
IECEx	\checkmark	\checkmark	\checkmark
NEPSI	\checkmark	\checkmark	\checkmark
FCC	\checkmark	\checkmark	\checkmark
EMC	\checkmark	1	\checkmark
PESO	\checkmark	\checkmark	\checkmark

Operational Features	TLS-450PLUS	TLS4	TLS4B
Multi-language GUI capability	√ 1	√ ¹	√ 1
Units of measure: Metric, US/Imperial	\checkmark	\checkmark	\checkmark
Custom alarms for unique labeling or on-site instruction	\checkmark	\checkmark	\checkmark
Customizable automatic events for email, print reports, relay and pump control	\checkmark	\checkmark	\checkmark
Workflow wizard for streamlined setup	\checkmark	\checkmark	\checkmark
Context sensitive help	\checkmark	\checkmark	\checkmark
Comprehensive reports	\checkmark	\checkmark	\checkmark
Up to three years of history available	\checkmark	\checkmark	\checkmark
Inventory and delivery monitoring – including inventory history up to 720 records	\checkmark	\checkmark	\checkmark
Power outage	\checkmark	\checkmark	\checkmark
Alarm history	\checkmark	\checkmark	\checkmark
Storage capability setup, configuration and data history	\checkmark	\checkmark	\checkmark
Additional feature enhancement software upgrade capability - through USB	\checkmark	\checkmark	\checkmark
Prominent visual status indicators - including power, warning, and alarm	\checkmark	\checkmark	\checkmark
Software upgrade via USB	\checkmark	\checkmark	1
Remote software download capability via Centralized Device Management (CDM)	Optional	Optional	Optional

¹ = Arabic, Brazil Portuguese, Chinese, Simplified Chinese, English, Finnish, French, German, Hebrew, Hindi, Italian, Korean, Polish, Portuguese, Russian, Spanish

Additional Functionality (When combined with appropriate equipment and/or software)	TLS-450PLUS	TLS4	TLS4B
AccuChart™ In-Tank Calibration – including selectable calibration range and data sufficiency tracking	Optional	Optional	Optional
Business Inventory Reconciliation (BIR)	Optional	Optional	Optional
Hourly Reconciliation Monitoring (HRM)	Optional	Optional	Optional
Timed Sudden Loss Detection	Optional	Optional	Optional
10-Amp Controller Module	Optional	Optional	N/A
Digital Pressurized Line Leak Detection (DPLLD)	Optional	N/A	N/A
In-Tank Static Leak Detection (SLD) – 0.1 Gallons Per Hour (GPH)/0.38 Liters Per Hour (LPH) annual and 0.2 GPH/0.76 LPH monthly testing	\checkmark	\checkmark	Optional
Continuous Statistical Leak Detection (CSLD) – 0.76 LPH for single and manifolded tanks	Optional	Optional	N/A
Phase Separation Detection Up to E20 - 4"/10.16cm float kit	\checkmark	\checkmark	\checkmark
Mag-FLEX Tall Tank AST Monitoring – up to 264,172,000 gal/999,999,999 liter tank capacity	\checkmark	\checkmark	\checkmark
Fuel Density Monitoring	\checkmark	\checkmark	\checkmark
Range: 700-800kg/m³ (petroleum)	\checkmark	\checkmark	\checkmark
Range: 800-900kg/m ³ (diesel)	\checkmark	\checkmark	\checkmark
THE PLUS VIEW App (iOS, Android) for Remote Access on Smart Phones and Tablets	\checkmark	\checkmark	\checkmark
HydrX [™] Fuel Conditioning System	\checkmark	√ 1	N/A
In-Station Diagnostics (ISD)	√ 2	N/A	N/A
1 = One TLS-XR Expansion Box is required			

¹ = One TLS-XB Expansion Box is required ² = California Air Resources Board (CARB) certified

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ATTACHMENT C

Alternative Design and Protection Method for Tanks (Not Applicable)

ATTACHMENT D

Manufacturer Information for Piping



Section 1 - Scope

This section covers the use of fiberglass reinforced plastic (FRP) pipe for single wall fuel handling and fuel handling vent and vapor applications including gasoline, unleaded gasoline, gasoline/alcohol mixtures, bio-diesel, DEF and diesel up to 150°F and 250 psig cyclic pressure.

Section 2 - General Conditions

- **2.01 Coordination** Material furnished and work performed under this section shall be coordinated with the related work and equipment specified under other sections, i.e. Valves, Flexible Connectors, Equipment.
- **2.02 Governing Standards** Except as modified or supplemented herein, all materials and construction methods shall comply with and be tested in accordance with the following standards and test methods:

Standard and Test Methods

UL971 2004	Standard for Nonmetallic Underground Piping for Flammable Liquids
ASTM D2310	Standard Classification for Machine-Made "Fiberglass" (Glass Fiber Reinforced Thermosetting Resin) Pipe
ASTM D2992	Standard Test Method for Obtaining Hydrostatic or Pressure Design Basis for "Fiberglass" (Glass-Fiber-Reinforced-Thermosetting Resin) Pipe and Fittings

- **2.03 Operating Conditions** In addition to the above minimum design requirements, the system shall meet the following minimum operating conditions:
 - a. Operating Pressure
 - b. Operating Temperature
 - c. Fluid Conveyed
 - d. Test Pressure
- **2.04 Quality Assurance** Pipe manufacturer's quality program shall be in compliance with ISO 9001 and/or API Q1.
- **2.05 Delivery, Storage and Handling** Pipe and fittings shall be protected from damage due to impact and point loading. Pipe shall be properly supported to avoid damage due to flexural strain. The contractor shall not allow dirt, debris or other extraneous materials to get into pipe and fittings. All factory machined areas shall be protected from sunlight until installed.
- **2.06 Acceptable Manufacturers** Fiber Glass Systems, (501) 568-4010, or approved equal.

Section 3 - Materials and Construction

3.01 2"-4" Pipe - The pipe shall be manufactured by the filament winding process using an amine cured epoxy thermosetting resin to impregnate strands of continuous glass filaments, which

are wound around a mandrel at a 54 ³/₄° winding angle under controlled tension. Pipe shall be heat cured and the cure shall be confirmed using a Differential Scanning Calorimeter.

Pipe shall be supplied with a T.A.B.™ (Threaded and Bonded) ends.

Pipe shall have a minimum continuous cyclic pressure rating of 125 psig at 150°F in accordance with ASTM D2992, Procedure A or UL 971 pressure rating.

All pipe shall be 100% hydrotested at the factory before shipment at a minimum pressure of 265 psig and shall be UL971-2004 Listed and labeled.

3.02 ASTM D2310 Classifications (at 73.4°F)

2"-3"	RTRP-11AF
4"	RTRP-11AH

(Mechanical properties cell classifications shown are minimums.)

3.03 Fittings - All fittings shall be manufactured using the same type of material as the pipe. Fittings may be manufactured either by compression molding, filament winding, resin transfer molding or contact molding methods. All fittings, adapter, and sump penetrations shall be UL971-2004 Listed.

Fittings shall be adhesive bonded matched tapered bell and spigot.

- **3.04 Connections** Connections to flex connectors or other piping materials shall be made by the use of NPT (National Pipe Thread) threaded adapters or flanges bonded to the FRP piping system.
- **3.05 Sump Penetrations** Sump penetrations shall be made by means of a permanently bonded FRP coupling. The coupling shall be capable of adjusting for the slope of the piping system entering or exiting the sump wall.
- **3.06 Adhesives** Adhesives shall be manufacturer's standard for the piping system specified.

Section 3 - Materials and Construction

3.01 2"-4" Primary and 3" - 6" Secondary Pipe - The pipe shall be manufactured by the filament winding process using an amine cured epoxy thermosetting resin to impregnate strands of continuous glass filaments, which are wound around a mandrel at a 543/4" winding angle under controlled tension. The pipe shall be heat cured and the cure shall be confirmed using a Differential Scanning Calorimeter.

Pipe shall be supplied with a T.A.B.™ (Threaded and Bonded) or plain ends.

Pipe shall have a minimum continuous cyclic pressure rating of 125 psig at 150°F in accordance with ASTM D2992, Procedure A or UL 971 pressure rating.

All pipe, both primary and secondary, shall be 100% hydrotested at the factory before shipment at a minimum pressure of 265 psig and shall be UL 971-2004 Listed and Labeled.

Fiber Glass Systems | Ney Completion & Production Solutions

fgspipe@nov.com

3.02 ASTM D2310 Classifications (at 73.4°F)

Primary Pipe	Secondary Pipe
2"-3" RTRP-11AF	3" RTRP-11AF
4" RTRP-11AH	4"-6" RTRP-11AH

(Mechanical properties cell classifications shown are minimums.)

3.03 Fittings - All fittings shall be manufactured using the same type of material as the pipe. Fittings may be manufactured either by compression molding, filament winding, resin transfer molding or contact molding methods. All fittings, adapter, and sump penetrations shall be UL971-2004 Listed.

Primary fittings shall be adhesive bonded, matched tapered bell and spigot and rated the same as the pipe.

Secondary containment fittings shall be two-piece style to allow for 100% inspection of the primary joint pressure test and be rated to a minimum of 50 psig per UL 971-2004.

Should hydrostatic testing be impractical, testing with low pressure air or inert gas may be acceptable. Extreme caution should be used when testing with air. Follow all safety precautions and testing recommendations of the pipe manufacturer.

- **3.04 Connections** Connections to flex connectors or other piping materials shall be made by the use of NPT (National Pipe Thread) threaded adapters or flanges bonded to the FRP piping system.
- **3.05 Sump Penetrations** Sump penetrations shall be made by means of a permanently bonded FRP coupling. The coupling shall be capable of adjusting for the slope of the piping system entering or exiting the sump wall.
- **3.06** Adhesives Adhesives shall be manufacturer's standard for the piping system specified.
- **3.07 Acceptable Products** Red Thread IIA piping system as manufactured by Fiber Glass Systems or engineered approved equal.

Section 4 - Installation and Testing

4.01 Training and Certification - All joints installed or constructed in the field shall be assembled by employees of the contractor who have been trained by the pipe manufacturer. The pipe manufacturer or their authorized representative, shall train the contractor's employees in the proper joining and assembling procedures required for the project, including hands-on participation by the contractor's employees. Each bonder shall fabricate one pipe-to-pipe and one pipe-to-fitting joint that shall pass the minimum pressure test for the application as stated in Section 2.03 without leaking.

Only bonders that have successfully completed the pressure test shall bond pipe and fittings. Each bonder shall carry a current, manufacturer proof of training card.

4.02 Pipe Installation - Pipe shall be installed as specified and indicated on the drawings.

The piping system shall be installed in accordance with the manufacturer's current published installation procedures.

4.03 Testing - A hydrostatic pressure test shall be conducted on the completed piping system. The piping system shall be subjected to 10 pressurization cycles from 0 psig to 1.5 times the design operating pressure as stated in Section 2.03.c. After the 10 cycles, the pressure shall be held on the system for a minimum of 1 hour and the line inspected for leaks.

Test pressures shall not exceed 1.5 times the maximum rated pressure of the lowest rated element in the system.

All pipe joints shall be water tight. All joints that are found to leak, by observation or during testing shall be replaced by the contractor and retested.

Should hydrostatic testing be impractical, testing with low pressure air or inert gas may be acceptable. Extreme caution should be used when testing with air. Follow all safety precautions and testing recommendations of the pipe manufacturer.

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Fiber Glass Systems New Production & Production Solutions

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nov.com/fgs

Red Thread[™] IIA (Product Data)

Applications

- Service Station
- Vent/Vapor Recovery
- Bulk Plant Terminals
- Fueling Terminals

Materials and Construction

All pipe is manufactured by filament winding process using amine-cured epoxy thermosetting resin to impregnate strands of continuous glass filaments with a resin-rich interior surface. The operating pressure of the pipe is up to 250 psig (17.2 bar) with continuous operating temperature to 150°F (66°C).

Red Thread IIA is Listed with Underwriters Laboratories Standard 971-2004 for non-metallic underground piping for motor vehicle (MV), high blend (HB), concentrated (CT) and aviation and marine (A&M) fuels. The pipe and fittings are also Listed with Underwriters Laboratories of Canada with both Listings under File MH9162.

Nominal Dimensional Data

- Central Fuel Oil Systems
- Marinas Terminals
- Ethanol Fuel Blends
- Biodiesel Fuel

Fittings

Fittings are manufactured with the same chemical and temperature capabilities as the pipe. Depending on the configurations and size, the fittings construction method will be compression molded, contact molded, fabricated or filament wound and are described in FH1250.

Testing

Installed pipe systems should be tested prior to use to assure soundness of all joints and connections. Locate pressure gauge in close proximity to the pressurizing equipment, not directly on the piping system. A pressure gauge with the test pressure at mid-scale is recommended.

- Diesel Exhaust Fluid
- UL/ULC Systems that require MV, HB, CT, A&M Fuels

Joining System

- T.A.B.[™] The primary joining method for pipe joints promoting fast, positive makeup and prevents "backout" during curing.
- Bell & Spigot The primary joining method for fitting joints.

These joints assist the installer and assures a fast trouble-free installation. Adhesive for this system is Series 8000. T.A.B. spigots can be bonded into tapered bells and tapered spigots can be Bonded into T.A.B. bells using standard bonding procedures for tapered joints.

ASTM D2996 Designation Code -

RTRP-11AW13110

Pipe	Size	Inside Diamete	er	Outside Diamete		Wall Thi	ckness	Weight		Pressur Temper Max. Ra 150°F (6	ature ting at	Mill Test Pressur	-	Minimu Bending	
in	mm	in	mm	in	mm	in	mm	lbs/ft	kg/m	psig	MPa	psig	МРа	ft	m
2	50	2.238	57	2.372	60	0.067	1.70	0.42	0.63	250	1.72	375	2.59	102	31.0
3	80	3.363	85	3.559	90	0.098	2.49	0.92	1.37	175	1.21	300	2.07	153	46.5
4	100	4.364	111	4.554	116	0.095	2.41	1.15	1.71	125	0.86	265	1.83	195	59.5
6	150	6.408	163	6.686	170	0.139	3.53	2.47	3.68	20	0.14	265	1.83	287	87.4

View of Joint Illustrations



T.A.B.

Bell & Spigot

Fiber Glass Systems | NOY Completion & Production Solutions

fgspipe@nov.com

nov.com/fgs



Typical Mechanical Properties

		75°F	24°C	200°F	93°C		
Pipe Property		131	27 0	2001	33 C	Method	
			МРа	psi	MPa		
Axial Tensile					·		
Ultimate Stress		9,530	65.7	6,585	45.4	ASTM D2105	
Modulus of Elasticity		1.68 x 10 ⁶	11,584	1.42 x 10 ⁶	9,791	ASTM D2105	
Poisson's Ratio, $v_{ab}(v_{ba})^{(1)}$			0.3	35 (0.61)			
Axial Compression							
Ultimate Stress		12,510	86.3	8,560	59.0	ASTM D695	
Modulus of Elasticity		0.677 x 10 ⁶	4,668	0.379 x 10 ⁶	2,613	ASTM D695	
Beam Bending							
Modulus of Elasticity (Long Term)	2.6 x 10 ⁶	17,927	0.718 x 10 ⁶	4,951	ASTM D2925	
Hydrostatic Burst							
Ultimate Hoop Tensile Stress		40,150	277	36,480	252	ASTM D1599	
Hydrostatic Hoop Design Stress							
Static 20 Year Life	LTHS - 95% LCL	-	-	18,203 - 14,689	125.5 - 101.3	ASTM D2992 - Procedure B	
Static 50 Year Life LTHS - 95% LCL		-	-	16,788 - 13,142	115.7 - 90.6	ASTM D2992 - Procedure B	
Parallel Plate	Parallel Plate						
Hoop Modulus of Elasticity		3.02 x 10 ⁶	20,822	-	-	ASTM D2412	
Shear Modulus		1.76 x 10 ⁶	12,135	1.63 x 10 ⁶	11,250	-	

Typical Physical Properties

Pipe Property	Value	Value	Method
Thermal Conductivity	0.23 BTU/hr•ft•°F	0.4 W/m°C	ASTM D177
Thermal Expansion	10.7 x 10 ⁻⁶ in/in °F	19.3 x 10 ⁻⁶ mm/mm °C	ASTM D696
Absolute Roughness	0.00021 in	0.00053 mm	
Specific Gravity		1.8	ASTM D792

Ultimate Collapse Pressure

Size		Collapse Pressure ⁽²⁾⁽³⁾⁽⁴⁾				
5120		psig		MPa		
in	mm	75°F	150°F	24°C	66°C	
2	50	177	133	1.22	0.92	
3	80	171	129	1.18	0.89	
4	100	69	51	0.48	0.35	
6	150	69	51	0.48	0.35	

Pipe Length

Size		Standard		Standard Random			
in	mm	ft	m	ft	m		
2-6	50-150	15	4.57	22-25	6.7-7.62		

⁽¹⁾ V_{ha} = The ratio of axial strain to hoop strain resulting from stress in the hoop direction. V_{ah} = The ratio of hoop strain to axial strain resulting from stress in the axial direction.

⁽²⁾ The differential pressure between internal and external pressure which causes collapse.

⁽³⁾ A 0.67 design factor is recommended for short duration vacuum service. A full vacuum is equal to 14.7 psig (0.101 MPa) differential pressure at sea level.

⁽⁴⁾ A 0.33 design factor is recommended for sustained (long-term) differential collapse pressure design and operation.

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Fiber Glass Systems

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



fgspipe@nov.com

nov.com/fgs

ATTACHMENT E Alternative Design for Piping (Not Applicable)

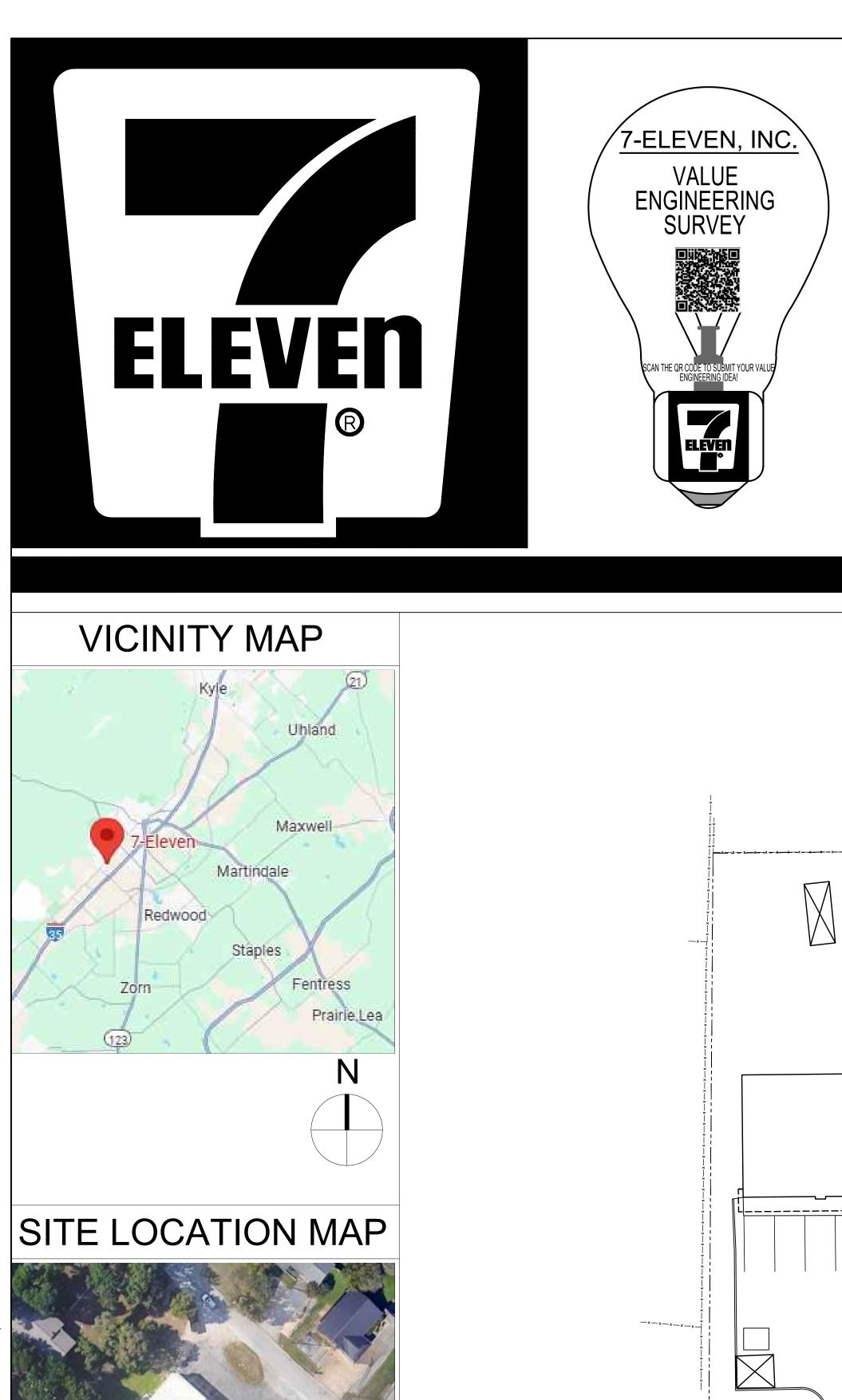
ATTACHMENT F

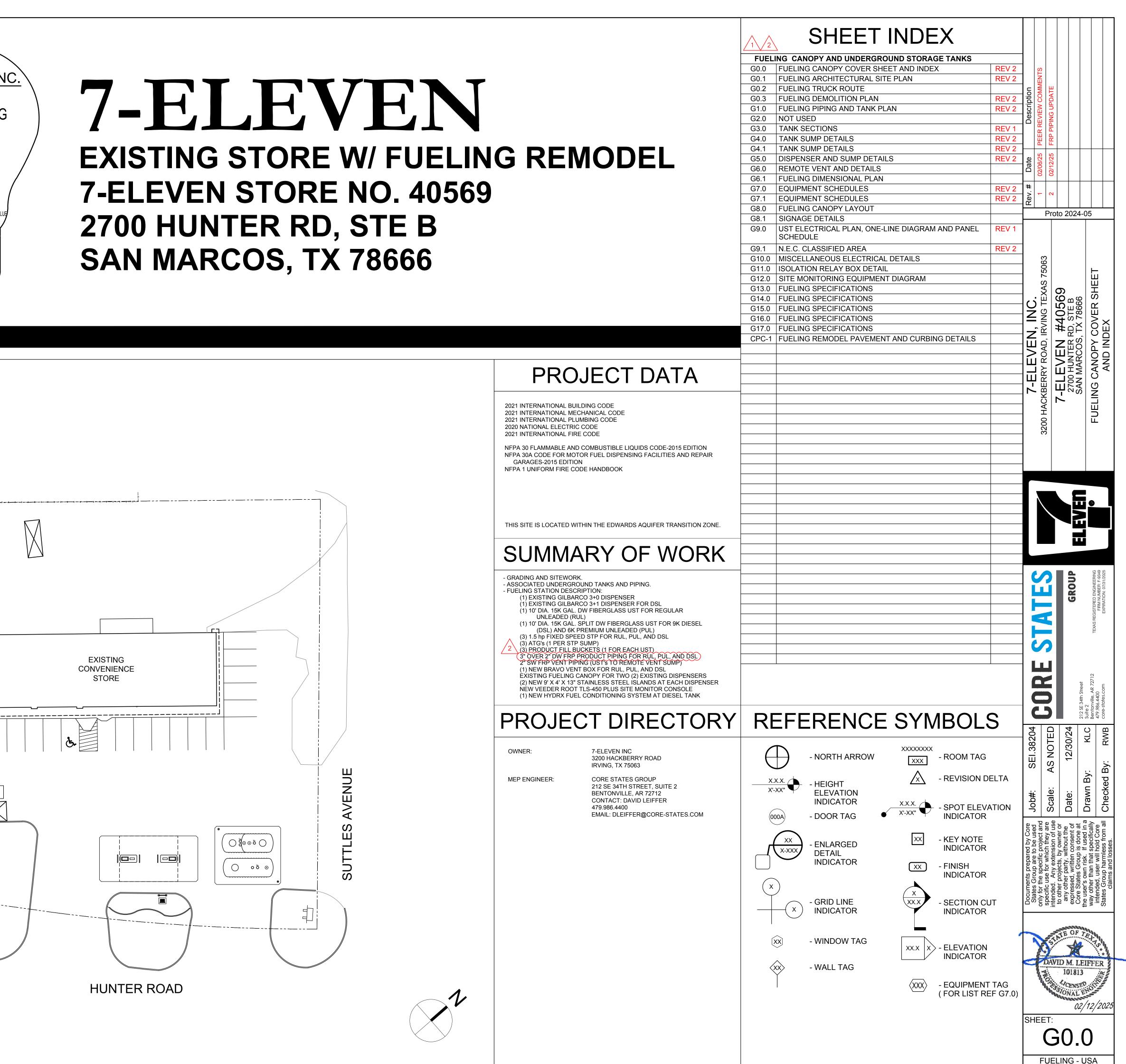
Tertiary Containment Method

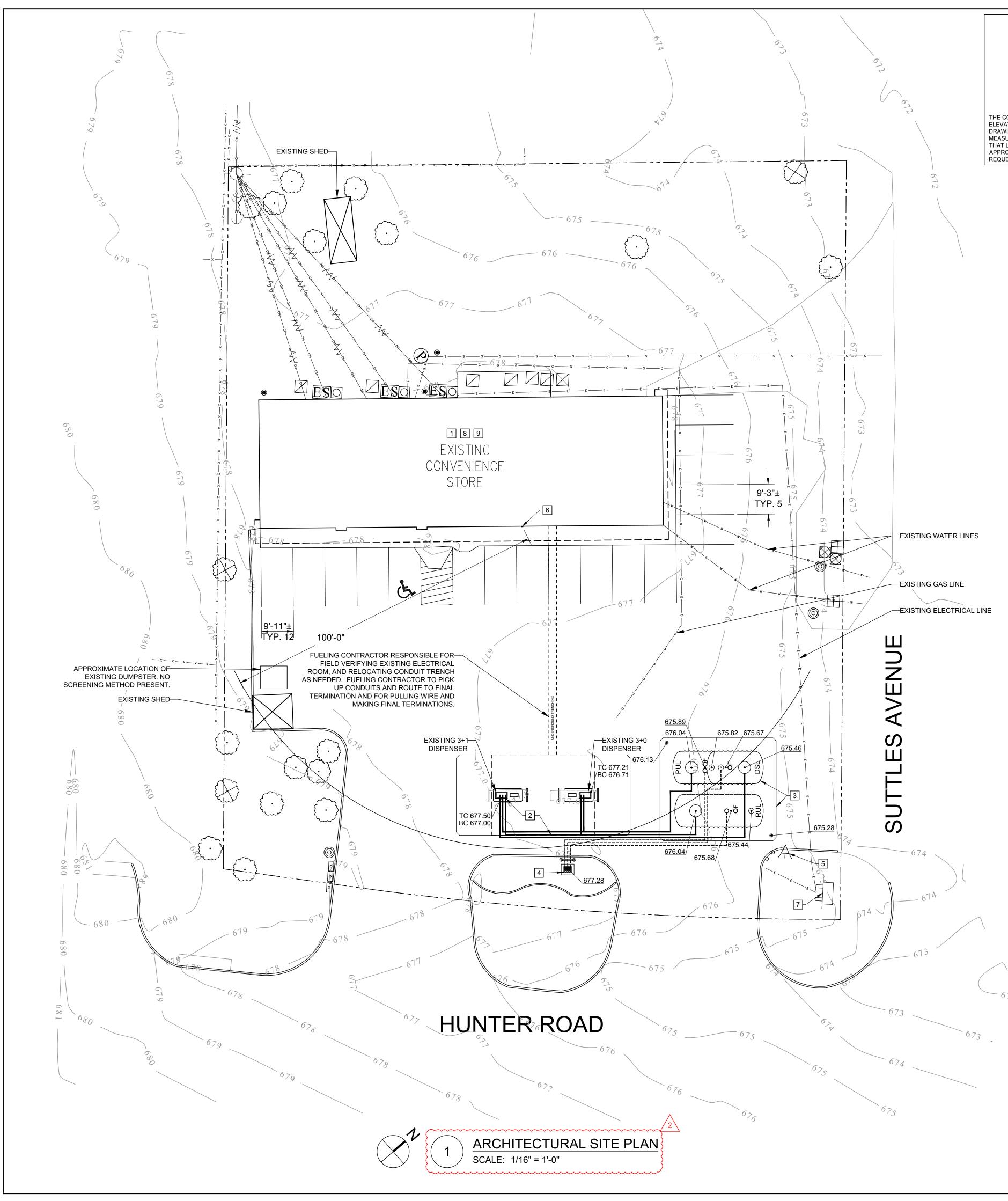
(Not Applicable)

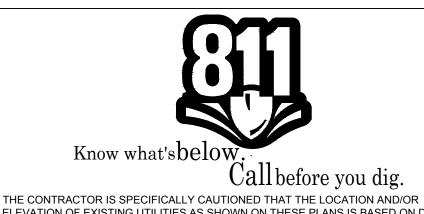
ATTACHMENT G Exception to the Geologic Assessment (Not Applicable)

ATTACHMENT H Profile Drawings









ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CORESTATES, INC. DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

IOTL.						
IO CHANGE IN GRADING, CURBING, LANDSCAPE, OR AMOUNT OF IMPERVIOUS SURFACE IN THE PROPOSED FUELING SCOPE.						
IOTE:						
UEL CONTRACTOR TO SHUT-DOWN FUEL SYSTEM PER STATE, LOCAL, AND FEDERAL REQUIREMENTS PRIOR TO INSTALLATION OF FUEL SYSTEM.						
OTE:		NOTE:				
UELIN ND MA ETWEI TILITIE	TANKS TO ELEVATION ELEVATION OF 1/8" PEF ANY BURIA					
OTE:						
HIS DRAWING IS TO BE USED AS A SCHEMATIC DRAV UB-CONTRACTORS INSTALLING PRODUCT PIPING AN IELD CONDITIONS VARY FROM DRAWING AS SHOWN ONTACT SEI PROJECT MANAGER OR REPRESENTATI C AND SUB-CONTRACTORS TO FOLLOW REMOVAL, A OMPONENTS PER MANUFACTURER INSTRUCTIONS, EGULATIONS.						
	TANK BURIAL CHA	PONENT				
	FINISH GRADE ELEV. AT BEGINNING					
	PIPE BURY (FT):					
	ELEVATION OF PIPE AT BEGINNING	OF RUN (A-				
PIPE LENGTH (LONGEST RUN) (FT):						
PIPING RUN FALL (FT) (D*1/8" PER FT):						
TOTAL CROSSOVERS/SWING JOINTS:						
	CROSSOVER/SWING JOINT DEPTH (
	ELEVATION AT END OF PIPE (FT)	(C-E-G*F):				
	ADD FOR EXTRACTOR TEE AT SUM	P:				
	TOP OF TANK ELEVATION (FT) (H-					
	HIGHEST FINISH GRADE FLEVATION	AT TANK SI				

NOTE:

HIGHEST FINISH GRADE ELEVATION (FT) (H=1): HIGHEST FINISH GRADE ELEVATION AT TANK SI MAX BURY DEPTH (K-J) (FT): MAX = 5.67'LOWEST FINISH GRADE ELEVATION AT TANKS (MIN BURY DEPTH (M-J) (FT): MIN = 4.17'TANK DURIAL DEPTH IS COVERNED BY MIN PU

TANK BURIAL DEPTH IS GOVERNED BY MIN BURY D THE TOP OF TANKS SHALL BE SET AT 671.27 FT.

GENERAL NOTES

FUEL CONTRACTOR

- FUEL GC TO WORK WITH SEI PM ON SCHEDULING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE SEI PROJECT MANAGER.
 FUEL GC RESPONSIBLE FOR ALL CONCRETE OVER TANKS AND PRODUCT PIPING (I.E. TANK SLAB AND DRIVE MATS). CONCRETE CHAIRS ARE BY
- 3 FUEL GC RESPONSIBLE FOR CANOPY FOOTINGS.

SEL

- 4 FUEL GC TO INSTALL CANOPY DRAINS (WHERE APPLICABLE) TO POINT OF CONNECTION WITHIN (10) FT OF DRIVE MATS.
- 5 FUEL EC TO INSTALL ALL FUEL RELATED ELECTRONICS (I.E. DATA BOXES, EDH UNIT, TURBINE RELAYS, ISOLATION RELAYS, ETC).
- 6 FUEL GC RESPONSIBLE FOR ALL ELECTRICAL CONDUITS, SEAL-OFFS, ELECTRICAL J-BOXES PER STATE, LOCAL, MANUFACTURERS AND SEI CODES AND SPECIFICATIONS.
- 7 FUEL EC TO PULL WIRE FOR CANOPY LIGHTING, INTERCOM, DISPENSERS, TURBINES AND MONITORING SYSTEM DEVICES.
- 8 FUEL EC TO MAKE ALL FINAL CONNECTIONS TO FUELING EQUIPMENT AND ELECTRONICS.
- 9 FUEL GC TO PULL TRADE PERMITS FOR FUELING WORK (AS REQUIRED).
- 10 FUEL GC TO "CALL FOR" AND "BE PRESENT FOR" ALL LOCAL REGULATOR INSPECTIONS AND RESPONSIBLE FOR SCHEDULING ON-SITE INSPECTIONS WITH APPROPRIATE SEI REPRESENTATIVE RELATED TO FUELING.
- 11 FUEL GC TO COORDINATE WITH TANKNOLOGY AND THE SEI CONSTRUCTION MANAGER FOR TESTING OF FUELING SYSTEM.
- 12 FUEL GC TO HAVE PERSONNEL ON SITE FOR TESTING.
- 13 FUEL GC RESPONSIBLE FOR CLOSE OUT PACKAGE PER 7-11 MATRIX.

KEY NOTES

- 1 EXISTING CONVENIENCE STORE
- 2 EXISTING FUELING CANOPY AND DISPENSERS3 NEW UNDERGROUND FUEL STORAGE TANKS AND
- 4 NEW FUEL STORAGE TANK VENTS
- 5 EXISTING AIR MACHINE

SI AB

- 6 EXISTING E-STOP ON BUILDING EXTERIOR
- 7 EXISTING MAIN ID SIGN TO REMAIN
- 8 NEW VEEDER ROOT TLS-450 PLUS SITE MONITOR CONSOLE. FIELD VERIFY LOCATION
- 9 NEW INTERIOR E-STOP BEHIND SALES COUNTER. FIELD VERIFY LOCATION

NOTE:

TOTAL REGULAR PARKING SPACES PROVIDED: 16 TOTAL HANDICAP PARKING SPACES PROVIDED: 1 TOTAL COMBINED PARKING SPACES PROVIDED: 17

D BE BURIED AT A MINIMUM OF 4.17' AT THE LOWEST FINISH GRADE ON AND A MAXIMUM OF 5.67' AT THE HIGHEST FINISH GRADE ON ON THE TANK PAD. VENT PIPING MUST HAVE A MINIMUM SLOPE ER FOOT FROM VENT SUMP TO THE TANKS. GC TO COORDINATE AL DEPTH DEVIATIONS WITH SEI PROJECT MANAGER.

WING. IT IS THE RESPONSIBILITY OF THE GC AND FUELING ND FUEL SYSTEM TO VERIFY EXISTING FIELD CONDITIONS. IF N OR INHIBIT INSTALLATION AS SHOWN <u>CEASE WORK AND</u> <u>TIVE.</u>

AND INSTALLATION REQUIREMENTS OF FUELING SYSTEM , LOCAL, FEDERAL, AND FIRE MARSHALL'S MANDATES, LAWS, AND

E #40569			
	DIESEL	PREMIUM	VENT
T):	677.00	676.71	677.28
	1.50	1.50	2.00
-В)	675.50	675.21	675.28
8	109.00	64.00	78.00
	1.14	0.67	0.81
}	1.00	1.00	0.00
	1.00	1.00	0.00
l	673.36	673.54	674.47
8	1.25	1.25	0.50
	672.11	672.29	673.97
SLAB (FT):	676.04	676.04	676.04
	3.93	3.75	2.07
(FT):	675.44	675.44	675.44
	3.33	3.15	1.47
IRY DEPTH OF 4.17'.		2	

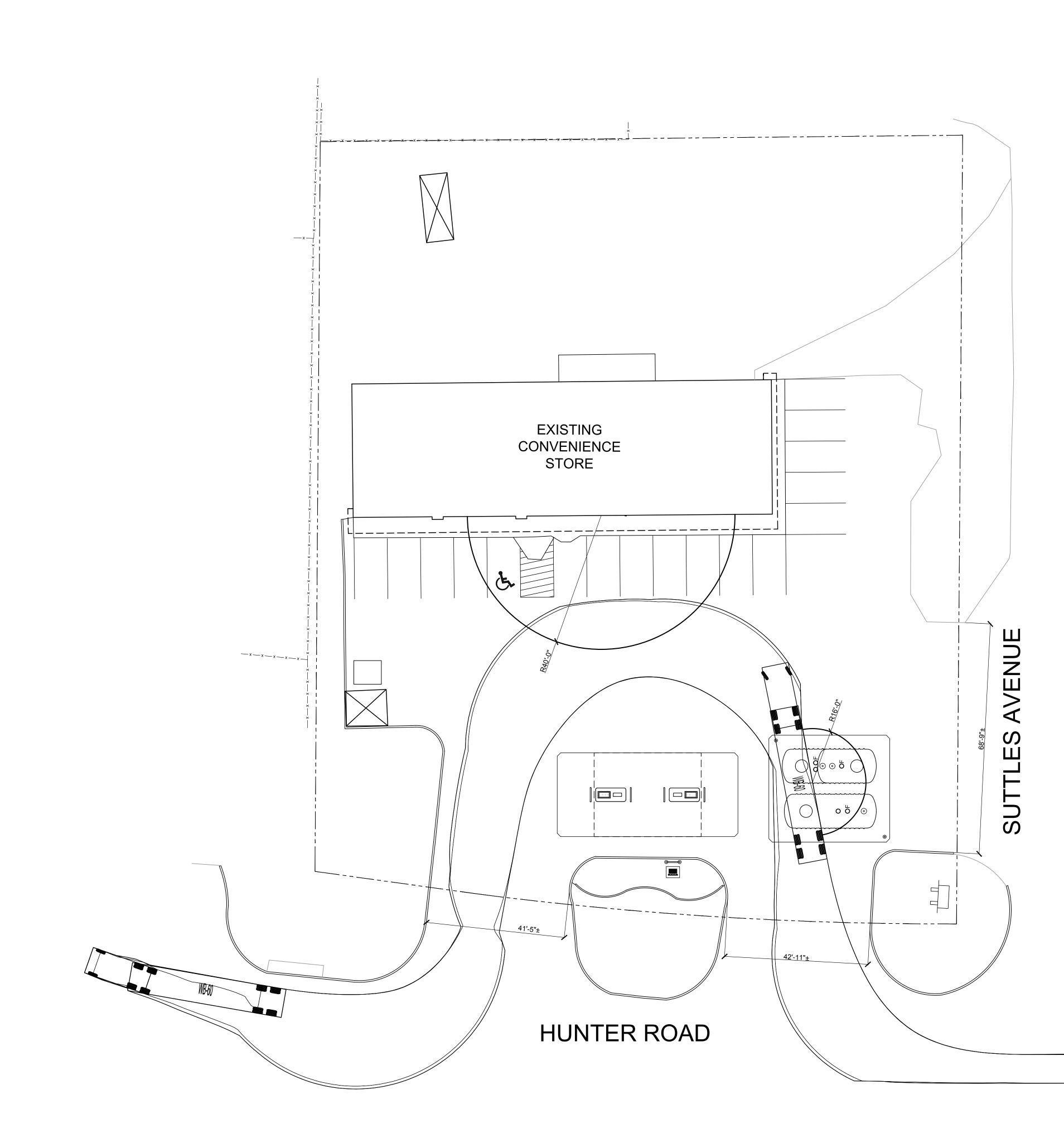
SCOPE OF WORK

- INSTALL NEW XERXES 15,000 GALLON 10' DIA DOUBLE WALL FIBERGLASS UNDERGROUND STORAGE TANK (UST) FOR REGULAR FUEL.
- INSTALL NEW XERXES 15,000 GALLON 10' DIA DOUBLE WALL FIBERGLASS UNDERGROUND SPLIT STORAGE TANKS (UST'S) FOR 9,000 GALLONS DIESEL AND 6,000 GALLONS PREMIUM FUELS.
- INSTALL (3) NEW FE PETRO 1.5 HP FIXED SPEED SUBMERSIBLE PUMP WITH INTAKE FILTER FOR RUL, PUL AND DSL FUELS.
- REUSE (1) EXISTING GILBARCO 700S 3+0 DISPENSER AND (1) EXISTING GILBARCO 700S 3+1 DISPENSER.
- INSTALL NEW 3" OVER 2" DW FRP PRODUCT PIPING FROM NEW UST'S TO EXISTING DISPENSERS.
- INSTALL (3) NEW VAPOR/VENT RISERS WITH BRAVO VENT BOX AND BRAVO VAPOR VENT RACK FOR SUPPORT.
- INSTALL NEW 2" SINGLE WALL FIBERGLASS PIPING FROM VAPOR/VENT AT UST'S TO NEW REMOTE VENT.
- 8 INSTALL NEW CONCRETE AT DISTURBED AREAS AT TANK SLAB FOR NEW PIPING PER SEI STANDARDS.
- 9 INSTALL NEW CONCRETE AT DISTURBED AREAS AT CANOPY SLAB FOR NEW PIPING PER SEI STANDARDS.
- 10 INSTALL NEW "U" BOLLARDS AT DISPENSERS AND REMOTE VENT TO SEI SPECIFICATIONS (TYP 5).
- 11 ACTIVATE INTERCOMS INSIDE THE DISPENSERS.
- 12 INSTALL (1) NEW FIRE EXTINGUISHER AT ADA COMPLIANT HEIGHT AT CANOPY COLUMN.
- 13 INSTALL (2) NEW TRASH CAN/WASH BUCKET COMBO UNITS AT THE CANOPY COLUMNS.
- 14 EXISTING MAIN ID SIGN TO REMAIN. RUN DEDICATED CONDUIT TO MAIN ID SIGN AS REQUIRED.
- 15 PAINT LED SIGNAGE FRAME, POLES, NEW BOLLARDS, CANOPY COLUMNS PER EXXON/SYNERGY BRANDING SPECIFICATIONS.
- 16 INSTALL NEW VEEDER ROOT TLS-450 PLUS SITE MONITOR CONSOLE. FIELD VERIFY LOCATION.
- 17 ROUTE NEW CONDUIT TO NEW ELECTRICAL THROUGH EXTERIOR OF BUILDING, VERIFY LOCATION WITH SEI CONSTRUCTION MANAGER.
- 18 DEMOLITION-REMOVE EXISTING TANKS, TANK SLAB, EXISTING VENT LINES AT CANOPY COLUMNS, EXISTING UST SYSTEM AND PIPING COMPLETELY. REMOVE ADDITIONAL PAVEMENT/SIDEWALKS AS REQUIRED TO FACILITATE OTHER REMOVALS AND INSTALLATIONS.
- 19 EXISTING E-STOP ON BUILDING EXTERIOR TO BE REUSED. VERIFY ADA HEIGHT COMPLIANCY.
- 20 EXISTING EXXON/SYNERGY BRANDED CANOPY TO REMAIN FOR (2) EXISTING DISPENSERS. POWER WASH, CLEAN AND PAINT CANOPY AND DECK AS REQUIRED. EXISTING SYNERGY BLADES TO REMAIN.
- 21 INSTALL (1) NEW INTERIOR E-STOP BEHIND THE SALES COUNTER.
- 22 INSTALL (2) NEW 9' X 4' X 13" STAINLESS STEEL ISLANDS AT DISPENSERS.
- 23 EXISTING POS TO REMAIN. UPGRADE EQUIPMENT/SOFTWARE AS REQUIRED.
- 24 CONFIRM EMV ACTIVATION AT DISPENSERS.
- 25 INSTALL (1) NEW HYDRX FUEL CONDITIONING SYSTEM IN THE DIESEL STP SUMP.
- 26 INSTALL (2) NEW OBSERVATION WELLS AT NEW TANK SLAB PER AHJ REQUIREMENTS.
- 27 REUSE EXISTING LOW VOLTAGE DISCONNECT.



FUELING - USA

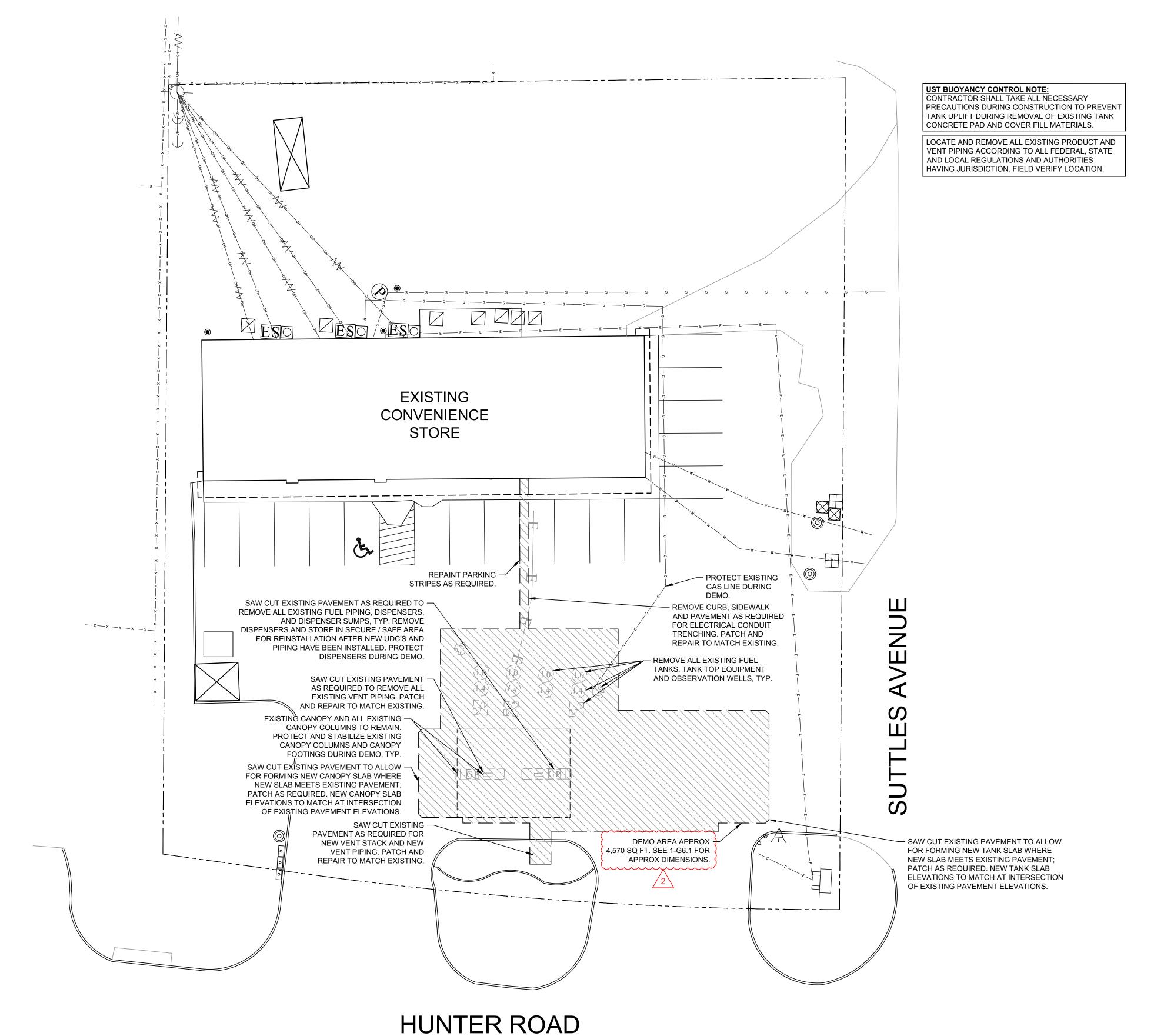
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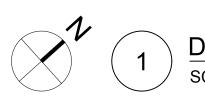




Rev. # Date Description	Prot	o 2024	4-05	
7-ELEVEN, INC.	3200 HACKBERRY ROAD, IRVING TEXAS 75063	7-ELEVEN #40369 2700 HUNTER RD, STE B	SAN MARCUS, IX / 8000	FUELING TRUCK ROUTE
		GROUP		FIRM NUMBER: F-9349 EXPIRATION: 07/31/2025
			t 2712	
SEI.38204	AS NOTED	e: 12/30/24	GJD	cked By: RWB core-states.com
Job#: SEI.38204	Scale: AS NOTED	any other party, without the expressed, written consent of expressed, written consent of the constant of the c	Drawn By: GJD	Checked By: RWB







ž ⊟≦

DEMO PLAN SCALE: 1/16" = 1'-0"



Know what's **below** Call before you dig.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CORESTATES, INC. DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

GENERAL NOTES

CONTRACTOR TO CUT AND REMOVE CONCRETE A NECESSARY TO REMOVE ALL EXISTING PIPING. LOCATION OF REMOVAL AT DISPENSER ISLANDS I APPROXIMATE AND IS BASED ON AVAILABLE INFORMATION.

AS	Rev. # Date Description 1 02/06/25 PEER REVIEW COMMENTS	- ~	to 202	4-05	
	7-ELEVEN, INC.	3200 HACKBERRY ROAD, IRVING TEXAS 75063	7-ELEVEN #40569 2700 HUNTER RD, STEB	SAN MARCOS, TX 78666	FUELING DEMOLITION PLAN
			GROUP		JMBER: F-9349 ON: 07/31/2025
	JTATO J		6		FIRM NUMBER: F-9349 EXPIRATION: 07/31/2025
				212 SE 34th Street Suite 2 Bentonville, AR 72712	479.986.4400 core-states.com
	8204		30/24	KLC 212 SE 34th Street Suite 2 Bentonville, AR 72712	RWB core-states.com
	8204		30/24	KLC 212 SE 34th Street Suite 2 Bentonville, AR 72712	RWB core-states.com
	8204			KLC 212 SE 34th Street Suite 2 Bentonville, AR 72712	RWB core-states.com
	8204	specific use for which they are intended. Any extension of use Scale: AS NOTED GURE	to other projects, by owner or any other party, without the expressed, written consent of Date: 12/30/24	The user's own risk. If used in a brawn By: KLC Bentonville, AR 72712 Bentonville, AR 72	States Group harmless from all Checked By: RWB core-states.com claims and losses.

FUELING - USA

Underground Storage Tank Buoyancy Calculations for Fiberglass Tanks Project #: 1.38204 Project Name: n Marcos, TX #40569 Tank Manufacturer / Model: erxes DW 10' 15K Number of Tanks: sumption Tank Dry Weight: Tank Volume: 00% saturation to finished grade 62.4 lb/CF 0 feet Tank Diameter (ø) water = submerged concrete = 87.6 lb/CF Tank Bury Depth: submerged aggregate = 57.6 lb/CF Tank Length (L): Number of Sumps: Sump Diameter: 36.08 feet 15.96 feet Tank Slab Length: Tank Slab Width: 8 inches Tank Slab Thickness: 24 feet Deadman Length (DL): Deadman Width (DW): 18 inches 8.75 inches Deadman Height:

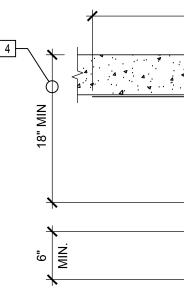
Tank & Sump(s) Upl	if+					
	<u></u>					
Tank	U1 = -	15000 gal 7.49 gal/Cl		x 62.4 lb/CF	= 124,967	lbs
Sumps		0.1			2 502	U
Total Uplift	U2 =	40.1 CF			= 2,502	
			U=	ΣUi =	127,469	lbs UP
Dead Weights for He	old Dov	<u>/n</u>				
Concrete Slah						
Concrete Slab	\A/1 _	282.0.05			- 22.620	lba
Backfill Above Tank	VV I =	383.9 CF		x 87.0 ID/CF	= 33,629	IDS
Backfill Above Tank	W2 =	1,153 CF		x 57.6 lb/CF =	66,387	lbs
Gravel Column Abov						
	W3 =	972.24 CF		x 57.6 lb/CF =	56,001	lbs
Soil Wedge Above D		• •				
	W4 =	210.1208 CF		x 57.6 lb/CF =	12,103	lbs
Concrete Deadman (2 deadı	nen per tank)				
	W4 =	52.5 CF		x 87.6 lb/CF =	4599	lbs
Dry Weight of Tank						
	W5 =				7,000	lbs
Total Weight				E 14/3	170 710	
			W=	<u>Σ</u> Wi =	1/9,/19	lbs DOWN
Net Force						
Fnet =		Σw	/i -	ΣUi =	52,250	DOWN
.						
Factor of Safety		179,719 lbs				DAGG
F.S.	= -	127,469 lbs		.=	1.41	PASS

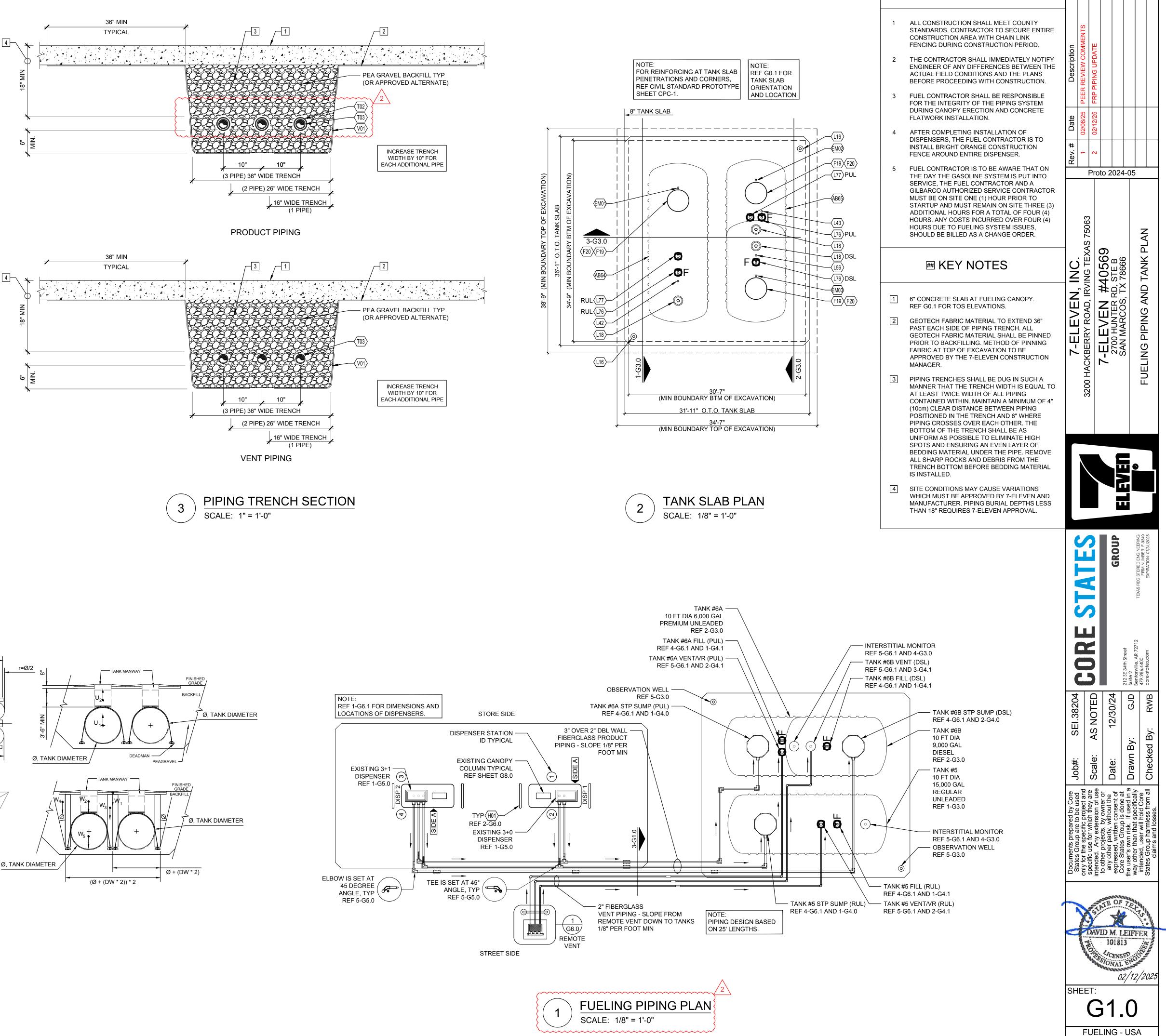
Underground Storage Tank Buoyancy Calculations for Fiberglass Tanks

Project #:	SEI.38204				
Project Name:	San Marc	San Marcos, TX #40569			
Tank Manufacturer / Mode	el: Xerxes DV	Xerxes DW 10' 15K Split			
Number of Tanks:	1	Assumptions			
Tank Dry Weight:	8500 lbs				
Tank Volume:	15000 gallons	100% saturation to finished grade			
Tank Diameter (ø) :	10 feet	φ water =	62.4 lb/CF		
Tank Bury Depth:	4.17 feet	φ submerged concrete =	87.6 lb/CF		
Tank Length <i>(L):</i>	28.09 feet	arphi submerged aggregate =	57.6 lb/CF		
Number of Sumps:	2				
Sump Diameter:	42 inches				
Tank Slab Length:	36.08 feet				
Tank Slab Width:	15.96 feet				
Tank Slab Thickness:	8 inches				
Deadman Length (DL):	24 feet				
Deadman Width <i>(DW):</i>	18 inches				
Deadman Height:	8.75 inches				

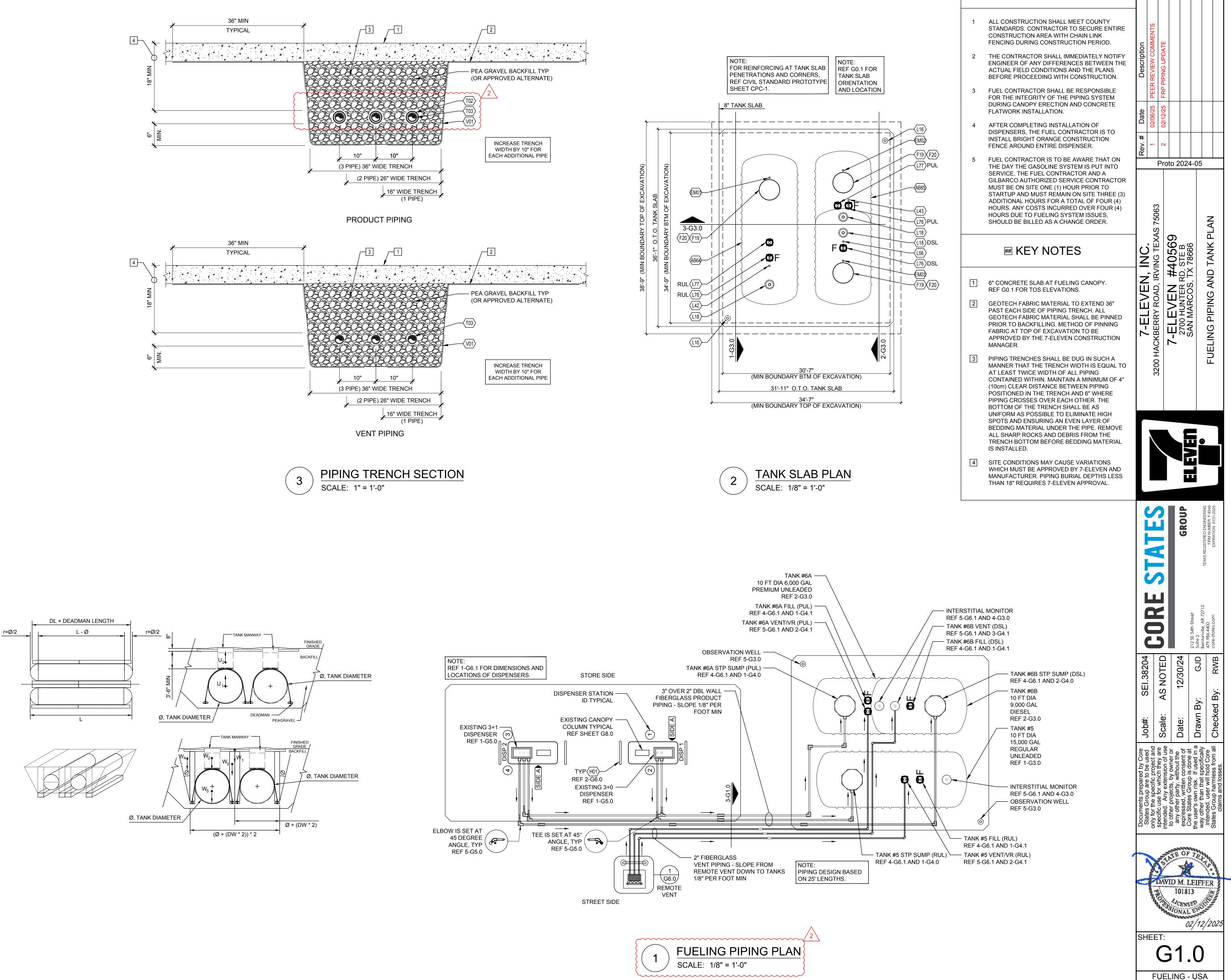
Tank & Sump(s) Uplift 15000 gal

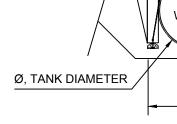
	U1 = -	15000 gal 7.49 gal/CF	.	x 62.4 lb	/CF =	124,967	lbs
Sumps		7.45 Bal/Cl					
	U2 =	80.2 CF		x 62.4 lb	/CF =	5,004	lbs
Total Uplift							
			U=	ΣUi	=	129,971	lbs UP
Dood Weights for Us	ld Dav						
Dead Weights for Ho							
Concrete Slab							
	W1 =	383.9 CF		x 87.6 lb	/CF =	33,629	lbs
Backfill Above Tank							
	W2 =	1,204 CF	;	x 57.6 lb/0	CF =	69,375	lbs
Gravel Column Above		•	•	•			
	W3 =	972.24 CF		x 57.6 lb/	CF =	56,001	lbs
Soil Wedge Above De	eadman	(2 total)					
-		210.1208 CF	;	x 57.6 lb/0	CF =	12,103	lbs
Concrete Deadman (2 deadr	nen per tank)					
	W4 =	52.5 CF	;	x 87.6 lb/0	CF =	4599	lbs
Dry Weight of Tank							
	W5 =					8,500	lbs
Total Weight							
			W=	ΣWi	=	184,207	lbs DOWN
Net Force							
Fnet =		ΣW	i -	ΣUi	=	54,236	DOWN
Factor of Safety							
F.S.		184,207 lbs 129,971 lbs		.=		1.42	PASS

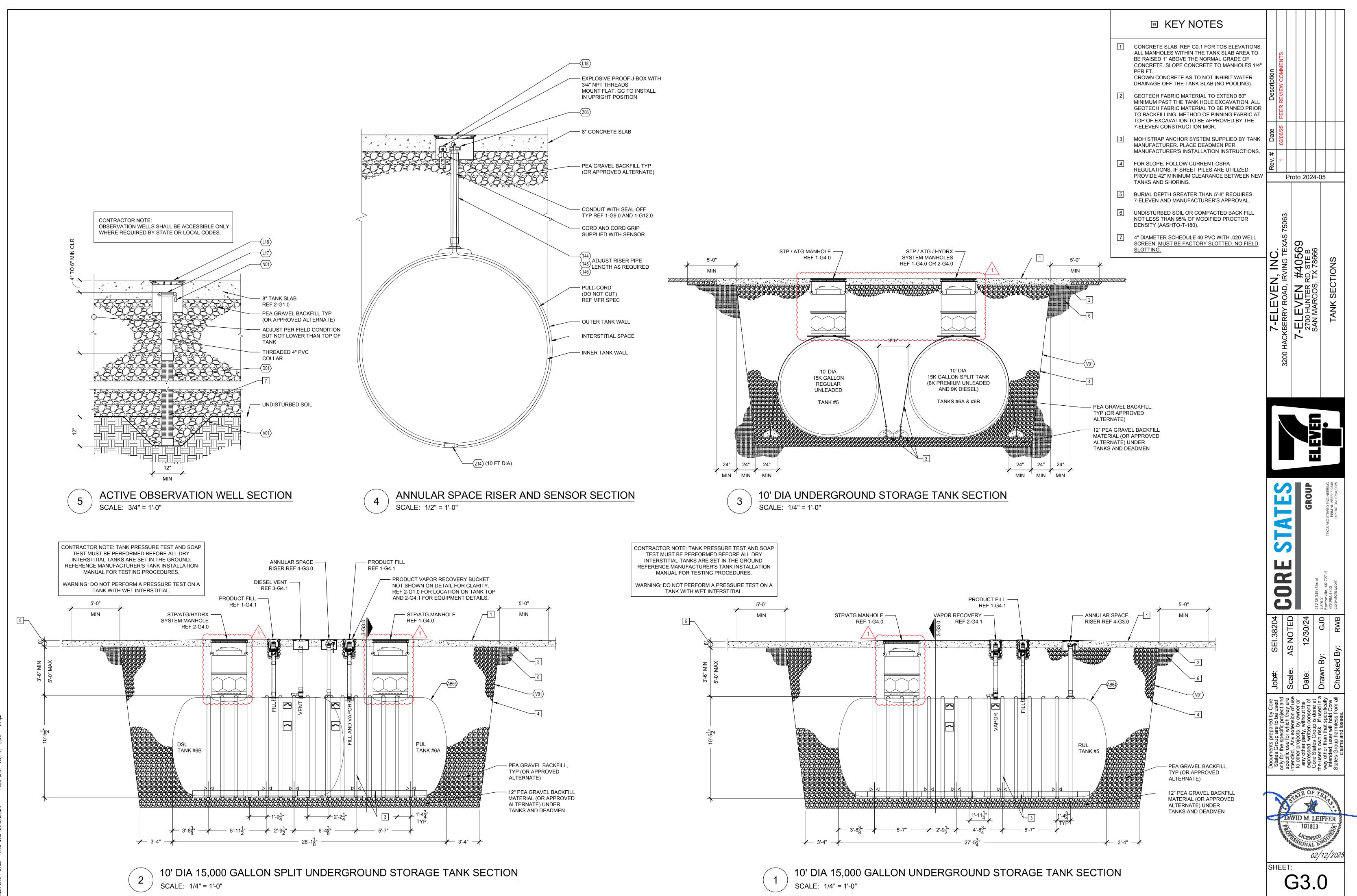




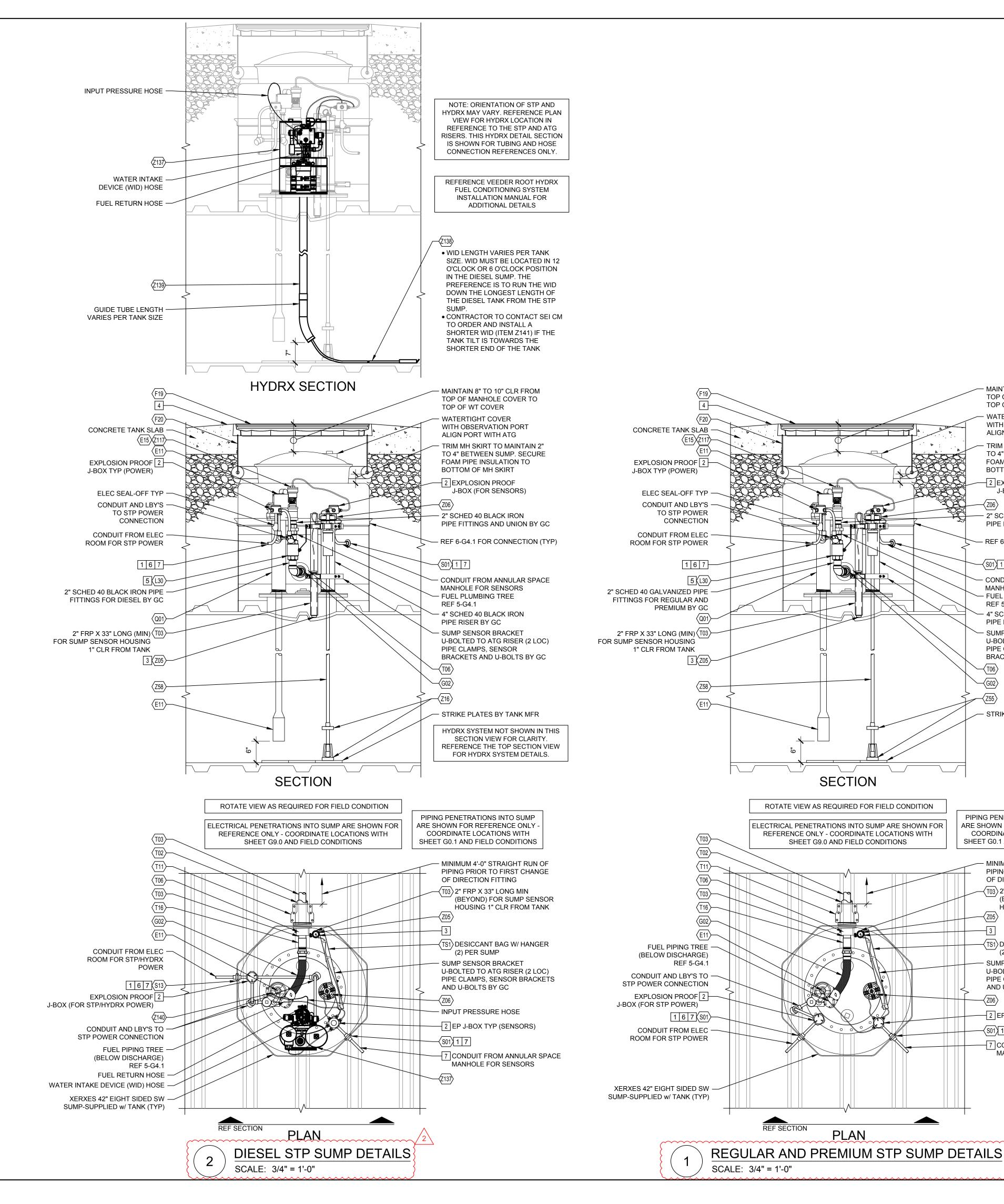
GENERAL NOTES







FUELING - USA



HEY NOTES

- 1 ELECTRICAL CONDUIT(S) TO ENTER SUMP 2" MIN ABOVE HIGHEST PRODUCT PENETRATION.
- 2 LOCATE ELECTRICAL JUNCTION BOX IN UPWARD POSITION AT HIGHEST LOCATION IN SUMP RISER FOR EASY ACCESS FROM ABOVE.
- 3 SUMP SENSOR TO REST AT LOWEST POINT OF SUMP ENCLOSURE ON PRODUCT PIPING SIDE OF SUMP. TANK CONTRACTOR TO SUPPLY ALL BRACKETS AND CLAMPS FOR 2-POINT MOUNTING OF THE 2" FRP SLEEVE.
- 4 SET MANHOLE COVERS 1" ABOVE THE FINISH GRADE AND SLOPE CONCRETE AWAY FROM MANWAY COVERS AT 2% GRADE.
- 5 POSITION BALL VALVE FOR UNOBSTRUCTED USE OF SHUT-OFF HANDLE.
- 6 STP POWER CONDUITS MUST BE RUN IN SEPARATE RACEWAY. ENTIRE WIRING RUN MUST BE IN RIGID PVC COATED GALVANIZED STEEL CONDUIT. USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP", NO PVC OR RNC CONDUIT ALLOWED.
- 7 USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT". "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS AT FIBERGLASS TANK SUMPS OR WHERE BRAVO F-17-RR OR F-10-RR ENTRY FITTINGS ARE CALLED OUT.

	Rev. # Date Description	1 02/06/25 PEER REVIEW COMMENTS	2 02/12/25 FRP PIPING UPDATE		024			
г D	7-FI EVEN INC	FXAS 75063		ר ה	2700 HUNTER RD, STE B SAN MAPCOS TY 78666		TANK SUMP DETAILS	
					GROUP EI EVEN		TEXAS REGISTERED ENGINEERING FIRM NUMBER: F-9349	EXPIRATION: 07/31/2025
						GJD 212 SE 34th Street Suite 2		
	lob#: SFL38204		Scale: AS NOTED	Doto:		Drawn By:		Checked By:
	Documents prepared by Core States Group are to be used	only for the specific project and	specific use for which they are intended. Any extension of use	to other projects, by owner or any other party, without the	expressed, written consent of Core States Group is done at	the user's own risk. If used in a	intended, user will hold Core	states Group narmiess from all claims and losses.
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FUELING - USA

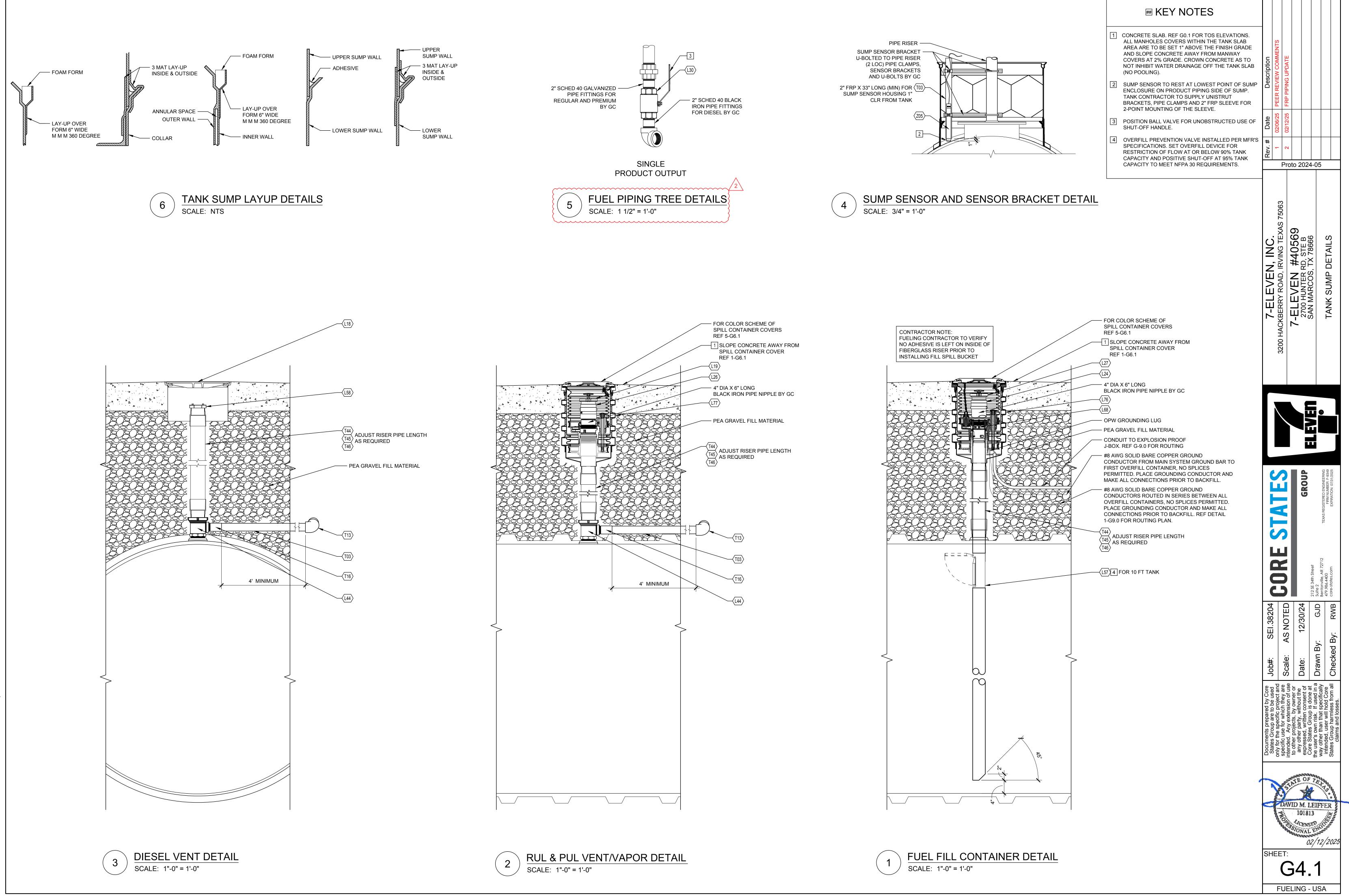
- MAINTAIN 8" TO 10" CLR FROM TOP OF MANHOLE COVER TO TOP OF WT COVER WATERTIGHT COVER
- WITH OBSERVATION PORT ALIGN PORT WITH ATG
- TRIM MH SKIRT TO MAINTAIN 2" TO 4" BETWEEN SUMP. SECURE FOAM PIPE INSULATION TO BOTTOM OF MH SKIRT
- 2 EXPLOSION PROOF J-BOX (FOR SENSORS) -{Z06}
- 2" SCHED 40 GALVANIZED PIPE FITTINGS AND UNION BY GC
- REF 6-G4.1 FOR CONNECTION (TYP)

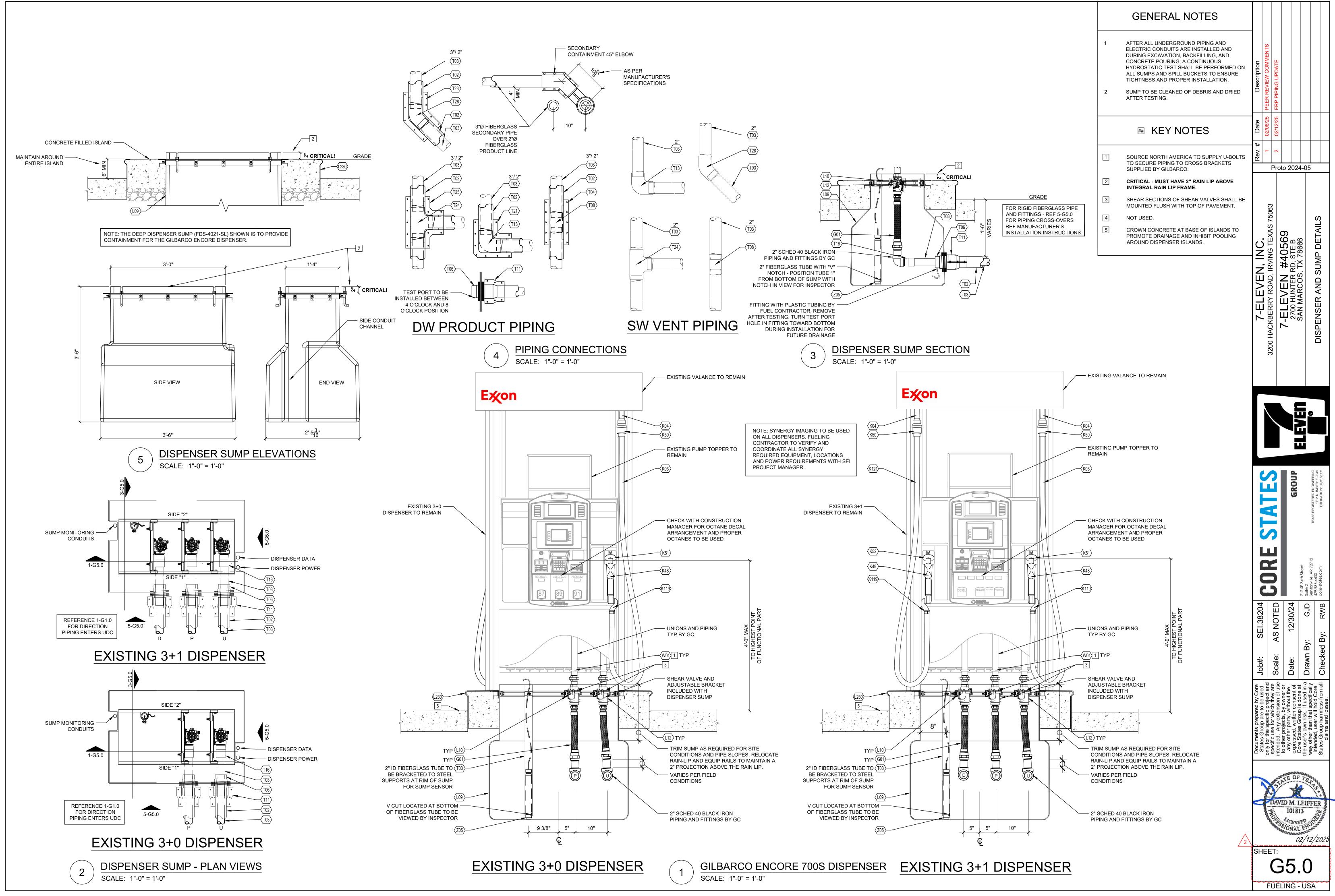
-(S01)17

- CONDUIT FROM ANNULAR SPACE MANHOLE FOR SENSORS - FUEL PLUMBING TREE REF 5-G4.1 - 4" SCHED 40 BLACK IRON PIPE RISER BY GC SUMP SENSOR BRACKET
- U-BOLTED TO ATG RISER (2 LOC) PIPE CLAMPS, SENSOR BRACKETS AND U-BOLTS BY GC -(T06)
- -(G02) -{Z55}
- STRIKE PLATES BY TANK MFR

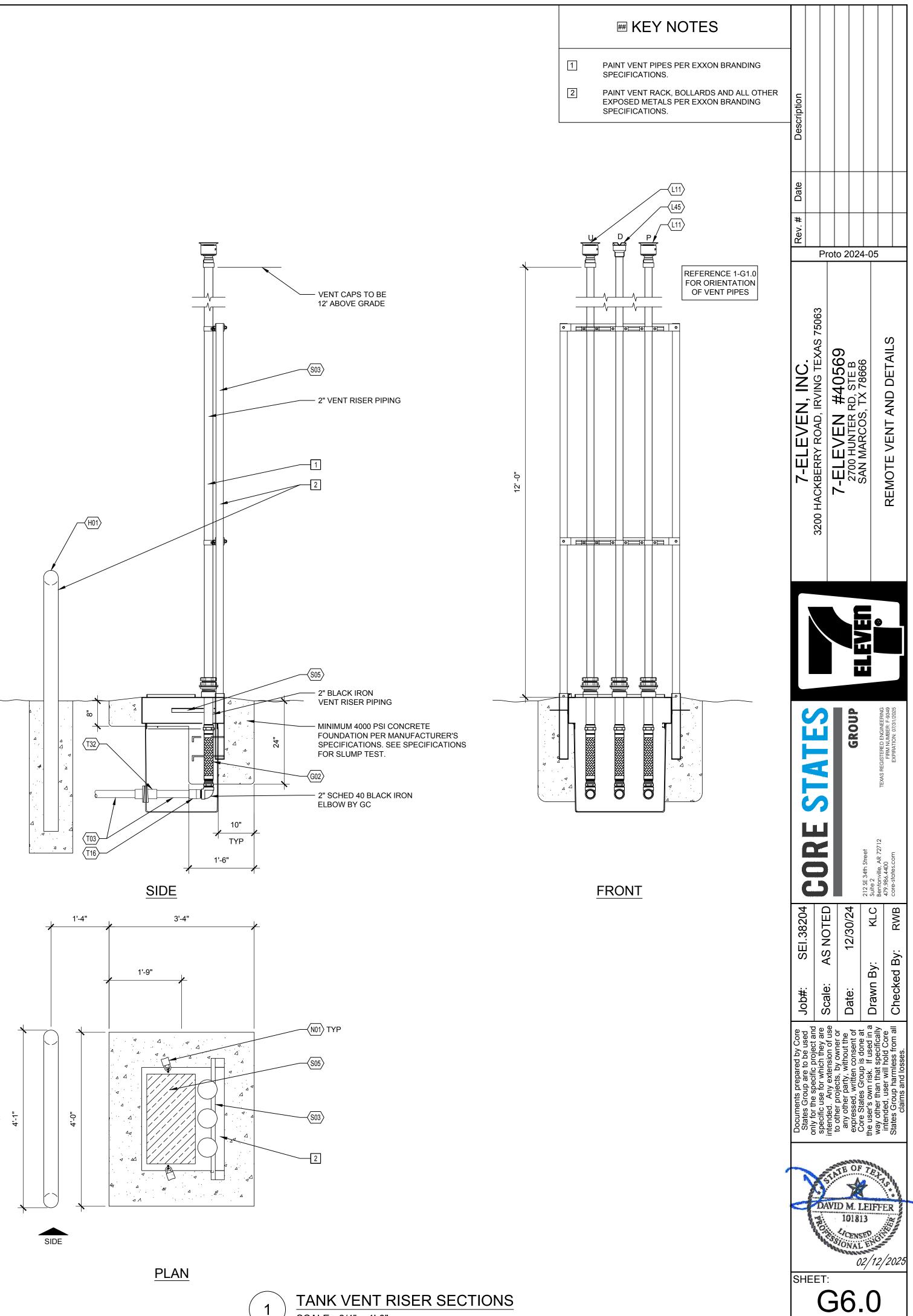
PIPING PENETRATIONS INTO SUMP ARE SHOWN FOR REFERENCE ONLY -COORDINATE LOCATIONS WITH SHEET G0.1 AND FIELD CONDITIONS

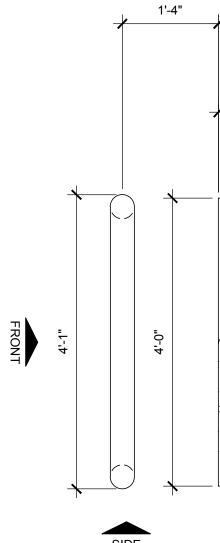
- MINIMUM 4'-0" STRAIGHT RUN OF PIPING PRIOR TO FIRST CHANGE OF DIRECTION FITTING
- (T03) 2" FRP X 33" LONG MIN (BEYOND) FOR SUMP SENSOR HOUSING 1" CLR FROM TANK
- $\langle Z05 \rangle$ 3
- (TS1) DESICCANT BAG W/ HANGER (2) PER SUMP SUMP SENSOR BRACKET
- U-BOLTED TO ATG RISER (2 LOC) PIPE CLAMPS, SENSOR BRACKETS AND U-BOLTS BY GC
- -{Z06} 2 EP J-BOX TYP (SENSORS)
- -(S01)17
- 7 CONDUIT FROM ANNULAR SPACE MANHOLE FOR SENSORS

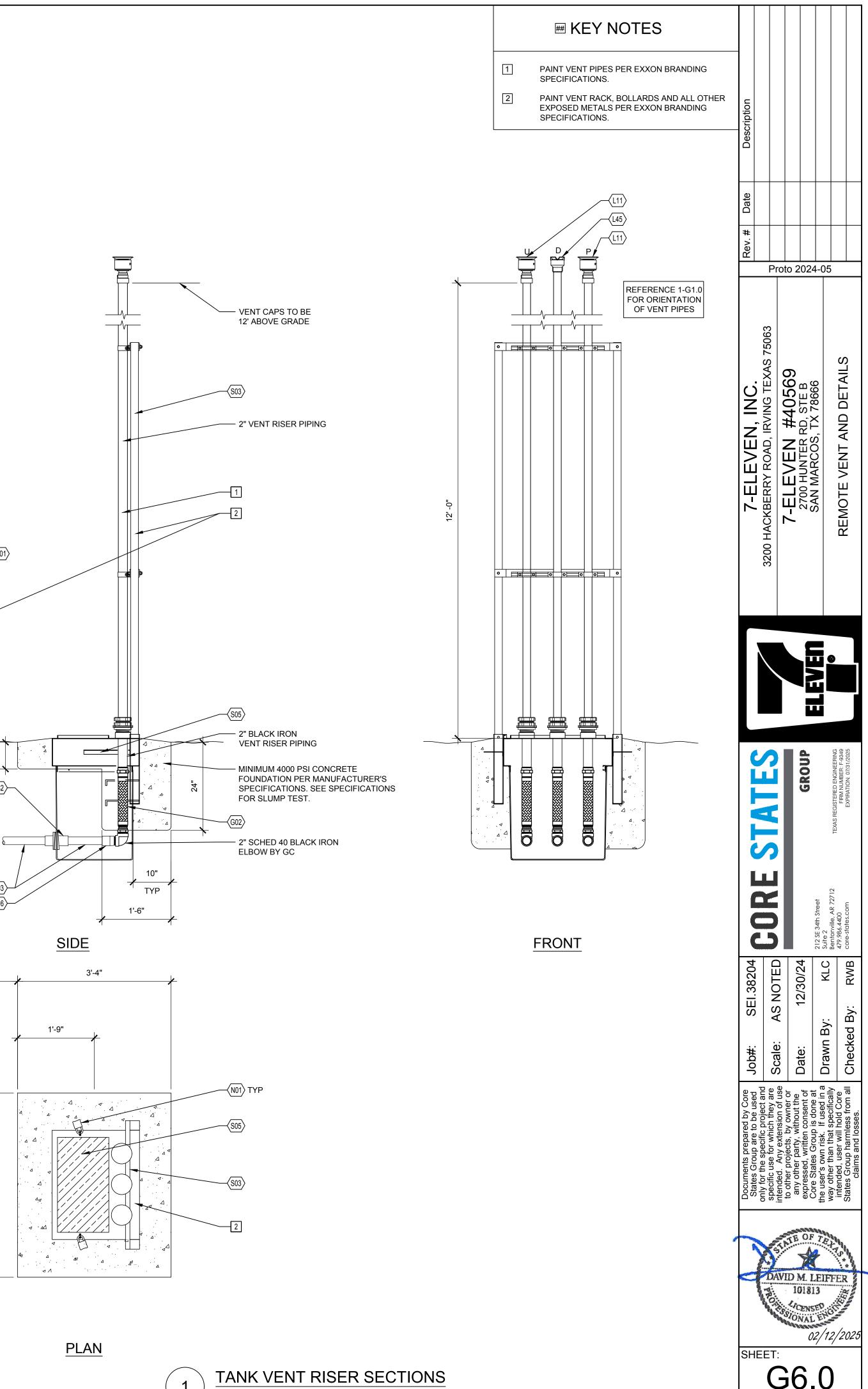


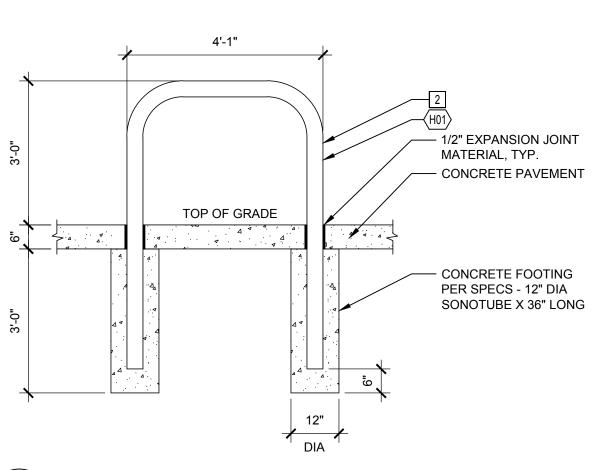


ELAROSA 40569 BY: GD NAME: Printed Drawing









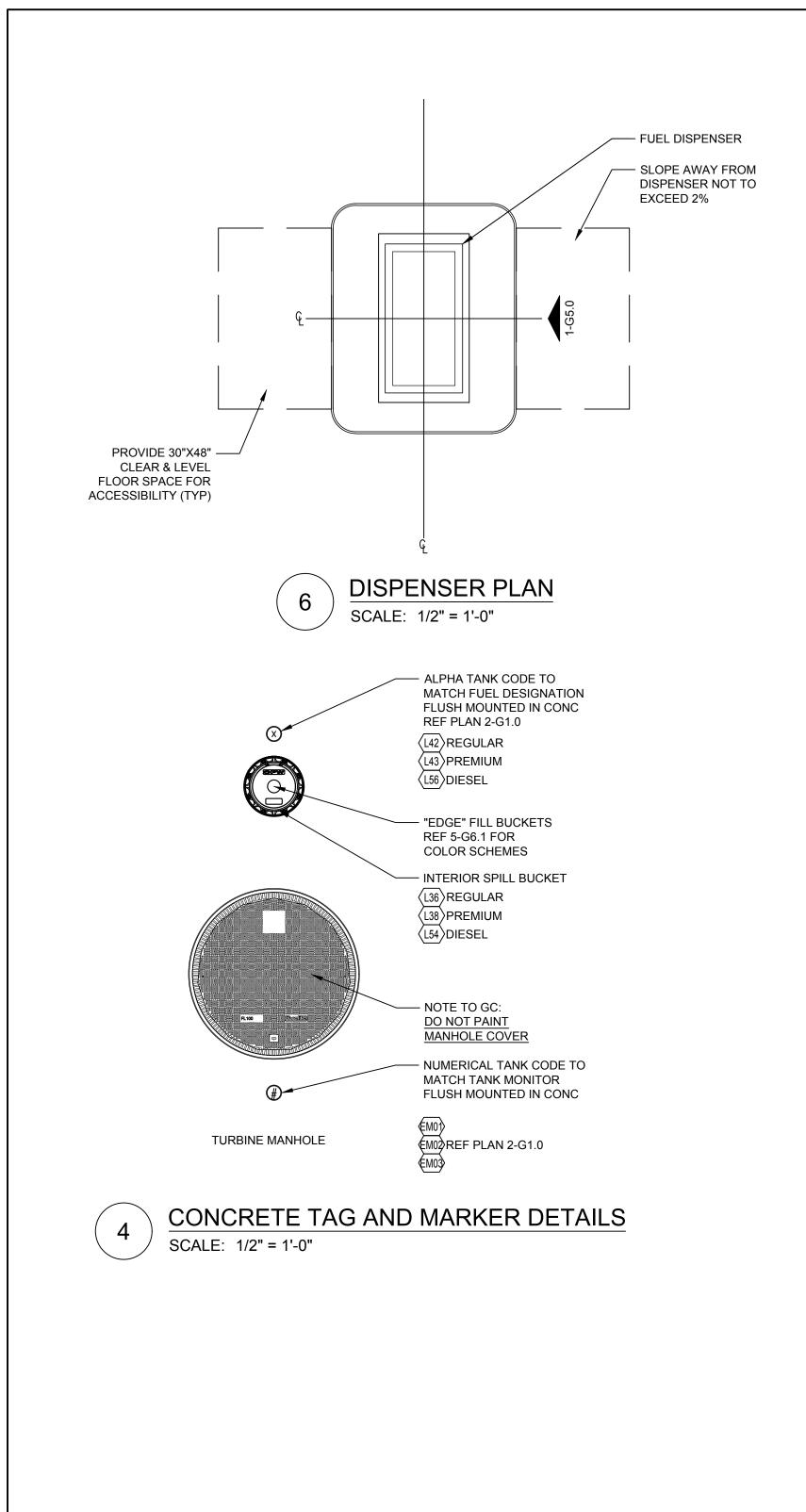
HOOP BOLLARD DETAIL SCALE: 1/2" = 1'-0"

2



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

FUELING - USA



NOT USED 3 SCALE: NTS

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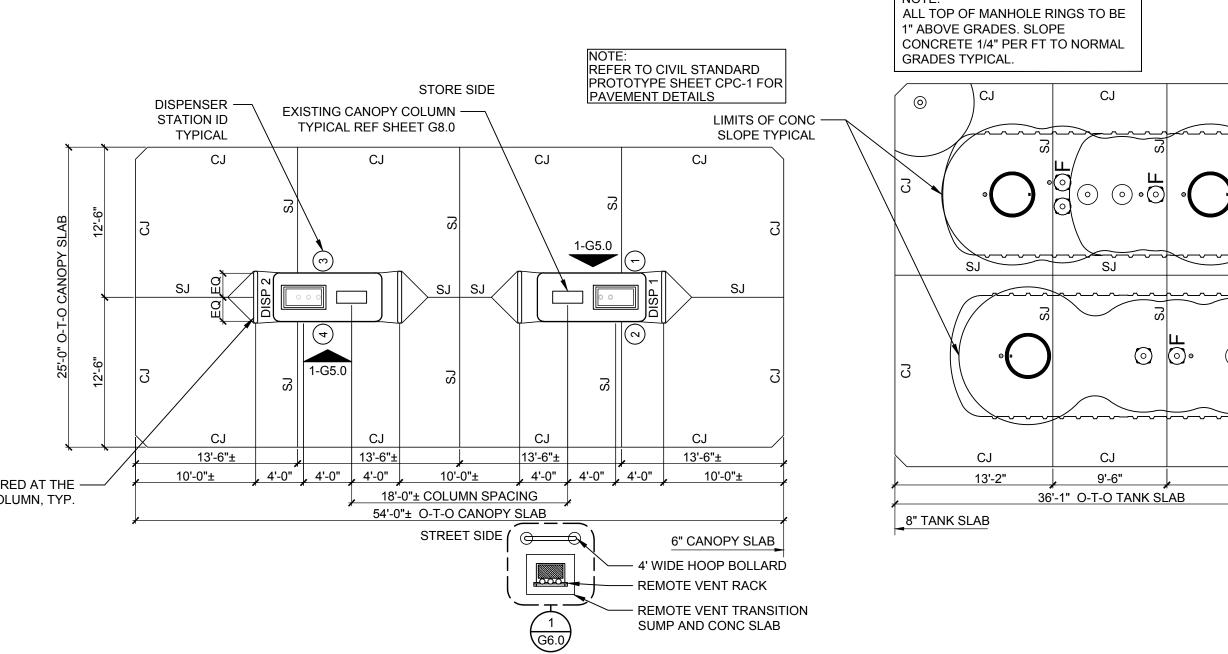
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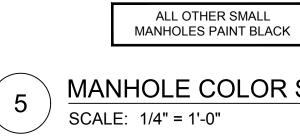
NOT USED 2 SCALE: NTS

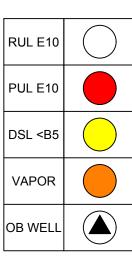
BOLLARD TO BE CENTERED AT THE -CENTERLINE OF THE COLUMN, TYP.

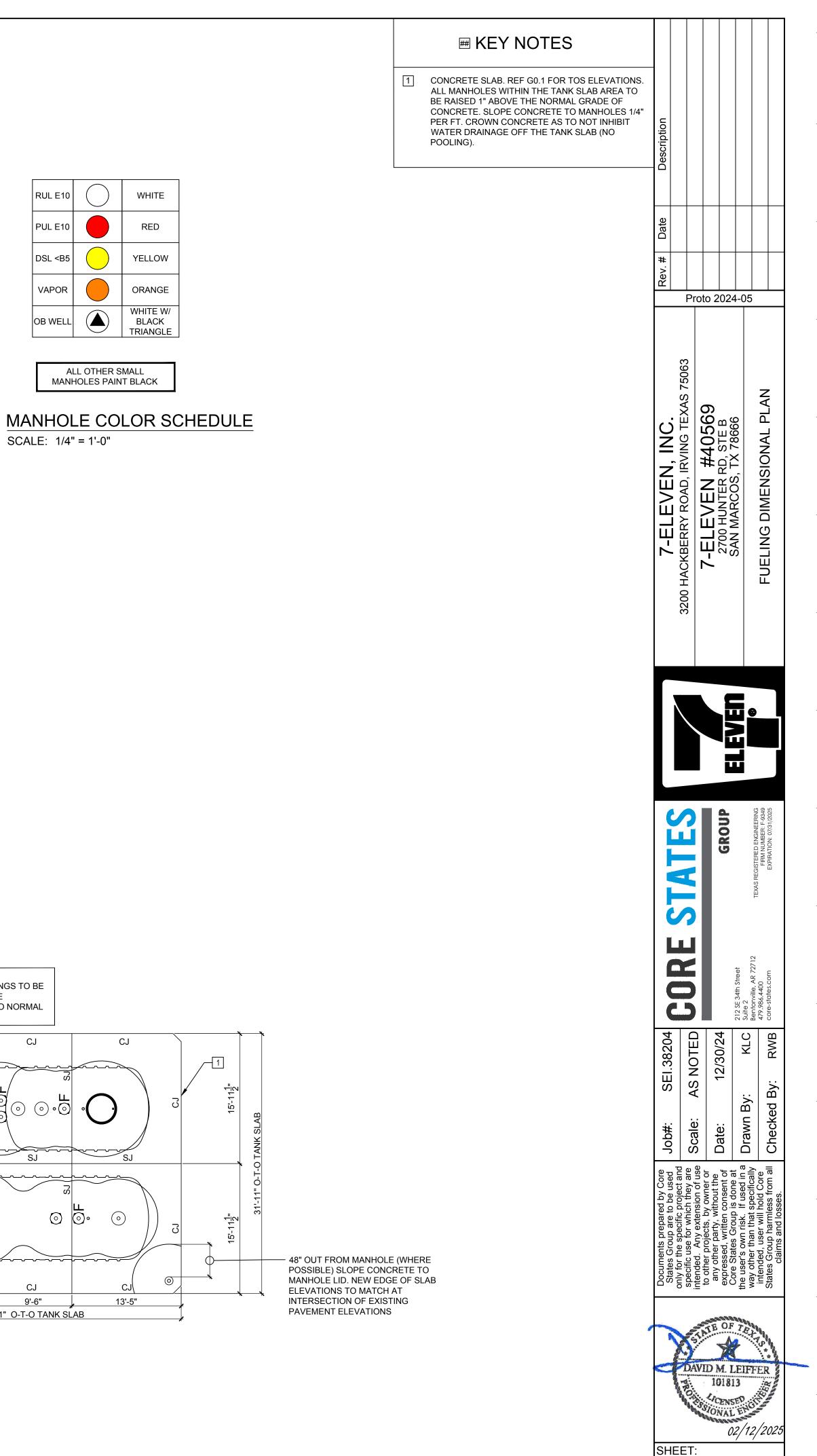
FUEL AREA SLAB LAYOUT AND DIMENSIONAL PLAN SCALE: 1/8" = 1'-0"

NOTE:









G6.1

FUELING - USA

ITEM NO.	QTY.		PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED
A02 A05	-	6 CHANNEL INTERCOM SYSTEM I/O CARD 4 STATION	78-9236-2877-6 78-8117-3900-8	06005003 06005143	3M 3M	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
BRUTE	SCHEDI					L	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED
B01	1	44 GALLON GRAY TRASH CAN FOR GAS ISLAND CANOPY	XXXXXXX	02835436	BRUTE	7-ELEVEN	GC
B02 B03	1	CONTAINER DOLLY FOR GAS ISLAND CADDY RIM CADDY	XXXXXXX XXXXXXX	02835437 02835438	BRUTE BRUTE	7-ELEVEN 7-ELEVEN	GC GC
DCI SCH							
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED
C03	2	GRAY SINGLE SIDED WASH-N-WIPE TRASH CONTAINER (EXXON/MOBIL		03126538	DCI	7-ELEVEN / SOURCE NA	GC
FNVIRO	NMENT	AL PROTECTION SCHEDULE					
ITEM NO.	QTY.	DESCRIPTION	PART NO. OF	RACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLE
D01	2	4" SLOTTED PVC X 16' , .020 SCREEN	PVCUST4-16-020	3124665 ENVI	RONMENTAL PROTECTION	7-ELEVEN / SOURCE NA	GC
FE PETF	RO SCH	DULE (CONTACT: MIKE FRISK - FRISK@FRANKLINF	UELING.COM/512-850-7954	FOR QUANTI	TY)		
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLE
E01	-		MAG-VFC	06006133	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC
E04 E10	-	2 HP VARIABLE SPEED SUBMERSIBLE PUMP W/ INTAKE FILTER	STP-CBS STPKVS2-VL2	06006137	FE PETRO INC. FE PETRO INC.	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
E11	3	1.5 HP FIXED SPEED SUBMERSIBLE PUMP w/ INTAKE FILTER	STPK150-VL2	03126507	FE PETRO INC.	7-ELEVEN / SOURCE NA	GC
E15 E17	3	CHECK VALVE TYPE "R" DISPENSER HOOK ISOLATION BOX	400988932 STP-DHI	03185395	FE PETRO INC. FE PETRO INC.	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
							00
ITEM NO.		SCHEDULE (CONTACT: PARRISH EVANS - PARRISH DESCRIPTION	PART NO.	ORACLE NO.	12) MANUFACTURER	FURNISHED BY	INSTALLE
F19	QTY. 3	40" SUBMERGED PUMP MANHOLE W/O SNOW PLOW RING	FL100BLACK-FC-KIT	03124662	FIBRELITE/OPW	7-ELEVEN / SOURCE NA	GC
F20	3	SKIRT FOR FL100	FL100-SK18	03124663	FIBRELITE/OPW	7-ELEVEN / SOURCE NA	GC
FLEXING	G SCHEI	OULE (CONTACT: MARK HODGES - MHODGES@SOU	RCENA.COM/877896-4328 F		()		
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLE
G01	5	1.5" X 18" MX X 2 F FIREFLEX FLEX CONNECTOR	FF15X18M346X2F	03158184	FLEXING	7-ELEVEN / SOURCE NA	GC
G02	6	2" MS X 2" F X 18 FIREFLEX FLEX CONNECTOR	FF20X18M346XF	03158182	FLEXING	7-ELEVEN / SOURCE NA	GC
GILBAR		I.	T		Γ	I	1
ITEM NO. J99	QTY.	DESCRIPTION PASSPORT COMBO SYSTEM	PART NO. XXXXXX	ORACLE NO. 03152813	MANUFACTURER GILBARCO	FURNISHED BY 7-ELEVEN / GILBARCO	INSTALLEI GC
J99 J117	-	ENCORE 700S W/ FLEXPAY6 3+0 BLENDER NN1 - NO VR	XXXXXX XXXXXX	03152813	GILBARCO	7-ELEVEN / GILBARCO 7-ELEVEN / GILBARCO	GC
J118	-	ENCORE 700S W/ FLEXPAY6 3+1 BLENDER+DSL NL1 - NO VR	XXXXXX	03153190	GILBARCO	7-ELEVEN / GILBARCO	GC
J123 J174	1	DBOX FOR EDH/PASSPORT PA03060020 EXXON/SYNERGY IMAGE UPCHARGE FOR ENCORE DISPENSERS	XXXXXX XXXXXX	03152567 03153051	GILBARCO GILBARCO	7-ELEVEN / GILBARCO 7-ELEVEN / SOURCE NA	GC GC
			//////		GIEBAROO		00
CYBERA		DESCRIPTION	PART NO.				
ITEM NO. J199	QTY.	CYBERA BOX	MNSP SCA325	ORACLE NO. 08455004	MANUFACTURER CYBERA	FURNISHED BY 7-ELEVEN	INSTALLEE GC
J200	1	REDLINE CYBERA INTEGRATION	XXXXXXX	06110004	CYBERA	7-ELEVEN / CYBERA	GC
HANGIN	IG HARD	WARE SCHEDULE (CONTACT: PARRISH EVANS - PA	RRISH.EVANS@OPWGLOB	BAL.COM/706-2	.02-7812)		
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED
K03	4	3/4" X 8' FLEXSTEEL HARDWALL HOSE	GY3/4X8MXM	03124651	SOURCENA	7-ELEVEN / SOURCE NA	GC
K04 K48	6	3/4" X 8" FLEXSTEEL WHIP HOSE 3/4" CONVENTIONAL NOZZLE	GY3/4X8MXMWHIP 11BP-0400	03124652 03158382	SOURCENA OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
K49	2	3/4" NOZZLE FOR DIESEL	11B-0100	03158387	OPW	7-ELEVEN / SOURCE NA	GC
K50	6		66REC-1000	03158383	OPW	7-ELEVEN / SOURCE NA	GC
K51 K52	4	3/4" SPLASHGUARD FOR CONVENTIONAL NOZZLE DIESEL SPLASHGUARD	8BL-0400 8G-0100	03158389 03158390	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
K119	6	CONVENTIONAL NOZZLE HOSE SWIVEL	45-5060	03126565	OPW	7-ELEVEN / SOURCE NA	GC
K121	2	3/4" X 9' BLACK HARDWALL HOSE, MALE X MALE ENDS	GY3/4X9MXM	03124635	SOURCENA	7-ELEVEN / SOURCE NA	GC
OPW SC	HEDULI	E (CONTACT: PARRISH EVANS - PARRISH.EVANS@	OPWGLOBAL.COM/706-202-	-7812)			
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED
L01 L09	~ (-)	4" ACCESS PIPE - 250 FT BOX DISPENSER SUMP ENCORE	AXP40-250 FDS-4021-SL	03158339 06006090	OPW OPW FLEX-WORKS	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
L10	5	ADJUSTABLE STABILIZER KIT	SBO-0700	XXXXXXX	OPW	7-ELEVEN / SOURCE NA	GC
L11	2	2" PRESSURE VACUUM VENTING CAP	623V-2203	06158288	OPW	7-ELEVEN / SOURCE NA	GC
L12 L16	5	1.5" SHEAR VALVE - DBL POPPET 10plus 12" MONITORING WELL MANHOLE	10P-0152 104AOW-1200	03124684	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
L10	2	LOCKABLE MONITORING CAP	634TTM-7087	06006227	OPW OPW	7-ELEVEN / SOURCE NA	GC
L18	3	18" MANHOLE ASSY (ANNULAR AND DIESEL VENT)	104A-1800WT	06006209	OPW OPW	7-ELEVEN / SOURCE NA	GC
L19 L24	2	VAPOR CAP FILL SWIVEL ADAPTER	1711T-7085-EVR 61SALP-1020-EVR	06006180	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
L24 L26	2	VAPOR RECOVERY SWIVEL ADAPTER	61VSA-1020-EVR	06006221	OPW OPW	7-ELEVEN / SOURCE NA	GC
L27	3	TOP SEAL CAP EVR	634TT-7085-EVR	06006226	OPW OPW	7-ELEVEN / SOURCE NA	GC
L30 L36	3	2" BALL VALVE TANK TAG - INTERIOR SPILL BUCKET (REGULAR UNLEADED)	21BV-0200 1TAG-API-RG10T	03158393 XXXXXXX	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
L30 L38	1	TANK TAG - INTERIOR SPILL BUCKET (REGULAR UNLEADED)	1TAG-API-RG10T	XXXXXXX	OPW OPW	7-ELEVEN / SOURCE NA	GC
L40		CONCRETE TANK MARKER (TANK GAUGE #1)	106N-1100	06006170	OPW	7-ELEVEN / SOURCE NA	GC
L41	- 1	CONCRETE TANK MARKER (TANK GAUGE #2) CONCRETE TANK MARKER (REGULAR UNLEADED)	106N-2200 106U-0125	06006171	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
1 2.7	1	CONCRETE TANK MARKER (REGULAR UNLEADED)	106P-0150	06006175	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC
L42 L43	3	4x2 TEE EXTRACTOR FITTING	233-4420	03158332	OPW	7-ELEVEN / SOURCE NA	GC
L43 L44	1	DIESEL ATMOSPHERIC VENT VALVE TANK TAG - INTERIOR SPILL BUCKET (DIESEL)	23-0033 1TAG-API-BD5T	06005039 XXXXXXX	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
L43 L44 L45	· · ·	CONCRETE TANK MARKER (DIESEL)	106DL-0095	06006169	OPW OPW	7-ELEVEN / SOURCE NA	GC
L43 L44	1	4" DROP TUBE WITH DUAL OVERFLOW VALVE 5FT BURY - 10FT TANK	71SO-410C	03158324	OPW	7-ELEVEN / SOURCE NA	GC
L43 L44 L45 L54 L56 L57	1 3	DIESEL VENT PIPE CAP	116-7085	03185354	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC
L43 L44 L45 L54 L56 L57 L58	1	JACK SCREW FOR CAST BASE SPILL CONTAINED	61.ISK_44CB	06006172	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC
L43 L44 L45 L54 L56 L57	1 3 1 3 -	JACK SCREW FOR CAST BASE SPILL CONTAINER CONCRETE TANK MARKER (TANK GAUGE #3)	61JSK-44CB 106N-3300		OPW	7-ELEVEN / SOURCE NA	GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL)	106N-3300 1C-3132D-50	03124688			
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77	1 3 -	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR)	106N-3300 1C-3132D-50 1C-3112P	03124688 03115701	OPW OPW	7-ELEVEN / SOURCE NA	GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL)	106N-3300 1C-3132D-50	03124688	OPW OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77 L115 L124 L125	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR) MALE ADAPTER FITTING 1.5" DW FLEX PIPE - 250 FT BOX OPW 1.5" 90 ELBOW	106N-3300 1C-3132D-50 1C-3112P SMA-1520 C15A-250 SEF-1515	03124688 03115701 06006113 03158338 03124572	OPW OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77 L115 L124 L125 L126	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR) MALE ADAPTER FITTING 1.5" DW FLEX PIPE - 250 FT BOX OPW 1.5" 90 ELBOW OPW 1.5" TEE	106N-3300 1C-3132D-50 1C-3112P SMA-1520 C15A-250 SEF-1515 STF-1515	03124688 03115701 06006113 03158338 03124572 03124574	OPW OPW OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77 L115 L124 L125	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR) MALE ADAPTER FITTING 1.5" DW FLEX PIPE - 250 FT BOX OPW 1.5" 90 ELBOW	106N-3300 1C-3132D-50 1C-3112P SMA-1520 C15A-250 SEF-1515	03124688 03115701 06006113 03158338 03124572	OPW OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77 L115 L124 L125 L126 L129 L130 L131	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR) MALE ADAPTER FITTING 1.5" DW FLEX PIPE - 250 FT BOX OPW 1.5" 90 ELBOW OPW 1.5" 7EE 1.5" OPW SWIVEL DW PIPE COUPLING TEST JUMPER TUBE TERMINATION TEST JUMPER TUBE	106N-3300 1C-3132D-50 1C-3112P SMA-1520 C15A-250 SEF-1515 STF-1515 DPC-2150A TCT-2509 TTT-2536	03124688 03115701 06006113 03158338 03124572 03124574 03124596 03124576 03124575	OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC GC GC GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77 L115 L124 L125 L126 L129 L120 L129 L130 L131 L163	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR) MALE ADAPTER FITTING 1.5" DW FLEX PIPE - 250 FT BOX OPW 1.5" 90 ELBOW OPW 1.5" 90 ELBOW OPW 1.5" TEE 1.5" OPW SWIVEL DW PIPE COUPLING TEST JUMPER TUBE TERMINATION TEST JUMPER TUBE RIGID ENTRY FITTING 4 x 1.5"	106N-3300 1C-3132D-50 1C-3112P SMA-1520 C15A-250 SEF-1515 STF-1515 DPC-2150A TCT-2509 TTT-2536 REF-4015	03124688 03115701 06006113 03158338 03124572 03124574 03124596 03124575 03124575	OPW OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC GC GC GC GC GC
L43 L44 L45 L54 L56 L57 L58 L68 L72 L76 L77 L115 L124 L125 L126 L129 L130 L131	1 3 - 3	CONCRETE TANK MARKER (TANK GAUGE #3) DOUBLEWALL SPILL BUCKET w/ SENSOR (FILL) DOUBLEWALL SPILL BUCKET (VAPOR) MALE ADAPTER FITTING 1.5" DW FLEX PIPE - 250 FT BOX OPW 1.5" 90 ELBOW OPW 1.5" 7EE 1.5" OPW SWIVEL DW PIPE COUPLING TEST JUMPER TUBE TERMINATION TEST JUMPER TUBE	106N-3300 1C-3132D-50 1C-3112P SMA-1520 C15A-250 SEF-1515 STF-1515 DPC-2150A TCT-2509 TTT-2536	03124688 03115701 06006113 03158338 03124572 03124574 03124596 03124575 03124575	OPW	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	GC GC GC GC GC GC GC

BY: GDELAROSA NAME: 40569 -**PRINTED** DRAWING

EMCO ITEM N EM01 EM02 EM03

CO WH	IEATO	N SCHEDULE					
M NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALLED BY
M01	1	CUSTOM PRODUCT ID "5"	A0998-XXX	XXXXXX	EMCO WHEATON	7-ELEVEN / SOURCE NA	GC
M02	1	CUSTOM PRODUCT ID "6A"	A0998-XXX	XXXXXX	EMCO WHEATON	7-ELEVEN / SOURCE NA	GC
M03	1	CUSTOM PRODUCT ID "6B"	A0998-XXX	XXXXXX	EMCO WHEATON	7-ELEVEN / SOURCE NA	GC

Rev. # Date Description 1 02/06/25 PEER REVIEW COMMENTS	8	0 2024	4-05	
	3200 HACKBERKY KOAD, IKVING LEXAS 75063			EQUIPMENT SCHEDULES
		GROUP		FIRM NUMBER: F-9349 EXPIRATION: 07/31/2025
		24	GJD 212 SE 34th Street Suite 2 Bentonville, AR 72712	RWB core-states.com
Job#: SEI.38204	Scale: AS NOTED	Date: 12/30/24	Drawn By: G	
	specific use for which they are intended. Any extension of use to other projects by owner of		If used in a specifically	intended, user will hold Core States Group harmless from all claims and losses.
	DAVI	D M I	IELFF	ER
SHE	G	7.	2/12/ 0	/2025

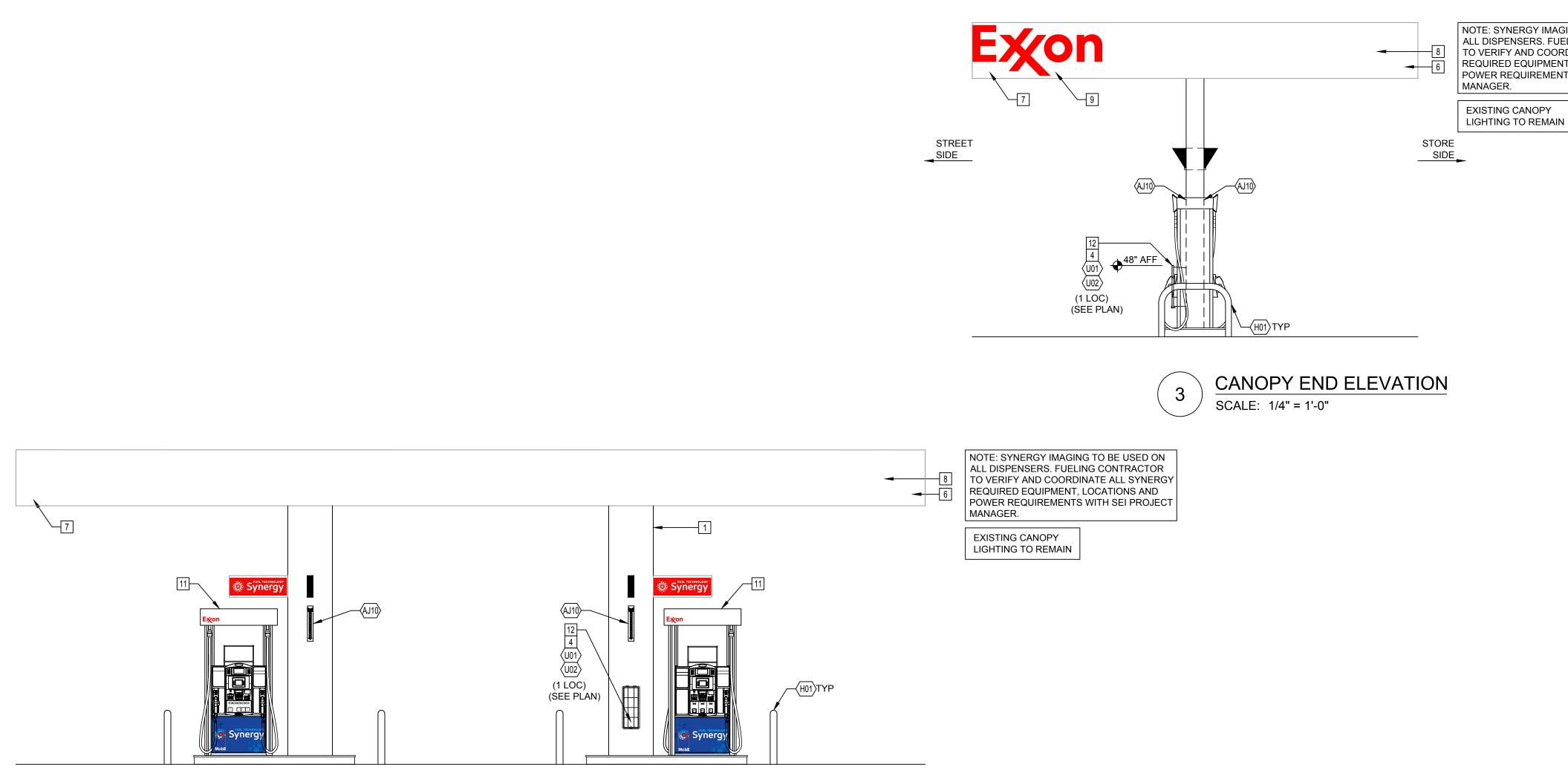


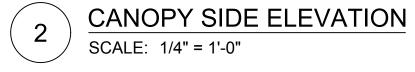
DISPENSER INLET FILTER OFFERINGS

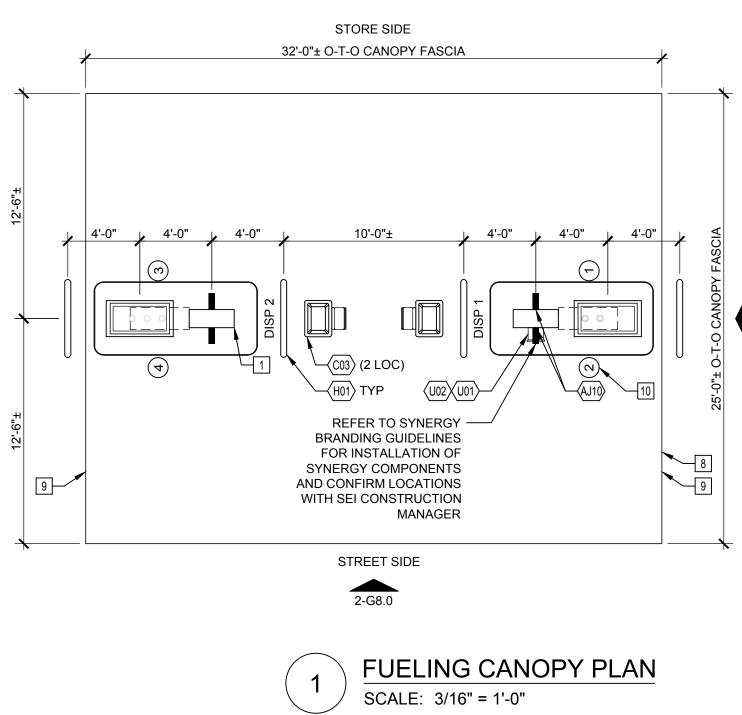
ITEM NO.	QTY.	SCHEDULE (CONTACT: SOURCE NORTH AMERICA - 7 DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTAL
N01	(4)	SERIES 175 TUMBLER LOCK	175	03185351	MASTER LOCK	7-ELEVEN / SOURCE NA	
	/FRTISI	NG SCHEDULE (CONTACT: SOURCE NORTH AMERIC)	A - 7-ELEVEN SUPPORT 7	TFAM - SNA711		OR QUANTITY)	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTAL
P01	-	DISPENSER PUMP TOPPER	CT-XL	03158215	MAY ADVERTISING	7-ELEVEN / SOURCE NA	6
	1	EDULE (CONTACT: SOURCE NORTH AMERICA - 7-EL	1		1	,	
ITEM NO. Q01	QTY.	DESCRIPTION 7' THIN WALL PIPE RISER	PART NO. 484RISER	ORACLE NO.	MANUFACTURER GENERAL PIPE MANUF.	FURNISHED BY 7-ELEVEN / SOURCE NA	
QUI	2		404RISER	03185353	GENERAL PIPE MANUF.	7-ELEVEN / SOURCE NA	
POWER I	NTEGR	ITY SCHEDULE (CONTACT: SOURCE NORTH AMERICA	A - 7-ELEVEN SUPPORT T	EAM - SNA711	@SOURCENA.COM F	OR QUANTITY)	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTAL
R01	-	E-STOP SWITCH RED INCLUDES RED COVER WITH TWIST	IA-ESOCA/T/RD	03158209	POWER INTEGRITY	7-ELEVEN / SOURCE NA	0
R02 R04	-		DDS-A8D8E IA-ESORS	03430287 XXXXXXX	POWER INTEGRITY POWER INTEGRITY	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	
R04		E-STOP (CASHIER CONTROL STATION WITH PROTECTIVE SHROUD)	IA-ESORS			/-ELEVEN / SOURCE NA	
S. BRAVC) SYST	EM SCHEDULE (CONTACT: SOURCE NORTH AMERICA	A - 7-ELEVEN SUPPORT TI	EAM - SNA711@	@SOURCENA.COM FC	OR QUANTITY)	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTAL
S01	5	3/4" ROB ROY FITTING	F-17-RR-7-11	03115710	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	0
S03	1		RS500JP-3S	03158039	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	(
S05 S12	1	FIBERGLASS VAPOR VENT REMOTE SUMP 3/4" ROB ROY FITTING FOR DOUBLE WALL SUMP	B500JPF-3SB F-17-RR-D-7-11	03158049 03124548	S. BRAVO SYSTEM INC. S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	(
S12 S13	- 1	1" ROB ROY FITTING FOR DOUBLE WALL SUMP	F-17-RR-D-7-11	03124548	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	
S42	-	DW BRINE FILLED DISPENSER SUMP	B1380-D30	XXXXXXXX	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	(
S43	-	STABILIZER BAR BRACKET ASSEMBLY	BK-1017	XXXXXXXX	S. BRAVO SYSTEM INC.	7-ELEVEN / SOURCE NA	(
SMITH FI	BFRCA	ST VAPOR / VENT PIPING SCHEDULE (CONTACT: LIS	SA BLASSENGAME - LISA		/F@NOV COM/210_841)
ITEM NO.			PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY) INSTA
T01		4" SECONDARY PIPING (USE 25 FT LENGTHS)	011040-069-2	06006331	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	
T02	350'	3" PRIMARY PIPING (USE 25 FT LENGTHS)	011030-069-2	06006329	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	(
T03	575'	2" PRIMARY PIPING (USE 25 FT LENGTHS)	011020-069-2	06006328	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	(
SMITH FI	BERCA	ST SCHEDULE (CONTACT: LISA BLASSENGAME - LIS	A.BLASSENGAME@NOV	.COM/210-842-5	5777 FOR QUANTITY)		
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTA
T04	5	3" SC SLEEVE COUPLING	012030-101-3	06006263	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T05	-	4" SC SLEEVE COUPLING	012040-101-3	06006277	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T06	8	3" BONDED FITTING (DOUBLE WALL)	012030-626-0	03158188	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T07	-	4" BONDED FITTING (DOUBLE WALL)	012040-626-0	03158190	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T08 T09	8	2" PRIMARY SLEEVE COUPLING 3" PRIMARY SLEEVE COUPLING	012020-101-8	06006255	SMITH FIBERCAST	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	(
T10	-	3" X 2" REDUCER BUSHING	012030-231-4	06006264	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T10	8	4"x3" CONCENTRIC REDUCER	012040-238-3	06006282	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T12	-	5X4 CONCENTRIC REDUCER	012050-238-3	03158192	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T13	16	2" PRIMARY 90 ELBOW	012020-360-4	06006261	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T14	-		012030-360-4	06006274	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T15 T16	- 14	4" SECONDARY 90 ELBOW 2" BELL X M	012040-360-3	06006285	SMITH FIBERCAST	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	
T18	-	3" BELL X F	012030-194-4	06006267	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T19	-	3" PRIMARY TEE	012030-410-4	06006276	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T20	-	4" SECONDARY TEE	012040-410-3	06006288	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T21	8	3" SECONDARY 90 ELBOW	012030-360-3	06006273	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T23	5	3" 45 DEGREE SECONDARY ELBOW	012030-310-3	06006271	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T24 T25	2	2" PRIMARY TEE 3" SECONDARY TEE	012020-410-4	06006262	SMITH FIBERCAST	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	(
T25	-	4" 45 DEGREE SECONDARY ELBOW	012030-410-3	06006273	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T27	-	3" 45 PRIMARY ELBOW	012030-310-4	06006772	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T28	5	2" 45 PRIMARY ELBOW	012020-310-4	06006260	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	(
T29	35	PSX-20 ADHESIVE KIT	60210101	03158239	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	(
T30	23	FILLER FOR DS-7069 AND DS-8069	002990-033-0	06006247	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T31 T32	- 3	4" BELL X MALE 2" BONDED FITTING (SINGLE WALL)	012040-191-4 012020-622-0	06006278	SMITH FIBERCAST NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA 7-ELEVEN / SOURCE NA	(
T35	-	2" X 1-1/2" F NPT REDUCER BUSHING	012020-022-0	06006259	SMITH FIBERCAST	7-ELEVEN / SOURCE NA	
T44	8	5' RTIIA RIER PIPE 4 PXP	012040-060-0	XXXXXXX	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	
T45	16	RTIIA RISER PIPE ADAPT 4 BXMN	012040-191-9	XXXXXXX	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	
T46	8	6 OUNCE PX-20 ADHESIVE KIT SINGLE	60210101	03158239	NOV (REDTHREAD IIA)	7-ELEVEN / SOURCE NA	
FIRE EXT	INGUIS	SHER (CONTACT: SOURCE NORTH AMERICA - 7-ELEV		A711@SOURCI	ENA.COM FOR QUANT	ΓΙΤΥ)	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTA
U01	1	HIGH FLOW 20 ABC PORTABLE FIRE EXTINGUISHER	760-POTTER	03158046	AMEREX	7-ELEVEN / SOURCE NA	(
U02	1	FIRE EXTINGUISHER CABINET	105-20-RRC-H	03185372	CATO	7-ELEVEN / SOURCE NA	(
						,	- IN 10-
ITEM NO. V01	QTY.	DESCRIPTION FILTER FABRIC 12- 1/2" X 300'	PART NO. TYPAR-3401	ORACLE NO. 06006313	MANUFACTURER TYPAR	FURNISHED BY 7-ELEVEN / SOURCE NA	INSTA
VUT	4		IIFAR-3401				(
U BOLT S	SCHEDU	JLE (CONTACT: SOURCE NORTH AMERICA - 7-ELEVE	N SUPPORT TEAM - SNA7	711@SOURCE	NA.COM FOR QUANTI	TY)	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTA
W01	5	U-BOLT ENCORE	M00703B002	03185374	MISCELLANEOUS PARTS	7-ELEVEN / SOURCE NA	(
		CHEDULE (CONTACT: SOURCE NORTH AMERICA - 7-E			1	,	
	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTA
ITEM NO. X01		EMERGENCY SHUT OFF SWITCH SIGN	U-MS-76	06005037	UNITED SIGN	7-ELEVEN / SOURCE NA	

ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALL
Z05	5	LIQUID SUMP SENSOR	794380-208	06005066	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z06	5	4" ANNULAR / PROBE CAP	330020-282	06005053	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z08	1	7-11 ISP KIT	330020-409	06005054	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z09	-	DISPENSER INTERFACE MODULE (TIDEL)	330280-801	06005059	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z14	2	10 FT. INTERSTITIAL TANK SENSOR	794390-409	03158249	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z16	1	4" FLOAT KIT FOR DIESEL	846400-001	03158176	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z42	1	G-SITE INSTALL KIT	331063-100	03158202	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z55	2	PHASE II FLOAT KIT (GAS)	886100-000	03305136	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z58	3	10' 6" ATG PROBE	846397-110	03165574	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z106	1	TLS-450PLUS TOUCH SCREEN CONSOLE W/ PRINTER	860091-302	03430216	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z107	1	TLS-450PLUS APPLICATION SOFTWARE	333545-001	03430215	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z108	1	BIR/ACCUCHART LI EDIM FACTORY INSTALLED FOR TLS-450PLUS	333149-001	03430211	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z109	2	SIXTEEN INPUT UNIVERSAL SENSOR / PROBE INTERFACE MODULE TLS-450 INSTALLED	332812-001	03430210	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z116	1	RISK MANAGEMENT LEAK DETECTION SOFTWARE FOR DPLLD FOR TLS-450	332972-008	03430214	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z117	3	DIGITAL PRESSURIZED LINE LEAK DETECTOR W/O SWIFT CHECK VALVE TLS-450		03430179	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z119	1	SINGLE RS-232 INTERFACE MODULE (COMM. SLOTS 1, 2, 3) FOR TLS-450PLUS	332866-001	03430219	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z124	2	UNIVERSAL INPUT / OUTPUT INTERFACE MODULE TLS-450 - INSTALLED	332813-001	03430212	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z132	1	CONTINUOUS STATISTICAL LEAK DETECTION TLS-450	332972-006	03430213	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z137	1	HYDRX - 250D FUEL CONDITIONER KIT	342909-325	03430289	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z138	1	HYDRX - WATER INTAKE DEVICE (WID) FOR FIBERGLASS TANKS, 3 TUBES NOTE: SURVEY REQUIRED AFTER TANKS ARE SET	860823-XXX	03430290	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z139	1	HYDRX - GUIDE TUBE, 128 INCHES, 10' DIAMETER TANK & 2.5 GAL SYSTEM	860780-128	03430292	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z140	1	HYDRX - KIT - INSTALLATION, FE PETRO	330020-874	03430284	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
Z155	-	SINGLE-POINT MINI-HYDROSTATIC SENSOR FOR DW SUMPS	794380-304	XXXXXXX	VEEDER ROOT	7-ELEVEN / SOURCE NA	GC
XERXES	SCHED	OULE (CONTACT: RICK WHATLEY - RICK.WHATLEY@SHAWC	OR.COM FOR QUAN PART NO.	TITY) ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALL
AB64	1	XERXES TANK 10' DIA. (15K) w/ (1) SW STP SUMP, 4" FILL & V/V FITTINGS	XS-008763-0	XXXXXXX	XERXES	7-ELEVEN / XERXES	GC
AB65	1	XERXES TANK 10' DIA. (9K / 6K SPLIT TANK) w/ (2) SW STP SUMPS, 4" FILL & V/V FITTINGS	XS-008764-0	XXXXXXXX	XERXES	7-ELEVEN / XERXES	GC
SIGNAGE	SCHE	DULE (CONTACT: MARTY CLARK - MCLARK@PERFORMANC	E-INK.COM FOR QUA	ANTITY)			
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALL
AJ1	4	4" X 5" EMERGENCY SHUT OFF SIGN (OUTSIDE)	NG-2402	XXXXXXX	PERFORMANCE INK	GC	GC
AJ2	1	4" X 4" PUMP NUMBERS 1-6 - WHITE NUMBERS/BLACK BACKGROUND	1-6 NG-28	XXXXXXX	PERFORMANCE INK	GC	GC
AJ5	2	3.5" X 3.25" ULTRA LOW SULFUR HIGHWAY DECAL	XXXXXXX	XXXXXXX	PERFORMANCE INK	GC	GC
AJ6	4	2.76" X 4.75" CONTAINS 10% ETHANOL DECAL	NG-80R	XXXXXXX	PERFORMANCE INK	GC	GC
AJ7	4	2.75" X 2.75" GAS PUMPS ARE VIDEO MONITORED DECAL	NG41	XXXXXXX	PERFORMANCE INK	GC	GC
AJ8	2	20" X 6.5" WARNING - NO SMOKING	NG193	XXXXXXX	PERFORMANCE INK	GC	GC
AJ9	-	4" X 4" PUMP NUMBERS 7-12 - WHITE NUMBERS/BLACK BACKGROUND	NG-NG-24SEI	XXXXXXX	PERFORMANCE INK	GC	GC
AJ10	2	4"X24" ALUMINUM FIRE EXTINGUISHER SIGN	NG-97SEI	XXXXXXX	PERFORMANCE INK	GC	GC
AJ12	4	OUTDOOR LITERATURE HOLDER (2 PER DISP)	XXXXXXX	03304838	HICORP	7-ELEVEN/SOURCE	GC
AJ13	-	4"X 4" PUMP NUMBERS 13-18	NG-25SEi	XXXXXXX	PERFORMANCE INK	GC	GC
	1	VE COMPANY SCHEDULE (CONTACT: SOURCE NORTH AME					· ·
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALL
H01	5	4' X 72" U-SHAPED BUMPER	1983-404972-7E	03430180	UNIVERSAL VALVE	7-ELEVEN / SOURCE NA	GC
TRANS-S	ORB S	CHEDULE (CONTACT: SOURCE NORTH AMERICA - 7-ELEVEN	N SUPPORT TEAM - S	SNA711@SO	JRCENA.COM FOR QU	JANTITY)	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALL
TS1	6	DESICCANT BAG WITH HANGER (2 PER SUMP)	SC1500T1	03430194	TRANS-SORB	7-ELEVEN / SOURCE NA	G
		RE SCHEDULE (CONTACT: SOURCE NORTH AMERICA - 7-EL		1		, ,	
ITEM NO.	QTY.	DESCRIPTION	PART NO.	ORACLE NO.	MANUFACTURER	FURNISHED BY	INSTALL
WC1	1 4	GILBARCO DISPENSER COMMUNICATION CABLE (CAT6) 1000' ROLL	FEP-CAT6	03430209	WINDY CITY WIRE	7-ELEVEN / SOURCE NA	G









GING TO BE USED ON
ELING CONTRACTOR
RDINATE ALL SYNERGY
NT, LOCATIONS AND
NTS WITH SEI PROJECT

GENERAL NOTES

- GRADES AROUND DISPENSERS AND CANOPY TO BE SHOT TO PREVENT PONDING AROUND THE DISPENSERS. CONTRACTOR TO REMOVE AND REPAIR PAVEMENT IF PONDING OCCURS.
- 2 NO CONDUITS OR DOWNSPOUTS ON EXTERIOR OF CANOPY COLUMNS.
- 3 REFER TO GRADING PLAN FOR FINAL ELEVATIONS.

1 EXISTING CANOPY COLUMN - PAINT PER EXXON SPECIFICATIONS.

- 2 NOT USED
- 3 NOT USED

4 FIRE EXTINGUISHER - ADA MOUNTING HEIGHT TO BE MAX. 48" FROM GRADE TO FIRE EXTINGUISHER

- 5 NOT USED
- 6 EXISTING OVERFLOW PROTECTION. 7 EXISTING GASOLINE CANOPY.
- 8 EXISTING CANOPY FASCIA.
- 9 EXISTING LOGO SIGNS.
- 10 FUELING POSITION NUMBER.
- 11 REF 1-G5.0 FOR DISPENSER TYPE
- 12 FIRE EXTINGUISHER CABINET MOUNTED ON SIDE OF COLUMN REF PLAN FOR LOCATION
- 13 REF G7.0 FOR EQUIPMENT TAG XXX DESCRIPTION



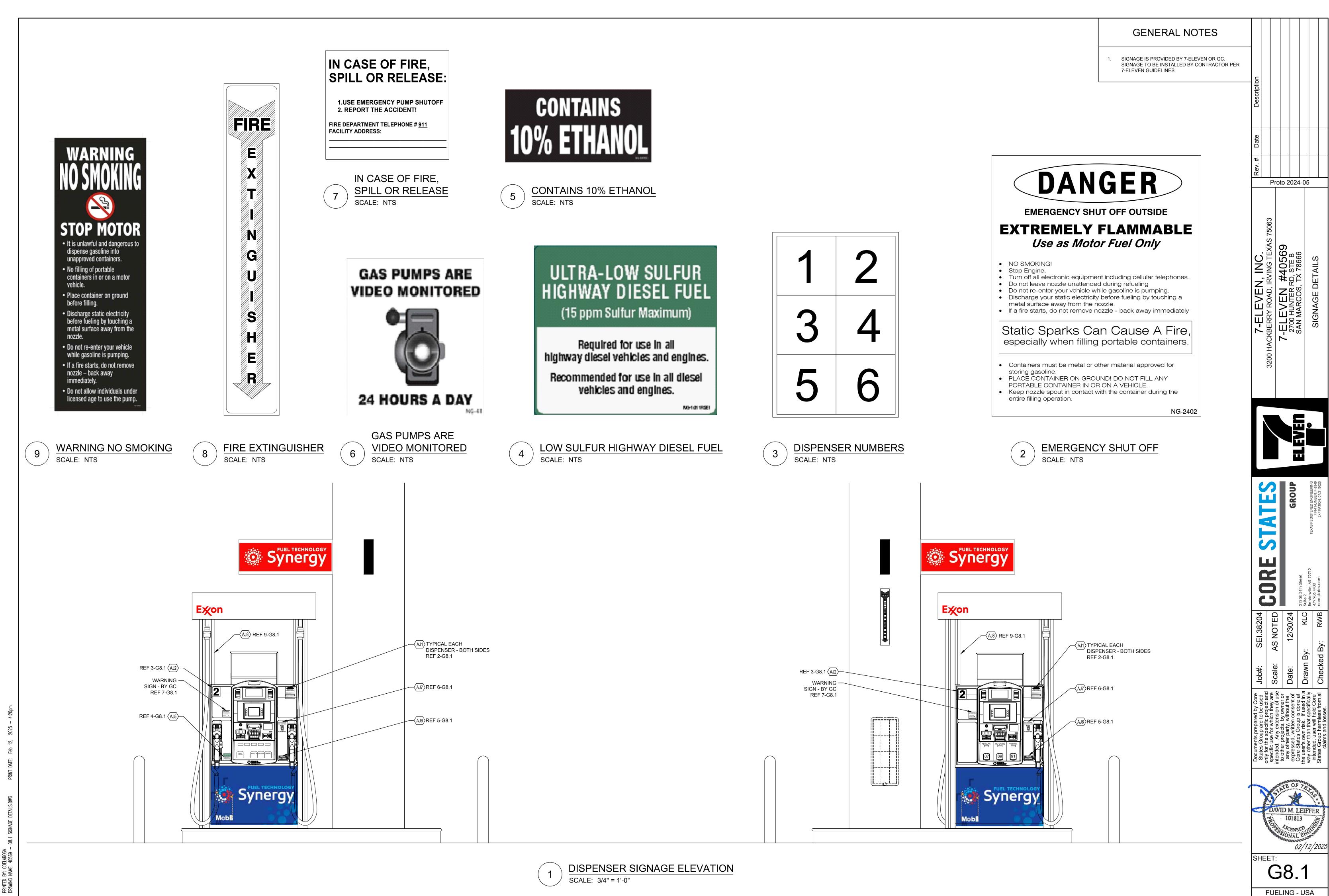
FUELING - USA

Proto 2024-05

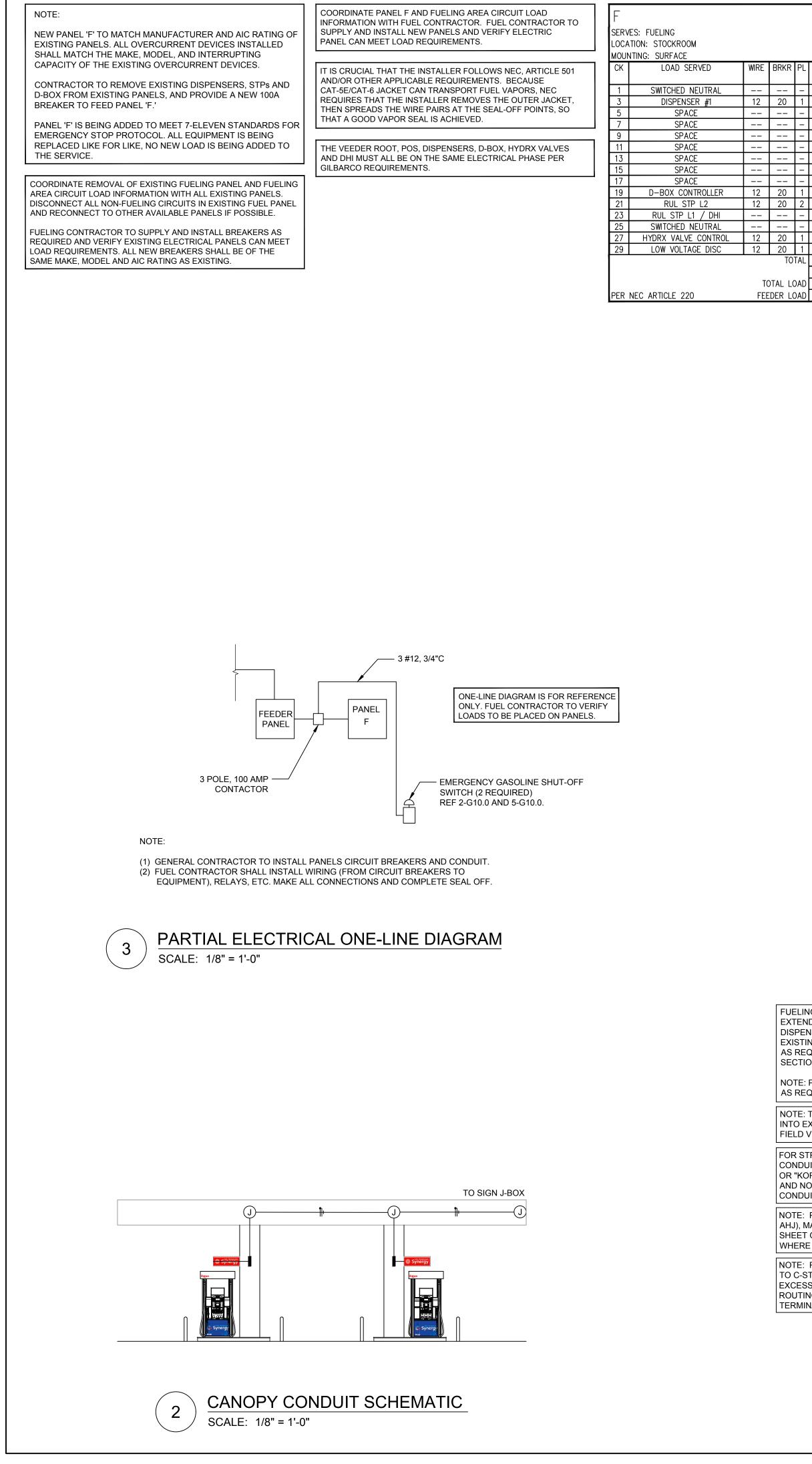
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NOTE: SYNERGY IMAGING TO BE USED ON ALL DISPENSERS. FUELING CONTRACTOR TO VERIFY AND COORDINATE ALL SYNERGY REQUIRED EQUIPMENT, LOCATIONS AND POWER REQUIREMENTS WITH SEI PROJECT MANAGER.

EXISTING CANOPY LIGHTING TO REMAIN



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NAME	WIRE QTY	_				
	DESCRIPTION	CONDUIT SIZE	QTY	WIRE SIZE / MFR #		—
101	DISPENSER POWER - NON DIESEL**	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***	
102	DISPENSER SUMP SENSOR 3/4" 2 BELDEN #88760 1 #88760		1 #88760			
103	DISPENSER DATA *	3/4"	2	2-WIRE TWISTED PAIR CAT6 FEP/FEP (FEP-CAT6)	2 PAIR 1	
104	1.5HP STP POWER	3/4"	2	#12 THWN-2	2#12 HOTS, 1#12 GR	
105	RUL TANK ATG/SUMP/DPLLD, INTERSTITIAL, FILL SENSOR	3/4"	1	BELDEN #88760	5 #88760	
106	PUL/DSL TANK ATG/SUMP/DPLLD/HYDRX MAG PROBE/HYDRX PRESSURE SENSOR, INTERSTITIAL, FILL SENSORS	3/4"	1	BELDEN #88760	11 #88760	
107	FILL BUCKET SENSORS	3/4"	3	BELDEN #88760	1 #88760	٦/
108	STP SUMP SENSOR/DPLLD/ATG PROBE	3/4"	2	BELDEN #88760	3 #88760	
109	INTERCOM	3/4"	2	BELDEN #88723	2 #88723 PER DISPENSER	
110	DISPENSER POWER - DIESEL**	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***	
111	DIESEL-1.5HP STP POWER DIESEL-HYDRX SYSTEM	1"	1	#12 THWN-2 #12 THWN-2	2#12 HOTS, 1#12 GR 2#12 HOTS, 2#12 NEUT, 1 #12 GR	
112	DSL STP SUMP SENSOR/DPLLD/ATG PROBE/HYDRX MAG PROBE/HYDRX PRESSURE SENSOR	3/4"	1	BELDEN #88760	5 #88760	
113	MAIN ID SIGN POWER	3/4"	1	PULL STRING	PULL STRING	1
114	MAIN ID SIGN DATA	3/4"	1	PULL STRING	PULL STRING	1

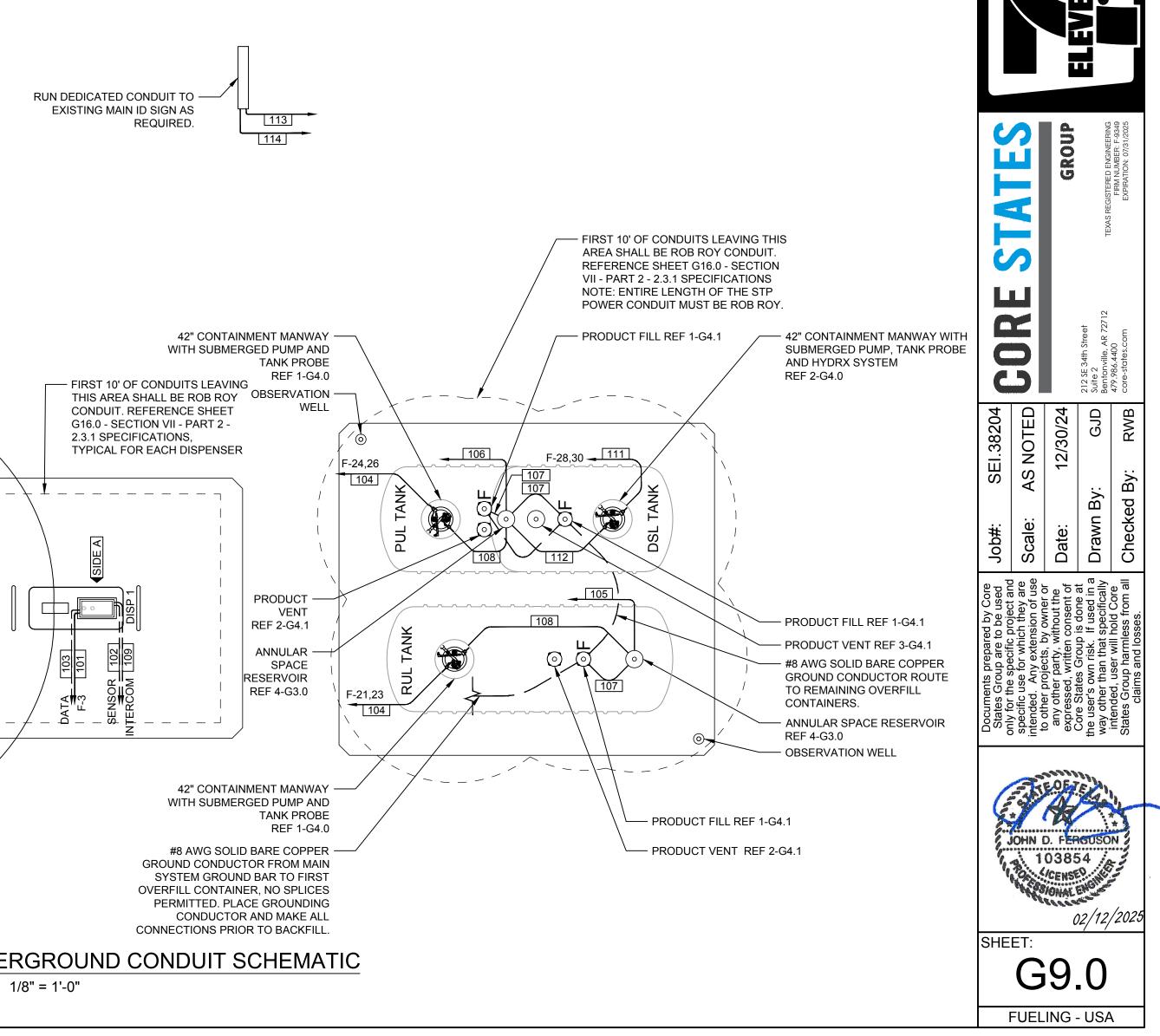
GROUND BAF WIRE BRKR PL PHASE A PHASE B PL BRKR WIRE LOAD SERVED 1 20 --SPARE -- -- 0.00 0.00 12 20 1 1.08 1.08 1 20 12 DISPENSER #2 4 -- - - 0.00 0.00 SWITCHED NEUTRAL 6 -| -- | -SPACE -- | -- | -0.00 0.00 - | -- | --- - - 0.00 0.00 - | -- | -SPACE -- -- --- -- 0.00 0.00 0.00 0.00 SPACE SPACE 0.00 0.00 SPACE __ | __ | __ | · | __ | _ -- -- - 0.00 0.00 SPACE - | __ | __ 12 20 1 SPACE 0.11 0.00 -| -- | -12 20 2 1.09 0.00 SPACE · | __ | _ PUL STP L1 / DHI 1.09 1.09 2 20 12 -- | -- |-| -- | -- | - | 0.00 | 1.09 - | -- | --PUL STP L2 0.36 1.09 2 20 12 DSL STP L1 / DHI 12 20 1 0.36 1.09 DSL STP L2 - - --3.63 5.90 TOTAL IKVA 30.25 49.17 AMPS TOTAL LOAD 9.53 KVA 45.82 AMPS FEEDER LOAD 9.53 KVA 45.82 AMPS

100A MAIN LUG ONLY

1PH 3WIRE 208/12

* REFERENCE GILBARCO FIELD WIRING DIAGRAM FOR COMPLETE SPECIFICATIONS

** CONTRACTOR TO UPSIZE CONDUCTORS FOR VOLTAGE DROPS AS REQUIRED *** REFERENCE SHEET G11.0 FOR DISPENSER HOOK ISOLATION WIRING DIAGRAM. RUN ISOLATION WIRING AS REQUIRED WITHIN DISPENSER POWER CONDUITS.



Proto 2024-05

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#40569 RD, STE B 3, TX 78666

-ELEVEN 2700 HUNTER F SAN MARCOS,

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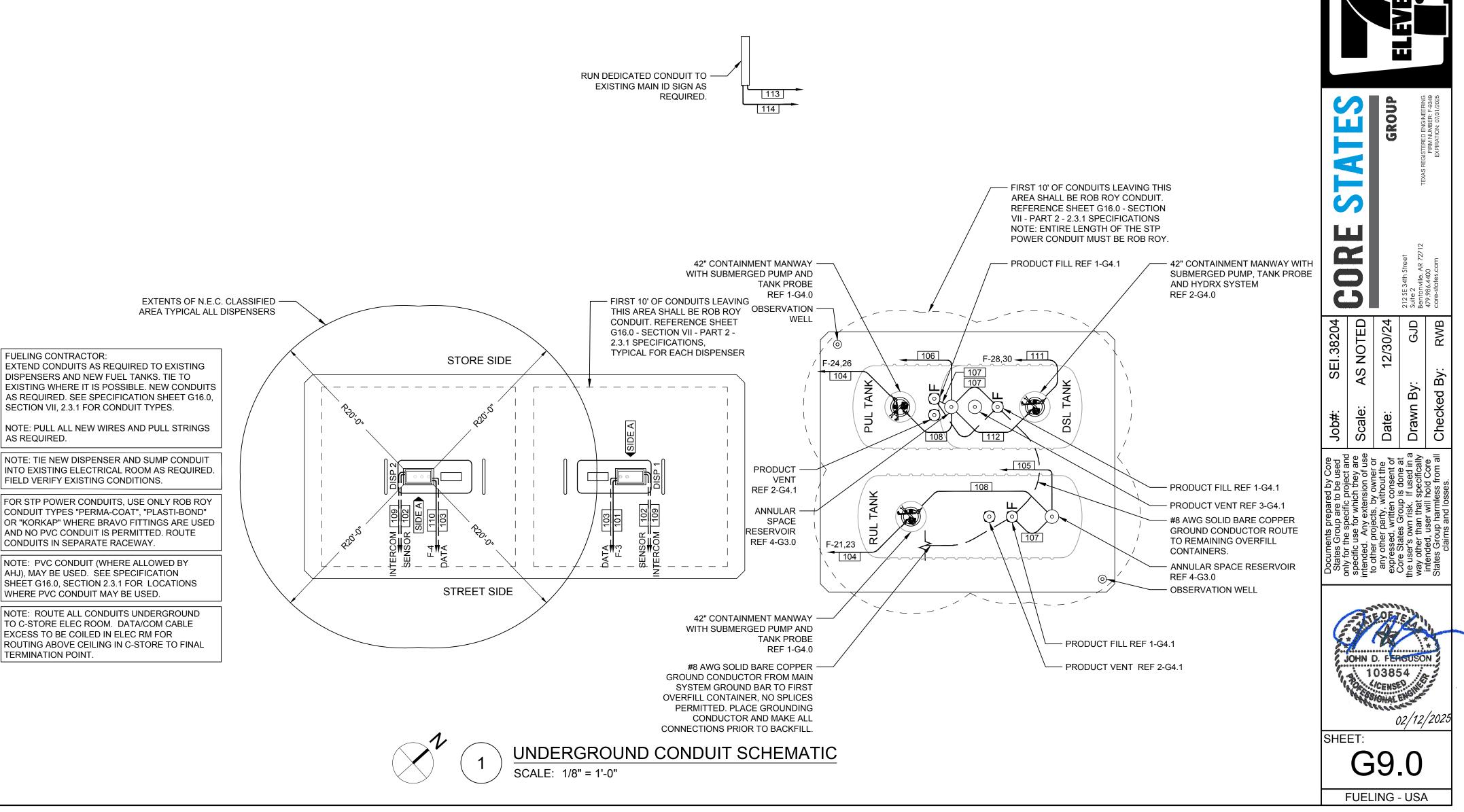
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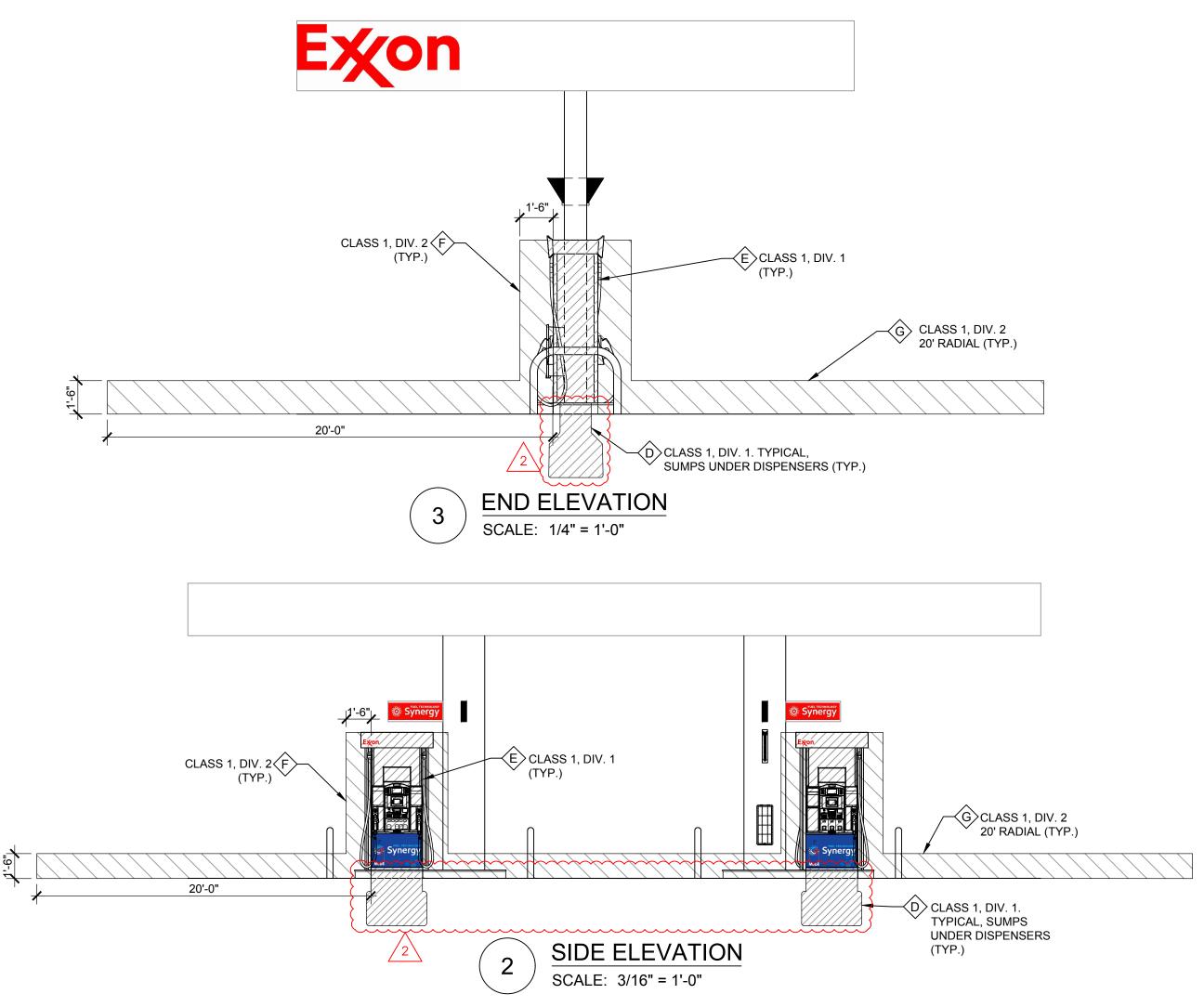


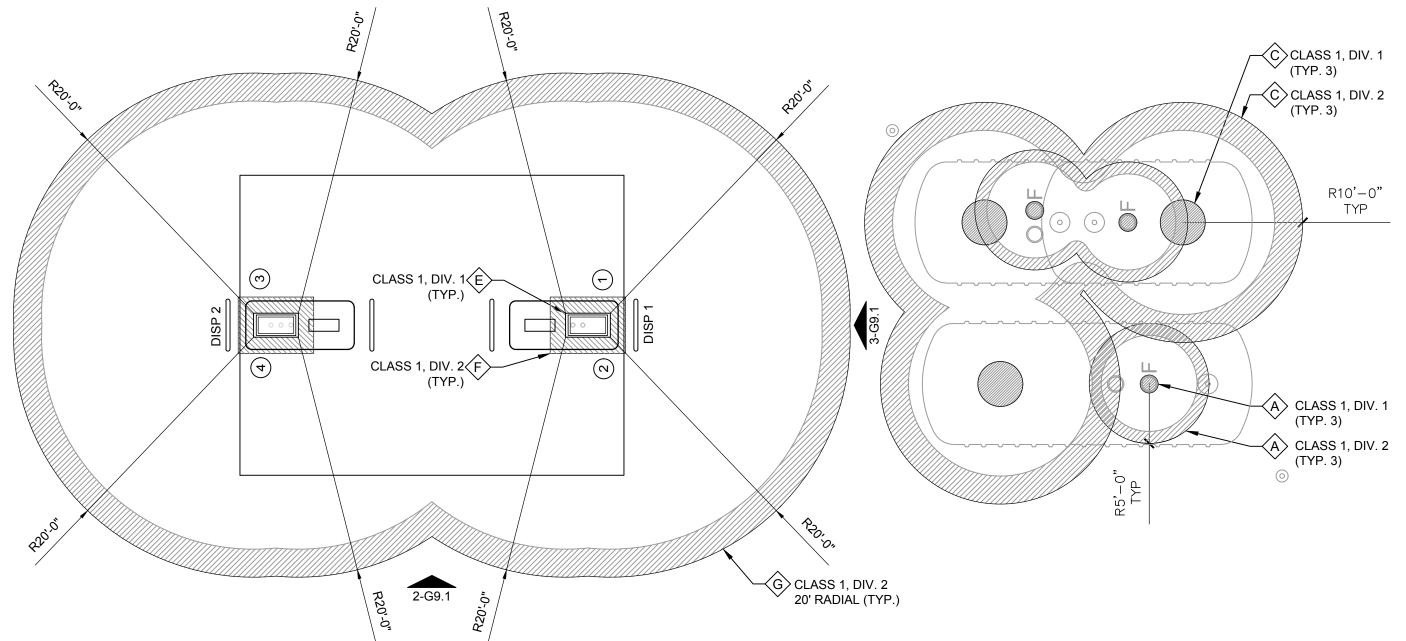
NEW PANELBOARD

FUELING CONTRACTOR:

AS REQUIRED.

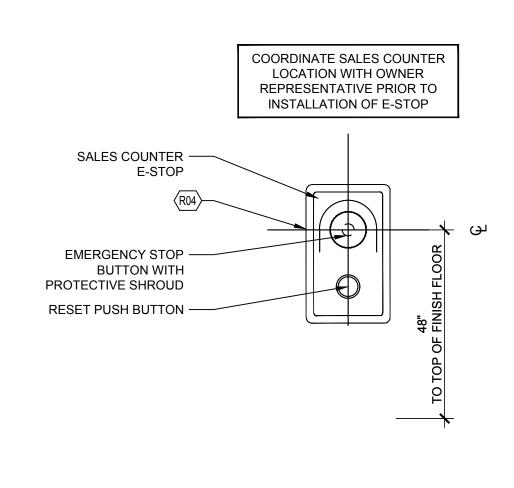
TERMINATION POINT.





N.E.C CLASSIFIED AREA @ GROUND LEVEL 1 SCALE: 1/8" = 1'-0"

	N.E.C. HAZARD	OUS /	AREA NOTES		
Â B	TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)		TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE AND REMOTE VENT - PITS) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFICATION LOCATION. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."	Description PEER REVIEW COMMENTS FRP PIPING UPDATE	
	EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION	F	TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS. SPACE CLASSIFICATION INSIDE THE DISPENSER	Rev. # Date 1 02/06/25 2 02/12/25	
$\langle c \rangle$	 (REMOTE PUMP - OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 3 FEET OF ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTION. 	G	ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS." TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF		to 2024-05
				7-ELEVEN, INC. 3200 HACKBERRY ROAD, IRVING TEXA	FLEVEN #40569 2700 HUNTER RD, STE B SAN MARCOS, TX 78666 N.E.C. CLASSIFIED AREA
				CORE STATES	212 SE 34th Street Suite 2 Horonville, AR 72712 479.964.4400 Coresting FIRM MUMBER: F: 9349 Coresting FIRM MUMBER: F: 9349 Coresting FIRM MUMBER: F: 9349
				+ 0	
	VENT LOCATION WILL VAR TANK LOCATION. SE SPECIFIC DRAWINGS FOR TANK LOCATION AND GO LOCATION OF VENT RISERS	EE SITE EXACT 0.1 FOR		Core Job#: SEI.38204 st and w are Scale: AS NOTED	Date: 12/30/24 Drawn By: KLC
	TANK LOCATION. SE SPECIFIC DRAWINGS FOR TANK LOCATION AND GO	EE SITE EXACT 0.1 FOR S (TYP.) /. 1 B OM ET		Job#: Beale: A	Date: 12/30/24 Drawn By: KLC
	TANK LOCATION. SE SPECIFIC DRAWINGS FOR TANK LOCATION AND GO LOCATION OF VENT RISERS CLASS 1, DIV 5' RADIAL FRO VENT OUTL CLASS 1, DIV 10' RADIAL FRO	EE SITE EXACT 0.1 FOR S (TYP.)	S 1. DIV. 1. TYPICAL	Documents prepared by Core States Group are to be used only for the specific project and specific use for which they are intended. Any extension of use Scale: A	try, without the ritten consent of broup is done at risk. If used in a n that specifically r will hold Core





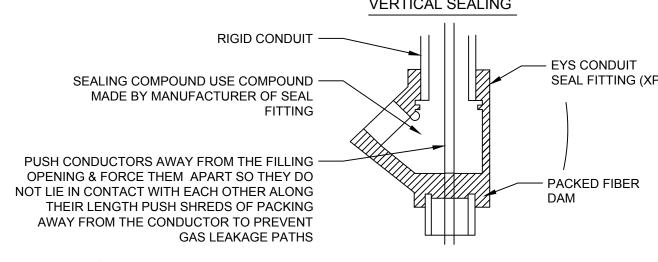
7-ELEVEN Core Retail Connectivity

INTERIOR E-STOP DETAIL



Network Devices SSC Compliance DEX 7-11 Phillips 66 EDH Cybera CFL Site Cybera Exxon/Mobil $\times 1$ ATG Internet Cybera Marathon Hughes/Mako BP Backoffice Hughes/Mako Chevron Wincor/Cybera Shell RIS MAKO/Fortigate Sunoco $\overline{}$ UST Sensors and Probes Internet POS POS PASSPORT EDH/DEX (NEC) (NEC) IF PASSPORT, Separate DSL **7ELEVEN 7ELEVEN TELEVEN 7ELEVEN** Internet is required ATG Automatic Tank Gauge Dispensers POS Point of Sale RIS Retail Information System BIR Business Inventory Reconciliation DEX Dispenser Experience UST Underground Storage Tank Dispenser Sump Sensors EDH Enhanced Dispenser Hub

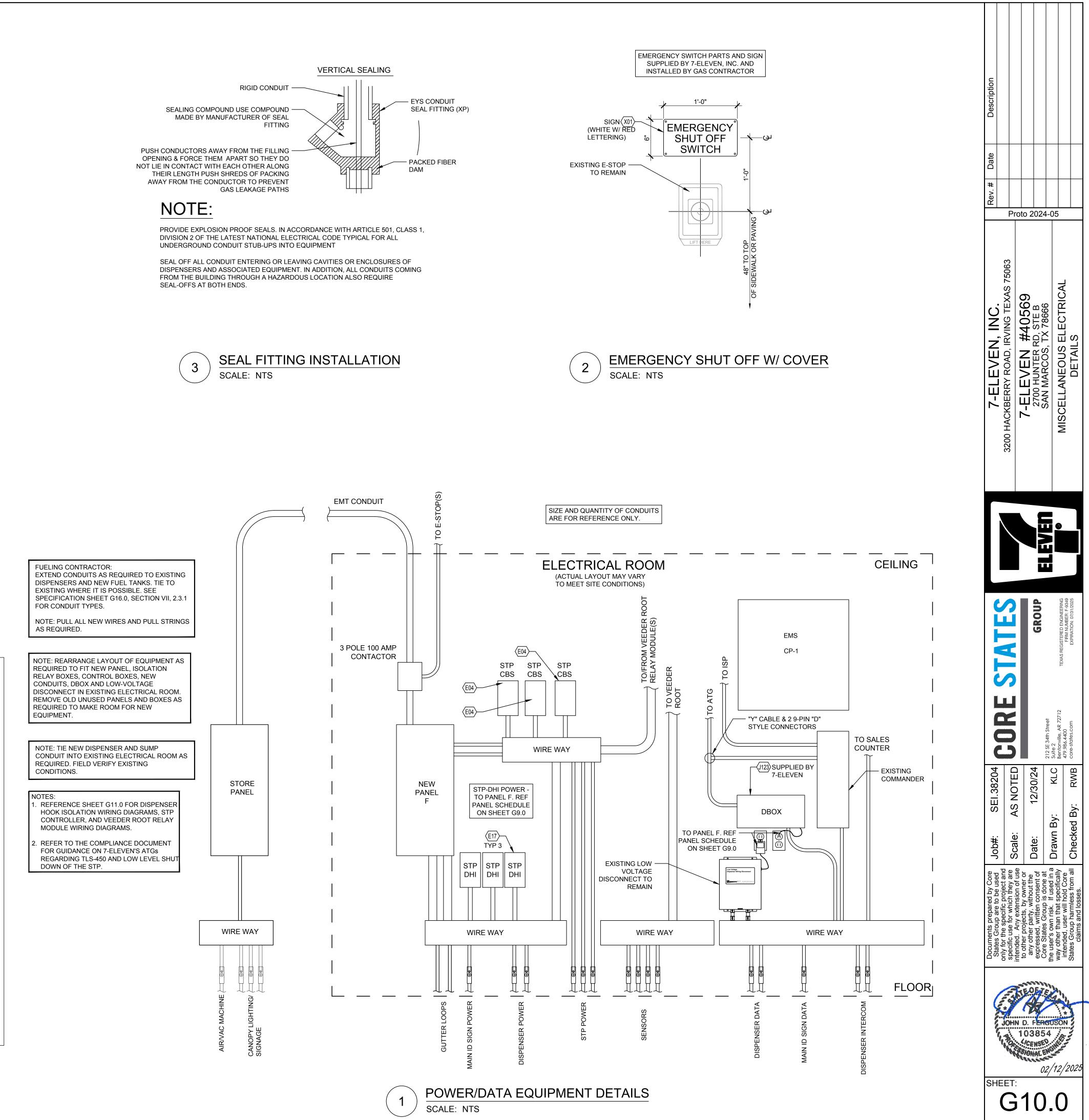
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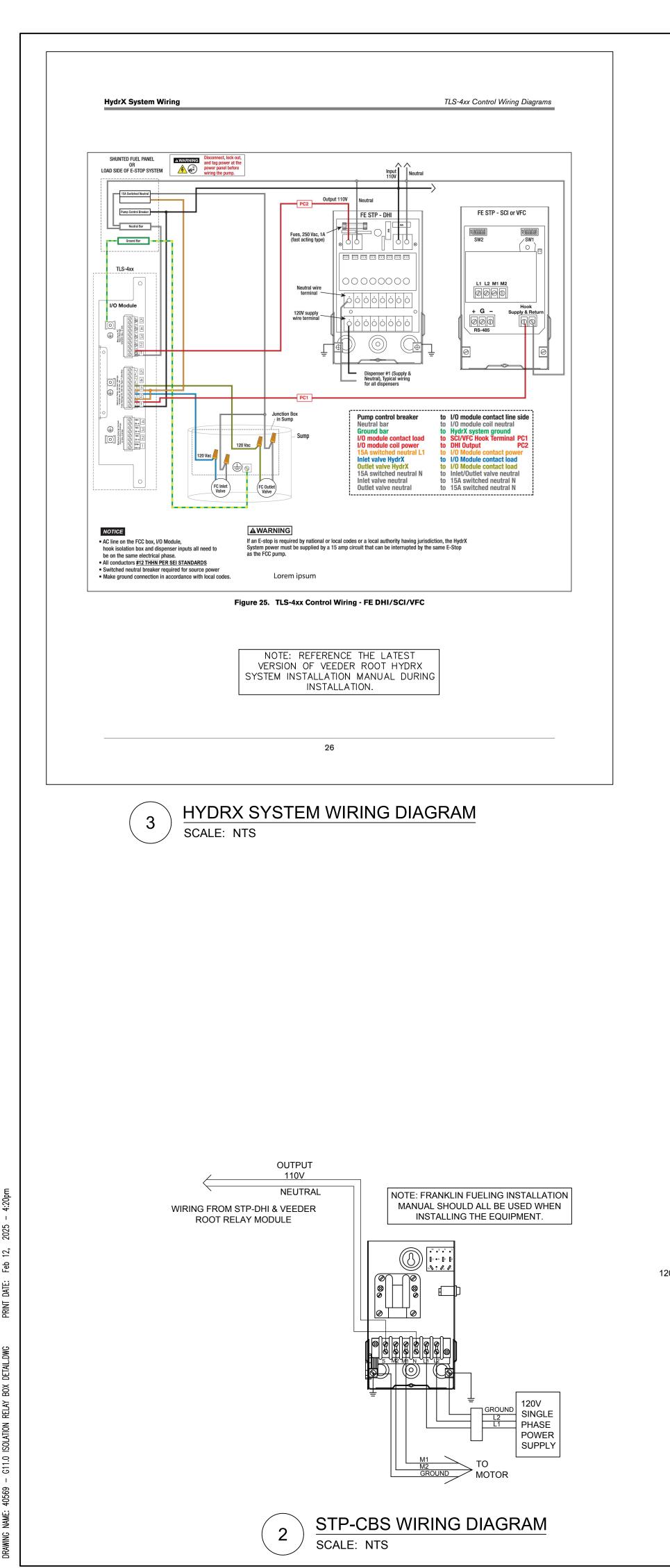


SEAL OFF ALL CONDUIT ENTERING OR LEAVING CAVITIES OR ENCLOSURES OF FROM THE BUILDING THROUGH A HAZARDOUS LOCATION ALSO REQUIRE

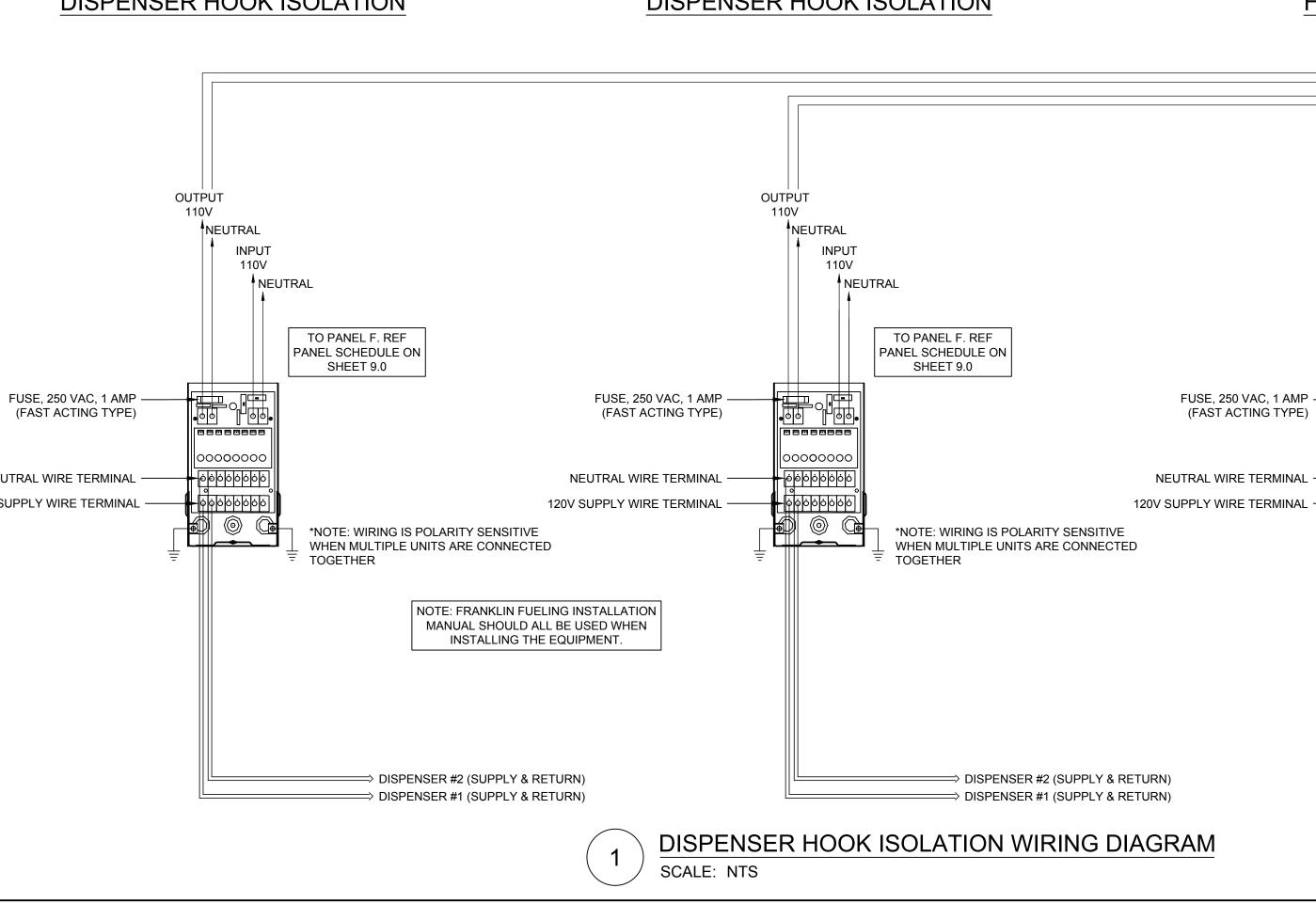




FUELING - USA

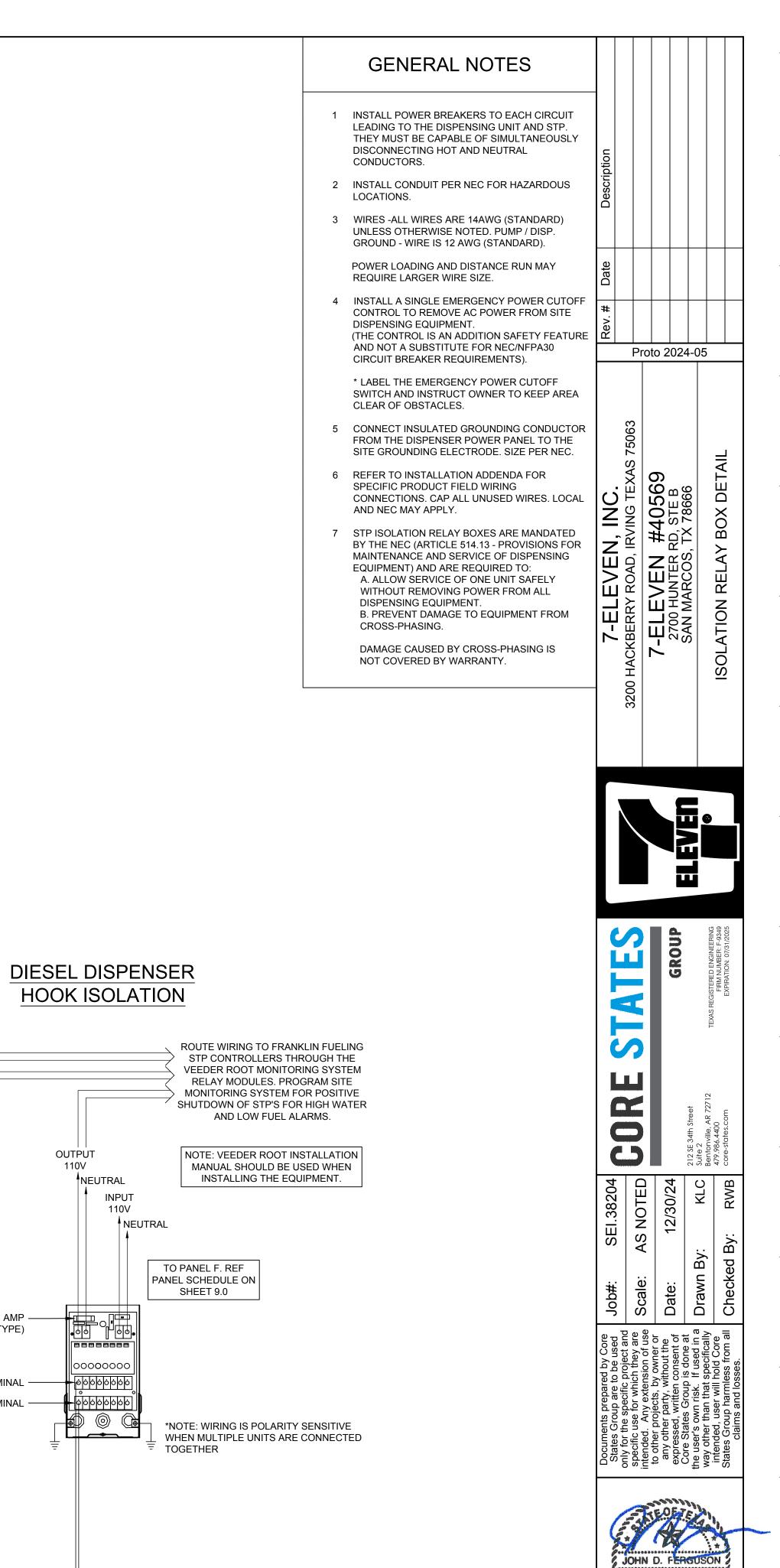


NEUTRAL WIRE TERMINAL 120V SUPPLY WIRE TERMINAL -



REGULAR UNLEADED **DISPENSER HOOK ISOLATION**

PREMIUM UNLEADED **DISPENSER HOOK ISOLATION**

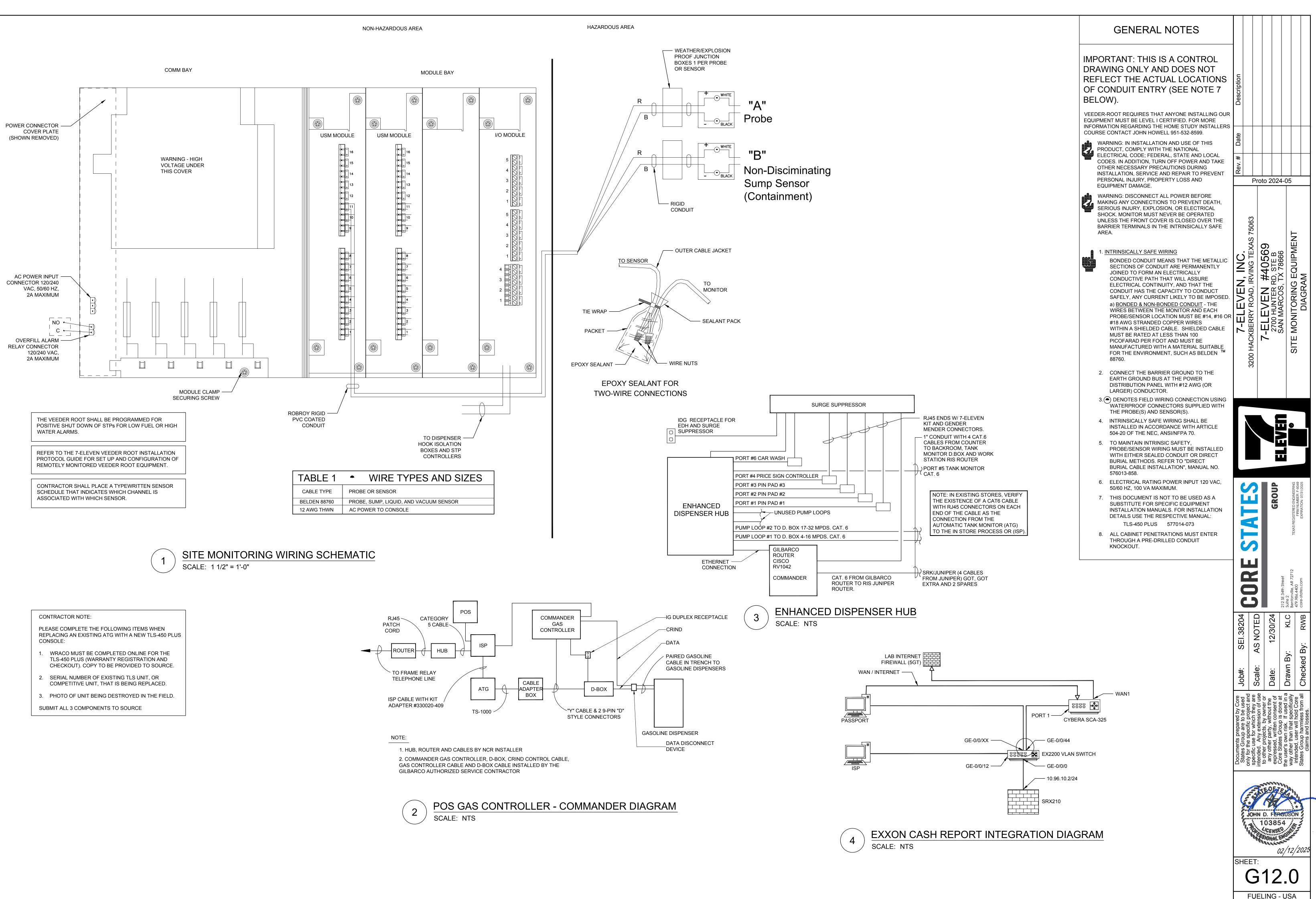


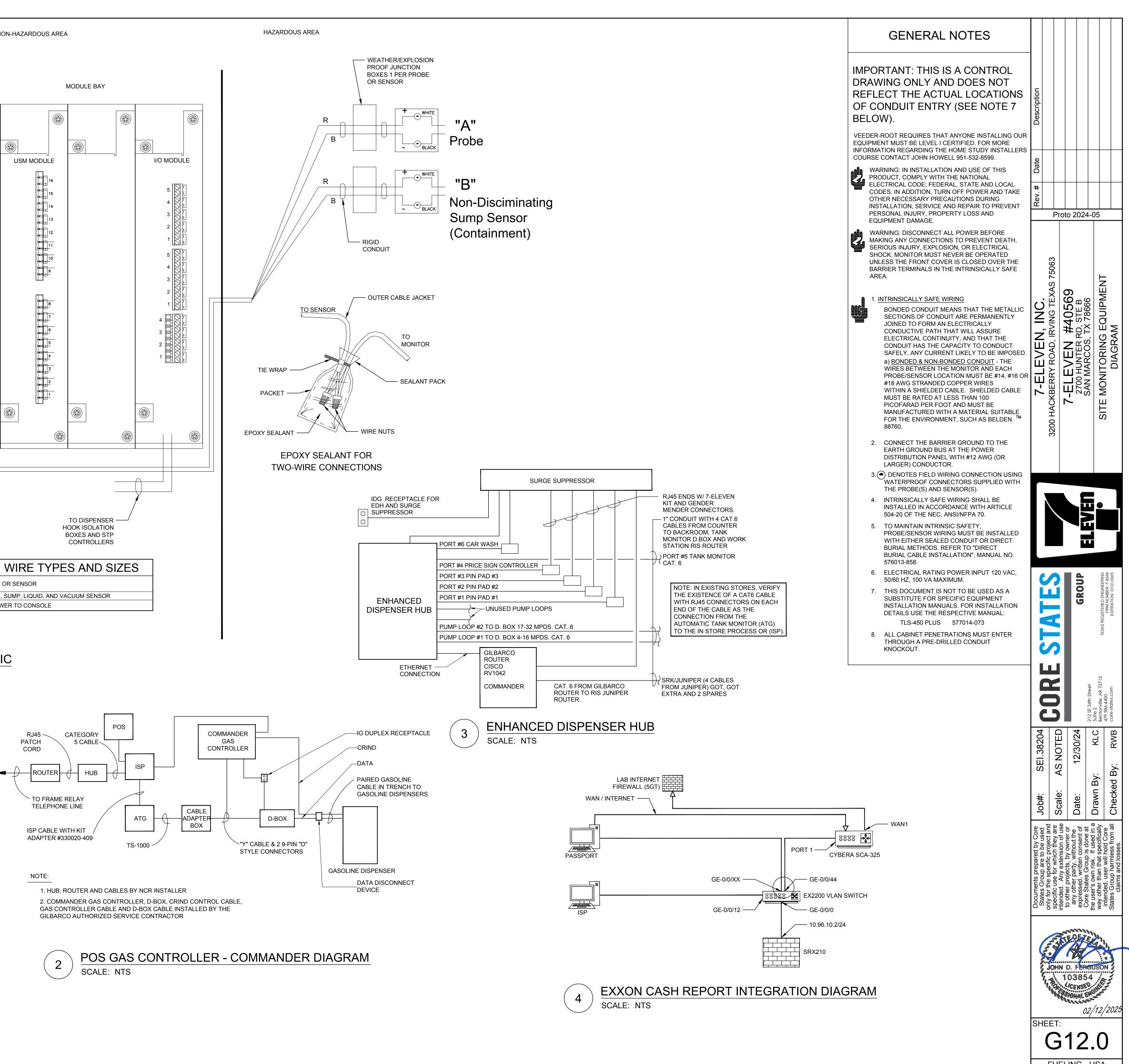
⇒ DISPENSER #2 (SUPPLY & RETURN)

02/12/202 SHEET G11.0 FUELING - USA

103854

LICENSED.







PERFORMANCE SPECIFICATION

SECTION I GENERAL CONDITIONS

PART 1 - GENERAL

1.1 SCOPE OF WORK: THE WORK INCLUDED IN THE CONTRACT FOR THIS PROJECT CONSISTS OF THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETE CONSTRUCTION OF A GASOLINE INSTALLATION FOR 7-ELEVEN, INC.

PART 2 - AGREEMENT

2.1 CONTRACTOR SHALL NOT START WORK WITHOUT CONTRACT AND APPROVED SEALED PLANS

PART 3 - INTENT OF DRAWING AND SPECIFICATIONS

- 3.1 THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PRESCRIBE A COMPLETE WORK OR IMPROVEMENT WHICH THE CONTRACTOR SHALL PERFORM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE WORK IN A SATISFACTORY AND ACCEPTABLE MANNER.
- THE OWNER'S CONSTRUCTION MANAGER.
- 4.14 FUEL CONTRACTOR SHALL PROVIDE ALL PIPING, WIRING, MATERIAL AND LABOR AS REQUIRED TO INSTALL OWNER 3.2 THE CONTRACTOR SHALL, UPON DISCOVERY, REPORT ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS TO SUPPLIED EQUIPMENT. INCLUDE MONEY IN BID PROPOSAL FOR INSTALLATION OF OWNER SUPPLIED EQUIPMENT UNLESS NOTED OTHERWISE. 3.3 THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE **PART 5 - PROTECTION** SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH. GENERALLY, THE SPECIFICATIONS DESCRIBE WORK WHICH CANNOT BE READILY IDENTIFIED ON THE DRAWINGS AND INDICATED TYPES, QUALITIES AND 5.1 CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY HIM OR HIS WORKMEN TO THE METHODS OF INSTALLATION OF THE VARIOUS MATERIALS AND EQUIPMENT REQUIRED FOR THE WORK. IT IS NOT INTENDED PROPERTY OR EQUIPMENT OF THE OWNER. OR TO THE WORK OR MATERIALS OF OTHER CONTRACTORS. CONTRACTOR TO MENTION EVERY ITEM OF WORK IN THE SPECIFICATIONS WHICH CAN BE ADEQUATELY SHOWN ON THE DRAWINGS NOR SHALL MAKE GOOD ANY LOSS. DAMAGE OR INJURY WITHOUT COST TO OWNER FOR SUCH LOSS OR DAMAGE. TO SHOW ON THE DRAWINGS ALL ITEMS OF WORK DESCRIBED OR REQUIRED BY THE SPECIFICATIONS EVEN IF THEY ARE OF SUCH NATURE THAT THEY COULD HAVE BEEN SHOWN THEREON. ALL MATERIALS OR LABOR FOR WORK WHICH IS 5.2 CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE TEMPORARY SIDEWALKS, FENCES, LIGHTS, SIGNS OR OTHER SHOWN ON THE DRAWINGS OR IS REASONABLY INFERABLE AS BEING NECESSARY TO PRODUCE A FINISHED JOB SHALL BE STRUCTURES AND DEVICES AS REQUIRED BY LAW, DO NOT OBSTRUCT OR INTERFERE WITH TRAFFIC IN PUBLIC STREETS. PROVIDED BY THE CONTRACTOR WHETHER OR NOT THE WORK IS EXPRESSLY COVERED IN THE SPECIFICATIONS. ALLEYWAYS OR PRIVATE RIGHT-OF-WAYS. IF WORK IS SUSPENDED, KEEP ALL ROADWAYS AND SIDEWALKS IN PROPER CONDITION AND PUT AND LEAVE THEM IN PROPER CONDITION AT TERMINATION OF WORK. 3.4 THE CONTRACTOR, SUBCONTRACTORS AND ALL TRADES SHALL EXAMINE THE SITE AND ASCERTAIN EXISTING CONDITIONS PRIOR TO THE START OF THEIR PORTIONS OF THE WORK. BEFORE ORDERING MATERIALS OR DOING ANY WORK, THE 5.3 CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS AND PERFORM ALL WORK REQUIRED CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL MEASUREMENTS AT THE SITE. ANY FOR THE CARE, PROTECTION AND MAINTENANCE OF PUBLIC UTILITIES ON AND AROUND THE BUILDING SITE, ASSUMING ALL DIFFERENCES WHICH MAY BE FOUND BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS OR RESPONSIBILITY AND PAYING ALL COSTS FOR WHICH THE OWNER MAY BE LIABLE. CONTRACTOR HEREBY DECLARES HE SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S CONSTRUCTION MANAGER FOR CONSIDERATION BEFORE HAS VERIFIED THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ON SITE PRIOR TO THE START OF WORK. PROCEEDING WITH THE ACTUAL DIMENSIONS AND MEASUREMENTS INDICATED ON THE DRAWINGS UNLESS A SUBSTANTIAL CONTRACTOR HEREBY AGREES TO MAKE ARRANGEMENTS FOR AND TO PAY ALL CHARGES IN CON- JUNCTION WITH THE ERROR HAS BEEN MADE. IF SUCH AN ERROR SHOULD OCCUR, IT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S RELOCATION'S OF EXISTING UTILITIES AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL UTILITY CONSTRUCTION MANAGER AND RESOLVED BEFORE PROCEEDING WITH WORK. EASEMENTS, HOOKUP CHARGES, TAP FEES & SYSTEM DEVELOPMENT FEES OR BONDS AS NECESSARY FOR COMPLETION OF THIS PROJECT. 3.5 THE ORGANIZATION OF SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS, AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN 5.4 IF ALL OR PART OF THE WORK IS SUSPENDED FOR ANY REASON, CONTRACTOR SHALL PROPERLY COVER OVER, SECURE THE ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. AND PROTECT ANY PORTION LIABLE TO SUSTAIN INJURY FROM ANY CAUSE. 3.6 DRAWINGS AND SPECIFICATIONS: DRAWINGS INDICATE GENERAL DESIGN AND ARRANGEMENTS DRAWINGS ARE PRODUCT PROTECTION: CONTRACTOR SHALL PROVIDE ADEQUATE AND SECURE PROTECTION OF PRODUCT IN TANKS DIAGRAMMATIC AND ARE NOT SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND UPON DELIVERY UNTIL TURNED OVER FOR OPERATION. ALL FILL, VENT AND GAUGING CAPS AND/OR OPENINGS SHALL BE EQUIPMENT TO BE FURNISHED. VERIFY DIMENSIONS IN THE FIELD. SECURED AND PADLOCKED TO PREVENT VANDALISM OR THEFT. PART 4 - RESPONSIBILITY OF THE CONTRACTOR **PART 6 - SUBSTITUTION OF MATERIALS** 4.1 CONTRACTOR HEREBY DECLARES HE HAS READ ALL SPECIFICATIONS AND EXAMINED THE DRAWINGS AND 6.1 MATERIALS AS SPECIFIED REPRESENT REQUIRED STANDARDS. SUBSTITUTION MAY BE PROPOSED IN WRITING WITH THAT HE UNDERSTANDS ALL CONDITIONS. ADEQUATE SUPPORTING DATA FURNISHED. USE OF SUBSTITUTE MATERIALS IS DEPENDENT ON RECEIPT OF WRITTEN APPROVAL FROM OWNER'S APPROVED REPRESENTATIVE. 4.2 CONTRACTOR HEREBY DECLARES HE HAS VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS AFFECTING THE WORK. NO ALLOWANCES SHALL BE MADE SUBSEQUENTLY ON BEHALF OF THE CONTRACTOR FOR ANY ERROR NEGLIGENCE ON HIS PART. IF IN THE PERFORMANCE OF THE CONTRACT **PART 7 - COMPLETION OF CONTRACT** LATENT CONDITIONS AT THE SITE ARE FOUND TO BE MATERIALLY DIFFERENT FROM THOSE INDICATED BY THE DRAWINGS AND SPECIFICATIONS, OR UNKNOWN CONDITIONS UNUSUALLY INHERENT IN WORK OF 7.1 THE CONTRACT SHALL BE CONSIDERED FULFILLED, SAVE AS PROVIDED IN ANY MAINTENANCE STIPULATIONS, BOND OR BY THIS CHARACTER SHOWN AND SPECIFIED, THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER LAW, WHEN ALL THE WORK HAS BEEN COMPLETED WITH FINAL INSPECTION AND ACCEPTANCE MADE BY ALL APPLICABLE SHALL BE CALLED IMMEDIATELY TO SUCH CONDITIONS BEFORE THEY ARE DISTURBED. GOVERNING BUILDING DEPARTMENTS, FIRE MARSHAL'S OR OTHER JURISDICTIONS. 4.3 CONTRACTOR HEREBY DECLARES THAT HE HAS READ AND IS FAMILIAR WITH THE APPLICABLE SOILS 7.2 NOT USED REPORT. 7.3 CLEANING: CONTRACTOR SHALL BE RESPONSIBLE FOR STRICTLY ADHERING TO THE RECOMMENDATIONS OF SAID SOILS REPORT FOLLOWING ALL APPLICABLE PROCEDURES NOTED THEREIN. EXISTING WATER TABLE SHALL 7.3.1 ALL WORK SHALL BE CLEAN AND READY FOR USE UPON COMPLETION. REMOVE TEMPORARY TAPES, POSSIBLY DETERMINE A DIFFERENT UTILIZATION OF THE TANK STRAPS AND TYPE OF BACK FILL WRAPPING, COATING, PAPER LABELS AND OTHER ITEMS. MATERIAL. SHOULD GROUND WATER OR CONTAMINATION BE DISCOVERED DURING TANK EXCAVATION, WORK SHALL BE SUSPENDED PENDING REVIEW BY 7-ELEVEN CONSTRUCTION MANAGER. 7.3.2 CLEANING METHODS FOR PROPRIETARY MATERIALS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CLEANING SOLUTIONS, AGENTS, SOLVENTS, WAXES OR OTHER 4.4 CONTRACTOR SHALL REPORT ANY OBJECTION TO MATERIALS, APPLIANCES, OR METHODS OF MATERIALS SHALL BE ONLY AS APPROVED BY THE MANUFACTURER OF THE MATERIAL INSTALLED IN CONSTRUCTION SHOWN OR SPECIFIED TO THE OWNER'S CONSTRUCTION MANAGER AND OBTAIN A THE WORK. DECISION BEFORE PROCEEDING. CLEANUP: CONTRACTOR SHALL CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, 7.3.3 4.5 PROPOSALS: CONTRACTOR SHALL SUBMIT BID ONLY ON 7-ELEVEN'S FORM THAT WILL BE PROVIDED BY KEEPING THE PREMISES NEAT AT ALL TIMES. 7-ELEVEN'S LOCAL CONSTRUCTION MANAGER, "COST OF CONSTRUCTION" PROPOSALS SUBMITTED ON ANY OTHER FORM SHALL BE REJECTED AND RETURNED. PROPOSALS NOT COMPLETELY AND PROPERLY FILLED OUT SHALL BE REJECTED. PROPOSALS SHALL INCLUDE MONEYS FOR REMOVAL OF ALL EXISTING PART 8 - CODES IMPROVEMENTS AS REQUIRED FOR GASOLINE INSTALLATION. 8.1 THE FOLLOWING CODES ARE MADE A PART OF THIS SPECIFICATION. SAID CODES SHALL DICTATE MINIMAL ACCEPTABLE 4.6 PERMITS: CONTRACTOR SHALL, AS DIRECTED BY 7-ELEVEN, PAY FOR ALL APPLICABLE PERMITS AND AND FEES. COPIES OF STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE PERMITS AND CERTIFICATES SHALL BE FORWARDED TO LOCAL 7-ELEVEN CONSTRUCTION MANAGER'S OFFICE OR SITE STRINGENT REQUIREMENTS WHICH SHALL TAKE PRECEDENCE: MANAGER PRIOR TO COMMENCEMENT OF WORK. FINAL CERTIFICATION OF ACCEPTANCE BY GOVERNING AUTHORITIES SHALL ALSO BE ON FILE WITH LOCAL CONSTRUCTION OFFICE OR SITE MANAGER PRIOR TO THE PROCESSING OF FINAL NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE 8.1.1 PAYMENT REQUEST. 8.1.2 PEI MANUAL "RECOMMENDED PRACTICES FOR INSTALLATION OF UNDERGROUND LIQUID STORAGE 4.7 INSPECTIONS: CONTRACTOR SHALL BE REQUIRED TO ADHERE TO ALL REQUIREMENTS OF OWNER'S INSPECTION SYSTEMS." #RP-100-96 (OR LATEST EDITION) PROGRAM. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR NOTIFICATION, SITE PREPARATION REQUIREMENTS, COMPLIANCE, ON-SITE PRESENCE DURING INSPECTION AND CORRECTION OF ANY DEFECTS OR RELATED PROBLEMS AS OSHA AND LOCAL MUNICIPALITIES 8.1.3 DIRECTED BY INSPECTING REPRESENTATIVE CONTRACTOR SHALL PROVIDE NO LESS THAN 48 HOURS NOTICE PRIOR TO INSPECTION. PART 9 - WARRANTY / GUARANTEE 4.8 COORDINATION: FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL PHASES OF THE GASOLINE INSTALLATION WITH THE GENERAL CONTRACTOR IN CHARGE OF THE BUILDING OR MAJOR PORTION OF THE PROJECT. THE BUILDING GENERAL CONTRACTOR AND THE FUEL CONTRACTOR SHALL JOINTLY DEVELOP A MUTUALLY AGREEABLE 9.1 EXCEPT WHERE SPECIAL GUARANTEES ARE REQUIRED IN EXCESS OF ONE (1) YEAR, THE CONTRACTOR AGREES TO REPAIR SCHEDULE AND TIMETABLE FOR COMPLETION ON THE GASOLINE INSTALLATION. TIMETABLE FOR BUILDING AND GASOLINE AND RE-CERTIFY OR REPLACE THE DEFECTIVE COMPONENT OR ANY DEFECT IN MATERIAL OR WORKMANSHIP (BEYOND SHALL COINCIDE AND COMPLIMENT EACH OTHER SO THAT ONE DOES NOT DELAY THE OTHER. ORDINARY WEAR AND TEAR) TO THE SATISFACTION OF THE OWNER'S CONSTRUCTION MANAGER FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE, WHETHER IN HIS WORK OR IN THAT OF SUBCONTRACTOR'S, WITHOUT COST TO THE SHOULD FUEL CONTRACTOR FAIL TO MEET DEADLINES AS ESTABLISHED BY THE SCHEDULE AND/OR HOLD UP THE OWNER. COMPLETION OF THE OVERALL BUILDING PROJECT, 7-ELEVEN, INC. RESERVES THE RIGHT TO RECTIFY THE SITUATION ACCORDINGLY. 9.2 ALL PAVING WILL HAVE A TWO YEAR WARRANTY.
- 4.9 CONTRACTOR SHALL PROVIDE OWNER WRITTEN CERTIFICATION AS TO THE FOLLOWING:
 - CERTIFICATION FROM LOCAL/STATE GOVERNING AUTHORITIES AS APPLICABLE FOR CONTRACTOR 4.9.1 CERTIFICATION/LICENSING FOR INSTALLATION OF GASOLINE STORAGE TANK SYSTEM.
 - CERTIFICATION FROM EQUIPMENT MANUFACTURES AND SUPPLIERS (TANKS, PRODUCT LINES, 4.9.2 ATG'S, ETC.) AS TO ATTENDING AND ACHIEVING CERTIFICATION FROM APPROPRIATE COMPANY FOR INSTALLATION OF EQUIPMENT.
 - CERTIFICATION ON APPROPRIATE FORMAT AS TO INSTALLATION OF COMPLETE SYSTEM BEING 4.9.3 PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
 - CERTIFICATION THAT ALL EQUIPMENT EITHER SUPPLIED BY OWNER OR CONTRACTOR HAS BEEN 4.9.4 INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS BY PERSONNEL TRAINED AND QUALIFIED FOR THAT SPECIFIC ITEM.

PART 4 - CONTINUED

- 4.11 LIENS: CONTRACTOR SHALL PERMIT NO LIENS OF ANY KIND TO BE FIXED UPON OR AGAINST THE PROPERTY BY ITS SUBCONTRACTORS, LABORERS, MECHANICS OR MATERIAL MEN, AND SHALL INDEMNIFY, PROTECT AND SAVE OWNER HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND LIENS.
- 4.12 EQUIPMENT RESPONSIBILITY: CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, RECEIVING, UNLOADING, HANDLING AND PROVIDING PROTECTED INSIDE STORAGE FOR ALL OWNER SUPPLIED EQUIPMENT AND MATERIAL CONTRACTOR SHALL INSPECT EQUIPMENT UPON RECEIPT AND IMMEDIATELY REPORT ANY DAMAGE DUE TO SHIPPING TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS. DISPENSERS SHALL BE PROTECTED WITH SHIPPING BOXES UNTIL STORE IS TURNED OVER FOR OPENING. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUATE AND LOCKED STORAGE OF OWNER'S MISCELLANEOUS EQUIPMENT, TO INCLUDE GASOLINE CONSOLE, PRIOR TO OPENING OF THE STORE.
- 4.13 FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR FILING OF RECEIVING FORMS AND MISCELLANEOUS CONFIRMATION OF EQUIPMENT RECEIVING INFORMATION AS REQUIRED BY LOCAL CONSTRUCTION OFFICE.

PART 10 - AS BUILT PLAN AND DOCUMENTATION

- 10.1 UPON COMPLETION OF PROJECT, CONTRACTOR SHALL PROVIDE "AS-BUILT SITE PLAN" VERIFYING FINAL LOCATION OF IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, PIPING, PLUMBING AND ELECTRICAL.
- 10.2 CONTRACTOR SHALL KEEP PHOTOGRAPHIC JOURNAL OF ALL PHASES OF THE COMPLETE INSTALLATION. PHOTOGRAPHS ARE TO BE PROPERLY DATED, IDENTIFIED AND FORWARDED TO LOCAL 7-ELEVEN, INC. CONSTRUCTION OFFICE, WITH FINAL INVOICE PACKAGE.

TEST BEFORE PLACIN COMPONE

DOUBLE-WALLED TANK

DOUBLE-WALLED

LEAK DETECTION

AUTOMATIC TAN

OVERFILL PREVENTI

SPILL-CONTAIN MANHOLE

IMPACT VAL

MECHANICAL LIN DETECTOR

ELECTRONIC LIN DETECTOR

FLEXIBLE CONNE

PART 1 - GENERAL

PART 2 - INSPECTIONS

- PROCEDURES.

SECTION II INSPECTIONS / TESTING

NG THE SYSTE	M IN SERVICE			
ENT	MANUFACTURER	Table below lists current Manufacturer's Installation and Testing Guidelines that may be applied to the fuel system components after assembly but before backfilling. Before the beginning of fuel system installation, fuel contractor is to be responsible for reading through the entire Installation Manual and Operating Guidelines as well a any applicable supplemental materials. It is the responsibility of the fuel contractor and fuel operator to understand and follow all requirements contained in the installation and testing manuals. Work must be performed according to standard industry practices applicable to tank installations and operations. Work must also comply will all applicable codes, regulations and standards of appropriate governmental agencies.		
D STORAGE	XERXES "A ZCL	INSTALLATION MANUAL	http://www.zcl.com/assets/documents/library/installation%20 manual%20and%20operating%20guidelines%20(imog)%20for% 20xerxes%20tanks.pdf	
	COMPANY"	TESTING PROCEDURE	http://www.zcl.com/assets/documents/library/installation%20 manual%20and%20operating%20guidelines%20(imog)%20for% 20xerxes%20tanks.pdf	
ED PIPING	NOV	INSTALLATION MANUAL	http://www.nov.com/Segments/Completion_and_Production_ Solutions/Fiber_Glass_Systems/Fuel_Handling/Red_Thread_IIA. aspx	
		TESTING PROCEDURE	http://www.nov.com/docHandler.aspx?puid=l2bNZwjC3oL35C	
N SENSOR	VEEDER ROOT	INSTALLATION MANUAL	http://www.gilbarco.com/gold/gold_public_access.cfm?section _id=361	
IN SEINSOR	VEEDER ROOT	TESTING PROCEDURE	http://www.gilbarco.com/gold/gold_public_access.cfm?section _id=361	
IK GUAGES	VEEDER ROOT	INSTALLATION MANUAL	https://www.veeder.com/us/sites/veeder.com.us/files/ 2020-09/577014-073%20TLS-450PLUS%20Console%20Site %20Prep%20and%20Installation%20Manual.pdf	
		TESTING PROCEDURE	https://www.veeder.com/us/automatic-tank-gauging-products/ tls-450plus-automatic-tank-gauge	
	OPW	INSTALLATION MANUAL	http://www.opwglobal.com/docs/libraries/manuals/retail-fueli ng/below-ground/opw-fcs-manuals/71so-testable-(h15524pa)- 1-30-14.pdf?sfvrsn=4	
ION DEVICES		TESTING PROCEDURE	http://www.opwglobal.com/docs/libraries/manuals/retail-fueli ng/below-ground/opw-fcs-manuals/71so-testable-(h15524pa)- 1-30-14.pdf?sfvrsn=4	
NMENT	OPW	INSTALLATION MANUAL	http://www.opwglobal.com/docs/libraries/manuals/retail-fueli ng/below-ground/opw-fcs-manuals/1-3100_EDGE_Thread-On_ Spill_Installation_Inst_202181_2-13-13_G.pdf?Status=Master& sfvrsn=0	
LES		TESTING PROCEDURE	http://www.opwglobal.com/docs/libraries/manuals/retail-fueli ng/below-ground/opw-fcs-manuals/Double_Wall_Spill_Contain er_Vac_Test_Installation_InstructionsEnglish_202383.pdf?St atus=Master&sfvrsn=0	
ILVES	OPW	INSTALLATION MANUAL	http://www.opwglobal.com/docs/libraries/manuals/retail-fueli ng/below-ground/opw-fcs-manuals/10_Series_Emergency_She ar_Valve_Installation_InstructionsEnglish_H11374PA.pdf?St atus=Master&sfvrsn=0	
		TESTING PROCEDURE	http://www.opwglobal.com/docs/libraries/manuals/retail-fueli ng/below-ground/opw-fcs-manuals/10_Series_Emergency_She ar_Valve_Installation_InstructionsEnglish_H11374PA.pdf?St atus=Master&sfvrsn=0	
INE LEAK	VAPORLESS	INSTALLATION MANUAL	http://www.vaporless.com/installation/installpdf/install_ld200 0.pdf	
DRS	MANUFACTURING	TESTING PROCEDURE	http://www.vaporless.com/installation/installpdf/install_Id200 0.pdf	
INE LEAK	VEEDER ROOT	INSTALLATION MANUAL	http://www.veeder.com/gold/download.cfm?doc_id=6414	
DRS		TESTING PROCEDURE	http://www.veeder.com/gold/download.cfm?doc_id=6414	
NECTORS	FRANKLIN FUELING	INSTALLATION MANUAL	http://www.franklinfueling.com/media/468560/407293001-r1- flex-connector-install.pdf	

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, SERVICES AND EQUIPMENT AS REQUIRED TO PROVIDE INSPECTION SERVICES OF THE FUELING INSTALLATION.

2.1 INSPECTOR: 7-ELEVEN, INC. LOCAL CONSTRUCTION DEPARTMENT AND/OR APPOINTED REPRESENTATIVE SHOULD BE NOTIFIED TO OBSERVE TIGHTNESS TESTING OF PRODUCT PIPING, STAGE I & STAGE II PIPING PRIOR TO BACKFILL.

2.2 NOTIFICATION: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING 7-ELEVEN'S CONSTRUCTION DEPARTMENT 48 HOURS PRIOR TO REQUESTED INSPECTION

2.3 SPILLAGE: SHOULD SPILLAGE OF PRODUCT OCCUR AT ANY PHASE OF INSTALLATION OR TESTING, LOCAL 7-ELEVEN CONSTRUCTION DEPARTMENT AND ENVIRONMENTAL DEPARTMENT ARE TO BE NOTIFIED IMMEDIATELY, ESTIMATED LOSS OF PRODUCT AS WELL AS ACTION TO BE TAKEN BY CONTRACTOR TO SAFEGUARD THE EVENT FROM FURTHER MISHAP AND TO PROTECT THE GENERAL PUBLIC IS TO BE NOTED AND RECORDED.

2.4 REPRESENTATIVE OF CONTRACTOR AND FUEL CONTRACTOR SHALL BE AVAILABLE ON SITE DURING TESTING PROGRAMS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN ANY CORRECTIONS AND/OR REPAIRS REQUIRED BEING PERFORMED BY OWNER AS REQUIRED. COST OF SAID REPAIRS AND/OR CONNECTIONS SHALL BE DEDUCTED FROM CONTRACT AMOUNT AS REQUIRED TO SATISFY THE SITUATION.

2.5 PROHIBITED WORK: CONTRACTOR SHALL SCHEDULE WORK SUCH THAT NO HEAVY EQUIPMENT IS OPERATING ON SITE DURING INSPECTION PROGRAMS. NO WELDING OR OPEN FLAMES SHALL BE ALLOWED ON SITE AT ANY TIME DURING TEST

2.6 INSTALLATION REPORTS: SHOULD 7-ELEVEN OR THEIR APPOINTED REPRESENTATIVES BE UNABLE TO BE PRESENT AT SITE FOR PURPOSES OF FILING ANY INSPECTION REPORTS, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSPECTION AND FILING OF REPORT WITH LOCAL 7-ELEVEN, INC. CONSTRUCTION OFFICE. WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

2.7 TEST FAILURE: SHOULD SYSTEM FAIL ANY PORTION OF TEST PROGRAM, CONTRACTOR SHALL IMMEDIATELY INSTIGATE PROCEDURES AS REQUIRED TO BRING SYSTEM INTO COMPLIANCE SHOULD FAILURE OF TEST DUE TO FACILITY WORK REQUIRE EXPENDITURE OF ADDITIONAL MONIES FOR RESCHEDULING AND/OR RETESTING OF SYSTEM, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COMPENSATION ACCORDINGLY.

2.8 CLEANUP: IN THE EVENT PRODUCT SPILLAGE SHOULD OCCUR DURING CONSTRUCTION OR DURING WARRANTY PERIOD DUE TO WORK PERFORMED BY CONTRACTOR, CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AS MAY BE REQUIRED.

2.9 TEST REPORT: UPON COMPLETION OF TESTING PROGRAMS, REPRESENTATIVE OF TESTING/ INSPECTION COMPANY SHALL BE RESPONSIBLE FOR FILING COPIES OF TANK AND PIPING TEST/INSPECTION REPORTS WITH LOCAL 7-ELEVEN, INC. CONSTRUCTION OFFICE OR THE OWNER'S ASSIGNED SITE MANAGER WITH COPY TO JOB SITE.



SECTION II INSPECTIONS / TESTING - CONTINUED

PART 3 - TANK INSTALLATION INSPECTION

- 3.1 SCHEDULE: CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING SCHEDULE SO TANKS ARE TESTED AND SET IN TANK HOLE SAME DAY OF DELIVERY.
- 3.2 EXCAVATION: ALL EXCAVATIONS SHALL BE COMPLETED WITH BEDDING MATERIAL IN PLACE AND READY FOR INSTALLATION PRIOR TO TANK DELIVERY.
- 3.3 ANCHORING: CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF CONCRETE ANCHORS (DEAD MAN)
- 3.4 STRAPS: HOLD DOWN STRAPS TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS MINIMUM OF 4 MORE IF REQUIRED BY MANUFACTURER (STRAPS SHALL BE SHIPPED WITH APPROPRIATE PADDING MATERIAL.
- 3.5 AIR TEST: TANKS SHALL BE AIR TESTED AS PER MANUFACTURER'S SPECIFICATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS TO PROVIDE COMPLETE AIR TEST INCLUDING, BUT NOT LIMITED TO, AIR COMPRESSOR OF SUFFICIENT SIZE AND CAPACITY, SPECIFIED SOAP MATERIAL AND ACCEPTABLE SOAP APPLICATION EQUIPMENT.
- 3.6 MINIMUM TESTING: DOUBLE WALL FIBERGLASS TANKS SHOULD ARRIVE AT THE JOB SITE WITH A MINIMUM OF 4" HG ON THE INTERSTICE. OBSERVE THE VACUUM HOLD TEST FOR AT LEAST ONE (1) HOUR PRIOR TO SETTING THE TANKS. SHOULD THE INTERSTICE NOT HOLD A MINIMUM 4" HG VACUUM. THEN CONTACT THE TANK MANUFACTURER IMMEDIATELY.
- 3.7 OBSERVATION: 7-ELEVEN'S CONSTRUCTION DEPARTMENT AND/OR REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSPECTION OF AIR OR VACUUM TEST, OBSERVATION OF LIFTING, SETTING AND BURIAL OF TANKS.
- 3.8 TANK INSPECTION REPORT: WRITTEN REPORT SHALL INCLUDE PHOTOGRAPHIC DOCUMENTATION OF ALL PROCEDURES.

PART 4 - TANK AND LINE TESTING

4.1 CONTRACTOR SHALL COMPLETE AND BE RESPONSIBLE FOR THE FOLLOWING PRIOR TO FINAL PLACEMENT OF CONCRETE AND FINAL SYSTEM TEST:

- 4.1.1 PIPING: ALL PIPING SHALL BE COMPLETED EXCEPT INSTALLATION OF OVERFILL PROTECTION. OVERFILL PROTECTION SHALL BE INSTALLED UPON COMPLETION OF TEST.
- VENTS: VENT LINES SHALL BE COMPLETED UNDERGROUND AND STUBBED UP MINIMUM OF 12' ABOVE 4.1.2 FINISHED GRADE.
- 4.1.3 PRODUCT LINES: ALL PRODUCT LINES SHALL BE COMPLETE WITH EMERGENCY SHUTOFF IMPACT VALVE INSTALLED AT DISPENSER BOX WITH MECHANICAL LEAK DETECTOR IN PLACE.
- PUMPS: SUBMERSIBLE PUMPS AND LINES SHALL BE COMPLETELY INSTALLED. 4.1.4
- 4.1.6 SITE PREPARATION: CONTRACTOR SHALL PREPARE TANK AREA FOR WATER OR PRODUCT DELIVERY AND TANK TESTING PROCEDURES.
- 4.1.7 FILL: CONTRACTOR SHALL PROVIDE 42" MINIMUM BACK FILL OVER TANKS.
- WATER: SHOULD WATER BE PRESENT IN TANK HOLE, CONTRACTOR SHALL VERIFY AND NOTIFY 7-ELEVEN 4.1.8 CONSTRUCTION MANAGER OF STATUS.
- 4.2 AFTER PLACEMENT OF CONCRETE, A COMPLETE SYSTEM TIGHTNESS TEST INCLUDING TANKS, PRODUCT LINES, STAGE II VAPOR RECOVERY LINES. SECONDARY CONTAINMENT PIPING AND VENT LINES SHALL BE PERFORMED. TESTING SYSTEM SHALL BE AS APPROVED BY 7-ELEVEN, 7-ELEVEN WILL BE BILLED DIRECTLY FOR TESTS, CONTRACTOR TO COORDINATE & SCHEDULE. RETEST OR STAND AROUND TIME BY THE TESTING COMPANY TO BE BILLED TO CONTRACTOR. DETAILS FOR THIRD PARTY TESTING REQUIREMENTS LISTED ON G17.0 SHEETS.
 - 4.2.1 AFTER ALL UNDERGROUND PIPING AND ELECTRIC CONDUITS ARE INSTALLED AND DURING EXCAVATION BACKFILLING AND CONCRETE POURING, A CONTINUOUS HYDROSTATIC TEST SHALL BE PERFORMED ON ALL SUMPS & SPILL BUCKETS TO ENSURE TIGHTNESS AND PROPER INSTALLATION.
- 4.3 PRODUCT DELIVERY: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION TO 7-ELEVEN REPRESENTATIVE OF TEST DATE AND VERIFICATION OF NEED FOR TANKS TO BE FILLED WITH PRODUCT AND TANK MONITORING SYSTEM TO BE OPERATIONAL FOR TESTING PROCEDURES. A MINIMUM OF 72 HOURS ADVANCE NOTIFICATION WILL BE REQUIRED FOR PRODUCT DELIVERY. CHECK WITH LOCAL REGULATORY AGENCIES FOR ANY FURTHER REQUIREMENTS.
- 4.4 CONTRACTOR SHALL HAVE REPRESENTATIVES ON SITE TO ACCEPT AND RECORD ALL PRODUCT DELIVERIES. CONTRACTOR'S REPRESENTATIVE SHALL REMIND DELIVERY COMPANY THAT NO OVERFILL PROTECTION IS INSTALLED AND TO FOLLOW PROCEDURES FOR DELIVERY AS SITUATION DICTATES.
- 4.5 PRODUCT REMOVAL: ANY REMAINING PRODUCT IN VENT LINES UPON COMPLETION OF TEST SHALL BE REMOVED BY TESTING COMPANY.

PART 5 - STARTUP INSPECTION

- 5.1 SCHEDULING: CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SCHEDULING STARTUP AND CHECK-OUT. CONTRACTOR SHALL NOTIFY LOCAL CONSTRUCTION DEPARTMENT AND APPLICABLE MAINTENANCE DEPARTMENT OFFICE A MINIMUM OF 48 HOURS PRIOR TO INTENDED FINAL STARTUP AND CHECK-OUT DATE AND TIME.
- 5.2 PERSONNEL: CONTRACTOR, FUEL SUBCONTRACTOR AND ELECTRICAL SUBCONTRACTOR SHALL BE AVAILABLE ON-SITE DURING STARTUP, AS APPROVED BY 7-ELEVEN, INC. ALL STARTUPS ARE TO BE DONE BY AN AUTHORIZED MANUFACTURER'S CONTRACTOR FOR THAT PIECE OF EQUIPMENT.
- 5.3 STARTUP: PHYSICAL STARTUP AND CHECK-OUT OF SYSTEMS AND EQUIPMENT SHALL BE DONE BY AND AT THE DIRECTION OF 7-ELEVEN REPRESENTATIVE ONLY. CONTRACTOR SHALL NOT START OR ACTIVATE ANY EQUIPMENT WITHOUT THE SPECIFIC DIRECTIVE OF 7-ELEVEN REPRESENTATIVE. DAMAGE TO ANY 7-ELEVEN EQUIPMENT DUE TO IMPROPER INSTALLATION AND/OR UNAUTHORIZED STARTUP WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5.4 SITE COMPLETION: ALL SITE WORK, INCLUDING CONCRETE/ASPHALT PAVEMENTS, SHALL BE COMPLETE. ALL UTILITIES SHALL BE CONNECTED AND OPERATIONAL. ALL LANDSCAPING, INCLUDING SPRINKLER SYSTEMS, SHALL BE COMPLETE.
- 5.5 VERIFICATION: PRIOR TO SCHEDULING OF STARTUP, CONTRACTOR SHALL OBSERVE AND VERIFY CORRECTNESS AND COMPLIANCE TO 7-ELEVEN'S DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING, BUT THESE SHALL NOT COMPRISE THE TOTAL LIMIT OF THE CONTRACTOR'S VERIFICATION:
 - MANHOLES SHALL BE PROPERLY CENTER/INSTALLED AT OVERFILLS, SUBMERSIBLES, VAPOR 5.5.1 RECOVERY, AUTO GAUGING, OBSERVATION WELLS AND SUMP/RISER.
 - PROPER HEIGHT OF GRAVEL BACK FILL AROUND SUMP/RISERS. 5.5.2
 - TANK I.D. MARKERS INSTALLED IN CONCRETE AT PROPER LOCATIONS. 5.5.3

SECTION II INSPECTIONS / TESTING - CONTINUED

PART 5 - STARTUP INSPECTION - CONTINUED

5.5.4 ALL BRASS GOODS AND FITTIN		ALL BRASS GOODS AND FITTINGS PROPERLY INSTALLED, TIGHT AND SECURE.					
5.5.5 LEAK DETECTORS INSTALLED.		LEAK DETECTORS INSTALLED.					
5.5.6		PROTECTED FLEX CONNECTORS ARE PROPERLY INSTALLED WITHOUT TWIST IN INSTALLATION.					
5.5.7		MANHOLE EXTENDERS PROPERLY INSTALLED AND SCREWED IN FRAME OF MANHOLE SUMP/RISERS, PROPERLY SET AND SEALED TO TANK MAN WAY OR FITTINGS AND CLEANED OUT FREE OF DEBRIS AND CONCRETE.					
		TANKS CLEAN AND FREE OF WATER. PRIOR TO PRODUCT FILL, TANKS ARE TO BE CHECKED FOR ANY DEBRIS AND WATER. ANY EVIDENCE OF BOTH, TANKS ARE TO BE CLEANED AND WATER REMOVED.					
5.5.9		ISLAND FORM INNER BOXES PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.					
5.5.1	0	DISPENSERS PROPERLY SET AND SECURED TO ISLAND BOX FRAME AND DISPENSER SUMPS PROPERLY CLEANED OUT FREE OF DEBRIS AND CONCRETE.					
5.5.1	1	SHEAR VALVES SECURED TO FRAME WITH PROPER HARDWARE.					
5.5.1	2	PHASE II VAPOR RECOVERY LINES STUBBED UP AND SECURED IN PROPER LOCATION.					
5.513	3	ELECTRICAL CONDUITS SECURED WITH ALL CONNECTIONS COMPLETED. VERIFY COMPLIANCE WITH REQUIREMENTS FOR ISOLATED GROUND WIRING TO JUNCTION BOX CASING.					
5.5.1	4	DISPENSER CANOPIES INSTALLED AND LIFTING LUGS REMOVED WITH PROPER PLUGS INSERTED.					
5.5.1	5	ALL NOZZLES AND SWIVELS AVAILABLE ON-SITE, INSTALLED PRIOR ONLY IF REQUIRED BY GOVERNING AUTHORITIES FOR INSPECTION PURPOSES.					
5.5.1	6	ALL INSPECTIONS BY GOVERNING AUTHORITIES COMPLETED AND SIGNED. SIGNED AND COMPLETED PERMIT CARD ON SITE.					
5.5.1	7	ELECTRICAL DEVICES INCLUDING LIGHTS, SIGNS AND INTERCOMS PROPERLY INSTALLED, SECURED AND PLUMB.					
5.5.1	8	ANY WIRING INSPECTION PORTS IN CANOPY COLUMNS COVERED WITH ACCEPTABLE PLATES.					
5.5.1	9	VENT LINES PROPERLY SECURED, PROTECTED AND INSTALLED AT PROPER HEIGHT.					
5.5.2	0	VERIFICATION OF COMPLIANCE FOR TANK AND LINE TEST AVAILABLE ON SITE.					
5.5.2	1	ALL MANHOLES FREE OF CONCRETE AND DEBRIS.					
5.5.2	2	MANHOLE COVERS PROPERLY PAINTED.					
5.5.2	3	ALL PAINTING COMPLETE INCLUDING CANOPY, DOWN SPOUTS, METALS AND MISCELLANEOUS METALS.					
5.5.2	4	CONCRETE AT ISLANDS AND TANK PAD TRUE, PROPERLY SLOPED AND FINISHED WITH ACCEPTABLE RISE TO MANHOLES.					
5.5.2	5	ELECTRICAL PANELS PROPERLY COMPLETED TO INCLUDE:					
	(A)	ONE BREAKER FOR EACH SUBMERSIBLE PUMP, DISPENSER, CONSOLE AUTO GAUGING, DISPENSER LIGHTS (ALL) AND CANOPY LIGHTS (ALL).					
	(B)	GAS PANEL CONTROLLED BY A MAIN BREAKER.					
	(C)	CONTROL BOXES AND DISTRIBUTION BOXES INSTALLED AND WIRED.					
	(D)	INTERCOM INSTALLATION COMPLETE AND PROPERLY WORKING.					
	(E)	ALL APPLICABLE CONSOLE INSTALLATION COMPLETE AND FUNCTIONAL.					
	(F)	ALL WIRING PROPERLY IDENTIFIED WITH COLOR CODED WIRING.					
	(G)	CONDUITS PROPERLY IDENTIFIED. (H) ALL BREAKERS IN "OFF" POSITION.					
5.6	MON	FICATION: CONTRACTOR SHALL VERIFY ITEMS AS INDICATED ABOVE PRIOR TO SCHEDULING OF STARTUP IES AND/OR TIME LOST AT STARTUP DUE TO NON- COMPLIANCE SHALL BE CHARGED TO CONTRACTOR ORDINGLY.					
5.7	EQUI	EQUIPMENT SHALL BE TESTED PER SPECIFICATIONS ON SHEET G17.0.					

5.8 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

SECTION III EARTHWORK

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO EARTHWORK.

PART 2 - PRODUCTS

2.1 FILL MATERIAL: SHALL BE MATERIAL IN COMPLIANCE WITH TANK AND PIPING MANUFACTURER'S SPECIFICATIONS.

- 2.1.1 PEA GRAVEL: SHALL BE CLEAN, NATURALLY ROUNDED AGGREGATE WITH A MIX OF PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4".
- STONE OR GRAVEL CRUSHING: SHALL BE WASHED MATERIAL WITH ANGULAR PARTICLE SIZE NOT 2.1.2 LESS THAN 1/8" OR MORE THAN 1/2".
- BACKFILL OR OTHER MATERIAL MUST BE APPROVED BY TANK MANUFACTURER. 2.1.3
- MATERIALS MUST MEET ASTM C-33 PARAGRAPH 7.1 FOR QUALITY AND SOUNDNESS. FILL MATERIAL NOTE: SHALL NOT HAVE MORE THAN 3% PASSING A #8 SIEVE. DRY GRAVEL DENSITY MUST BE A MINIMUM OF 95 POUNDS PER CUBIC FOOT.

- PROCEED.

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE INSTALLATION OF FUEL STORAGE TANKS.

PART 2 - PRODUCTS

2.1 TANKS: SHALL BE DESIGNED AND MANUFACTURED SO AS TO BE CORROSION PROTECTED PER EPA REQUIREMENTS. APPROVED TANKS SHALL BE:

2.1.1 DOUBLE WALL FIBERGLASS TANKS 2.2 HOLD DOWN STRAPS: SHALL BE SUPPLIED BY TANK MANUFACTURER ONLY. FIELD FABRICATED UNITS ARE NOT

PART 3 - INSTALLATION

I		10 - 11
	3.1	MANUFACTURING: ADHERE TO AS RE
	3.2	CLEARANCES: MIN MANUFACTURER (

3.2.1

ACCEPTABLE.

- 3.2.2 SIDES: PROVIDE MINIMUM OF 2'0" BETWEEN TANKS AND 3' FROM SIDE/END OF TANK TO WALL OF EXCAVATION.
- 3.2.3 TOP: PROVIDE 42" FILL MATERIAL OVER TANK PLUS 8" OF CONCRETE

3.4 PLACEMENT:

- REFER TO SITE PLAN FOR TANK PLACEMENT AND PRODUCT ROTATION. 3.4.1
- PRIOR TO SETTING OF TANKS, REMOVE ALL FOREIGN DEBRIS, ROCKS, CLODS, GARBAGE, ETC. FROM 3.4.2 EXCAVATION.
- PLACE TANKS ONLY ON APPROVED FILL. DO NOT SET ON CONCRETE OR WOOD. 3.4.3
- 3.4.4 NOT USED.
- 3.4.5

SECTION III EARTH WORK - CONTINUED

PART 3 - EXECUTION

3.1 PROTECTIONS: PROVIDE ADEQUATE SHORING, BRACING, PILING AND CRIBBING. COMPLY WITH ALL OSHA AND LOCAL REGULATIONS AS IT PERTAINS TO SAFETY.

3.2 LAYOUT: CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AS PRESENTED IN PERMITTED PLANS AND SPECIFICATIONS.

3.3 EXCAVATION: EXCAVATE TO LINES, ELEVATIONS AND LIMITS REQUIRED BY THE DRAWINGS, PLUS SUFFICIENT DISTANCE AND SPACE TO PERMIT INSTALLATION OF TANKS. EXCAVATE AS REQUIRED, REGARDLESS OF TYPE, CONDITION OR MOISTURE CONTENT OF THE MATERIAL ENCOUNTERED. HAUL EXCESS MATERIAL OFF THE SITE AND DISPOSE OF SAME. DIMENSIONS OF TANK EXCAVATION SHALL BE MINIMAL AS ESTABLISHED BY 7-ELEVEN DRAWINGS UNLESS TANK MANUFACTURER REQUIREMENTS ARE GREATER. IF EXCAVATION MATERIAL IS FROM AN EXISTING GASOLINE FACILITY ALL MATERIALS MUST BE TESTED PRIOR TO REMOVAL.

3.4 SAW CUTTING: IF PAVING MUST BE REMOVED, THE PERIMETER OF THE TANK EXCAVATION AND ALL TRENCHES SHALL BE CUT WITH A CONCRETE SAW. NOTE: PAVING TO BE CUT 2' BEYOND EDGES OF EXCAVATIONS IN ALL DIRECTIONS IN ORDER TO GIVE PROPER SUPPORT TO NEW SLAB TO AVOID SETTLING.

3.5 HAZARDOUS MATERIAL: SHOULD ROCK, WATER OR OTHER HAZARDOUS MATERIALS NOT SHOWN ON SOILS TEST BE ENCOUNTERED, LOCAL CONSTRUCTION OFFICE SITE MANAGER SHALL BE IMMEDIATELY CONTACTED FOR APPROVAL TO

3.6 PROTECTION: CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION WITH EARTHEN BERMS AT ALL TIMES TO PROTECT TANK EXCAVATION AND TRENCHES FROM DRAINAGE OF SURFACE WATERS. EXCAVATIONS SHALL BE PROPERLY MARKED, PROTECTED AND BARRICADED FOR SAFETY UNTIL BACK FILL IS COMPLETE AND SURFACING FINISHED.

3.7 SHORING: CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIREMENTS FOR SHORING AND PROVIDING SHORING, SHOULD SITE AND/OR SOIL CONDITIONS WARRANT SHORING. REFERENCE SOIL REPORT FOR CONDITIONS WARRANTING SPECIAL REQUIREMENTS.

3.8 FILLING AND BACK FILLING: PLACE APPROVED FILL MATERIAL IN STRICT ACCORDANCE WITH TANK AND PIPING MANUFACTURER'S SPECIFICATIONS. PROVIDE A 12" BED OF APPROVED BACK FILL OVER BOTTOM OF EXCAVATION PRIOR TO TANK PLACEMENT. BACK FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 12" LIFTS.

3.9 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING PREMISES CLEAN AND NEAT AT ALL TIMES.

SECTION IV TANK INSTALLATION

REFER TO TANK MANUFACTURER'S CRITERIA AND SPECIFICATIONS FOR TANK INSTALLATION AND EQUIRED.

NIMUM CLEARANCE FOR TANKS SHALL BE AS FOLLOWS: SHOULD REQUIREMENTS OF TANK OR SOIL CONDITIONS DICTATE GREATER CLEARANCE, ADHERE TO ACCORDINGLY.

BOTTOM: PROVIDE MINIMUM OF 12" BEDDING MATERIAL BETWEEN BOTTOM OF EXCAVATION OR PAD AND BOTTOM OF TANK.

3.3 TESTING: PRIOR TO INSTALLATION OF TANKS, TESTING PER MANUFACTURER'S INSTRUCTIONS SHALL BE PERFORMED ON TANK(S). ON DUAL WALL TANKS, CONSULT TANK MANUFACTURER FOR TESTING CRITERIA.

> TANKS SHALL BE BURIED TO MINIMUM DEPTH AS PER ABOVE AND AS SHOWN ON FUELING DRAWINGS. TANKS MAY REQUIRE GREATER BURIAL DEPTH IF INSTALLED IN REMOTE POSITION TO ALLOW FOR PROPER SLOPE ON VENT LINES, VAPOR LINES, SECONDARY CONTAINMENT PRODUCT LINES. VERIFY DEPTH AS REQUIRED. (IF BURIAL DEPTH EXCEEDS 5'-0" (60"), NOTIFY 7-ELEVEN MANAGER)

Rev. # Date Description	Pro	to 20:	24-05	5	
7-ELEVEN, INC.	3200 HACKBERRY ROAD, IRVING TEXAS 75063	7-ELEVEN #40569 2700 HUNTER RD. STE B	SAN MARCOS, TX 78666	FUELING SPECIFICATIONS	
		GROUP		TEXAS REGISTERED ENGINEERING FIRM NUMBER: F-9349	EXPIRATION: 07/31/2025
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SECTION IV TANK INSTALLATION - CONTINUED

PART 3 - INSTALLATION - CONTINUED

- 3.5 PLUGS: ALL UNUSED PLUGS SHALL BE REMOVED. APPLY COMPATIBLE NON-HARDENING PIPE SEALANT TO INTERNAL BUSHING THREADS. PERMANENT METAL PLUGS SHALL BE INSTALLED AT ALL UNUSED OPENINGS.
- 3.6 THE PLUGS IN TANK OPENINGS WHICH ARE TO BE USED SHALL NOT BE OVER TIGHTENED AS THIS MAY CAUSE THE BUSHING TO UNSCREW WITH THE PLUG. CARE SHALL BE TAKEN NOT TO CROSS THREAD OR DAMAGE THE NON- METALLIC BUSHINGS WHEN REPLACING PLUGS OR INSTALLING REQUIRED TANK PIPING.
- 3.7 WET HOLE INSTALLATION: SHOULD GROUND WATER BE PRESENT IN TANK EXCAVATIONS, 7-ELEVEN'S LOCAL CONSTRUCTION ENGINEER MUST BE NOTIFIED.
 - 3.7.1 WELL POINT: WATER SHALL BE KEPT AT LOWEST POSSIBLE POINT BY WELL POINT SYSTEM(S) AND PROPERLY SIZED PUMP(S).
 - 3.7.2 ANCHOR STRAPS: DEAD MAN AS PER TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS. PLACE 6" FROM OUTSIDE VERTICAL LINE OF TANK(S) AS DENOTED ON DRAWINGS.
 - TIE DOWNS: SUPPLIED BY TANK MANUFACTURER. 3.7.3
 - 3.7.4 TAKE-UP FIXTURE & TURNBUCKLE: TO REMOVE CABLE SLACK, UTILIZE THE TAKE-UP FIXTURE FOR 8' DIA. TANK: MIN SIZE 26" MAX SIZE 43". WEIGHT 16 LB.
 - STRAP PLACEMENT: AS PER TANK MANUFACTURER'S SPECIFICATIONS. 3.7.5
 - 3.7.6 COATING: COVER ALL NON-GALVANIZED HARDWARE WITH TWO (2) COATS OF ASPHALT IMPREGNATED WITH WATERPROOFING PRIOR TO PLACEMENT OF BACKFILL.
- 3.8 LIFTING: TANKS SHALL BE LIFTED ONLY AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, UTILIZING LIFTING LUGS PROVIDED ON TANKS, TANKS SHALL NOT BE ROLLED, DROPPED OR WRAPPED WITH CHAINS, EQUIPMENT OF SUFFICIENT SIZE, DESIGN AND LIFT CAPACITY SHALL BE UTILIZED FOR SETTING OF TANKS. SHOULD TANKS BE BUMPED, DENTED, DROPPED OR MISHANDLED IN ANY WAY, INSTALLATION SHALL BE HALTED AND TANK MANUFACTURER'S REPRESENTATIVE IMMEDIATELY CONTACTED FOR RE-CERTIFICATION OF TANKS. CONTACT LOCAL CONSTRUCTION OFFICE OR SITE MANAGER IMMEDIATELY UPON NOTICE OF QUESTIONABLE HANDLING OF TANKS OR NOTABLE DAMAGE THERETO.
- 3.9 BACK FILL PLACEMENT: ONCE TANKS ARE PROPERLY SET IN PLACE, CAREFULLY BACK FILL ENTIRE EXCAVATION, HAND SHOVELING AND TAMPING ALONG BOTTOM OF TANK(S) SO THEY ARE EVENLY SUPPORTED AROUND BOTTOM. SPECIAL ATTENTION SHALL BE PAID TO BOTTOM QUARTER POINTS ELIMINATING ANY VOIDS IN FILL AT THESE POINTS. DO NOT DROP BACK FILL FROM HIGH DISTANCE ONTO TANKS. TAMP AS REQUIRED TO ACHIEVE ACCEPTABLE DENSITY. BACKFILL PLACEMENT PER MANUFACTURER INSTALLATION SPECIFICATIONS.
- 3.10 BALLASTING: TANKS SHALL BE FILLED WITH BALLAST (WATER) TO AVOID SHIFTING MOVEMENT. COST OF WATER AND REMOVAL SHALL BE CONTRACTOR COST. DO NOT INSTALL SUBMERGIBLE PUMPS IN TANKS FILLED WITH WATER. DO NOT BALLAST TANKS ABOVE LEVEL OF BACKFILL.
- 3.11 PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR TANK EXCAVATION FROM SURFACE WATERS WITH DAMS, BERMS, OR OTHER MEANS PENDING COMPLETION OF INSTALLATION. EXCAVATION SHALL BE MARKED AT ALL TIMES WITH LIGHTED BARRICADES UNTIL INSTALLATION IS COMPLETE. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATION. DE-WATER AS REQUIRED TO MAINTAIN EXCAVATION AS DRY AS POSSIBLE.

SECTION V CONCRETE

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO CONCRETE.

PART 2 - PRODUCTS

2.1 MATERIALS:

- 2.1.1 AIR ENTRAINING AGENT: ASTM C 260-60-T. "PROTEX" MANUFACTURED BY PROTEX INDUSTRIES OR APPROVED EQUAL.
- 2.1.2 PORTLAND CEMENT: CONFORM TO ASTM C-150 TYPE I; TYPE II WHERE WATER SOLUBLE SULFATES ARE PRESENT.
- AGGREGATES: CONFORM TO ASTM C-33. 2.1.3
- WATER: SHALL BE CLEAN AND POTABLE. 2.1.4
- 2.1.5 SAND: CONFORM TO ASTM C-144.
- 2.1.6 STEEL REINFORCING: CONFORM TO ASTM A-615, GRADE 60 (EXCEPT WHERE NOTED OTHER WISE) YIELD STRENGTH 60,000 PSI.

2.1.6A SYNTHETIC FIBER: ASTM C 1116/C 116M, TYPE III, POLYPROPYLENE FIBERS, 1/2 TO 3/4 INCHES LONG.

- 2.1.7 NOT USED.
- 2.1.8 FORMS: CLEAN, STRAIGHT LUMBER OF MOISTURE RESISTANT PLYWOOD. KNOT HOLES, DEFORMATIONS, ETC., SHALL NOT BE ALLOWED.
- 2.1.9 EXPANSION JOINT FILLERS: ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM D-60-T. USE 1/2" THICK OR AS INDICATED ON DRAWINGS. TOP OF JOINT MATERIAL SHALL BE SET 1/2" BELOW TOP SURFACE OF SLAB. FILL VOID WITH GASOLINE RESISTANT SEALER.
- 2.1.10 CALCIUM CHLORIDE: NOT PERMITTED.
- 2.2 CONCRETE PROPORTIONS: CONCRETE SUPPLIER SHALL DESIGN CONCRETE MIX AND SHALL GUARANTEE CONCRETE STRENGTH. ALL CONCRETE, UNLESS NOTED OTHERWISE ON DRAWINGS, OR REQUIRED OTHERWISE BY CODES, SHALL BE DESIGNED FOR 4,000 PSI STRENGTH AT 28 DAYS WITH NOT LESS THAN 5 1/2 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE. NOT MORE THAN 6 1/2 GALLONS OF WATER PER BAG OF CEMENT AND NOT MORE THAN A 4" SLUMP. AIR CONTENTS SHALL RANGE BETWEEN 4% AND 7%.

PART 3 - EXECUTION

- 3.1 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS BY MEANS OF LINE AND GRADE STAKES AND SCREEDS.
- 3.2 FORM WORK: BUILD FORMS TO CONFORM TO SHAPE, LINES AND DIMENSIONS OF CONCRETE MEMBERS. BRACE AND SECURE TO WITHSTAND PLACING OF CONCRETE AND MAINTAIN THEIR SHAPES AND POSITIONS. MAKE FORMS SUFFICIENTLY TIGHT AND SUBSTANTIALLY ASSEMBLED TO PREVENT BULGING OR LEAKAGE. ASSEMBLE FORMS IN SUCH A MANNER TO FACILITATE THEIR REMOVAL WITHOUT DAMAGE TO CONCRETE. FORMS SHALL BE IN OR NEAR NEW CONDITION; CLEAN, SMOOTH AND WITHOUT INDENTATIONS OR BENDS. INSTALL SLEEVES, MANHOLES, CAPS, BOXES AND POSTS IN PROPER LOCATIONS AND HEIGHTS. EXPANSION JOINTS SHALL CONSIST OF FILLER STRIPS INSTALLED WITH TOP AT ELEVATIONS OF FINISHED CONCRETE. NEATLY FINISH EDGES OF EXPOSED CONCRETE ALONG JOINTS WITH A SLIGHTLY ROUNDED EDGING TOOL.
- 3.3 REINFORCEMENT: FURNISH AND INSTALL ALL REINFORCING STEEL INDICATED ON DRAWING METAL REINFORCEMENT AT THE TIME CONCRETE IS PLACED, SHALL BE FREE FROM COATINGS WHICH WILL DESTROY OR REDUCE THE BOND. METAL REINFORCEMENT SHALL BE STORED SO AS TO PREVENT FREEZING FOR A MINIMUM OF 48 HOURS PRIOR TO PLACEMENT ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH STANDARDS OF ACI. METAL REINFORCEMENT SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. SPLICES IN ADJACENT BARS SHALL BE LAPPED 36 DIAMETERS AT CORNERS AND SPLICES, AS REQUIRED.
 - 3.3.1 SYNTHETIC FIBER: UNIFORMLY DISPERSE IN CONCRETE MIXTURE AT MANUFACTURER'S RECOMMENDED RATE, BUT NOT LESS THAN 1.5 LBS.
- 3.4 MIXING AND TRANSPORTING CONCRETE: CONCRETE SHALL BE READY MIXED AND SHALL MEET REQUIREMENTS OF ASTM C-94 FOR MIXING AND DELIVERY, FURNISH DUPLICATE DELIVERY TICKETS OF EACH TRUCK LOAD TO OWNER'S LOCAL CONSTRUCTION OFFICE WHEN REQUIRED. TICKETS SHALL SPECIFY STRENGTH, SLUMP, AGGREGATE SIZES, AIR ENTRAINMENT (IF ANY) AND BRAND OF CEMENT. NOTE: DO NOT ADD WATER ON SITE TO ADJUST SLUMP.
- 3.5 PLACING CONCRETE:
 - NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE OWNER'S LOCAL CONSTRUCTION OFFICE AT 3.5.1 LEAST 48 HOURS BEFORE PLACING ANY CONCRETE. THE CONTRACTOR SHALL NOTIFY ALL TRADES AFFECTED BY CONCRETE PLACEMENT AT LEAST 24 HOURS BEFORE PLACING ANY CONCRETE IN ORDER THAT TRADES AFFECTED MAY INSTALL REQUIRED BLOCKING, SLEEVED, POCKETS, ETC.
 - 3.5.2 PROTECTION: PROTECT ALL WORK OF OTHER TRADES AS REQUIRED.
 - 3.5.3 WETTING: THOROUGHLY WET FORMS AND DAMPEN SAND CUSHIONS BEFORE PLACING CONCRETE.
 - PLACING: PLACE ALL CONCRETE IN ACCORDANCE WITH ACI 614. MINIMUM CONCRETE COVER OVER 3.5.4 REINFORCEMENT SHALL CONFORM TO ACI 318. USE HANDLING EQUIPMENT AND METHODS TO INSURE A CONTINUOUS FLOW FROM MIXER TO PLACE OF DEPOSIT SPACE, TAMP AND MECHANICALLY VIBRATE FRESHLY PLACED CONCRETE TO COMPACT THOROUGHLY AND ELIMINATE VOIDS. DO NOT ALLOW FREE FALL OF CONCRETE TO EXCEED 5'.
- 3.6 FINISHING CONCRETE:
 - SLABS SHALL BE A TRUE PLANE SURFACE WITH NO DEVIATION IN EXCESS OF 1/4" WHEN TESTED 3.6.1 WITH A 10' STRAIGHTEDGE AT 3' INTERVALS IN BOTH DIRECTIONS. SCREED AND FLOAT CONCRETE FOR SLAB WITH STRAIGHT EDGES TO BRING SURFACE TO REQUIRED FINISHED LEVEL. WOOD FLOAT CONCRETE WHILE STILL GREEN TO A TRUE, EVEN SURFACE WITH NO COARSE AGGREGATE VISIBLE. AFTER SURFACE MOISTURE HAS DISAPPEARED, STEEL TROWEL SURFACE TO A SMOOTH, EVEN FINISH, FREE FROM BLEMISHES AND TROWEL MARKS. AFTER TROWELING, BRUSH SURFACE OF CONCRETE WITH BRISTLE BROOM TO RESULT IN A MEDIUM, UNIFORM, NON-SLIP TEXTURED SURFACE. STROKE CROSSWISE TO LENGTH
- 3.7 CURING: UTMOST CARE SHALL BE TAKEN TO ACHIEVE A UNIFORM, PROTECTIVE CURE FOR ALL SLABS. DO NOT USE CALCIUM CHLORIDE. CURING METHODS SHALL CONFORM TO ACI STANDARD 605-99 AND ACI STANDARD 306-66.
- 3.8 REMOVAL OF FORMS: DOT NOT REMOVE FORMS UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ANY SUPERIMPOSED LOADS.
- 3.9 PATCHING: NO PATCHING SHALL OCCUR UNTIL APPROVED BY OWNER.
- 3.10 TEMPERATURE:
 - COLD WEATHER: WHEN MEAN DAILY TEMPERATURE OF THE ATMOSPHERE IS LESS THAN 40 3 10 1 DEGREES FAHRENHEIT, MAINTAIN TEMPERATURE OF CONCRETE BETWEEN 50 AND 70 DEGREES FAHRENHEIT FOR MINIMUM OF 72 HOURS.
 - HOT WEATHER: MAKE ARRANGEMENTS FOR INSTALLATION OF WINDBREAKS, SHADING, FOG SPRAY, 3.10.2 SPRINKLING, PONDING OR WET COVERING IN ADVANCE OF PLACEMENT. TAKE SUCH PROTECTIVE MEASURES AS QUICKLY AS CONCRETE HARDENING AND FINISHING OPERATIONS WILL ALLOW.
- 3.11 TESTING: CONCRETE TESTS SHALL BE ORDERED AT THE DISCRETION OF THE OWNER'S CONSTRUCTION MANAGER. THE OWNER SHALL PAY FOR ALL CONCRETE TESTING. COMPACTION TESTS SHALL BE REQUIRED PRIOR TO PLACEMENT OF ANY CONCRETE ON GRADE. CONTRACT OWNER'S ENGINEERING SERVICES FOR COMPACTION TESTING TESTS. TESTS WILL BE PAID FOR BY OWNER.
- 3.12 THICKNESS:
 - 3.12.1 SLAB OVER TANKS SHALL BE 8" CONCRETE SLAB WITH SYNTHETIC FIBERS. REFER TO STD-CPC-1 FOR DETAILS.
 - CANOPY SLABS SHALL BE 6" CONCRETE SLAB WITH SYNTHETIC FIBERS. REFER TO STD-CPC-1 FOR 3.12.2 DETAILS.
- 3.13 CANOPY FOOTINGS: CANOPY FOOTINGS SHALL BE INSTALLED BY FUEL CONTRACTOR AS PER SHOP DRAWINGS SUPPLIED BY THE CANOPY COMPANY. ALL MATERIALS SHALL BE EQUAL TO OR BETTER THAN SPECIFIED ELSEWHERE IN THIS SECTION.
- 3.14 PROTECTION OF ALL CONCRETE SURFACES: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROTECT ALL CONCRETE SURFACES AGAINST ANY DAMAGE WHATSOEVER, INCLUDING EXCESSIVE LOADING, SHIPPING, CRACKING, STAINING, PAINT SPLATTERS, ETC. THE OWNER EXPECTS EXPOSED CONCRETE SURFACES TO BE CLEAN AND OF UNIFORM COLOR AND TEXTURE AT COMPLETION OF THE PROJECT. REPLACE ANY CONCRETE DAMAGE DURING CONSTRUCTION.
- 3.15 GRADE CONTROL: ESTABLISH AND MAINTAIN LINES AND GRADES FOR CONCRETE ITEMS.

SECTION VI PIPING

PART 1 - GENERAL

INSTALLATION.

PART 2 - PRODUCTS

- DISPENSER ISLAND TO TANK.
- SPECIFICATIONS.

PART 3 - INSTALLATION

- PROCEDURES.
- CONDITION.
- SERVICE HAS BEEN PROVIDED.

- SHALL BE USED.
- MATERIALS SUPPLIED BY OWNER.

- ALL TIMES.

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND RELATED APPLIANCES REQUIRED IN CONJUNCTION WITH OR INCIDENTAL TO A COMPLETE PIPING SYSTEM FOR A GASOLINE

2.1 PRODUCT PIPING: PRODUCT PIPING AND FITTINGS SHALL BE DOUBLE WALL RIGID FIBERGLASS PIPING AS SPECIFIED BY 7-ELEVEN. PIPING MUST SLOPE 1/8" PER FOOT MINIMUM FROM DISPENSER ISLAND TO STP SUMP.

2.2 VENT PIPING: PIPING SHALL BE FIBERGLASS PIPE. VENT LINE RISERS SHALL BE BLACK IRON PIPE AND EXTEND 5' ABOVE ADJACENT STRUCTURE OR 12'-0" ABOVE FINISHED GRADE. VENT LINE RISERS SHALL NOT BE INSTALLED ON BUILDING UNLESS APPROVED IN WRITING.

2.3 STAGE II VAPOR RECOVER PIPING: PIPING SHALL BE FIBERGLASS. PIPING MUST SLOPE 1/8" PER FOOT MINIMUM FROM

2.4 BACK FILL: ALL MATERIAL SHALL COMPLY WITH SPECIFICATIONS FOR APPROVED MATERIAL AND AS PER MANUFACTURER'S

3.1 ALL PRODUCT PIPING AND SPECIALTIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND STATE AND LOCAL CODES.

3.2 THE DRAWINGS ARE DIAGRAMMATIC AND THE FINAL ARRANGEMENT OF THE WORK SHALL SUIT FIELD CONDITIONS, THE CHARACTERISTICS OF THE MATERIALS USED, AND THE INSTRUCTIONS OF THE CONSTRUCTION MANAGER. VERIFY ALL DIMENSIONS IN THE FIELD. ACCESS AND CLEARANCES MUST BE PROVIDED AND MAINTAINED FOR THE PROPER OPERATION. MAINTENANCE, SERVICE AND REPAIR OF THE WORK.

3.3 LOCATE, IDENTIFY AND MARK EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK BEFORE STARTING EARTHWORK OPERATIONS. IF UTILITIES ARE TO REMAIN IN PLACE PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK

3.4 SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE CONSTRUCTION MANAGER IMMEDIATELY FOR DIRECTIONS AS TO PROCEDURE. COOPERATE WITH THE OWNER AND PUBLIC AND PRIVATE UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES IN SATISFACTORY

3.5 VERTICAL RISERS FROM TANKS FOR ALL FILL PIPES, VAPOR RECOVERY ADAPTERS AND AUTO GAUGING ADAPTATIONS SHALL BE A 4" DIAMETER PIPE.

3.6 DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER, AND THE ONLY AFTER ACCEPTABLE TEMPORARY UTILITY

3.7 CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN-OFF AREA. DO NOT USE TRENCH EXCAVATIONS FOR SITE UTILITIES AS TEMPORARY DRAINAGE DITCHES. REMOVE ALL TRASH, DEBRIS AND FOREIGN MATERIAL FROM TRENCHES PRIOR TO PLACING PIPING MATERIAL.

3.8 ALL PRODUCT, VAPOR RECOVERY AND VENT LINES SHALL SLOPE UP FROM TANKS. A MINIMUM OF 2" IN 8' (1/8" /FT) WITH NO SAG OR TRAPS. LINES SHALL BE IN TRENCHES WITH A MINIMUM OF 6" OF BACK FILL MATERIAL BELOW AND ON EITHER SIDE AND A MINIMUM OF 18" OF BACK FILL MATERIAL ABOVE.

3.9 SUBMERGED PUMP, FILL PIPE, AUTO GAUGING ADAPTERS AND VAPOR RECOVERY ADAPTER SHALL BE LOCATED AT TANK OPENINGS AS SHOWN ON DRAWINGS.

3.10 FILL PIPE SHALL HAVE OVER SPILL CONTAINMENT SYSTEM INSTALLED AS SHOWN ON DRAWINGS.

3.11 FILL PIPE SHALL HAVE SUBMERGED FILL TUBE. FILL PIPE AND VAPOR RECOVERY RISER SHALL BE CUT TO THE PROPER LENGTH SO THAT FINISHED HUB HEIGHT WILL BE WITHIN 5" (+ OR - 1") OF THE TOP OF THE MANHOLE.

3.12 OVERFILL PREVENTION DEVICES SHALL BE INSTALLED AS SHOWN IN DRAWINGS.

3.13 REMOTE PUMP SHEAR VALVES SHALL BE INSTALLED ON THE PRODUCT LINES UNDER EACH DISPENSER AND SECURED TO THE DISPENSER BOX. THESE VALVES MUST BE INSTALLED WITH THE SHEAR SECTION FLUSH AT THE TOP OF THE DISPENSER SUMP, AS DENOTED ON PLANS.

3.14 AFTER ALL PIPING IS COMPLETE AND PRIOR TO BACK FILLING, ALL PIPING INCLUDING VENT LINES SHALL BE ISOLATED FROM THE TANK AND TESTED PER MANUFACTURER'S TESTING INSTRUCTIONS.

3.15 IF SUBMERGED, PUMP RISER IS TO BE LENGTHENED, THE PROPER 4" THIN WALL RISER AS PRODUCED BY MANUFACTURER

3.16 ALL VALVES AND PRODUCT HANDLING EQUIPMENT SHALL BE AS SHOWN ON EQUIPMENT LIST. REFER TO LIST OF

3.17 OBSERVATION WELLS WHEN REQUIRED SHALL BE INSTALLED. WELLS ARE TO BE POSITIONED IN EXCAVATION HOLE PRIOR TO PLACING BEDDING MATERIAL AND SUPPORTED TO REMAIN VERTICAL DURING BACK FILL OPERATIONS. BOTTOM OF OBSERVATION WELL(S) SHALL BE 12" MINIMUM BELOW THE BOTTOM OF TANK EXCAVATION PIT. TOP OF PIPE TO TERMINATE IN 12" DIAMETER OBSERVATION BOX. SLOTTED SAMPLE WELL MATERIAL SHALL BE FURNISHED BY CONTRACTOR. LOCKING CAPS AND KEYED ALIKE LOCKS PROVIDED TO 7-ELEVEN, INC. REPRESENTATIVE.

3.18 CODES: THE NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, & NFPA 30A AUTOMOBILE AND MARINE SERVICE STATION CODE. IS BY REFERENCE MADE A PART OF THIS SPECIFICATION. SAID CODE SHALL DICTATE MINIMUM ACCEPTABLE STANDARDS. CODE SHALL BE ADHERED TO UNLESS LOCAL GOVERNING AUTHORITIES DICTATE HIGHER OR MORE STRINGENT REQUIREMENTS WHICH

3.19 STARTUP: PRIOR TO STARTUP AND CHECK-OUT OF SYSTEM, PRODUCT LINES SHALL PASS HYDROSTATIC LINE TEST. ALL SITE IMPROVEMENTS. INCLUDING PAVEMENTS AND UTILITIES, SHALL BE COMPLETED PRIOR TO THIS TEST.

3.20 INSPECTIONS: PIPING INSPECTION SHALL BE PERFORMED BY 7-ELEVEN, INC.'S APPOINTED REPRESENTATIVE.

3.21 CLEANUP: CLEANUP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT

Date Description					
Rev.#D					
7-ELEVEN, INC.	S 75063			FLIFLING SPECIFICATIONS	
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SECTION VII ELECTRICAL WORK

PART 1 - GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:
 - 1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANEL BOARD OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC,
 - CONDUIT AND WIRING SYSTEM FOR INTERCOM. 1.1.2
 - WIRING SYSTEM TO SERVE ALL ELECTRIC-USING DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL 1.1.3 EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT.
 - POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT. 1.1.4
 - 1.1.5 ALL CONDUITS, CONNECTIONS, WIRE AND STUB-OUTS FOR FASCIA SIGN(S) (WHEN SHOWN), CANOPY LIGHTS, PRICE SIGN(S) AND CANOPY MOUNTED FLOOD LIGHTS.
 - CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS. 1.1.6
 - 1.1.7 ALL TRENCHING, EXCAVATIONS AND BACK FILL AS REQUIRED IN CONJUNCTION WITH ELECTRICAL WORK.
 - INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT 1.1.8 WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRIC CODE.
- 1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY REPORT TO OWNER IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
- 1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.
- 1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO ENTIRE INSTALLATION SO THAT THE ENTIRE PROJECT CAN BE COMPLETED PER CONSTRUCTION SCHEDULE.
- 1.5 CUTTING AND REPAIRING: PROVIDE ALL CUTTING, CHANNELING, PATCHING, ETC. AS NECESSARY FOR ELECTRICAL WORK UNDER DIRECTION OF GENERAL CONTRACTOR. WORK FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. MAKE REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR THE ELECTRICAL SUBCONTRACTOR.

PART 2 - PRODUCTS

- 2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION WITH DYMO TAPE OR EQUAL FOR ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCH GEAR. PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.
- 2.2 LIGHT FIXTURES: TO BE PROVIDED BY OWNER
- 2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE WITH THE SPECIFIC APPLICATION OF LOCATION INDICATED.
 - TYPICALLY USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" 2.3.1 ELECTRICAL CONDUITS AT FIBERGLASS TANK SUMPS OR WHERE BRAVO F-17-RR OR F-10-RR ENTRY FITTINGS ARE CALLED OUT FOR FIRST 10' OF RUN. TRANSITION TO RIGID NONMETALLIC CONDUIT (RNC) WHERE ALLOWED BY JURISDICTION. UNLESS NOTED OTHERWISE

STP POWER CONDUITS MUST BE RUN IN SEPARATE RACEWAY. ENTIRE WIRING RUN MUST BE IN RIGID PVC COATED GALVANIZED STEEL CONDUIT. USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS. NO PVC OR RNC CONDUIT ALLOWED.

RUN PVC COATED GALVANIZED STEEL FOR WIRING RUNS EXPOSED TO THE WEATHER; FOR ENCLOSING MAIN GROUNDING CONDUCTOR: WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED.

WITH THE EXCEPTION OF THE FIRST 10' AND THE LAST 10' OF THE UNDERGROUND RUN AND ONLY WHERE AHJ ALLOWS, RIGID NONMETALLIC CONDUIT (RNC) IS ALLOWED FOR UNDERGROUND RUNS IF CONDUIT IS BURIED AT A MINIMUM OF 2'.

- SEAL-OFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, FILL 2.3.2 BUCKET, SUBMERSIBLE PUMPS AND N.E.C. CLASSIFIED AREAS (REF G9.1). SEAL-OFFS ARE ONLY REQUIRED ON CONDUITS THAT EXIT A CLASSIFIED AREA OR CONDUITS THAT RUN FROM DISPENSER TO DISPENSER. ALL CONDUITS THAT EXIT A CLASSIFIED AREA SHALL BE SEALED AT BOTH ENDS. SEAL-OFFS SHALL NOT BE REQUIRED FOR CONDUITS FROM SUMP TO SUMP.
- 2.3.3 N.E.C. APPROVED EXPLOSION PROOF WIRE PULL BOX.
- 2.4 CONDUCTORS:

FURNISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED. 2.4.1 MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (60 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING; TYPE THN OR THWN-2 (90 DEGREES CENTIGRADE) FOR SUPPLY CONNECTIONS TO LIGHT FIXTURES. INSTALL PER COLOR CODE OF NEC.

- 2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.
 - VARIABLE SPEED PUMP CABLE: THWN-2 "12 AWG 4 CONDUCTOR 600V SHIELDED, GAS/OIL RESISTANT".
 - DATA COMMUNICATION CABLE
 - SHIELDED WIRE MUST NOT BE USED:
 - 2 WIRE TWISTED PAIR (UTP) W/ 10-12 TWISTS PER FOOT.
 - WIRING IS STRANDED ANNEALED COPPER TINNED WITH 18 AWG MINIMUM REQUIRED FOR RUNS UP TO 1000 FEET OR 14 AWG FOR RUNS UP TO 2600 FEET. DO NOT DAISY CHAIN COMMUNICATION WIRING
 - INSULATION SPEC IS 300V, PVC INSULATION, TYPE TFFN OR MTW, UL APPROVED GASOLINE AND OIL RESISTANT.

2.5 SPLICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES. PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES WITH OVERALL NYLON INSULATORS FOR CONDUCTORS. CONNECTORS SHALL BE 3M "SCOTCHLOK", BUCHANNAN SPLICE CAPS WITH INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL

- 2.6 PANEL BOARDS:
 - 2.6.1 BRANCH CIRCUIT PANEL BOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANEL BOARDS WITH THERMAL MAGNETIC, MOLDED CASE, "SQUARE D" TYPE NLAB OR APPROVED EQUAL, WITH PLUG-IN CIRCUIT BREAKERS, "SQUARE D" TYPE NLQT. PROVIDE GROUNDING TERMINAL BLOCK IN EACH PANELBOARD. SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.
 - SUBSTITUTES: DISTRIBUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY IN 2.6.2 ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY G.E., CUTLER-HAMMER, FEDERAL PACIFIC. ITE. SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES ONLY WHEN APPROVED IN WRITING.

SECTION VII ELECTRICAL WORK - CONTINUED

PART 3 - EXECUTION

- 3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOKUPS AND MISCELLANEOUS PROCEDURES WITH ALL OTHER TRADES THAT WILL BE INVOLVED TO EXPEDITE THE COMPLETION OF THE CONTRACT. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
- 3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR ALL WIRING AND CONDUCTORS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOW REQUIREMENTS:
 - CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER'S 3.2.1 CONSTRUCTION MANAGER IN WRITING.
 - ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED; CONDUITS AT TANKS SHALL NOT CROSS 3.2.2 OVER TANKS. PLACE CONDUIT THROUGH EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.
 - CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN. 3.2.3
 - FLASH AND COUNTER FLASH CONDUITS WHICH PENETRATE THE CANOPY DECKING. 3.2.4
 - 3.2.5 PROVIDE SEAL-OFF FITTINGS WHERE CONDUIT RUNS ENTER OR LEAVE HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.
 - FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS 3.2.6 INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM. GAS PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON GASOLINE DRAWINGS. ADDITIONAL CONDUITS AND CIRCUITS WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.
- 3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS BE REQUIRED, VERIFY THROUGH LOCAL CONSTRUCTION OFFICE AND PROVIDE AS REQUIRED.
- 3.4 SIGNS AND LIGHTED FASCIA: VERIFY FINAL LOCATIONS AND TYPE WITH OWNER. FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.
- 3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANEL BOARDS, SWITCH GEAR, ETC., TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER CRAFTS AND TRADES SO THAT ELECTRICAL EQUIPMENT WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR IMPERMEABLE. PROVIDE WEATHERPROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.
- 3.6 ISOLATED GROUND: IT IS MANDATORY THAT GASOLINE EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE PROVIDED WITH SAME. MINIMUM CIRCUITS REQUIRED, BUT NOT LIMITED TO, SHALL BE: INTERCOM, GAS CONSOLE AND GASOLINE TANK MONITORING SYSTEM.
- 3.7 EXCAVATION AND BACK FILLING: ALL EXCAVATION AND BACK FILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.
- 3.8 OPERATING AND ACCEPTANCE TESTS:

3.8.1 CONDUCT OPERATING TEST ON ENTIRE ELECTRICAL INSTALLATION; ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO STARTUP AND FINAL CHECK-OUT OF SYSTEM COVERED ELSEWHERE. DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER'S SPECIFIED REPRESENTATIVE. ANY DAMAGE TO OWNER'S EQUIPMENT DUE TO DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THAT SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.

- 3.8.2 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.
- 3.8.3 TEST GROUND: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.
- 3.8.4 INSPECT ALL PANELBOARDS. ALL CONNECTIONS MUST BE TIGHT AND SECURE.
- 3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER'S CONSTRUCTION MANAGER WITH ONE SET OF MARKED-UP PRINTS (HARDCOPY) AND ALSO IN AUTO CAD 2004 COMPATIBLE DRAWING FILE FORMAT (.DWG) SHOWING "AS-BUILT" INSTALLATION.
- 3.10 FINAL ACCEPTANCE: UPON COMPLETION OF WORK, PRESENT CERTIFICATE OF APPROVAL OF LOCATION OR GOVERNING INSPECTION AUTHORITY.
- 3.11 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

SECTION VIII PAINTING

PART 1 GENERAL

- 1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE COMPLETION OF ALL PAINTING OF SURFACES COMPLETE, INCLUDING PAINTING OF THE FOLLOWING SURFACES:
 - 1.1.1 MISCELLANEOUS METAL, DOWNSPOUTS, COLUMNS, POSTS, ISLAND FORMS, VENT RISERS, MANHOLE COVERS AND ELECTRICAL CONDUITS.
- 1.2 PAINTING DOES NOT INCLUDE:
 - PAINTING CANOPY SOFFITS. 1.2.1
 - PAINTING LIGHT FIXTURES. 1.2.2
 - PAINTING FUEL EQUIPMENT 1.2.3

1.3 COLOR SCHEDULE: COLOR OF PAINTS SHALL BE AS LISTED IN THE 7-ELEVEN STORE STANDARDS MANUAL

SECTION VIII CONTINUED

PART 2 - PRODUCTS

- MANUAL.

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2.2.2

PART 3 - EXECUTION

- DIRECTIONS.
- ALL TIMES.

SECTION IX CANOPIES

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING AND INSTALLATION OF ALL ITEMS FOR THE INSTALLATION OF A COMPLETE GASOLINE CANOPY INCLUDING:

- 1.1.1
- 1.1.2
- 1.1.3
- 1.1.4
- 1.1.5
- 1.1.6
- 1.1.7
- 1.1.8
- 1.1.9

PART 2 - PRODUCTS

	STEEL WITH MINIMUN DECK WILL BE ALUMI
2.2	STRUCTURAL STEEL:
	2.2.1
	2.2.2
	2.2.3

- 2.2.4
- 2.2.5
- 2.2.6

2.1 PAINT MANUFACTURERS AND PRODUCTS: PAINTING SYSTEM AS SPECIFIED WITHIN THE 7-ELEVEN STORE STANDARDS

2.2 PAINTING COATS AND PRODUCTS: SUPPLIED BY CONTRACTOR

- PAINT ALL MANHOLES COVERS AND 4" SURROUNDING CONCRETE, INSIDE AND OUT, IN ACCORDANCE WITH STANDARD INDUSTRY COLOR CODE AS SHOWN:
- API COLOR CODES: **OBSERVATION WELL** UNLEADED REGULAR UNLEADED PREMIUM UNLEADED REGULAR W/EXTENDER UNLEADED PREMIUM W/EXTENDER DIESEL VAPOR RECOVERY
- KEROSENE INTERSTITIAL

PAINT FASCIA SIGN FRAMES

PROVIDED BY MANUFACTURER WHITE W/BLACK CROSS **RED W/WHITE CROSS** WHITE W/BLACK CROSS & BLACK BAND RED W/WHITE CROSS & WHITE BAND SOLID YELLOW SOLID ORANGE SOLID BROWN BLACK

PAINT GLOSSY WHITE - 2 COATS

3.1 PROTECTION: COVER ENTIRE CONCRETE SURFACES. NO PAINT OR SOLVENT SHALL BE ALLOWED TO COME IN CONTACT WITH CONCRETE SURFACES. WHERE IT BECOMES NECESSARY, IN ORDER TO EXECUTE HIS OWN WORK, FOR PAINTER TO REMOVE COVERINGS, PLATES, ETC., PLACED BY OTHER CONTRACTORS IN ANY BRANCH OF THE WORK, HE SHALL REPLACE SAME IN PROPER MANNER. IN SITUATIONS WHERE SAID COVERINGS, PLATES, ETC., CANNOT BE READILY REMOVED, PAINTER SHALL PROTECT THE WORK IN SOME OTHER SATISFACTORY MANNER. OILY RAGS AND WASTE MUST BE REMOVED EVERY NIGHT. UNDER NO CIRCUMSTANCES SHALL THEY BE ALLOWED TO ACCUMULATE. PAINTING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE WORK OF OTHER SUBCONTRACTORS AND SHALL REPAIR OR REPLACE AS NECESSARY TO THE SATISFACTION OF THE OWNER.

3.2 PREPARATION OF SURFACES: INSPECT ALL SURFACES TO BE PAINTED. REPORT ANY DISCREPANCIES TO THE CONTRACTOR PRIOR TO START OF WORK. STARTING OF PAINT APPLICATION SHALL CONSTITUTE ACCEPTANCE OF SURFACES AS SUITABLE FOR THE RECEPTION OF PAINT APPLICATION. ALL SURFACES SHALL BE CLEAN AND DRY, BETWEEN 50 AND 90 DEGREES FAHRENHEIT AT TIME OF PAINT APPLICATION. CLEAN METAL OF MILL SCALE, RUST, OIL, GREASE AND FOREIGN MATTER. CLEAN GALVANIZED METAL ACCORDING TO SSPC-SP 1-63 SOLVENT CLEANING. PROTECT ADJACENT AND FINISHED WORK FROM PAINT.

3.3 APPLICATION OF PAINT: DO NOT THIN, ADULTERATE OR CHANGE MATERIALS EXCEPT AS RECOMMENDED BY MANUFACTURER. EMPLOY ONLY SKILLED MECHANICS FOR WORK. ALL PAINTING SHALL BE BRUSHED, SPRAYED OR ROLLED EVENLY FOR THOROUGH COATS WITHOUT RUNS, SAGS OR OTHER BLEMISHES. ALLOW EACH COAT TO DRY BEFORE APPLYING SUBSEQUENT COATS, ALL SURFACES TO RECEIVE A MINIMUM OF 2 COATS AS NECESSARY TO ACHIEVE AN APPROVED FINISH. APPLICATION OF PAINT, ETC., SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S

3.4 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT

- COMPLETE FABRICATION DRAWINGS INCLUDING FOOTINGS DESIGN.
- COMPLETE ABOVE GROUND STRUCTURAL SUPPORT SYSTEM.
- STEEL ROOF DECK AND GUTTER, 20 GA WHITE EMBOSSED.
- ROOF BRACING.
- CAP FLASHING.
- DOWN SPOUTS INTERNAL INSIDE COLUMNS.
- PERMITS AND INSPECTIONS DONE BY OTHERS.
- INSTALLATION AND FRAMING FOR OWNER SUPPLIED FASCIA SIGNS (ELECTRICAL BY OTHERS).
- INSTALLATION AND FRAMING FOR FASCIA MATERIAL AS PER OWNER SPECIFICATIONS.

2.1 EMBOSSED ROOF STEEL DECK: ROOF STEEL DECK SHALL BE 2 1/4" MINIMUM DEEP, 20 GAUGE HIGH REFLECTIVE WHITE STEEL WITH MINIMUM SECTION MODULES OF 0.25 IN 1/4 3 MOMENT OF INERTIA OF 0.030 IN 14/4 4. IN CERTAIN AREAS, ROOF INUM. VERIFY WITH LOCAL CONSTRUCTION MANAGER.

- ALL STRUCTURAL STEEL TO BE A.S.T.M. A-36 AND SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS OF A.I.S.C. AND WITH THE A.I.S.C. CODE OF STANDARD PRACTICE (LATEST EDITION).
- STRUCTURAL BOLTS SHALL CONFORM TO THE STANDARD SPECIFICATION A.S.T.M. A-307 AND SHALL BE PROVIDED WITH WASHERS UNDER THE NUTS.
- ALL OTHER BOLTS SHALL BE A-307 AND SHALL CONFORM TO A.S.T.M. STANDARDS, WITH WASHER REQUIRED.
- ALL HIGH STRENGTH BOLTS SHALL BE TORQUED TO PROVIDE A MINIMUM TENSION IN BOLT OF 90% OF MINIMUM PROOF LOAD OF THE BOLT
- TUBE COLUMNS SHALL COMPLY WITH A-500, GRADE B.
- ALL TUBE COLUMNS SHALL BE 46 KSI STEEL. 2.2.7 ALL WELDING SHALL BE WITH E70XX ELECTRODES AND BE ACCOMPLISHED BY CERTIFIED WELDERS.



SECTION IX CANOPIES - CONTINUED

PART 2 - EXECUTION

FASCIA:

2.3

3.1

A. PRE FINISHED METAL FASCIA SYSTEM. B. PRE FINISHED FASCIA MATERIAL AS SELECTED

PART 3 - GENERAL

FABRICATION DRAWINGS

3.1.1	CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEERED AND STAMPED SHOP DRAWINGS FOR OVERHEAD STRUCTURE AND FOUNDATION SYSTEMS.
3.1.2	DRAWINGS SHALL SHOW PROJECT LOCATION AND ADDRESS.
3.1.3	ORIGINAL ENGINEER'S STAMP FOR APPROPRIATE STATE SHALL BE AFFIXED TO EACH PAGE OF DRAWINGS.
3.1.4	SHOP DRAWINGS SHALL SPECIFICALLY CALL OUT SOILS REPORT NUMBER AND DATE FOR WHICH CANOPY FOOTINGS WERE DESIGNED.
3.1.5	SHOP DRAWINGS SHALL SPECIFICALLY CALL OUT SIZE, WEIGHT, TYPE AND NUMBER OF ALL STRUCTURAL MEMBERS.
3.1.6	ALL DESIGN LOADS SHALL COMPLY WITH CURRENT BUILDING CODES AND LOCAL BUILDING DEPARTMENT REQUIRED LOADINGS, WHICHEVER IS MOST STRINGENT. MINIMUM DESIGN LOADS SHALL BE CONSIDERED TO BE: WIND 100#, LIVE 35#, UPLIFT 35# AND DEAD LOAD 35# OR AS LOCAL STRUCTURAL DESIGN DICTATES. IF APPLICATION IS SUBJECT TO HIGH ALTITUDE (SNOW) LOADING, DESIGN SHALL BE ADJUSTED TO COMPLY ACCORDINGLY.
3.1.7	DEFLECTION OF ALL STRUCTURAL MEMBERS SHALL BE LIMITED TO SPAN/180 FOR L.L. ONLY.
3.1.8	ATTACH DECK STRUCTURAL SUPPORTS PER ENGINEERED DRAWINGS.
3.1.9	ROOF DECK SHALL BE AN ICC-ES APPROVED DIAPHRAGM DECK AND ATTACHED IN A MANNER THAT COULD BE CONSIDERED A DIAPHRAGM. AN ALTERNATE TO THIS IS 1/2" DIAMETER STEEL ROD DIAGONAL X-BRACING WITH TURNBUCKLES. LAYOUT OF ROD BRACING AND CONNECTIONS TO STRUCTURAL MEMBERS SHALL BE APPROVED BY STRUCTURAL ENGINEER.
3.1.10	CONCRETE FOOTINGS SHALL BE MADE WITH STONE AGGREGATE AND SHALL HAVE A COMPRESSIVE STRENGTH TO A MINIMUM 3000 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING.
3.1.11	ALL FOUNDATION METAL REINFORCEMENT SHALL BE OF FORMED TYPE BARS (EXCEPT #2 BARS) AND SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATION A.S.T.M. 615 GRADE 4 40".
3.1.12	THE SHOP DRAWINGS SHALL EXPLICITLY SHOW LOCATION OF DOWN SPOUTS, INTERIOR PVC DRAINS IN WARM WEATHER AREAS, ETC., AS RELATED TO ANY AND ALL UTILITIES AND/OR PIPING AT COLUMN LOCATIONS. ROOF DRAINS AND LEADERS SHALL BE DIRECTED DOWN THE INTERIOR CANOPY COLUMN EXITING SIDE OF ISLAND LEVEL OR ABOVE FINISH GRADE OF CONCRETE SIDE PAD ON DOWNHILL SIDE OF ISLAND.

3.1.13 INCLUDE IN DESIGN PROVISION FOR OVERFLOW DEVICE AT OPPOSITE CORNERS OF CANOPY.

- CONSTRUCTION NOT SPECIFICALLY INDICATED SHALL BE ACCOMPLISHED PER MINIMUM 3.1.14
- REQUIREMENTS OF THE UNIFORM BUILDING CODE, LATEST EDITION.
- 3.1.15 IF THERE ARE ANY CONFLICTS BETWEEN LINES ON DRAWINGS AND GENERAL NOTES OR WITH SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS GOVERN.
- 3.1.16 ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS SHALL BE APPROVED BY 7-ELEVEN, INC.'S CONSTRUCTION REPRESENTATIVE.

3.1.17 FABRICATION DRAWINGS SHALL BE DELIVERED TO APPLICABLE CONSTRUCTION OFFICE A MINIMUM OF 4 WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NO WORK SHALL COMMENCE PRIOR TO APPROVAL OF DRAWINGS BY 7-ELEVEN, INC.'S CONSTRUCTION REPRESENTATIVE.

PART 3 - GENERAL - CONTINUED

3.2	EXECUTION:	
	3.2.1	COORDINATE DELIVERY AND INSTALLATION WITH FUEL CONTRACTOR THROUGH LOCAL CONSTRUCTION OFFICE. MATERIALS SHALL BE STORED AT POSITION AS INDICATED BY FUEL CONTRACTOR.
	3.2.2	CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FOOTING ANCHOR BOLTS AND TEMPLATE FOR DELIVERY TO FUEL CONTRACTOR 2 WEEKS PRIOR TO INSTALLATION. SIZE IN ACCORDANCE WITH SHOP DRAWINGS AND IN ACCORDANCE WITH FUEL CONTRACTOR'S SCHEDULE OF CONSTRUCTION.
	3.2.3	FOOTINGS FOR CANOPY AND PLACEMENT OF ANCHOR BOLTS SHALL BE PERFORMED BY FUEL CONTRACTOR AS PER APPROVED SHOP DRAWINGS. TYPE OF CONCRETE SHALL BE AS PER SHOP DRAWINGS. TYPE, SIZE, AND PLACEMENT OF ALL REINFORCED STEEL SHALL BE AS PER SHOP DRAWINGS.
	3.2.4	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND NOTIFY 7-ELEVEN, INC.'S CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES FOUND. REFER TO SITE PLAN FOR SIZE, TYPE AND PLACEMENT OF CANOPY
	3.2.5	CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR BEING PROPERLY LICENSED IN LOCAL INSTALLATION AS WELL AS PROVIDING OWN PERMITS AS MAY BE REQUIRED. A COPY OF THE PERMIT MUST BE ON FILE IN THE LOCAL CONSTRUCTION OFFICE PRIOR TO COMMENCING WORK.
	3.2.6	CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION OFFICE WITH ACCEPTABLE INSURANCE AS REQUIRED PER 7-ELEVEN, INC. INSURANCE SPECIFICATIONS AND STANDARD CONTRACT FOR CONSTRUCTION. INSURANCE SHALL BE IN EFFECT FOR DURATION OF WORK.
	3.2.7	CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL WORK OF OTHER CONTRACTORS ALREADY IN PLACE, AS MAY BE REQUIRED.
	3.2.8	CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND OBTAINING APPROVAL OF FUEL CONTRACTOR PRIOR TO PLACING OF ANY HEAVY EQUIPMENT ON TOP OF CONCRETE WORK ALREADY IN PLACE.
	3.2.9	ALL FOOTINGS SHALL BE ON FIRM UNDISTURBED SOILS OR FILL COMPACTED TO 95% MAXIMUM DENSITY BASED ON A.S.T.M. D 1557-70. IF ANY POOR SOIL CONDITION IS DISCOVERED DURING EXCAVATION, THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR SOIL BEARING VERIFICATION.
	3.2.10	SUPPORTING COLUMNS SHALL BE PLACED AS PER 7-ELEVEN, INC. FUEL PLANS AND AS PER APPLICABLE SITE PLAN.
	3.2.11	CANOPY SUPPORT COLUMNS SHALL BE CAPPED AT TOP.
	3.2.12	ALL MATERIALS SHALL BE ALIGNED TRUE AND FLAT AND ALL PLANES SHALL BE FLAT, TRUE TO ESTABLISHED LINES WITH ALL SOFFITS BEING LEVEL AND VERTICAL WALLS CORRECT AND ACCEPTABLE. PARAPET FASCIA SHALL BE VERTICAL AND PLUMB. ALL INTERSECTIONS SHALL BE TRUE AND STRAIGHTEDGE LINES. MATERIALS SHALL BE LEFT IN ACCEPTABLE CONDITION TO BE PAINTED BY OTHERS. ALL METAL SHALL BE FREE OF DEBRIS AS MAY BE REQUIRED FOR FINAL PAINTING/FINISHING.
	3.2.13	FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR NON-SHRINK GROUT BENEATH BASE PLATE AND POURING OF CONCRETE AROUND CANOPY COLUMNS, COVERING ANCHOR BOLTS AS MAY BE REQUIRED.
	3.2.14	CANOPY CONTRACTOR SHALL LEAVE ALL EXPOSED STRUCTURAL STEEL FREE OF DEBRIS, PRIMED AND READY FOR FINAL PAINTING BY FUEL CONTRACTOR.
3.3	RESPONSIBILITIES OF	FUEL CONTRACTOR:
	3.3.1	SHALL BE RESPONSIBLE FOR A MINIMUM OF 30 DAY NOTIFICATION OF DATE WHEN SITE WILL BE READY FOR INSTALLATION OF GASOLINE CANOPY.
	3.3.2	UPON AGREED DATE BETWEEN FUEL CONTRACTOR AND CANOPY CONTRACTOR, THE SITE SHALL BE FREE OF MATERIAL, MOVABLE EQUIPMENT AND DEBRIS, LEVEL AND IN PROPER CONDITION FOR CANOPY INSTALLATION. FUEL CONTRACTOR SHALL PERFORM SITE WORK AS
	MAY BE R	EQUIRED TO COMPLY.
	3.3.3	FUEL CONTRACTOR SHALL NOT INSTALL GASOLINE DISPENSERS PRIOR TO CANOPY ERECTION, UNLESS AGREED UPON IN WRITING BETWEEN THE CANOPY CONTRACTOR AND FUEL CONTRACTOR.
	3.3.4	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CANOPY FOOTINGS AS DESIGNED IN SHOP DRAWINGS PROVIDED BY CANOPY MANUFACTURER, PROVIDING ALL STEEL, ETC., (WITH THE EXCEPTION OF ANCHOR BOLTS TO BE PROVIDED BY CANOPY CONTRACTOR). FOOTINGS SHALL BE POURED IN A SUFFICIENT AMOUNT OF TIME, SO PROPER CURING TIME IS ALLOWED.
	3.3.5	FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING OF ALL METAL AND TRIM AS RELATED TO THE GASOLINE CANOPY AS PER 7-ELEVEN STORE STANDARDS MANUAL.
	3.3.6	FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRING AND INSTALLATION OF LIGHTS, SIGNS, SECURITY LIGHTS, ETC., IN CONJUNCTION WITH NORMAL GASOLINE INSTALLATION. G.C. SHALL CAULK SEAL ALL LIGHT FIXTURES TO CANOPY DECK.
	3.3.7	FUEL CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING BLOCK OUTS AS MAY BY REQUIRED FOR INSTALLATION OF CANOPY IN ACCORDANCE WITH SHOP DRAWINGS. AND PLACEMENT OF

3.4 WARRANTIES: CANOPY CONTRACTOR SHALL WARRANTY, IN WRITING, COMPLETE CANOPY INSTALLATION FOR A MINIMUM PERIOD OF 2 YEARS. A 5 YEAR WARRANTY GUARANTEEING INSTALLATION TO BE FREE OF DESIGN AND INSTALLATION DEFECTS. EXCLUDING ACTS OF MAN, GOD AND NORMAL WEAR AND TEAR.

ANCHOR BOLTS IN ACCORDANCE WITH SHOP DRAWINGS AS RELATED THERETO.

3.5 CLEAN-UP: CANOPY CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL FROM SITE ALL TRASH AND DEBRIS RESULTING FROM WORK RELATING TO INSTALLATION OF CANOPY.

PROCEDURES FOR POST CONSTRUCTION TESTING

1.1 SCOPE OF WORK

THIRD PARTY TESTS ARE REQUIRED TO BE PERFORMED ON ANY POST CONSTRUCTION ACTIVITIES ASSOCIATED WITH NEW INSTALLATION, UPGRADE, REPLACEMENT OR REPAIR OF OR TO THE UNDERGROUND STORAGE TANK (UST) SYSTEMS, IF THE WORK INVOLVES PRODUCT PIPING, TANK SUMPS, DISPENSER SUMPS AND PANS OR SPILL CONTAINMENT BUCKETS.

TANKNOLOGY, INC IS CURRENTLY UNDER CONTRACT TO PERFORM ALL REQUIRED TESTS AS THE NATIONAL 3RD PARTY TESTING CONTRACTOR AND MUST BE USED TO PERFORM POST CONSTRUCTION TESTING TO ENSURE THAT 7-ELEVEN MAINTAINS CONTINUITY WITH THE COMPANY'S REGULATORY COMPLIANCE TESTING PROGRAM. THE ONLY EXCEPTION APPLIES IF LOCAL REGULATIONS REQUIRE THAT THE INSTALLATION CONTRACTOR PERFORM THE REQUIRED TESTS AND THE TESTS ARE WITNESSED ON SITE BY A REGULATORY ENTITY, IN THESE CASES THE INSTALLATION CONTRACTOR MUST SUBMIT DOCUMENTATION OF THE REGULATORY WITNESSED TESTS, AS WELL AS THE RESULT OF ANY SUCH TEST, DIRECTLY TO 7-ELEVEN, INC, COMPLIANCE DEPARTMENT.

IT WILL NOT BE NECESSARY FOR TANKNOLOGY TO RETEST A COMPONENT WHICH WAS TESTED BY THE CONTRACTOR, IF THAT TEST WAS WITNESSED BY A REGULATOR. IN THESE CASES THE CONTRACTOR MUST SUBMIT RESULTS OF THE TEST, AS WELL AS, COPIES OF REGULATOR INSPECTION REPORT WITHIN 48 HOURS OF COMPLETION OF THE TEST TO THE ADDRESS LISTED BELOW.

THE REQUIRED TESTS ARE DIVIDED INTO TWO CATEGORIES, PRE-FUEL TEST AND POST FUEL TEST.

THE TESTS PERFORMED DURING EACH PHASE ARE LISTED BELOW.

THE FOLLOWING TESTS ARE RECOMMENDED TO BE PERFORMED BEFORE FUEL IS INTRODUCED INTO THE UST SYSTEM:

PRE-FUEL TEST	ESTIMATED TEST DURATION
STP SUMPS	MINIMUM 4 HOURS
DISPENSER SUMPS/CONTAINMENT	MINIMUM 4 HOURS
SPILL CONTAINMENT BUCKETS	MINIMUM 1 HOUR

TANKNOLOGY MAY USE ONE OF THE FOLLOWING TEST METHODS: HYDROSTATIC, PRESSURE OR VACUUM.

WATER USED TO PERFORM THESE PRE-FUEL TESTS MAY BE DISCHARGED ON SITE AS LONG AS THE WATER WAS NOT IN CONTACT WITH ANY FUEL.

CONTRACTOR PREPARATION FOR PRE-FUEL (BEFORE DELIVERY) TESTING

- UPON. - 110 VOLT AC CURRENT MUST BE AVAILABLE

THE WATER WITH A PERMANENT MARKER.

POST-FUEL TEST	ESTIMATED TEST DURATION
TANK INTERSTICE	MINIMUM 1 HOUR PER TANK
TANK PRIMARY (TIGHTNESS)	MINIMUM 2 1/2 HOURS
LINE/PIPE INTERSTICE	MINIMUM 1 HOUR PER LINE/PIPE
LINE PRIMARY (TIGHTNESS)	COMPLETED DURING TANK TEST
LINE LEAK DETECTOR	COMPLETED DURING TANK TEST
STAGE II (WHERE APPLICABLE)	MINIMUM 3 HOURS
*AUTOMATIC TANK GAUGE (ATG) CERTIFICATION	MINIMUM 2 HOURS
OTHER (AS REQUIRED BY STATE OR LOCAL ORDINANCE	UNKNOWN

OF THE INSTALLING CONTRACTOR.

NOTE: WATER USED TO PERFORM TESTING OF (STP) SUMPS, DISPENSER SUMPS AND/OR SPILL BUCKETS, AFTER FUEL IS INTRODUCED/DELIVERED INTO THE UST SYSTEM CANNOT BE DISCHARGED ON SITE.

CONTRACTOR PREPARATION FOR POST-FUEL (AFTER DELIVERY) TESTING

- THE FUEL LEVEL MUST BE BETWEEN 70-80 PERCENT OF TANK CAPACITY

- UPON.
- -110 VOLT AC CURRENT MUST BE AVAILABLE

IT IS RECOMMENDED THAT THE CONTRACTOR PROVIDE NOTIFICATION TO TANKNOLOGY OF THE NEED TO PERFORM TESTS AT LEASE 14 DAYS PRIOR TO THE ANTICIPATION TEST DATE. HOWEVER, TO ENSURE TESTS ARE CONDUCTED IN A TIMELY MANNER A MINIMUM OF FIVE (5) DAYS IS REQUIRED. TANKNOLOGY UNDERSTANDS THAT ACTUAL DATE MAY CHANGE, BY PROVIDING THEM WITH AS MUCH TIME AS POSSIBLE ALLOWING THEM TO MAINTAIN A TIME SLOT IN THEIR SCHEDULE TO SHIFT AS NECESSARY. THE CONTRACTOR MUST KEEP TANKNOLOGY APPRISED OF THE ANTICIPATED DATE AND TIME THAT THE TESTING WILL BE NEEDED AS PROJECTED DATES CHANGE.

SECTION X POST CONSTRUCTION TESTING REQUIREMENT

PRE-FUEL TEST - TEST PERFORMED BEFORE FUEL IS INTRODUCED OR DELIVERED INTO THE UST SYSTEM.

- THE TANKS, PIPING AND DISPENSERS MUST BE ACCESSIBLE TO INCLUDE ASPHALT AND CONCRETE THAT CAN BE DRIVEN

- ALL PRODUCT PIPING, TANK SUMP, SPILL BUCKET AND DISPENSER SUMP/LINER WORK MUST BE COMPLETE AND COMPONENTS ACCESSIBLE.

- TEST VALVES MUST BE INSTALLED FOR THE SECONDARY PRODUCT PIPING. - DISPENSERS DO NOT NEED TO BE IN PLACE AND PRODUCT PIPING DOES NOT NEED TO BE PURGED.

- AS AN OPTION TO SIGNIFICANTLY REDUCE TIME ON SITE, THE CONTRACTOR SHOULD FLOOD ALL TANK SUMPS AND DISPENSER SUMPS WITH CLEAN WATER THE NIGHT BEFORE THE SCHEDULED TESTING. WATER MUST BE ADDED TO A MINIMUM OF 3 INCHES ABOVE THE HIGHEST PENETRATION OR SEAM IN THE SUMP OR PAN. - THE CONTRACTOR SHOULD ALLOW SEVERAL HOURS TO ALLOW THE WATER LEVEL TO STABILIZE AND MARK THE LEVEL OF

POST FUEL TEST - TEST PERFORMED AFTER FUEL IS INTRODUCED OR DELIVERED INTO THE UST SYSTEM.

*DOES NOT INCLUDE NEW AUTOMATIC TANK GAUGE (ATG) INSTALLATION. CERTIFICATION OF NEW ATG IS THE RESPONSIBILITY

WATER THAT IS OR WAS IN CONTACT WITH FUEL MUST BE PROPERLY DISCHARGED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND/OR LOCAL REGULATIONS.

- COMPARTMENTALIZED TANKS MUST HAVE FUEL LEVELS WITHIN 10" OF EACH OTHER.

ALL FUELING INCLUSIVE OF STAGE I AND STAGE II VAPOR RECOVERY AREAS THE FOLLOWING CONDITIONS MUST APPLY.

- ALL PRODUCT PIPING MUST BE THOROUGHLY PURGED OF AIR AND VAPORS.

- THE DISPENSERS MUST BE SET AND OPERATIONAL TO INCLUDE ALL VAPOR VACUUM PUMPS AND OTHER STAGE II

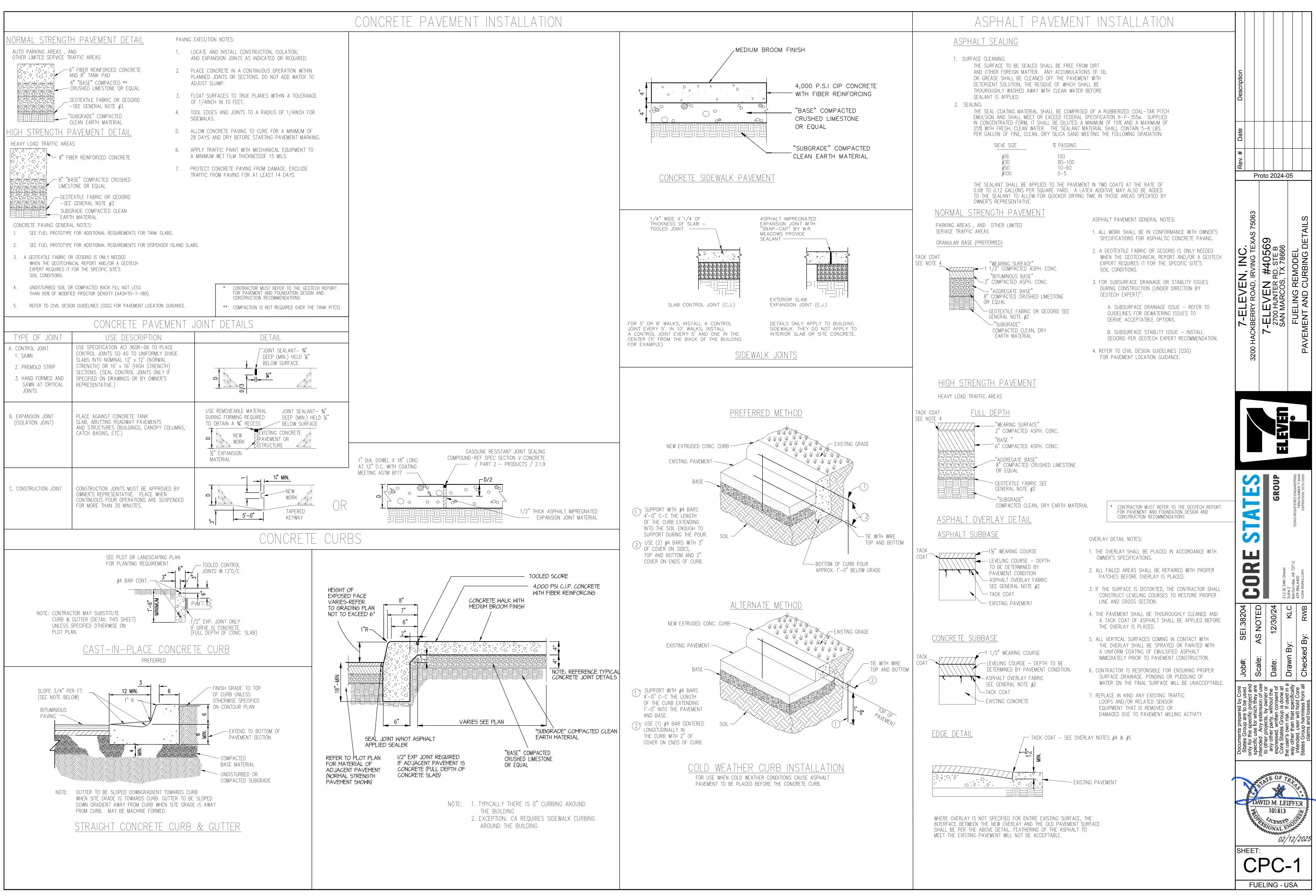
EQUIPMENT FULLY FUNCTIONAL. REPLACE FILTER AFTER PURGING. - ALL HANGING HARDWARE MUST BE INSTALLED AND OPERATIONAL

- THE TANKS, PIPING AND DISPENSERS MUST BE ACCESSIBLE TO INCLUDE ASPHALT AND CONCRETE THAT CAN BE DRIVEN

- TEST VALVES MUST BE INSTALLED FOR THE SECONDARY PRODUCT PIPING.

CONTRACTOR NOTIFICATION TO TESTING COMPANY (TANKNOLOGY):

Rev. # Date Description	Pr	rote	0 202	4-05	
7-ELEVEN. INC.	3200 HACKBERRY ROAD, IRVING TEXAS 75063	7 ELEVIEN #10660	7-CLEVEN #40303 2700 HUNTER RD, STEB	SAN MARCUS, LX / 8000	FUELING SPECIFICATIONS
	N		d		EEHING : F-9349 (31/2026
	N A		GROUP	ľ	IEXAS HEGISI EREL ENGINEERING FIRM NUMBER: F-3349 EXPIRATION: 07/31/2025
			GRO	212 SE 34th Street Suite 2 Bentonville: AR 72712	
	GUKE V A		12/30/24 GRO	ľ	RWB core-states.com
SEI.38204			12/30/24	212 SE 34th Street Suite 2 Bentionville. AR 72712	RWB core-states.com
			Date: 12/30/24	If used in a Drawn By: KLC Bentonville. AR 2212 SE 34th Street Supecifically	nold Core ss from all Checked By: RWB core-states.com ses.
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d by Core Job#: SEI.38204			any other party, without the parte: 12/30/24	the user's own risk. If used in a Drawn By: KLC Bentonville, AR 2212 way other than that specifically Drawn By: KLC Bentonville, AR 22212	States Group harmless from all Checked By: RWB core-states.com claims and losses.
Documents prepared by Core Job#: SEI.38204	D H Conly for the specific project and specific use for which they are Scale. AS NOTED	to other projects by owner or	any other party, without the parte: 12/30/24	The user's own risk. If used in a correct states of the user's own risk. If used in a correct state is a correct state of the user's own risk. If used in a correct state is a correct state of the user's own risk. If used in a correct state is a correct state of the user's own risk. If used in a correct state of the user's own risk. If used in a correct state of the user's own risk is a correct state of the user's own risk. If used in a correct state of the user's own risk is a correct state of the user's own risk. If used in a correct state of the user's own risk is a c	2202/ States Group harmless from all Checked By: RWB core-states.com claims and losses.



ATTACHMENT I Initial and Continuing Training

ATTACHMENT I

Initial and Continuing Training

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

- Each 7-Eleven, Inc. (7-Eleven) employee, when hired is initially required to complete a computer based training program for gasoline operations. This training includes gasoline equipment, emergency shut off procedures, the operation of the gasoline tank monitoring system, and gasoline tank release detection system.
- Each location also has access to the On Line Systems Support Guide which contains a section with detailed information on gasoline release detection equipment and operation. Attached is a copy of the gasoline section that deals specifically with the Veeder Root ATG operation. This section can be used for follow up and continuing training at the store.
- Each Veeder Root ATG is directly tied into the 7-Eleven Service Now (SNOW) system for 24 hour monitoring and automatic dispatch of any alarm condition. Any alarm notification goes directly to a certified gasoline contractor as a P1 – Priority One. The certified gasoline contractor is then required to respond at the location and address the alarm condition within four hours.
- In the case of an ATG alarm, the store personnel are also instructed to create a case in SNOW. This notification serves as a back up to the automatic dispatch system described above.
- Additionally, each location is visited by a Certified Business Field Consultant, who will serve as the Class B Operator, on a weekly basis to review business practices and opportunities. This includes any additional training opportunities that may exist with the gasoline leak detection equipment. The stores are also periodically visited by a Gasoline Compliance Specialist who also serves as the Class B Operator for the State. This compliance specialist will take the opportunity to inspect gasoline documents and equipment to ensure all is in order and provides training to store personnel as needed.

ATTACHMENT I

INSPECTION AND MAINTENANCE OF BMPS

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

Straw Wattles:

Inspect all straw wattles daily and after rainfall to make sure that sediment build up is contained. Clean straw wattles regularly to make sure that sediment is contained. Replace any straw wattles that are torn or damaged in any way. Dispose of straw wattles appropriately.

Silt Dike:

Inspect all silt dike daily and after rainfall to make sure that sediment build up is contained. Clean silt dike regularly and replace and silt dike that is damaged in any way. Dispose of silt dike appropriately.

Roadways:

Inspect all roadways around the construction site daily to make sure that no sediment is being tracked off the construction site. If it is found that some sediment was tracked off of the construction site, it will be cleaned and disposed of immediately.

ATTACHMENT J

Release Detection Maintenance

ATTACHMENT J

Release Detection Maintenance

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

Tank release detection will be maintained by a Continuous Statistical Leak Detection system. The Continuous Statistical Leak Detection system is programmed to conduct continuous statistical leak detection capable of detecting a 2 gph leak in the wetted portion of the tank with a 95% confidence interval and is also equipped to perform the daily inventory reconciliation which meets the inventory control requirements.

Corrosion Protection: listed FRP tank and piping installed (non corrodible)

Tanks:

- Automatic tank gauge test by Continuous Statistical Leak Detection
- Interstitial Monitoring within secondary wall/jacket (dry)
- Inventory control

Piping:

- Interstitial monitoring within secondary wall/jacket (dry)
- Pressurized line leak detectors (3.0 gph)

All equipment will be operated and maintained in accordance with the manufacturer's specifications and instructions.

7-Eleven maintains a regular program of annual 3rd party operability testing of the line leak detectors and automatic tank gauge by Tanknology.

7-Eleven locations are also inspected each 60 days by a third party inspector. This inspection includes entry into all sumps and systems. Issues found are reported for further investigation and follow up by a certified gasoline contractor.

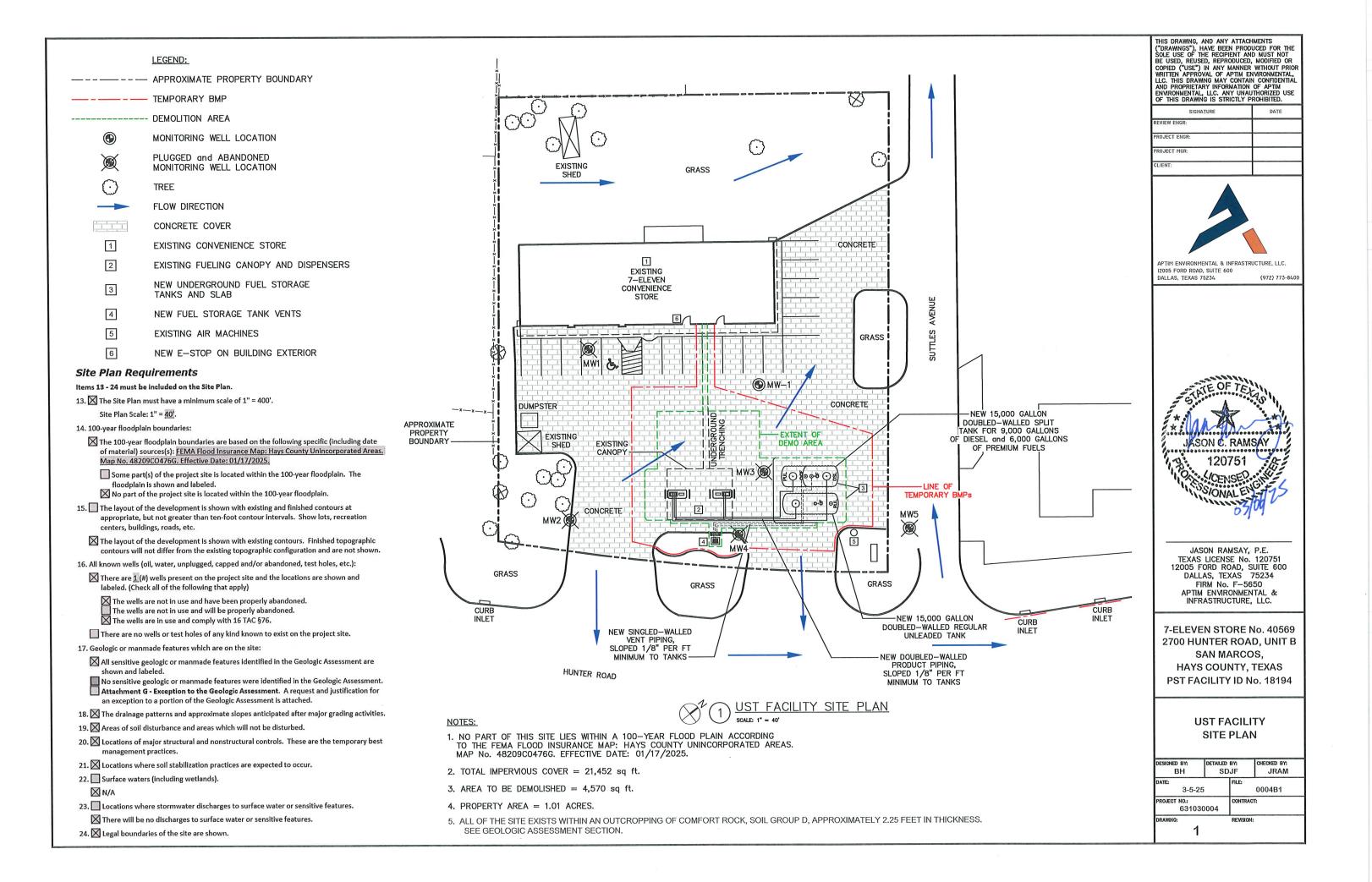
7-Eleven maintains a separate annual preventative maintenance program conducted by a certified gasoline contractor and managed by their facilities department.

The Daily Inventory reconciliation data is captured at 7-Eleven's headquarters by remote polling and inventory variances which exceed previously determined thresholds are further investigated by an environmental compliance specialist.

If 7-Eleven does not achieve passing CSLD results from the Veeder Root ATG at least every 15 days, a contractor is dispatched to troubleshoot and conduct a static test. This is an additional means that used by 7-Eleven to address passing monthly tests.

7-Eleven maintains records of the release detection maintenance in accordance with 30 TAC Chapter §334.10(b).

Attachment K UST Facility Site Plan



ATTACHMENT L Previous WPAP Approval Letter (Not Applicable)

TEMPORARY STORMWATER SECTION (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Jason Ramsay, P.E.

Date: March 6, 2025

Signature of Customer/Agent:

Regulated Entity Name: 7-Eleven Store 40569 (RN102921442)

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: <u>N/A</u>

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

ATTACHMENT A

Spill Response Actions

ATTACHMENT A

Spill Response Action

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

In the event of an accidental spill, immediate action shall be undertaken by the General Contractor to contain and remove the spilled material. All hazardous materials, including contaminated soil, liquid, and concrete waste, shall be disposed of by the Contractor in the manner specified by Federal, State and Local regulations and by the manufacturer of such products. As soon as possible, the spill shall be reported to the appropriate agencies. As required under the provisions of the Clean Water Act, any spill or discharge entering waters of the United States shall be properly reported. The General Contractor shall prepare a written record of any spill and associated clean-up activities of petroleum products or hazardous materials in excess of 1 gallon or reportable quantities, whichever is less. The General Contractor shall provide notice to the Owner immediately upon identification of a reportable spill.

All spills of petroleum products or hazardous materials in excess of Reportable Quantities as defined by EPA or the State or Local agency regulations, shall be immediately reported to the EPA National Response Center (1-800-424-8802) and TCEQ (1-800-832-8224).

Reportable Quantities					
Material	Media Released to	Reportable Quantities			
Engine Oil, Fuel, Hydraulic & Brake Fluid	Land	25 gallons			
Engine Oil, Fuel, Hydraulic & Brake Fluid	Water	Visible sheen			
Antifreeze	Land	100 lb (13 gal.)			
Battery Acid	Land, Water	100 lb			
Refrigerant	Air	1 lb			
Gasoline	Air, Land, Water	100 lb			
Engine Degreasers	Air, Land, Water	100 lb			

The reportable quantity for hazardous materials can be found in 40 CFR 302:

In order to minimize the potential for a spill of petroleum product or hazardous materials to come in contact with storm water, the following steps shall be implemented.

- a) All materials with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, additives for soil stabilization, concrete curing compounds and additives, etc.) shall be stored in a secure location, under cover and in appropriate, tightly sealed containers when not in use.
- b) The minimum practical quantity of all such materials shall be kept on the job site and scheduled for delivery as close to time of use as practical.

- c) A spill control and containment kit (containing for example: absorbent material such as kitty litter or sawdust, acid neutralizing agent, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) shall be provided on the construction site.
- d) All of the product in a container shall be used before the container is disposed. All such containers shall be triple rinsed with water prior to disposal. The rinse water used in these containers shall be disposed of in a manner in compliance with State and Federal regulations and shall not be allowed to mix with storm water discharges.
- e) All products shall be stored in and used from the original container with the original product label.
- f) All products shall be used in strict compliance with instructions on the product label.
- g) The disposal of the excess or used products shall be in strict compliance with instructions on the products label.

SPILL REPORT FORM

Notes to General Contractor:

- Contact the appropriate regulatory agency if the spill exceeds the applicable reportable quantity.
- Complete the Spill Report Form in full for each spill that exceeds the applicable reportable quantity and submit to the Owner.
- Call the Owner
- Resolve as appropriate.

SPILL REPORT FORM

DATE: PROJECT: 7-Eleven, Inc. Store No. 40569 PROJECT ADDRESS: 2700 Hunter Road, Unit B, San Marcos, Texas 78666
Spill Reported By:
Date / Time of Spill:
Describe spill location and events leading to spill:
Material Spilled:
Source of Spill:
Amount Spilled:
Amount Spilled to Waterway (Name Waterway):
Containment or Clean up Action:
Approximate depth (yards) of soil excavation:
List Injuries or Personal Contamination:
Action to be taken to prevent future spills:
Agencies notified of spill:
Contractor Signature and Printed Name Date
AFTER NOTIFYING GOVERNING AUTHORITIES, IMMEDIATELY COMPLETE THIS FORM

AFTER NOTIFYING GOVERNING AUTHORITIES, IMMEDIATELY COMPLETE THIS FORM AND CONTACT THE OWNER IF THE SPILL EXCEEDS THE REPORTABLE QUANTITY FOR THE GOVERNING AGENCY.

ATTACHMENT B

Potential Sources of Contamination

ATTACHMENT B

Potential Sources of Contamination

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

Potential sources of contamination from this site include hydrocarbon residue, emissions from vehicles, asphaltic products used for paved surfaces, and tracking or dropping silt onto paved surfaces by construction equipment.

ATTACHMENT C

Sequence of Major Events

Attachment C

Sequence of Major Construction Activities

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

- 1. Install perimeter controls on the site. (Clear only those areas necessary to install perimeter and erosion control devices). Total Disturbed area 2,000 square feet
- 2. Begin saw cutting and demolition activities. Total Disturbed area 4,570 square feet (SF).
- 3. Remove existing tank slab, dispenser islands, and existing UST system including tanks, product piping, and vent piping. Total Disturbed area 4,570 SF.
- Install new 15,000-gallon capacity double-walled fiberglass-reinforced plastic (FRP) Underground Split Storage Tank (UST) for 9,000 gallons diesel (DSL) and 6,000 gallons Premium Unleaded (PUL).
- 5. Install new 15,000-gallon capacity double-walled FRP Regular Unleaded (RUL) UST;
- Install three (3) new DSL, RUL, and PUL Submersible Turbine Pump (STP) sumps and STP assemblies;
- 7. Reuse (1) existing 3+0 dispenser and (1) existing 3+1 dispenser;
- 8. Install two (2) new stainless steel dispenser islands;
- 9. Install new 3" over 2" double-walled FRP product piping from new USTs to existing dispensers;
- 10. Install three (3) new vapor vent risers;
- 11. Install new 2" single-walled FRP piping for vapor/vent at USTs to new remote vent;
- 12. Install a new Veeder Root TLS-450 Plus site monitor console;
- 13. Install two (2) new observation wells in the tank slab.
- 14. Permanently stabilize areas to be vegetated as they are brought to final grade.
- 15. Prepare site for paving. Total disturbed area 4,570 SF
- 16. Install new concrete at disturbed areas. Total Disturbed area 4,570 SF
- 17. Remove all temporary erosion and sediment control devices and stabilize any areas disturbed by the removal of the BMPs.

ATTACHMENT D

Temporary Best Management Practices and Measures

ATTACHMENT D

Temporary Best Management Practices and Measures

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

The temporary BMPs will be installed at the perimeter of the construction area as shown and described in the Erosion and Sediment Control Plan and this Temporary Stormwater Section. Temporary erosion control logs will be installed in the landscaping area located near the proposed location of the vent line, while temporary silt dike will be installed on the concrete surrounding the construction area as described in the Erosion and Sediment Control Plan. Where disturbed areas will abut existing concrete curbs, either the existing concrete curb will be maintained as a silt dike or erosion control logs will be placed in the soil areas if the curb is removed or damaged. The pair of curb inlets downgradient to the northeast of the site along Hunter Road will be protected with erosion control logs as shown on the Erosion and Sediment Control Plan. All wash water and construction debris will be detained and properly disposed of as described in the Erosion and Sediment Control Plan and this Temporary Stormwater Section. All excavated soils will be properly disposed of if it is to be removed from the site. Any construction materials that are tracked onto roadways by construction vehicles will be immediately removed as described in the Erosion and Sediment Control Plan and this Temporary Stormwater Section.

ATTACHMENT E

Request to Temporarily Seal a Feature

(Not Applicable)

ATTACHMENT F

Structural Practices

ATTACHMENT F

Structural Practices

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

The temporary BMPs, triangular silt dike and erosion control logs (also known as straw wattles or fiber rolls), will be installed at the perimeter of the construction area as shown to prevent silted run-off from leaving the disturbed area. Erosion control logs will be installed in the landscaping area located near the new vent stack in the unpaved areas. Temporary triangular silt dike will be installed on the concrete surrounding the construction area. Construction areas abutting existing concrete curbs will maintain those concrete curbs as silt dike, and in the event that they are damaged or removed, erosion control logs will be installed in the soil behind them. The two curb inlets northeast of the site along Hunter Road will be protected utilizing straw erosion control logs.

ATTACHMENT G

Drainage Area Map

(Not Applicable)

ATTACHMENT H

Temporary Sediment Pond(s) Plans and Calculations

(Not Applicable)

ATTACHMENT I

Inspection and Maintenance for BMPs

ATTACHMENT I

Inspection and Maintenance of BMPs

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

Minimization of Disturbed Areas:

Contractor shall keep the areas of disturbance to a minimum during construction.

Soil Stabilization:

Soil stabilization is proposed to be employed to prevent soil from eroding and leaving the site. The primary techniques to be used at this project for stabilizing site soils will be to provide a protective cover of grass, pavement, and building structures.

Temporary Seeding or Stabilization:

All disturbed areas that will be inactive for 7 days or more shall be stabilized temporarily with the use of fast-germinating annual grass/grain varieties appropriate for site soil and climate conditions, straw or hay mulch, wood cellulose fibers, tackifiers, netting, and/or blankets. Soil stockpiles and diversion ditches or berms shall be stabilized to prevent erosion and dust.

Permanent Seeding or Sodding:

All areas at final grade shall be seeded or sodded within 7 days after completion of work in that area. Seed immediately after final grade is achieved and soils are prepared to take advantage of soil moisture and seed germination. At the completion of ground disturbing activities, the entire site must have permanent vegetative cover where it is not covered by impervious material such as building or pavement. To minimize the potential for erosion and maximize seed germination and growth, the General Contractor shall evaluate the short- and long-term local forecast prior to applying permanent seed or sod.

Final stabilization is achieved when perennial vegetative cover provides permanent stabilization with a density greater than 70 percent over the entire area to be stabilized by vegetative cover. This area is exclusive of areas that are covered with rock, landscape mulch, pavement, buildings, or other permanent structures.

Erosion Control Logs:

Inspect all erosion control logs daily and after rainfall to make sure that sediment build up is contained. Clean erosion control logs regularly to make sure that sediment is contained. Replace any erosion control logs that are torn or damaged in any way. Dispose of erosion control logs appropriately.

Silt Dike:

Inspect all silt dikes daily and after rainfall to make sure that sediment build up is contained. Clean silt dike regularly and replace any silt dike that is damaged in any way. Dispose of silt dike appropriately.

Storm Drain Inlet Protection:

Curb, grated, drop, and other inlets are protected from the intrusion of sediment though a variety of measures as shown on the details included in the Erosion & Sediment Control Plan. The primary mechanism is to place controls in the path of flow sufficient to slow the sediment laden water to allow settlement of suspended solids prior to discharging into the storm water system. It is possible that as construction progresses from storm water system installation through to paving that the inlet protection devices may change. Care shall be taken in placement of inlet protection as many devices create ponding of storm water at inlets.

Roadways:

Inspect all roadways around the construction site daily to make sure that no sediment is being tracked off the construction site. If it is found that some sediment was tracked off of the construction site, it will be cleaned and disposed of immediately.

Record Keeping:

Records pertaining to inspections and maintenance of BMPs will be documented and made available upon TCEQ request.

ATTACHMENT J

Schedule of Interim and Permanent Soil Stabilization Practices

ATTACHMENT J

Permanent Stabilization Practices

7-Eleven, Inc. Store No. 40569 2700 Hunter Road, Unit B San Marcos, Hays County, Texas 78666

PERMANENT VEGATATIVE STABILIZATION

- Planting areas to be graded to match existing grades.

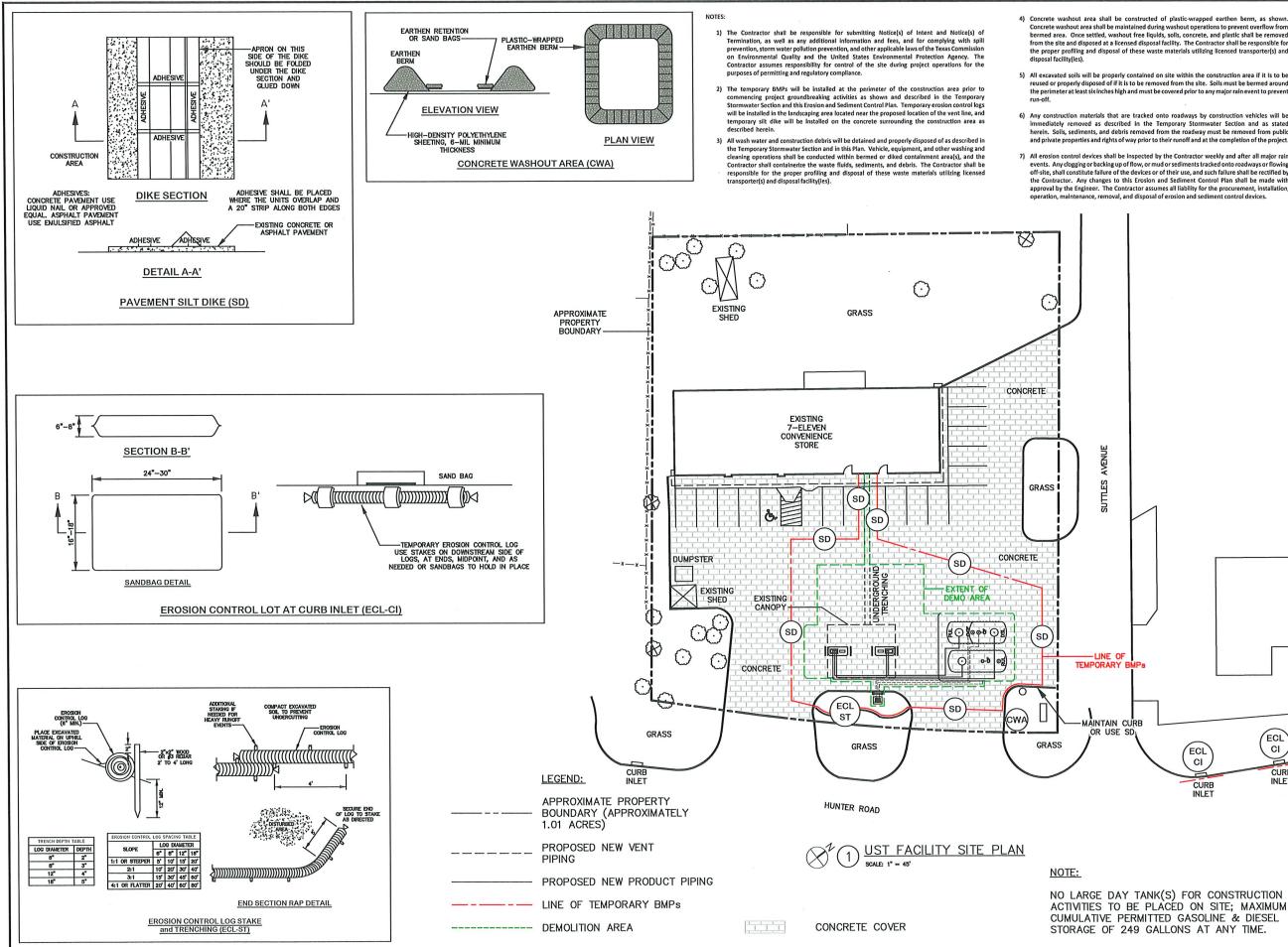
- Planting material temporarily moved during construction to be replaced and watered to sufficiently soak the soil to depth of six inches.

- Replace weed barrier as necessary to match existing materials.

- Mulch area with materials that match existing.

ATTACHMENT K

Erosion and Sediment Control Plan



4) Concrete washout area shall be constructed of plastic-wrapped earthen berm, as shown Concrete washout area shall be maintained during washout operations to prevent overflow from bermed area. Once settled, washout free liquids, solls, concrete, and plastic shall be removed from the site and disposed at a licensed disposal facility. The Contractor shall be responsible fo the proper profiling and disposal of these waste materials utilizing licensed transporter(s) and

5) All excavated soils will be properly contained on site within the construction area if it is to be reused or properly disposed of if it is to be removed from the site. Soils must be bermed around the perimeter at least six inches high and must be covered prior to any major rain event to prever

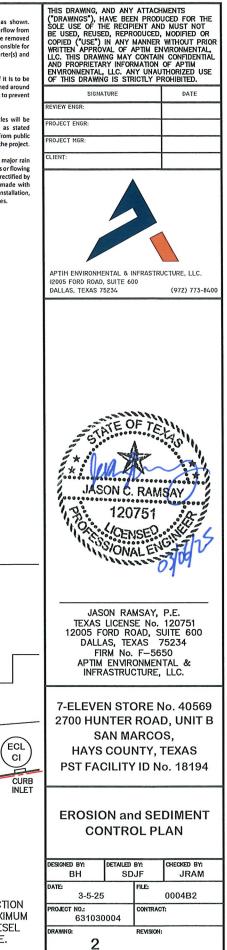
6) Any construction materials that are tracked onto roadways by construction vehicles will be immediately removed as described in the Temporary Stormwater Section and as stated herein. Soils, sediments, and debris removed from the roadway must be removed from public and private properties and rights of way prior to their runoff and at the completion of the project.

7) All erosion control devices shall be inspected by the Contractor weekly and after all major rain events. Any clogging or backing up of flow, or mud or sediments tracked onto roadways or flowing off site, shall constitute failure of the devices or of their use, and such failure shall be rectified by the Contractor. Any changes to this Erosion and Sediment Control Plan shall be made with approval by the Engineer. The Contractor assumes all liability for the procurement, installation, operation, maintenance, removal, and disposal of erosion and sediment control devices.

ECL

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CURB INLET



APPENDIX F AGENT AUTHORIZATION FORMS (TCEQ-0599) & OWNER AUTHORIZATION FORM

Agent Authorization Form

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

Ι	Raymond McNiece
	Print Name
	Regional Gasoline Environmental Compliance Manager (RGECM)
	Title-Owner/President/Other
of	7-Eleven, Inc.
	Corporation/Partnership/Entity Name
have	authorized
	Print Name of Agent/Engineer
of	CoreStates, Inc.
	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

THE STATE OF § County of $\sqrt{}$ §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Man McNece</u> 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.

day of

Typed or Printeg Name of Notary

MY COMMISSION EXPIRES:

INS

eptember 22.2027

TIFFANY L COLLINS Notary ID #134571328 My Commission Expires September 22, 2027

 $\mathbf{\lambda}$

C

NOTARY PUBL

GIVEN under my hand and seal of office on this

Agent Authorization Form

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

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:

- 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.
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- 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.

Applicant's Signature

2/4/2021 Date

THE STATE OF lexas § County of Dallas §

BEFORE ME, the undersigned authority, on this day personally appeared to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

Ath GIVEN under my hand and seal of office on this day of NOTARY PUBLIC Typed or Printed Name of Notary tember 22 **MY COMMISSION EXPIRES:** TIFFANY L COLLINS Notary ID #134571328 My Commission Expires

September 22, 2027

APPENDIX G APPLICATION FEE FORM (TCEQ-0574)

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Application Fee Form

NAME OF PROPOSED REGULATED ENTITY: 7-Eleven, Inc. Store No. 40569										
REGULATED ENTITY LOCATION: 2700 Hunter Road Unit B, San Marcos, TX 78666										
NAME OF CUSTOMER: 7-Eleve	en, Inc.				0					
CONTACT PERSON: Jessica Jones		PH	10NE:9	40-395-1 <u>937</u>						
(Please Print)										
Customer Reference Number (if	issued): <u>CN 60</u>	0240329		(nine digits)						
Regulated Entity Reference Number (if		(nine digits)								
Austin Regional Office (3373) 🛛 🛛 Hays 🗌 Travis 🗌 Williamson										
San Antonio Regional Office (3362)	🗌 Bexar	Comal	🗌 Medina	🗌 Kinney	Uvalde					

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 (Check One):

> Austin Regional Office
> Mailed to TCEQ: TCEQ – Cashier Revenues Section Mail Code 214 P.O. Box 13088 Austin, TX 78711-3088

San Antonio Regional Office
 Overnight Delivery to TCEQ:

TCEQ - Cashier 12100 Park 35 Circle Building A, 3rd Floor Austin, TX 78753 512/239-1278

Site Location (Check All That Apply): 🗌 Recharge Zone

Contributing Zone

Transition Zone

Type of Plan	Size	Fee Due		
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	2 USTs at \$650 Each	\$ 1,300.00		
Piping System(s)(only)	Each	&		
Exception	Each	\$		
Extension of Time	Each	\$		

Signature

03/07/2025 Date

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Application Fee Schedule 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications Contributing Zone Plans and Modifications

PROJECT	PROJECT AREA IN ACRES	FEE
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	\$1,500 \$3,000 \$4,000 \$6,500 \$8,000 \$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	\$3,000 \$4,000 \$5,000 \$6,500 \$8,000 \$10,000

Organized Sewage Collection Systems and Modifications

PROJECT	COST PER LINEAR FOOT	MINIMUM FEE MAXIMUM FEE
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

PROJECT	COST PER TANK OR PIPING SYSTEM	MINIMUM FEE MAXIMUM FEE
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

PROJECT	FEE
Exception Request	\$500

Extension of Time Requests

PROJECT	FEE
Extension of Time Request	\$150

TCEQ ePay Receipt

APPENDIX H CORE DATA FORM (TCEQ-10400)



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.)								
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)								
Renewal (Core Data Form should be submitted with the	Renewal (Core Data Form should be submitted with the renewal form) Image: Core Data Form should be submitted with the renewal form)							
2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number (if issued) 6::::::::::::::::::::::::::::::::::::								
CN 600240329 for CN or RN numbers in Central Registry** RN 102921442								

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for	er Information Updates (mm/dd/yyyy) 02/>				02/XX/2024			
New Customer Update to Customer Information Change in Regulated Entity Ownership Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)									
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).									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) <u>If new Customer, enter previous Customer below:</u>									
7-Eleven, Inc.									
7. TX SOS/CPA Filing Number	8. TX State Tax ID (1				9. Federal Tax ID 10. DU applicat applicat (9 digits) 17510851318		Number (if		
11. Type of Customer: 🛛 Corpor	ation		🗌 Individ	dual Partnership: 🗌 General 🗌 Limit			eral 🗌 Limited		
Government: 🗌 City 🗌 County 🔲 Federal 🗌	Local 🗌 State 🗌 Other	•	Sole Pr	oprietorship	🗌 Ot	her:			
12. Number of Employees				13. Indepe	endently Ow	ned and Ope	erated?		
0-20 21-100 101-250 251	-500 🛛 501 and highe	r	🗌 Yes 🛛 No						
14. Customer Role (Proposed or Actual) – as	it relates to the Regulated	d Entity liste	ed on this form.	Please check	one of the follo	owing			
Owner Operator Occupational Licensee Responsible P	Owner & Op arty VCP/BSA A				Other:				
15. Mailing									
PO Box 711 Address:									
City Dallas	State	ТХ	ZIP	75221		ZIP + 4	0711		
16. Country Mailing Information (if outside	e USA)		17. E-Mail Ac	ldress (if app	olicable)				
			Bill.Holcomb@7-11.com						
18. Telephone Number	sion or Co	ode 20. Fax Number (if applicable)							

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)									
New Regulated Entity Update to Regulated Entity Name 🛛 Update to Regulated Entity Information									
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).									
22. Regulated Entity Nam	ne (Enter name	of the site where the	regulated action	is taking pla	ce.)				
7-Eleven, Inc. Store No. 4056	59								
23. Street Address of	2700 Hunter	Road, Unit B							
the Regulated Entity:									
<u>(No PO Boxes)</u>	City	San Marcos	State	тх	ZIP	78666	ZIP + 4		
24. County	Hays								

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

25. Description to	Property is	located at the W co	orner of Hunter Rd. a	und S. Suttle A	Ve.			
Physical Location:								
26. Nearest City						State	Nea	rest ZIP Code
San Marcos						ТХ	7866	6
Latitude/Longitude are re used to supply coordinate	-	-	-		ata Standar	ds. (Geocoding of th	e Physical .	Address may be
27. Latitude (N) In Decim	al:	29.852639		28. Lo	ongitude (W) In Decimal:	-97.97410	4
Degrees	Minutes	S	Seconds	Degree	es	Minutes		Seconds
29		51	9.50		97	58		26.77
29. Primary SIC Code	30.	Secondary SIC C	ode	31. Primar	y NAICS Cod	le 32. Seco	ndary NAIC	S Code
(4 digits)	(4 c	ligits)		(5 or 6 digit	s)	(5 or 6 dig	gits)	
5411	554	1		447110	447110 447190			
33. What is the Primary E	Business of	this entity? (Do	not repeat the SIC o	r NAICS descri	ption.)			
Retail Petroleum Facility								
34. Mailing								
Address:	City		Chaba		710		710 . 4	
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								
36. Telephone Number			37. Extension or	Code	38. Fa	x Number (if applicat	ole)	
() -					()	-		

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.

Dam Safety	Districts	Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
		11-98081401		
Municipal Solid Waste	New Source Review Air	OSSF	Petroleum Storage Tank	D PWS
			18194	
Sludge	Storm Water	Title V Air		Used Oil
Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	Jessica Jones			41. Title:	Project Manager
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(940) 395-193	7		() -	Jessica.Jone	s@aptim.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:	Aptim Environmental & Infrastructure LLC (on behalf of 7- Eleven, Inc.)	Job Title:	Project Manager		
Name (In Print):	Jessica Jones			Phone:	(940) 395- 1937
Signature:	q			Date:	03/07/2025

North American Industry Classification System

You are here: Census.gov > Business & Industry > NAICS > NAICS Search/Tools

2012 NAICS Definition

T = Canadian, Mexican, and United States industries are comparable.

447110 Gasoline Stations with Convenience Stores

This industry comprises establishments engaged in retailing automotive fuels (e.g., diesel fuel, gasohol, gasoline) in combination with convenience store or food mart items. These establishments can either be in a convenience store (i.e., food mart) setting or a gasoline station setting. These establishments may also provide automotive repair services.

Cross-References. Establishments primarily engaged in--

- Retailing automotive fuels without a convenience store--are classified in Industry <u>447190</u>, Other Gasoline Stations; and
- Retailing a limited line of goods, known as convenience stores or food marts (except those with fuel pumps)--are classified in Industry <u>445120</u>, Convenience Stores.

2002 NAICS	2007 NAICS	2012 NAICS	Corresponding Index Entries
447110	447110	447110	Convenience food with gasoline stations
447110	447110	447110	Gasoline stations with convenience stores
447110	447110	447110	Gasoline with convenience stores

Source: U.S. Census Bureau | North American Industry Classification System (NAICS) | (888) 756-2427 | <u>naics@census.gov</u> | Last Revised: November 7, 2011

NAICS Code 447190 Other Gasoline Stations

- Classification /
- Retail Trade /
- Gasoline Stations /
- Gasoline Stations /
- Other Gasoline St... /
- Other Gasoline Stations

Industry

Retail Trade

Description

this industry comprises establishments known as gasoline stations (except those with convenience stores) primarily engaged in one of the following: (1) retailing automotive fuels (e.g., diesel fuel, gasohol, gasoline, alternative fuels) or (2) retailing these fuels in combination with activities, such as providing repair services; selling automotive oils, replacement parts, and accessories; and/or providing food services.

Cross References

establishments primarily engaged in-- repairing motor vehicles without retailing automotive fuels--are classified in industry group 8111, automotive repair and maintenance; and retailing automotive fuels in combination with a convenience store or food mart--are classified in industry 447110, gasoline stations with convenience stores.

Illustrative Examples

gasoline stations without convenience stores truck stops marine service stations

Industries Included

- Gasoline stations without convenience stores
- Marine service stations
- Service stations, gasoline
- Truck stops

Industry Leaders

- Travel Centers Of America
- Kayo Oil Co
- Certified Oil Co
- Erickson Oil Prods Inc
- Triple S Petroleum
- Love's Travel Stops & Country
- Tri Star Energy LLC
- Conoco Phillips Petroleum-Los Angeles Refinery
- Pilot Flying J
- E & C Enterprises Inc

Source: https://siccode.com/en/naicscodes/447190/other-gasoline-station