

# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### Our Review of Your Application

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

### Administrative Review

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

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

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

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

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

### Technical Review

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

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

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

### Mid-Review Modifications

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

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

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

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

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

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

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

<b>1. Regulated Entity Name:</b> Southside Water Treatment Plant					<b>2. Regulated Entity No.:</b> N/A				
<b>3. Customer Name:</b> City of Georgetown					<b>4. Customer No.:</b> 600412043				
<b>5. Project Type:</b> (Please circle/check one)	New		Modification		Extension		Exception		
<b>6. Plan Type:</b> (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
<b>7. Land Use:</b> (Please circle/check one)	Residential		Non-residential			<b>8. Site (acres):</b>		1.26	
<b>9. Application Fee:</b>	\$1150		<b>10. Permanent BMP(s):</b>						
<b>11. SCS (Linear Ft.):</b>	N/A		<b>12. AST/UST (No. Tanks):</b>			1			
<b>13. County:</b>	Williamson		<b>14. Watershed:</b>			South Fork San Gabriel River			



# 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](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 (Austin)
County(ies)	—	—	1 (Williamson)
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> 1_ Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

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

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

Ellyn Weimer, PE

Print Name of Customer/Authorized Agent

*Ellyn Weimer*

10-08-2024

Signature of Customer/Authorized Agent

Date

**\*\*FOR TCEQ INTERNAL USE ONLY\*\***

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

# General Information Form

## Texas Commission on Environmental Quality

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

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

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

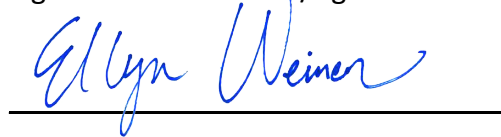
## Signature

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

Print Name of Customer/Agent: Ellyn Weimer, PE

Date: 10-08-2024

Signature of Customer/Agent:



## Project Information

1. Regulated Entity Name: Southside Water Treatment Plant

2. County: Williamson

3. Stream Basin: San Gabriel River

4. Groundwater Conservation District (If applicable): \_\_\_\_\_

5. Edwards Aquifer Zone:

☒ Recharge Zone

☐ Transition Zone

6. Plan Type:

☐ WPAP

☐ SCS

☐ Modification

☒ AST

☐ UST

☒ Exception Request

7. Customer (Applicant):

Contact Person: Chris Pousson

Entity: City of Georgetown

Mailing Address: 300-1 Industrial Ave

City, State: Georgetown, Texas

Zip: 78626

Telephone: (512) 930-8162

FAX: (512) 930-3559

Email Address: chris.pousson@georgetown.org

8. Agent/Representative (If any):

Contact Person: Ellyn Weimer

Entity: CDM Smith, Inc.

Mailing Address: 8310-1 N Capital of Texas Hwy, Suite 250

City, State: Austin, Tx

Zip: 78731

Telephone: 512-652-5329

FAX:       

Email Address: weimerej@cdmsmith.com

9. Project Location:

- ☒ The project site is located inside the city limits of Georgetown, TX.
- ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Georgetown, TX.
- ☐ 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.

2706 S Austin Avenue, Georgetown, TX 78626

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: TCEQ to coordinate site visit with City of Georgetown

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

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

15. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☐ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☐ Undeveloped (Undisturbed/Uncleared)
- ☒ Other: Water Treatment Plant

### ***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:

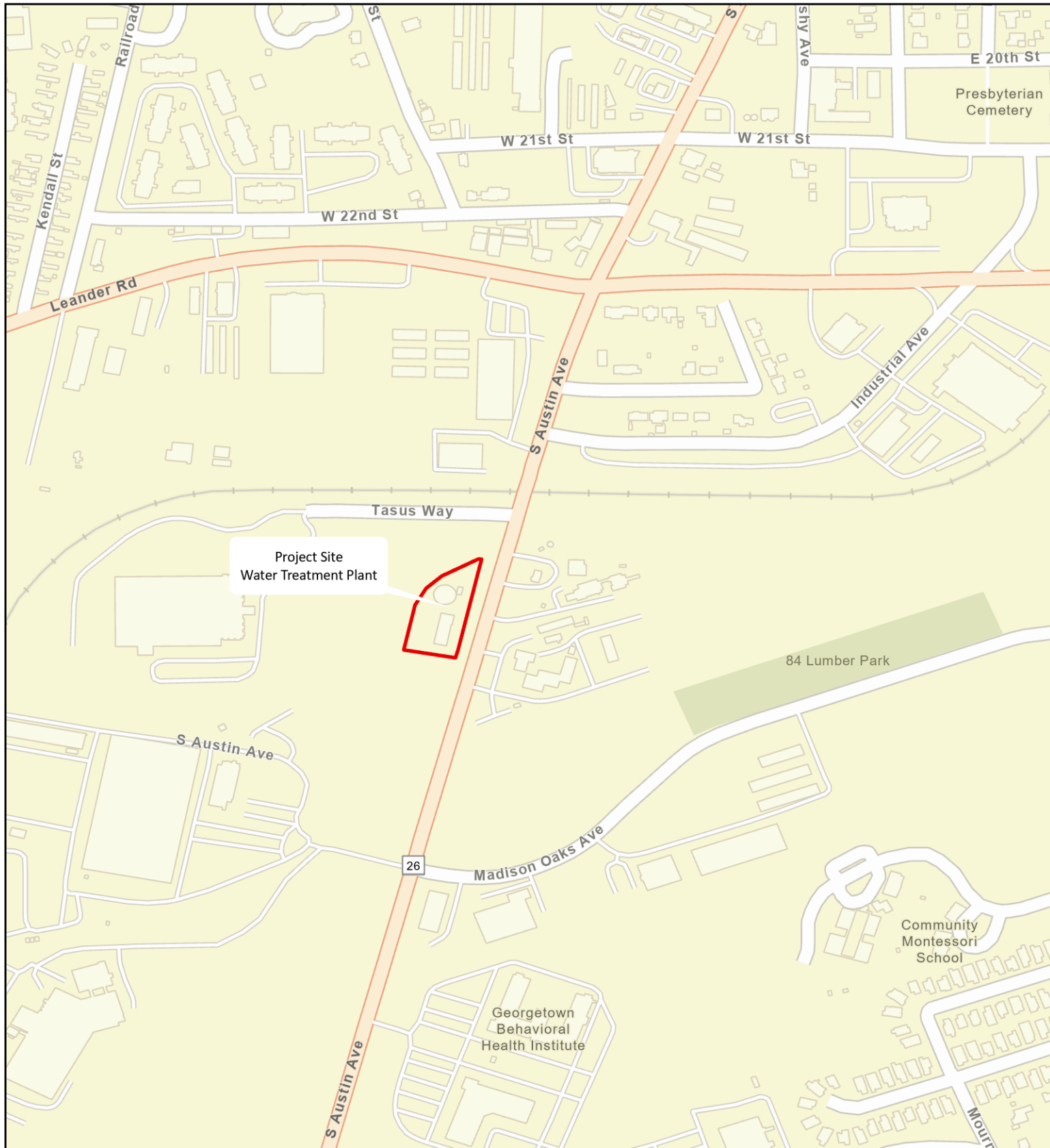
- ☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☒ For a UST Facility Plan or Modification or an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



### Legend

 Project Site

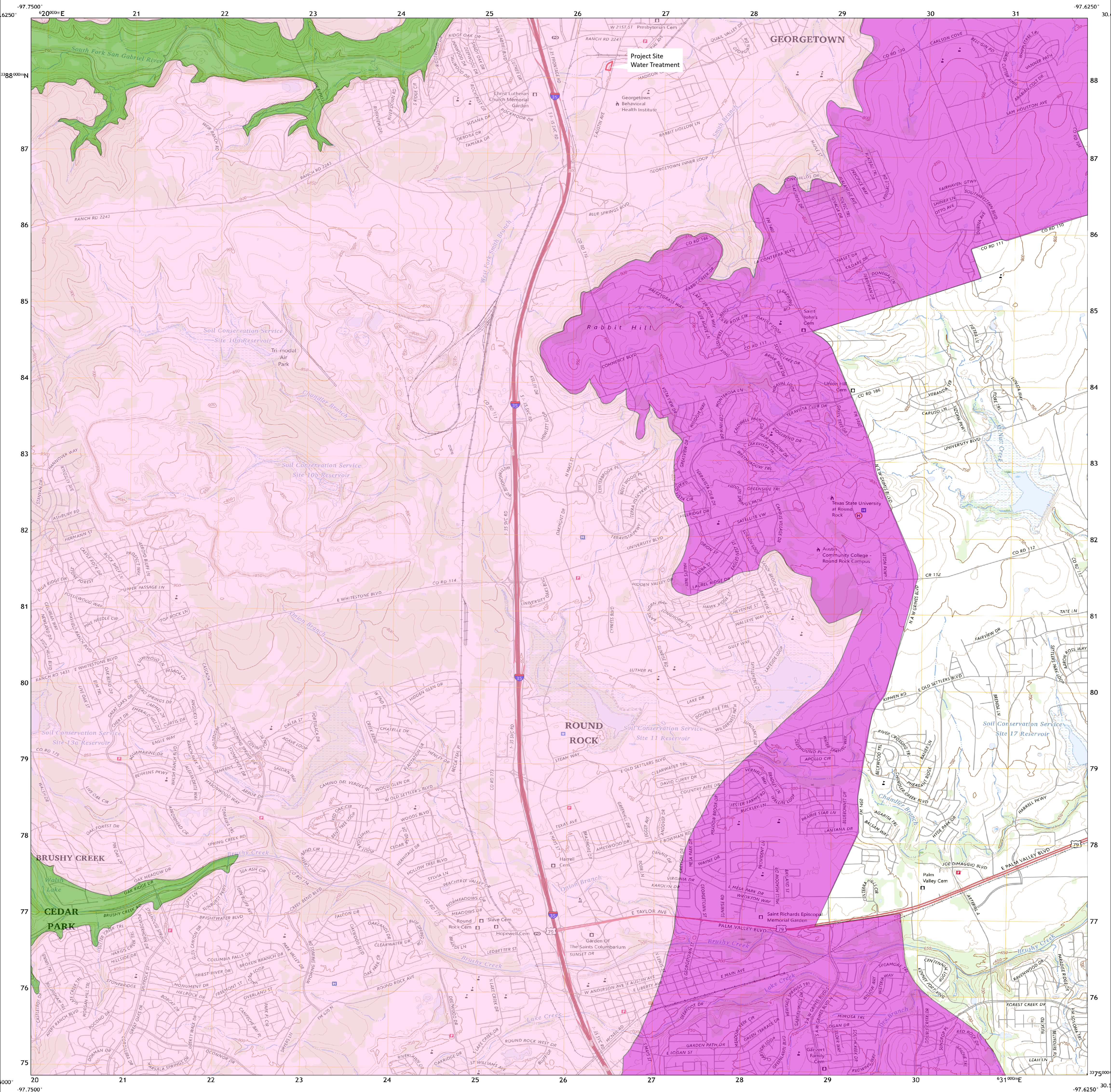


0 250 500 750 1,000  
 Feet

## Attachment A: Road Map Southside Water Treatment Plant Williamson County



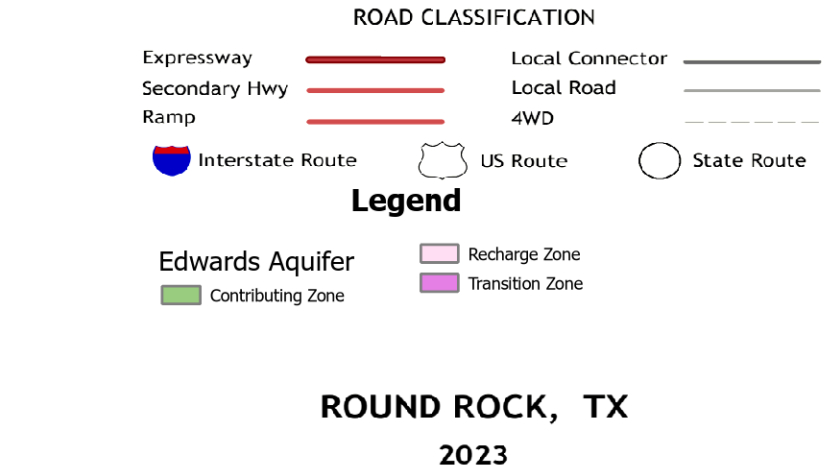
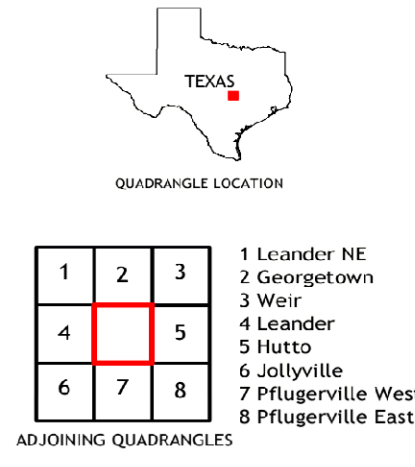
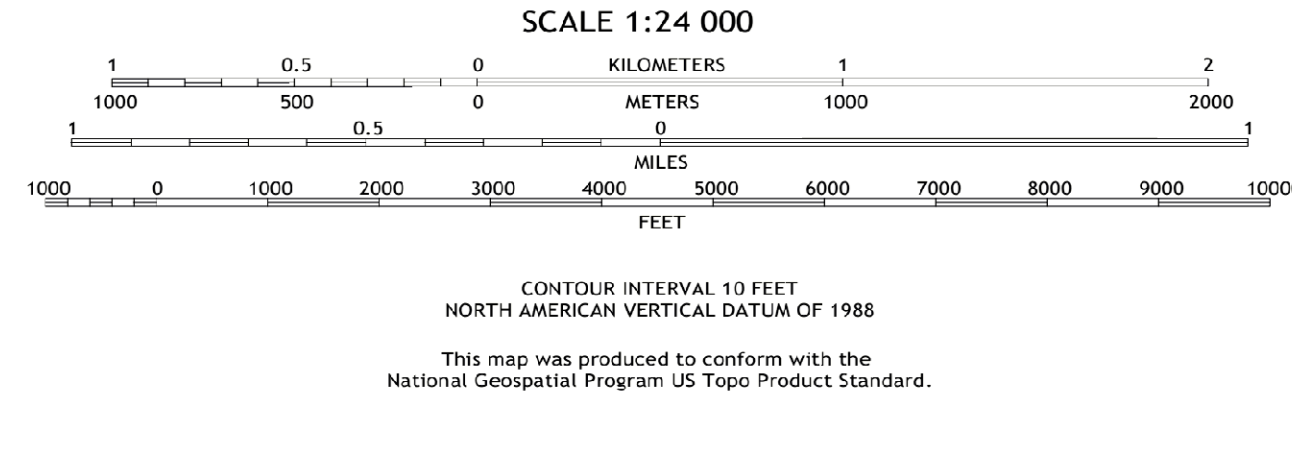
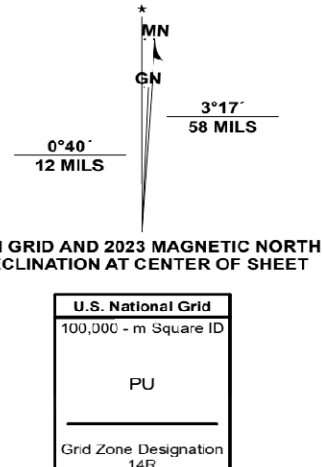




Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 14R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015 - 2019  
Names.....GNS, 1979 - 2023  
Hydrography.....National Hydrography Dataset, 2002 - 2020  
Contours.....National Elevation Dataset, 2019  
Boundaries.....Multiple sources; see metadata file 2021 - 2022

Wetlands.....FWS National Wetlands Inventory Not Available





**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

The Southside Water Treatment project will construct a new emergency backup power generator. The project will also include the construction of all related electrical work and all related automation for SCADA connectivity, including automation transfer switches, duct banks, cabling, and wiring. Work also includes structural concrete foundations and walkways; civil site work including utility line relocations, pavement restoration, site clearing and restoration, grading and drainage; and other work included in the contract documents. Tertiary containment will also be installed around the generator fuel tank due to the proximity to the water well on the site.

# 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: Mark T. Adams

Telephone: (512) 347-9000

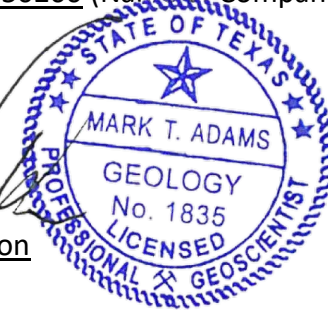
Date: 04/02/2024

Fax: (512) 306-0974

Representing: aci Group LLC TBPG License No. 50260 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

4/2/2024



Regulated Entity Name: Southside Pump Station

### Project Information

1. Date(s) Geologic Assessment was performed: 3/6/2024

2. Type of Project:

☒ WPAP  
☐ SCS

☒ AST  
☐ UST

3. Location of Project:

☒ Recharge Zone  
☐ Transition Zone  
☐ Contributing Zone within the Transition Zone



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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
DoC - Doss silty clay, moist, 1 to 5 percent slopes	D	0-6.66

Soil Name	Group*	Thickness(feet)

*\* Soil Group Definitions (Abbreviated)*

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

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☐ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
- Applicant's Site Plan Scale: 1" = 10'
- Site Geologic Map Scale: 1" = 10'
- Site Soils Map Scale (if more than 1 soil type): 1" = 50'

9. Method of collecting positional data:

- ☒ Global Positioning System (GPS) technology.
- ☐ Other method(s). Please describe method of data collection: \_\_\_\_\_

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

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

### *Administrative Information*

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

**GEOLOGIC ASSESSMENT  
FOR THE SOUTHSIDE PUMP STATION  
FOR THE GEORGETOWN GENERATORS PROJECT**

Williamson County, Texas

March 2024

**Submitted to:**

Gupta Associates, Inc.  
13717 Neutron Road  
Suite #4406  
Dallas, Texas 75244

**Prepared by:**

aci environmental consulting  
1001 Mopac Circle  
Austin, Texas 78746  
TBPG Firm License No. 50260

aci project No.: 09-22-216

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March 2024

## Geologic Assessment for the Southside Pump Station located in Williamson County, Texas

### 1.0 INTRODUCTION

The Texas Commission on the Environmental Quality (TCEQ) regulates activities that have the potential to pollute the Edwards Aquifer through the Edwards Aquifer Protection Program. Projects meeting a certain criterion over the Edwards Aquifer Recharge Zone must submit an Edwards Aquifer Protection Plan (EAPP).

The purpose of this report is to identify all potential pathways for contaminant movement to the Edwards Aquifer and provide sufficient geologic information so that the appropriate Best Management Practices (BMPs) can be proposed in the Edwards Aquifer Protection Plan (EAPP). This report complies with the requirements of Title 30, Texas Administrative Code (TAC) Chapter 213 relating to the protection of the Edwards Aquifer Recharge Zone. Per the Rules, the Geologic Assessment must be completed by a Geologist licensed according to the Texas Geoscience Practice Act.

### 2.0 PROJECT INFORMATION

The Southside Pump Station, hereafter referred to as the subject area or site, is located at 2706 South (S) Austin Avenue (Ave) in the City of Georgetown, Williamson County, Texas (**Attachment A, Figure 1**). Pedestrian investigations of the 0.2-acre tract were performed on March 6, 2024, by Anna Ozelius and Andrew McGlothlin, under the supervision of Mark Adams, P.G. with aci environmental consulting.

This report is intended to satisfy the requirements for a Geologic Assessment, which shall be included as a component of a Water Pollution Abatement Plan (WPAP). The site is approximately 0.2 acres in total. The proposed project would install back-up power generators to the existing pump station. The scope of the report consists of a site reconnaissance, field survey, and review of existing data and reports. Features identified during the field survey were ranked utilizing the Texas Commission on Environmental Quality (TCEQ) matrix for Edwards Aquifer Recharge Zone features. The ranking of the features will determine their viability as “sensitive” features.



### 3.0 INVESTIGATION METHODS

The following investigation methods and activities were used to develop this report:

- Review of existing files and literature to determine the regional geology and any known caves associated with the project area;
- Review of past geological field reports, cave studies, and correspondence regarding the existing geologic features on the project area, if available;
- Site reconnaissance by a registered professional geologist to identify and examine caves, recharge features, and other significant geological structures;
- Evaluation of collected field data and a ranking of features using the TCEQ Ranking Table 0585 for the Edwards Aquifer Recharge Zone; and
- Review of historic aerial photographs to determine if there are any structural features present, and to determine any past disturbances on the subject property.

### 4.0 SOILS AND GEOLOGY

The following includes a site-specific description of the soils, geologic stratigraphy, geologic structure, and karstic characteristics as they relate to the Edwards aquifer. Also included in this section is a review of historic aerials for presence of geologic changes or changes to manmade features in bedrock.

#### Soils

According to the United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Web Soil Survey (2024), one soil unit occurs within the subject area. A description of the unit according to the NRCS (2024) is as follows (**Attachment A, Figure 2**):

- *DoC – Doss silty clay moist, 1 to 5 percent slopes*

The Doss component makes up 85 percent of the map unit. Slopes are 1 to 5 percent. This component is on hillslopes on dissected plateaus. The parent material consists of residuum weathered from limestone. Depth to a root restrictive layer, bedrock, paralithic, is 11 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is moderate. This soil is not flooded. It is not

ponded. There is no zone of water saturation within a depth of 72 inches. This soil does not meet the criteria for hydric soils. Hydrologic Soil Group: D.

### Geologic Stratigraphy

According to the Geologic Map of the Georgetown Quadrangle, Texas, one geologic unit occurs within the subject area (**Attachment A, Figure 3**). This unit and a description by Collins (1997) is as follows:

- Edwards Limestone Formation (Ked)

“Limestone, dolomitic limestone, and marl. Massive to thin beds, chert, and fossiliferous; fossils include rudistids. Shallow subtidal to tidal-flat cycles. Honeycomb textures, voids in collapse breccias, and cavern systems. Accounts for most of the Edwards aquifer strata. Thickness is between 100 and 300 ft; thins northward.”

### Site-Specific Stratigraphic Column

Formation	Members	Thickness (Collins, 1997)
Edwards Limestone	N/A	100-300 feet

### Geologic Structure

The geologic strata associated with the Edwards Aquifer include the Georgetown Limestone Formation of the Washita Group, the Edwards Limestone Group which is interfingering with the Comanche Peak Formation, followed by the Walnut formation, and finally the Glen Rose Formation of the Trinity Group. These Groups dip gently to the southeast and are characterized by the Balcones Fault Escarpment, a zone of en echelon normal faults downthrown to the southeast. Locally, the dominant structural trend of faults within the area is 15°, as evidenced by the mapped fault patterns (**Attachment A, Figure 4**). Thus, all features that have a trend ranging from 0° to 30° are considered “on trend” and were awarded the additional 10 points in the Geologic Assessment Table.

The natural landscape has been notably impacted by the construction of the existing water storage tank and water treatment plant. In addition to these structures, the subject area contains subsurface infrastructure, concrete slabs, and utilities. Distinctions in local geology were not observed due to the disturbance of the natural landscape.

### Karstic Characteristics

In limestone landscapes, karst is expressed by erratically developed cavernous porosity from dissolution of bedrock as water combined with weak acids moves through the subsurface. Karst terrains are typical of the Edwards Limestone, occurring across a vast region of Central Texas, including the Balcones Fault Escarpment. The features produced by karst processes include, but are not limited to, sinkholes, solution cavities, solution enlarged fractures, and caves. These features can eventually provide conduits for fluid movement such as surface water runoff, as “point recharge” to the Edwards Aquifer. Faults and manmade features within bedrock can also provide conduits for point recharge in many cases.

According to Edwards aquifer zone map produced by the TCEQ (2005), the entire subject area is within the northern segment of the Edwards aquifer Recharge Zone. Thus, all karst features identified as sensitive within the project limits have the potential to be point recharge features into the Edwards aquifer.

### Review of Historic Aerials

Aerial photographs from the years 1941, 1953, 1964, 1976, 1981, 1990, 1995, 2004, 2010, 2016, 2022 were reviewed for the site and it was determined the subject area was undeveloped land on the floodplain of West Fork Smith Branch (**Attachment C**). A water tower was constructed in 1990 and an associated building appears in aerials from 2004. The project area has remained unchanged to present day.

## **5.0 GEORGETOWN WATER QUALITY ORDINANCE**

On February 24, 2015, the City of Georgetown (CoGt) passed a finalized ordinance regarding water quality regulations over the Edwards Aquifer Recharge Zone (EARZ), which established setbacks or buffers around springs and streams in the EARZ as well as for occupied salamander sites. **aci environmental consulting** scientists surveyed the subject area as part of the Geologic Assessment (GA) and included obtained pertinent information on springs, streams, and Georgetown Salamander Critical Habitat Units (CHUs) as part of the assessment.

**aci environmental consulting** verified that the entire site is contained within the Edwards Aquifer Recharge Zone (EARZ), based on the mapped boundaries. There were no springs or mapped salamander sites or known surface or subsurface CHUs within the subject area. Additionally, there are no mapped flowlines or waterbodies within the site, according to the National Hydrography Dataset (NHD), nor are there any mapped wetlands within the site according to the National Wetland Inventory (NWI). One mapped NHD stream occurs off-site, just north of the project area and is associated with West Fork Smith Branch. The nearest CHU for the Georgetown Salamander occurs approximately 3.3 miles west of the project area, along an unnamed tributary to the South Fork San Gabriel River.

As there are no springs or waterways located within the project area, there are no buffers or setback required as part of the Georgetown Water Quality Ordinance.

## 6.0 SUMMARY OF FINDINGS

This report documents the findings of a geologic assessment conducted by **aci environmental consulting** personnel on March 6, 2024. In total, four manmade features in bedrock were recorded within the subject area. A comprehensive description and recommendation for these features can be found in **Attachment B**. Please note: Features numbers were not assigned in sequential order.

No naturally occurring geologic features were identified during the field investigation. All of the man-made features in bedrock located within the property parcel boundary are known to the project engineer and do not require any setbacks.

## 7.0 REFERENCES

Collins, E.W., 1997. *Geologic Map of the Round Rock Quadrangle, Texas*. Bureau of Economic Geology. Austin, Texas.

(TCEQ) Texas Commission on Environmental Quality. 2004. Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones. October 1, 2004. Austin, Texas.

(TCEQ) Texas Commission on Environmental Quality. 2005. "Edwards Aquifer Protection Program, Chapter 213 Rules - Recharge Zone, Transition Zone, Contributing Zone, and Contributing Zone within the Transition Zone." Map. Digital data. September 1, 2005. Austin, Texas.

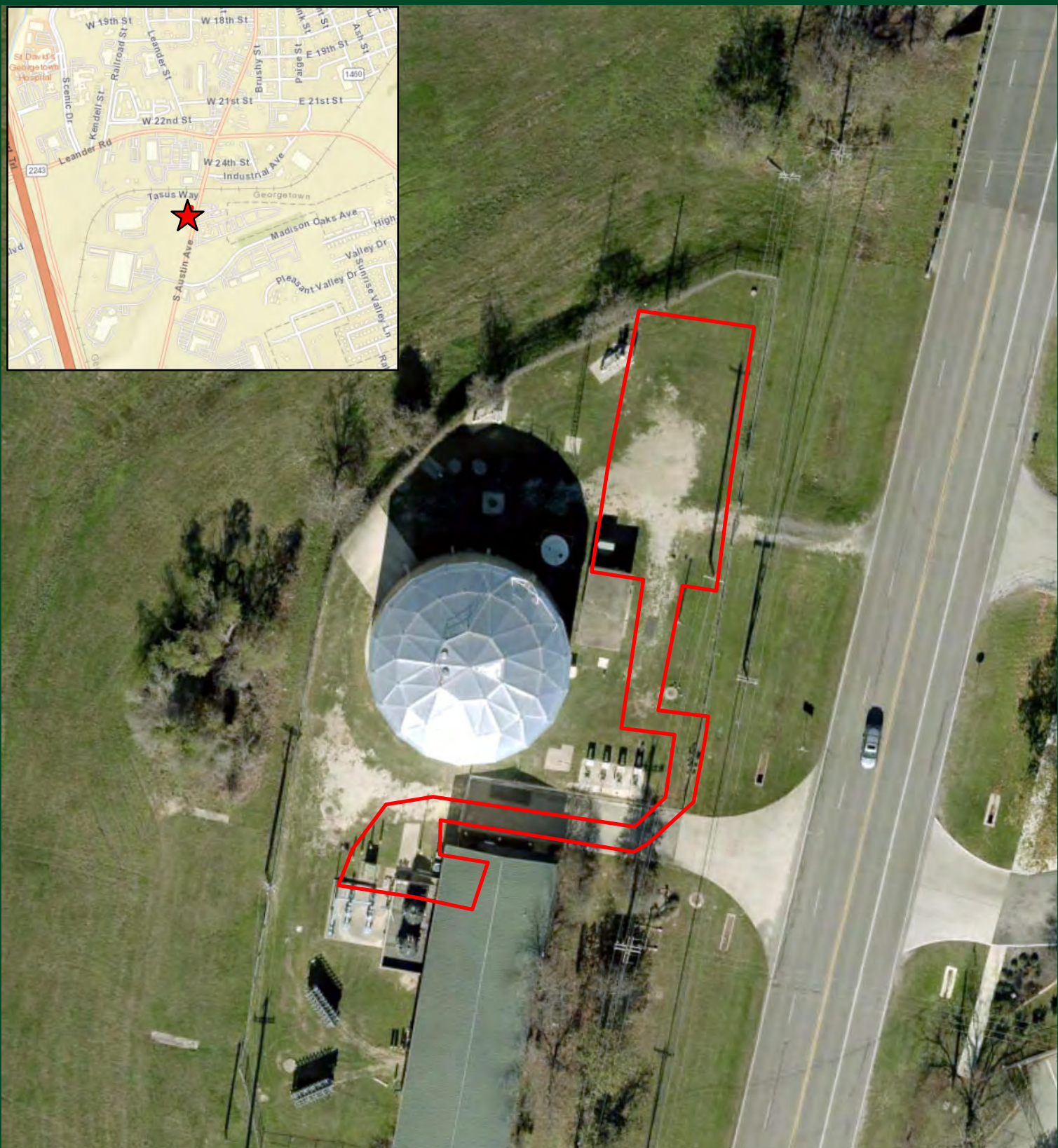
(USDA NRCS) U.S. Department of Agriculture Natural Resources Conservation Service. 2024. WebSoilSurvey.com. Soil Survey Area: Williamson County, Texas. Date accessed: March 5, 2024.

(USFWS) U.S. Fish and Wildlife Service. 2024. Critical Habitat Portal. Accessed March 6, 2024. Available at: <http://ecos.fws.gov/crithab>



## ATTACHMENT A

### Site Maps



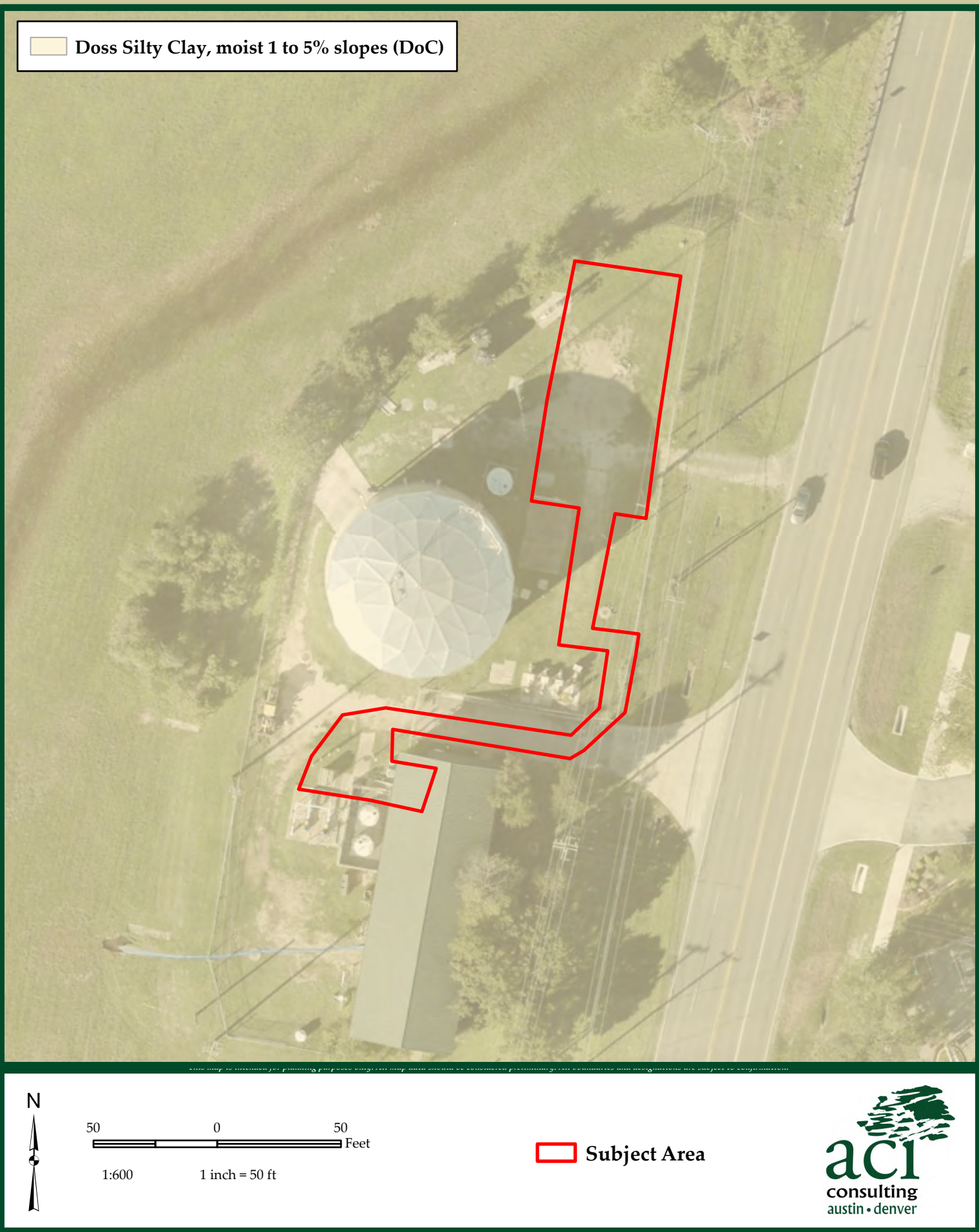
50 0 50 Feet  
1:600 1 inch = 50 ft

 Subject Area



Southside Pump Station  
Figure 1: Site Location Map

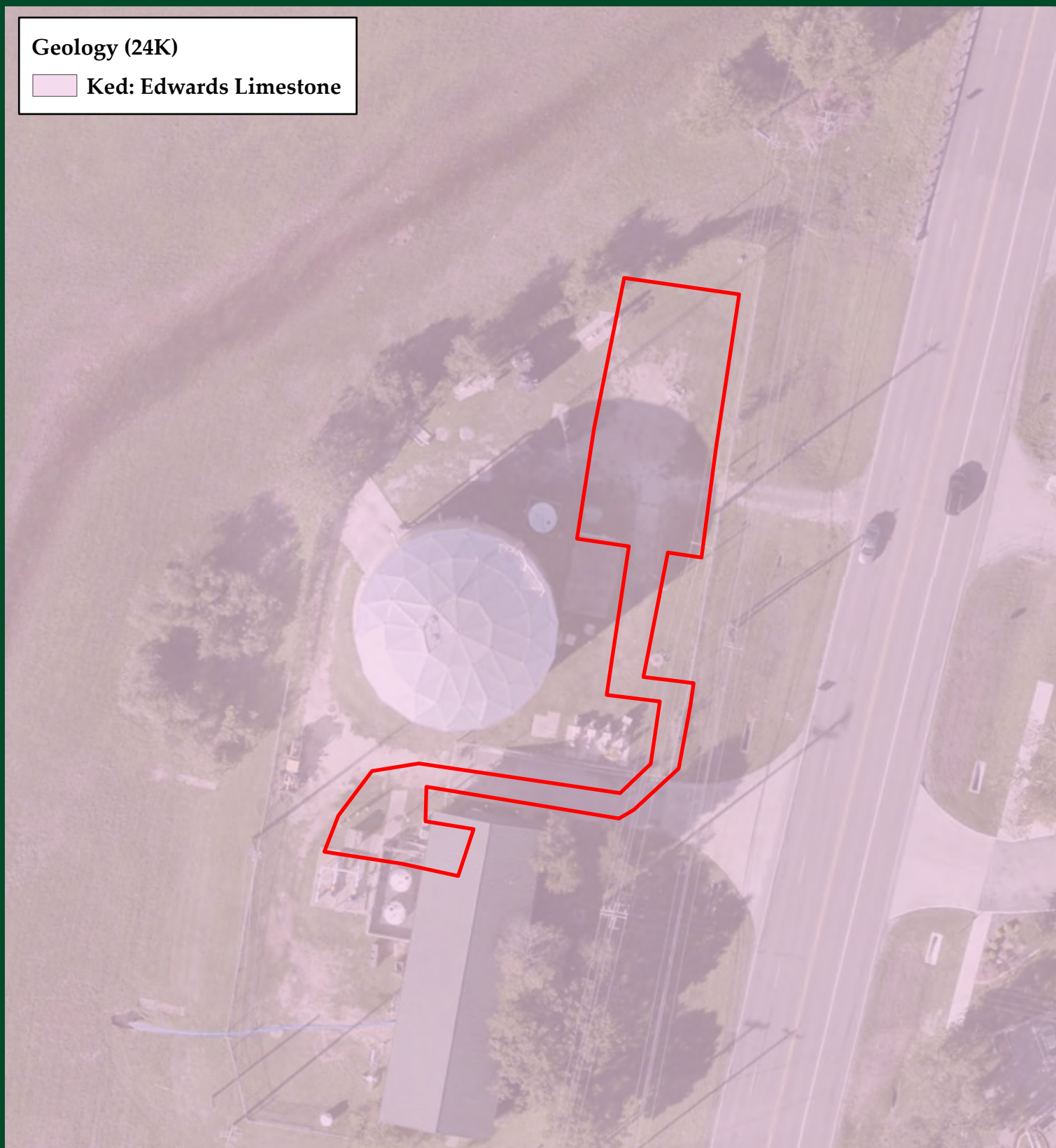




Southside Pump Station  
Figure 2: Site Soils Map

## Geology (24K)

 Ked: Edwards Limestone

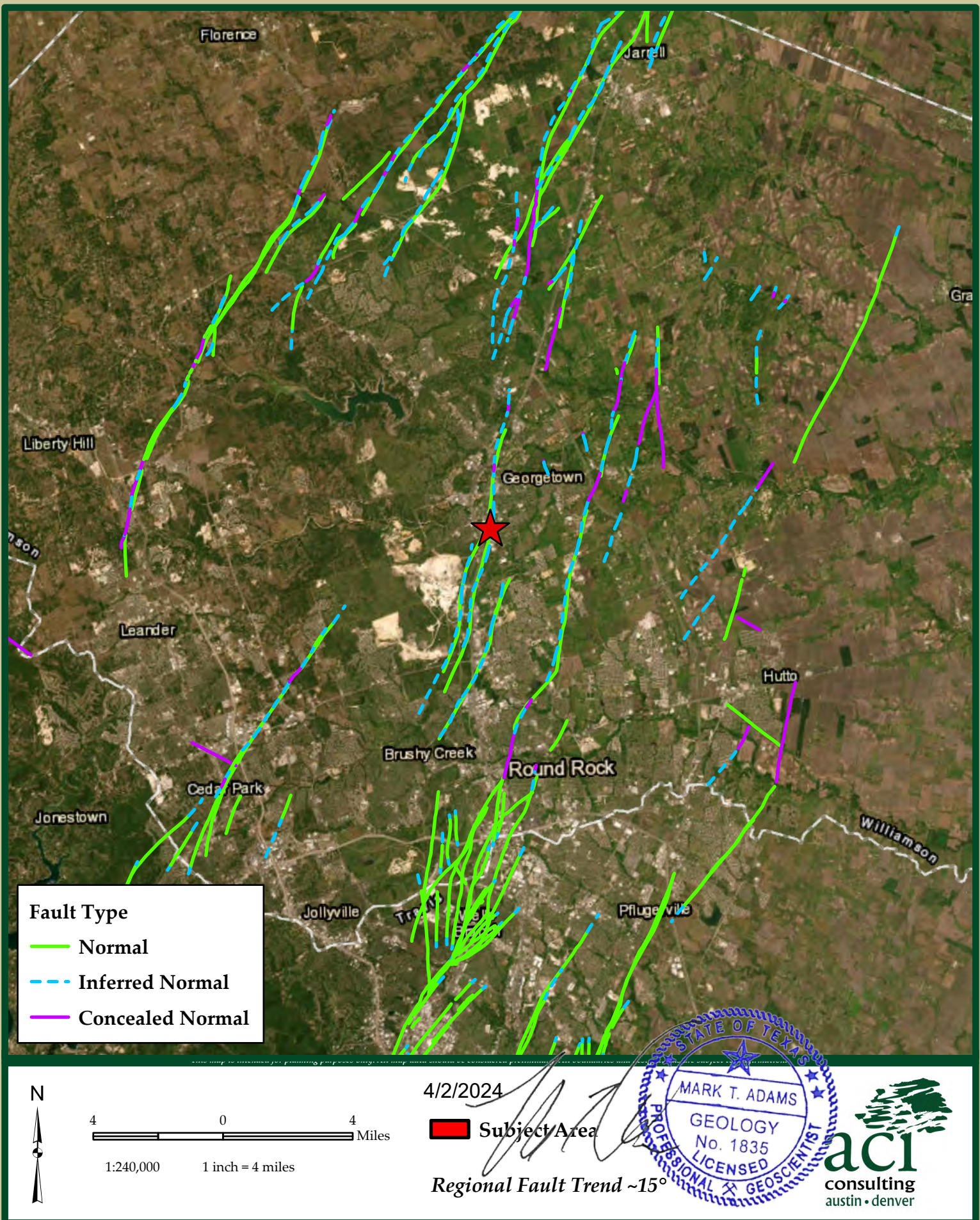


50 0 50 Feet  
1:600 1 inch = 50 ft

 Subject Area







Southside Pump Station

Figure 4: Regional Trend Map

## **ATTACHMENT B**

### Geologic Table Geologic and Manmade Feature Map (Figure 5) Feature Descriptions and Recommendations



GEOLOGIC ASSESSMENT TABLE						PROJECT NAME: Southside Pump Station															
LOCATION			FEATURE CHARACTERISTICS												EVALUATION		PHYSICAL SETTING				
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12	
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY	
						X	Y	Z		10							<40	≥40	<1.6	≥1.6	
MM1	30.6198145	-97.6813413	MB	30	Ked	?	?	?	-	0	-	-	?	10	40		X	X		Hillside	
MM17	30.6192521	-97.6816115	MB	30	Ked	?	?	?	-	0	-	-	?	10	40		X	X		Hillside	
MM22	30.6195668	-97.6814178	MB	30	Ked	?	?	?	-	0	-	-	?	10	40		X	X		Hillside	
MM24	30.6195819	-97.6812935	MB	30	Ked	?	?	?	-	0	-	-	?	10	40		X	X		Hillside	
																	</				

\* DATUM: NAD 1983 State Plane 4203


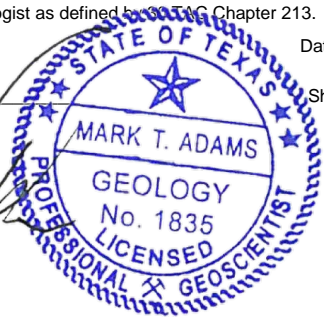
2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

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

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

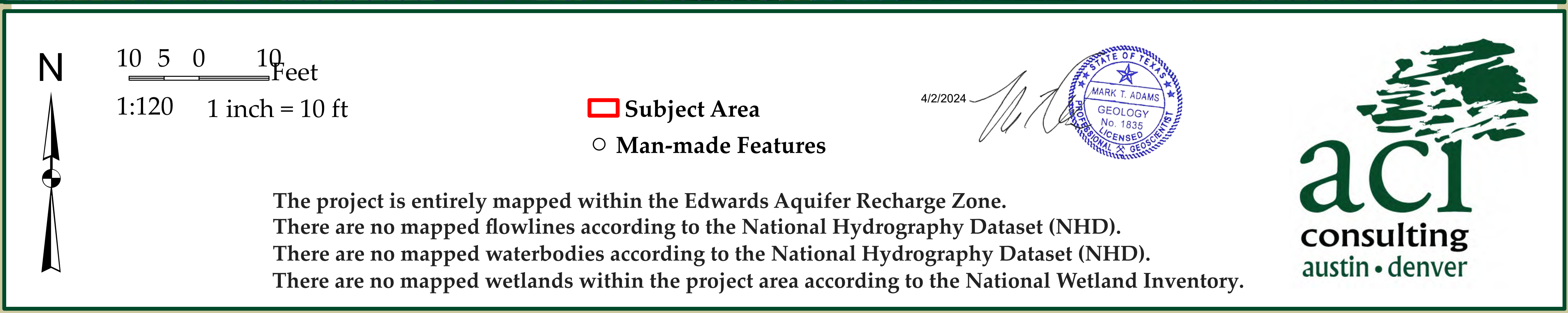
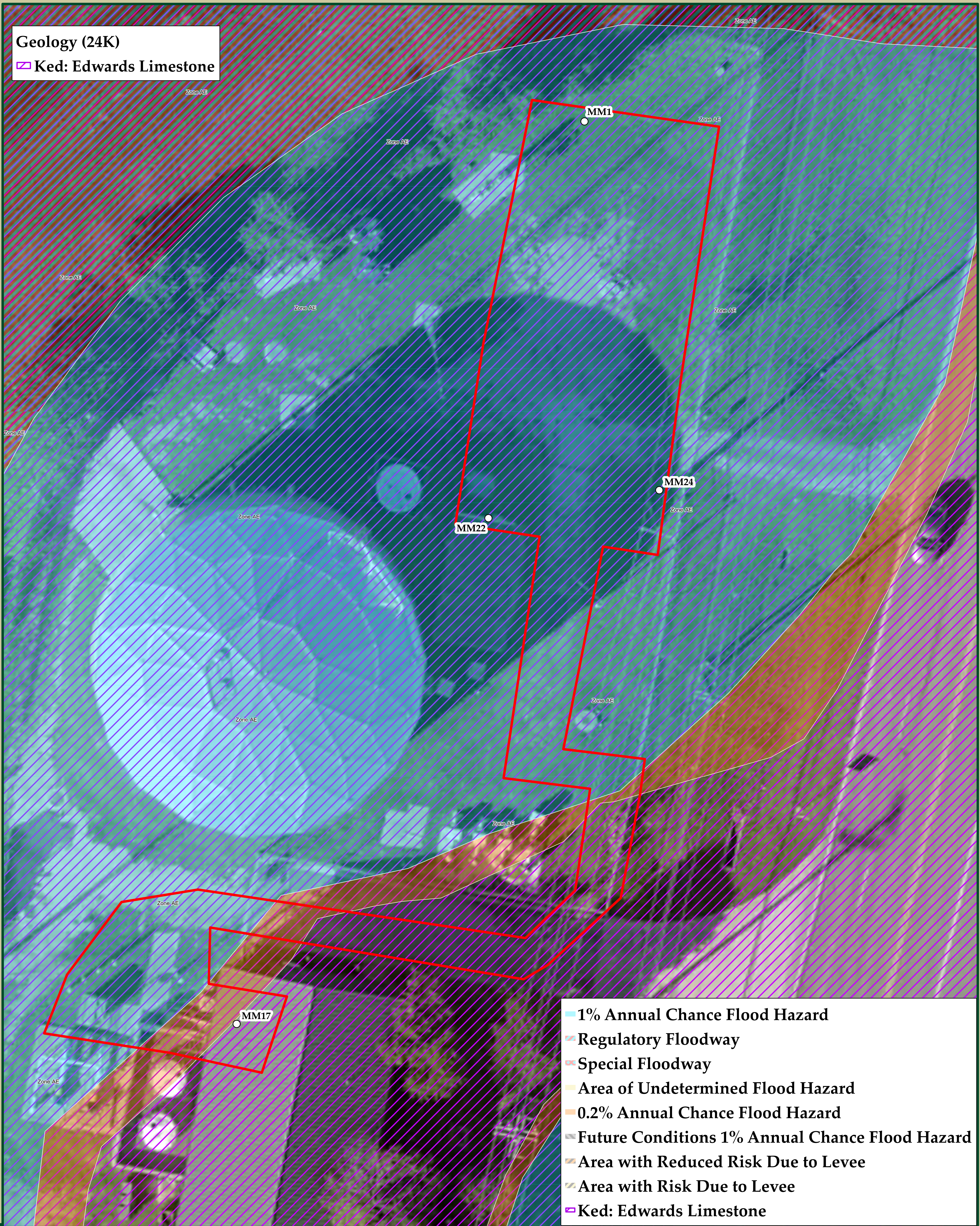
I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist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

Date 4/2/2024  
Sheet 1 of 1



P:\Project Folders\09-22-216 GAI Georgetown Generators\GIS\Maps\Lift Stations\Southside\GA\Fig5\_Feature.aprx



Southside Pump Station

Figure 5: Geological Feature Map



## MM-1

GPS: N. 30.6198145 W. -97.6813413

This feature is a manmade feature in bedrock (utility pole) with an unknown diameter extending below the surface for an unknown depth. The feature is located in the Edwards Limestone and is positioned on a hillside. Infill material is unknown. The feature has no trend, and a drainage area of less than 1.6 acres. In using Figure 1 in Instructions to Geologists, it was determined that this feature has an infiltration rate of 10 points due to its status as a manmade feature in bedrock, in order to bring it to the attention of the project engineer.

**Recommendation:** This feature needs to be brought to the attention of the engineer but does not require any protective setbacks.



Photo of MM-1

## MM-17

GPS: N. 30.6192521 W. -97.6816115

This feature is a cluster of manmade features in bedrock that includes, a membrane process facility, bulk chemical storage area, backwash pump station and associated subsurface pipes, and bulkheads. These features are of unknown dimensions extending below the surface for an unknown depth. The features are located in the Edwards Limestone and are positioned on a hillside. Infill material is unknown. The feature has no trend, and a drainage area of less than 1.6 acres. In using Figure 1 in Instructions to Geologists, it was determined that this feature has an infiltration rate of 10 points due to its status as a manmade feature in bedrock, in order to bring it to the attention of the project engineer.

**Recommendation:** This feature needs to be brought to the attention of the engineer but does not require any protective setbacks.



Photo of MM-17



## MM-22

GPS: N. 30.6195668      W. -97.6814178

This feature is a manmade feature in bedrock (control room building) with unknown dimensions extending below the surface for an unknown depth. The feature is located in the Edwards Limestone and is positioned on a hillside. Infill material is unknown. The feature has no trend, and a drainage area of less than 1.6 acres. In using Figure 1 in Instructions to Geologists, it was determined that this feature has an infiltration rate of 10 points due to its status as a manmade feature in bedrock, in order to bring it to the attention of the project engineer.

**Recommendation:** This feature needs to be brought to the attention of the engineer but does not require any protective setbacks.



Photo of MM-22

#### MM-24

GPS: N. 30.6195819 W. -97.6812935

This feature is a manmade feature in bedrock (utility pole) with an unknown diameter extending below the surface for an unknown depth. The feature is located in the Edwards Limestone and is positioned on a hillside. Infill material is unknown. The feature has no trend, and a drainage area of less than 1.6 acres. In using Figure 1 in Instructions to Geologists, it was determined that this feature has an infiltration rate of 10 points due to its status as a manmade feature in bedrock, in order to bring it to the attention of the project engineer.

**Recommendation:** This feature needs to be brought to the attention of the engineer but does not require any protective setbacks.



Photo of MM-24

## ATTACHMENT C

### Historic Aerial Photographs

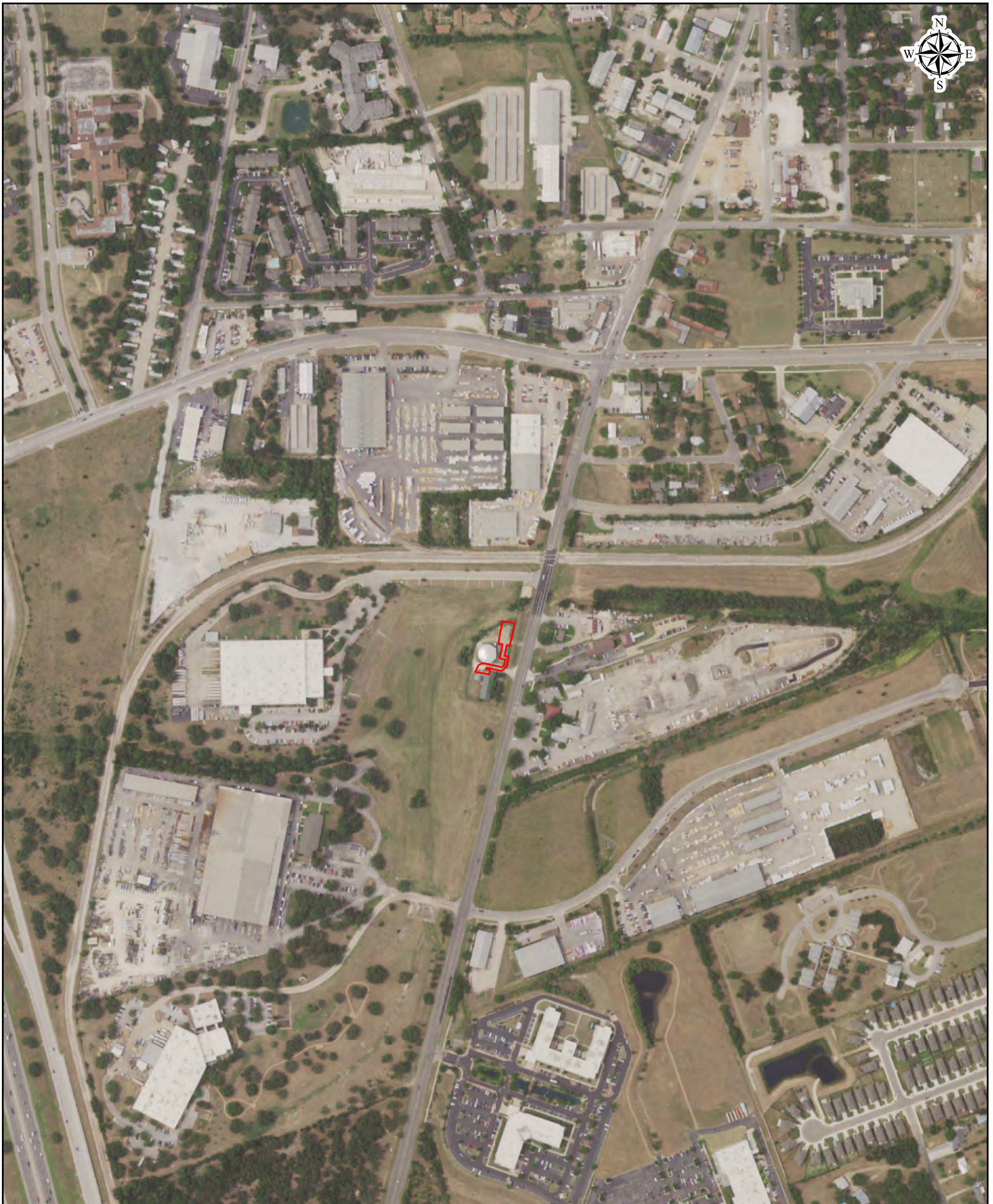
**Prepared for:**

ACI ENVIRONMENTAL CONSULTING, LLC  
1001 Mopac Circle  
Austin, TX 78746



Historical Aerial Photographs	Southside Water Treatment Plant (09-22- TX 78626 Williamson County ES-143570 Friday, February 23, 2024
-------------------------------------	---

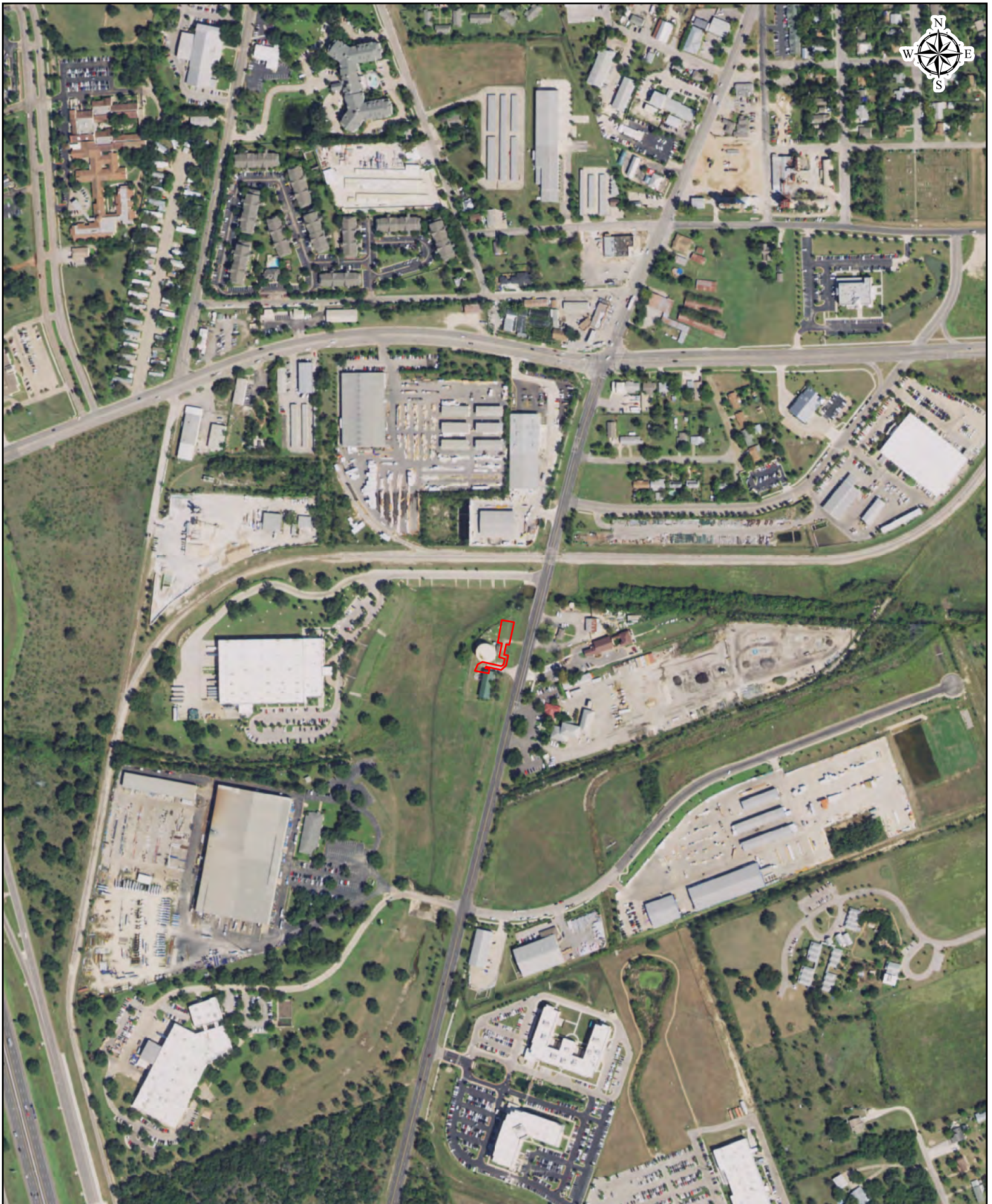




Date: 2022  
Source: USDA

0 250 500 1,000 Feet





Date: 2016  
Source: USDA

0 250 500 1,000 Feet







Date: 2010  
Source: USDA

0 250 500 1,000 Feet





Date: 2004  
Source: USDA

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP





Date: 1995  
Source: USGS

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP





Date: 1990  
Source: USGS

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP



Date: 1981  
Source: USGS

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP





Date: 1976  
Source: TXDOT

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP





Date: 1964  
Source: ASCS

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP



Date: 1953  
Source: AMS

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP





Date: 1941  
Source: ASCS

0 250 500 1,000 Feet

 **BANKS**  
ENVIRONMENTAL DATA  
A DIVISION OF THE BANKS GROUP

HISTORICAL AERIAL PHOTOGRAPHS	
ES-143570	February 23, 2024

## AERIAL SOURCE DEFINITIONS

Acronym	Agency
NASA	National Aeronautics & Space Administration
AMS	Army Mapping Service
ASCS	Agricultural Stabilization & Conservation Service
SCS	Soil Conservation Service
USBR	United States Bureau of Reclamation
Fairchild	Fairchild Aerial Surveys
TXDOT	Texas Department of Transportation
BLM	Bureau of Land Management
USAF	United States Air Force
USCOE	United States Corps of Engineers
USDA	United States Department of Agriculture
USGS	United States Geological Survey
WALLACE	Wallace-Zingery Aerial Surveys
TNRIS	Texas Natural Resources Information System

HISTORICAL AERIAL PHOTOGRAPHS	
ES-143570	February 23, 2024



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# Aboveground Storage Tank Facility Plan Application

## Texas Commission on Environmental Quality

For Permanent Storage on The Edwards Aquifer Recharge and Transition Zones And Relating to 30 TAC §213.5(e), 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.*

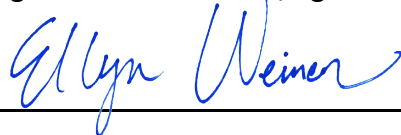
## Signature

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 **Aboveground 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: Ellyn Weimer, PE

Date: 10-08-2024

Signature of Customer/Agent:



Regulated Entity Name: Southside Water Treatment Plant

## Aboveground Storage Tank (AST) Facility Information

1. Tanks and substance stored:

**Table 1 - Tank and Substance Storage**

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1	2520	Diesel	Welded Steel
2			
3			
4			



<i><b>AST Number</b></i>	<i><b>Size (Gallons)</b></i>	<i><b>Substance to be Stored</b></i>	<i><b>Tank Material</b></i>
5			

**Total x 1.5 = 3780 Gallons**

2. ☒ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.
- ☒ **Attachment A - Alternative Methods of Secondary Containment.** Alternative methods for providing secondary containment are proposed. Specifications that show equivalent protection for the Edwards Aquifer are attached.

3. Inside dimensions and capacity of containment structure(s):

**Table 2 - Secondary Containment**

<i><b>Length (L) (Ft.)</b></i>	<i><b>Width (W) (Ft.)</b></i>	<i><b>Height (H) (Ft.)</b></i>	<i><b>L x W x H = (Ft3)</b></i>	<i><b>Gallons</b></i>
47	10	13.5	6,345	47,460
49	21	1	1,029	7,697

**Total: 55,157 Gallons**

4. ☒ All piping, hoses, and dispensers will be located inside the containment structure.
- ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
- ☐ The piping will be aboveground
- ☐ The piping will be underground
5. ☒ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of UL-2085 double-wall carbon steel.
6. ☒ **Attachment B - Scaled Drawing(s) of Containment Structure.** A scaled drawing of the containment structure that shows the following is attached:
- ☐ Interior dimensions (length, width, depth and wall and floor thickness).
- ☐ Internal drainage to a point convenient for the collection of any spillage.
- ☒ Tanks clearly labeled.
- ☐ Piping clearly labeled.
- ☐ Dispenser clearly labeled.

## **Site Plan Requirements**

**Items 7 - 18 must be included on the Site Plan.**

7. ☒ The Site Plan must have a minimum scale of 1" = 400'.  
Site Plan Scale: 1" = 20'.
8. 100-year floodplain boundaries:
- ☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
  - ☐ No part of the project site is located within the 100-year floodplain.
  - ☒ The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRM 48491C0290E Effective 12/20/2019.
9. ☒ 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.
10. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
- ☒ There are 1 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply):
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☒ The wells are in use and comply with 16 TAC § 76.
  - ☒ There are no wells or test holes of any kind known to exist on the project site.
11. 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 C - Exception to the Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.
12. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
13. ☒ Areas of soil disturbance and areas which will not be disturbed.
14. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

15. ☒ Locations where soil stabilization practices are expected to occur.
16. ☐ Surface waters (including wetlands).  
☒ N/A
17. ☐ Locations where stormwater discharges to surface water or sensitive features.  
☒ There will be no discharges to surface water or sensitive features.
18. ☒ Legal boundaries of the site are shown.

### ***Best Management Practices***

19. ☒ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.  
☒ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.  
☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.
20. ☒ All stormwater accumulating inside the containment structure will be disposed of through an authorized waste disposal contractor.  
☐ Containment area will be covered by a roof.  
☒ Containment area will not be covered by a roof.  
☐ A description of the alternate method of stormwater disposal is submitted for the executive director's review and approval and is attached.
21. ☒ **Attachment D - Spill and Overfill Control.** A site-specific description of the methods to be used at the facility for spill and overfill control is attached.
22. ☒ **Attachment E - Response Actions to Spills.** A site-specific description of the planned response actions to spills that will take place at the facility is attached.

### ***Administrative Information***

23. 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 with this application, 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 AST 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).
24. ☒ This facility is subject to the requirements for the reporting and cleanup of surface spills and overfills pursuant to 30 TAC 334 Subchapter D relating to Release Reporting and Corrective Action.
25. ☒ 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.
26. ☒ Any modification of this AST Facility Plan application will require executive director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

# National Flood Hazard Layer FIRMMette



97°41'13"W 30°37'26"N



1:6,000

97°40'35"W 30°36'55"N

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/14/2024 at 5:40 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tanks Facility Plan**

Alternative methods other than a containment structure sized to capture one and one-half times the storage capacity of the system for the three proposed fuel tanks are proposed. The proposed generator fuel tank is a double-wall subbase design carbon steel construction tank complying with UL-2085 Standard, as indicated by the National Fire Protection Association (NFPA) 30 – Flammable and Combustible Liquids Code. The inner tanks serve as the primary fuel storage container while the outer tank serves as secondary containment.

According to the Texas Administrative Code (TAC), double-wall tanks may be used to comply with the secondary containment requirements of TAC 30, §334.45, provided that the tanks meet the following additional provisions:

- The secondary wall of such double-wall tanks shall be structurally designed to contain and support the full-load capacity of the primary tank without failure.
- The double-wall tank (including both the primary and secondary tank walls) shall be protected from corrosion in accordance with one or more of the allowable methods included in TAC 30 §334.49 -Corrosion Protection.
- The double-wall tank shall be designed, installed, operated, and maintained in accordance with the applicable codes or standards of practice developed by a nationally recognized association or independent testing laboratory that has been reviewed and determined by the agency to be no less protective of human health and safety, and the environment than the standards described in accordance with procedures in TAC 30 §334.43 and TAC 30§334.45.

The subbase tank will include a welded steel containment basin, sized at a minimum of 110 percent of the tank capacity to prevent the escape of fuel into the environment in the event of a tank rupture. The generator fill ports will be equipped with a an overfill prevention valve as well as a leak detection system for the interstitial space to alert for any potential leaks. The tanks will also have a tank level indicator, with high and low-level switches to indicate fuel level at all times. Refer to **Attachment D** for spill and overfill response procedures. Specifications for the generator fuel tanks are attached to this document to show compliance with containment provisions in order to prevent leaks into the Edward's Aquifer.

A scaled drawing of the generators and fuel tanks is provided in **Attachment B**. Please note that the shop drawings for the generator and fuel tanks have not yet been submitted to the Engineer for review. Shop drawings of the generators and generator fuel tanks will be reviewed for compliance of the specified standards and provisions upon receipt from Contractor. A sample cut sheet from a similar generator fuel tank is attached to Appendix B for reference.



## SECTION 26 32 13 - ENGINE GENERATOR SET

### PART 1 - GENERAL

#### 1.1 SCOPE OF WORK

- A. Furnish and install diesel-fueled engine generator sets with all appurtenances as shown on the Drawings and specified herein.
  - 1. Permanently Mounted Generators
    - a. Pastor Pump Station
    - b. Rabbit Hill Pump Station
    - c. Southside Water Treatment Plant
    - d. Domel #1 and Pump Station
    - e. Westside Service Center
- B. Provide each engine generator set as follows:
  - 1. Each generator kW size shown on the drawings is a minimum size acceptable size with the kVA rating calculated at 0.8 power factor, even if the combined power factor of the loads shown on the drawings are calculated to be greater than 0.8.
  - 2. The electrical system which includes the conductors, raceways, circuit breakers, switchgear bus and automatic transfer switch amperage have been sized based on the kW and kVA (based on 0.8 power factor) of the generator shown on the drawings.
  - 3. No decrease in the kw/kVA or power factor of an engine generator set based on the loads shown or decrease of the size of engine generator set manufactured by a particular vendor will be allowed.
  - 4. Provide each engine generator set that meets all the specified performance criteria. Increase the size of the engine generator set as required to meet the specified performance criteria.
  - 5. If the engine generator size increases to supply current greater than the conductors, breakers or bus sizes shown, increase the conductors, raceways, breakers, bus and automatic transfer switch amperage, and all other associated equipment, to accommodate the larger generator size. All sizing of associated equipment shall be in accordance with the NEC. Submit all required changes specified above to the Engineer/Owner.
  - 6. No changes will be allowed for any increase of the size of any power system component without approval.
  - 7. No changes in the Contract Price will be allowed for the increase of size of any power system component to accommodate an increase in size of the engine generator set.
- C. Provide fuel for startup and testing. At the completion of startup and testing, fill the respective generator tank.

## 1.2 RELATED WORK

- A. Refer to Division 26 00 00 for related work and electrical coordination requirements.

## 1.3 SUBMITTALS

- A. Submittals shall be made in accordance with the requirements of Division 1, Section 26 00 00, the Contract Documents and as specified herein the following:
  - 1. The manufacturers' names and product designation or catalog numbers for the types of materials specified or shown on the Drawings.
  - 2. Cut sheets for each individual item shall be submitted.
  - 3. All cut sheets shall be clearly marked to indicate which products are being submitted for use on this project.
  - 4. Unmarked cut sheets will cause the submittal to be rejected and returned for revision.
- B. All shop drawing submittals and all O&M submittals shall be submitted in accordance with the requirements listed in Division 1. No change in Contract Price or Schedule will be allowed for delays due to unacceptable submittals.
- C. Submittals shall also contain information on related equipment to be furnished under this Specification. Incomplete submittals not containing the required information on the related equipment will also be returned without review.
- D. Time-current coordination curves for protective device relays, circuit breakers, and fuses submitted shall be included as a part of these submittals.
- E. The original equipment manufacturer shall create all equipment shop drawings, including all wiring diagrams, in the manufacturer's Engineering Department. All equipment shop drawings shall bear the original equipment manufacturer's logo, drawing file numbers, and shall be maintained on file in the original equipment manufacturer's archive file system. Photocopies of the Engineer's ladder schematics are unacceptable as shop drawings.
- F. Submit to the Owner/Engineer, complete shop drawings and product data for all components in one package in a single submittal. Submitting the engine-generator, fuel tank, sound enclosure and access platforms in separate packages will not be acceptable and will be returned without review. Failure to submit all components at once may cause a delay in the construction schedule because of a delay in receiving approval to release the equipment manufacture. Delays caused by incomplete submittals, incorrect submittals, submittals not meeting these specifications causing excessive resubmittals will not be an acceptable reason for extending the Contract Time or increasing the Contract Price.
- G. Submit to the Owner/Engineer, shop drawings and product data, for the following:
  - 1. Equipment outline drawings showing elevation and plan views, dimensions, weight, anchor details, and required operating clearances.
  - 2. Conduit entrance drawings.
  - 3. Product data sheets and catalog numbers for the engine, AC generator, battery charger, engine generator set control system, electronic governor system, control stations, meters, relays, pilot lights, circuit breaker, etc. List all options and accessories furnished

- specifically for this project. Clearly mark each sheet to indicate which items apply and/or those items that do not apply.
4. Provide control systems engineering to produce custom unit elementary drawings showing interconnecting wiring and interlocking between components and to remotely mounted devices. Include and identify all connecting equipment and remote devices on the schematics. The notation "Remote Device" will not be acceptable. Show wire and terminal numbers. Indicate special identifications for electrical devices per the Drawings.
  5. Provide plan and elevation drawings of each engine generator set, with dimensions, exterior and interior views, showing component layouts, controls, terminal blocks, etc.
  6. Schematic diagram
  7. Nameplate schedule
  8. UL Listing of the completed assembly.
  9. Component list with detailed component information, including original manufacturer's part number.
  10. Conduit entry/exit locations
  11. Assembly ratings including:
    - a. Short-circuit rating
    - b. Voltage
    - c. Continuous current
    - d. Alternator construction details including:
      - 1) Stator winding construction, conductor materials, temperature rating, verify VPI insulation
      - 2) Rotor construction details including conductor materials.
  12. Major component ratings including:
    - a. Voltage
    - b. Continuous current
    - c. Interrupting ratings
  13. Number and size of cables per phase, neutral if present, ground and all cable terminal sizes. Verify the generator termination is able to terminate the conductors shown on the drawings.
  14. Service and feeder connectors.
  15. Submit calculations showing that the generator sizing is correct for the voltage and frequency variations specified.
  16. Instruction and renewal parts books.
  17. Sound enclosure and all items mounted to the sound enclosure (including lighting, electrical panels, and raceway).
    - a. The sound enclosure drawings shall clearly show all access doors and hatches which shall determine the width of the access platform.
    - b. Provide construction drawings showing structural features including materials of construction, insulation, attachment methods to the generator, etc.
    - c. Provide cut sheets on all items. Cut sheets shall demonstrate that Section 26 05 33 Raceway Boxes, Enclosures and Fittings and 26 05 29 Electrical Support Hardware have been met marked as required to indicate the materials provided. Unmarked cut sheets will be rejected.
    - d. Provide sound enclosure sound ratings showing the calculated decrease in dB ratings for the proposed enclosure.



18. Provide structural drawings on the access platform including all specified details.
  - a. Show that the width of the platform allows the sound enclosure doors to open a minimum of 90 degrees. See structural specifications and drawings for more information.
  - b. Show the location of the specified grounding pads.
  - c. If a sound enclosure are provided with doors which are wider than shown on the drawings, the width of the access platform and the structural slab supporting the platform shall be modified with no increase in the Contract Price or Schedule allowed. Submit details of all required changes to the Engineer for review and approval.
19. Fuel tank and all associated instrumentation including engineering drawings showing dimensions, weights, capacity, materials of construction, finishes for steel components and cut sheets for all instrumentation components provided.
20. Cut sheets on all conductors provided showing that they are tinned and meet the requirements of Section 26 05 19 Low Voltage Wires and Cables.

H. Factory Test Reports. Submittals shall be made for factory tests specified herein.

I. Field Test Reports. Submittals shall be made for field tests specified herein.

J. Operation and Maintenance Manuals.

1. Operation and maintenance manuals shall include the following information:
  - a. Manufacturer's contact address and telephone number for parts and service.
  - b. Instruction books and/or leaflets
  - c. Recommended renewal parts list
  - d. Record Documents for the information required by the Submittals above.
  - e. Operating instructions, including periodic engine generator set operational testing.
  - f. Automatic and manual startup and shutdown sequences.

K. The manufacturer shall submit for approval, a training agenda for all training specified herein. Training agenda shall not be submitted until final approval of the Operation and Maintenance Manual.

L. If the generator size must be increased to meet the specified performance criteria, and the supporting components of the power system must be changed to support the increase in the generator size, submit a list of all changes required along with supporting calculations. Submittal of any required changes shall be made to the Engineer/Owner prior to proceeding with the changes.

#### 1.4 REFERENCE CODES AND STANDARDS

A. All products and components shown on the Drawings and listed in this specification shall be designed and manufactured according to latest revision of the following standards (unless otherwise noted):

1. NEMA Standard ICS 2 – 2000 Industrial Control and Systems

2. NFPA 70 – National Electrical Code (NEC)
3. NFPA 70E – Standard for Electrical Safety in the Workplace
4. NFPA 110 for Level 1 Systems.
5. OSHA for rotating parts.
6. NEMA MG1 temperature limits.
7. UL508A
8. CSA282-M1989
9. IEC 8528 part 4
10. Mil – Std 461C part 9
11. IEC Std 801.2, 801.3, 801.5
12. IEEE587
13. ASTM D2794-93
14. ASTM D2247-92
15. UL 2085 – Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids

- B. All equipment components and completed assemblies specified in this Section of the Specifications shall bear the appropriate label of Underwriters Laboratories.

#### 1.5 QUALITY ASSURANCE

- A. The manufacturer of this equipment shall have produced similar equipment for a minimum period of ten years. When requested by the Engineer, an acceptable list of installations with similar equipment shall be provided demonstrating compliance with this requirement.
- B. The manufacturer of the assembly shall be the manufacturer of the major components within the assembly. All assemblies shall be of the same manufacturer. Equipment that is manufactured by a third party and “brand labeled” shall not be acceptable.
- C. All components and material shall be new and of the latest field proven design and in current production. Obsolete components or components scheduled for immediate discontinuation shall not be used.
- D. For the equipment specified herein, the manufacturer shall be ISO 9001 2000 certified.
- E. Equipment submitted shall fit within the space shown on the Drawings. Equipment which does not fit within the space is not acceptable.

#### 1.6 JOBSITE DELIVERY, STORAGE AND HANDLING

- A. Prior to jobsite delivery, complete all submittal requirements, and present to the Owner/Engineer upon delivery of the equipment, an approved copy of all such submittals. Delivery of incomplete constructed equipment, or equipment which failed any factory tests, will not be permitted.
- B. Equipment shall be handled and stored in accordance with manufacturer's instructions. Two copies of these instructions shall be included with the equipment at time of shipment and shall be made available to the Contractor and Owner. The instructions shall include detailed assembly instructions including but not limited to wiring interconnection diagrams, rigging for lifting, skidding, jacking, and moving using rolling equipment to place the equipment, bolt torquing



4. Analog DC voltmeter and ammeter, 12-hour equalize charge timer, AC and DC fuses shall also be provided on the charger.

## 2.13 OUTDOOR WEATHER-PROTECTIVE HOUSING

- A. Engine generator set housing shall be provided factory assembled to engine generator set base and radiator cowl and shall be of the sound-attenuated type. Housing shall provide ample airflow for engine generator set operation at rated load in the ambient conditions previously specified. The housing shall have hinged side access doors and rear control door. All doors shall be lockable. All sheet metal shall be primed for corrosion protection and finish painted with the manufacturer's standard color using a two-step electro-coating paint process, or equal meeting the performance requirements specified below. All surfaces of all metal parts shall be primed and painted. The painting process shall result in a coating, which meets the following requirements:
  1. Primer thickness: 0.5-2.0 mils. Topcoat thickness, 0.8-1.2 mils.
  2. Gloss, per ASTM D523-89, 80% plus or minus 5%. Gloss retention after one year shall exceed 50%.
  3. Crosshatch adhesion, per ASTM D3359-93, 4B-5B.
  4. Impact resistance, per ASTM D2794-93, 120-160 inch-pounds.
  5. Salt Spray: per ASTM B117-90, 1000+ hours.
  6. Humidity: per ASTM D2247-92, 1000+ hours.
  7. Water Soak: per ASTM D2247-92, 1000+ hours.
  8. Painting of hoses, hose clamps, wiring harnesses, and other non-metallic service parts shall not be acceptable. Fasteners used shall be corrosion resistant and designed to minimize marring of the painted surface when removed for normal installation or service work.
- B. Sound Attenuation
  1. Housing shall be sound attenuating type, producing a noise level not greater than the allowable limits at nearest property line (refer to drawings at each site). In no case shall the sound level at the nearest property line exceed 65 dbA.
  2. Enclosure sound ratings shall be submitted.

## 2.14 FUEL STORAGE TANK

- A. Provide a dual wall subbase fuel storage tank. The tank shall be sized to provide 24 hours usable capacity at 100% load. The tank shall be constructed of corrosion resistant steel and shall be double wall UL-2085 listed. The equipment, as installed, shall meet all local and regional requirements for above ground tanks. Provide the fuel tank with a continuous level transmitter, and a leak detector. The fuel level transmitted shall provide a 4-20mA signal to the Owner's SCADA system. The fuel tank shall be constructed to place the fill spout on the generator end so to facilitate access from the generator enclosure entry door on the side of the generator closest to the access road as shown on the Drawings.

2.15 VIBRATION ISOLATOR

- A. Furnish and install spring type vibration-isolators between the sub-base tank and the engine generator set. A minimum of six isolators shall be used, properly sized for the engine generator set supplied.
- B. Submit vibration isolator cut sheets.

2.16 SERVICE AND FEEDER LUGS AND CONNECTORS

- A. Preparation for and connections to the incoming and outgoing cables, to be connected to the generator and auxiliary components including all lugs, terminators, etc., shall be in accordance with Section 26 05 19 for 600 Volt conductors and Section 26 05 13 for medium voltage conductors.
- B. Submit generator termination compartment drawings to verify the termination complement(s) will accept the generator power cables shown on the drawings.

2.17 CIRCUIT BREAKERS

- A. Furnish and install a generator mounted molded case circuit breaker of the rating and size as indicated on the drawing. The circuit breaker shall meet the specification in Section 26 28 16 Low Voltage Enclosed Circuit Breakers and Disconnect Switches. The Circuit breaker shall be one of the listed manufacturers and shall not be a special breaker which is not commonly available from stock.
- B. Where shown on the Drawings, furnish and install two mounted main line circuit breakers, sized to carry the rated output current of the engine generator set.
- C. The circuit breakers interrupting rating shall not be less than the maximum asymmetrical short circuit output of the generator.
- D. Main circuit breaker shall have auxiliary position contacts wired to a terminal block within the control cabinet for monitoring by the Owner's SCADA system.

2.18 PANELBOARD

- A. Furnish and install a generator mounted panelboard, of a size, rating and capacity, as shown on the Drawings.
- B. Panelboard and housing shall be NEMA 4X 316 stainless steel, manufactured in accordance with Section 26 24 16 Panelboards.

2.19 GENERATOR ACCESS PLATFORM

- A. Provide with the engine generator set, a set of platforms made of aluminum to serve as access into the enclosure via any of the engine generator set enclosure doors which are provided. This is to include frontage for any double door or single personnel door. The platforms shall be on



both sides of the enclosure and meet all OSHA Code requirements for access, egress, and safety. The platforms shall include hand railings around the entire perimeter of the platforms and stairs and support weight of any personnel who may lean up against or fall into the railings. Handrails shall have openings where the sound enclosure doors are required to have full opening for access to the interior of the sound enclosure.

- B. Platform width shall allow for full 90-degree opening of all generator enclosure doors. Platform approval drawings shall illustrate door openings to show adequate clearance is being provided so the doors open 90 degrees without touching the handrails. Stairs shall be included on both platforms and steps are to be as OSHA prescribed for riser distances. The platforms shall be designed such that all rain snow or sleet will easily pass through the aluminum grates on all horizontal surfaces. The platforms shall be provided by the same vendor as the engine generator set.
- C. Platforms shall have lifting means permanently and shall be constructed with support legs on all sides so that no support is from the generator frame or sound enclosure, however they shall be bolted to the generator frame so that no movement away from the generator is possible without disconnecting the bolted connections. The platforms shall not be bolted to the sound enclosure, which shall be removable without unbolting the platforms from the generator frame.
- D. The platforms shall be installed and leveled as necessary to provide a safe and level surface for all personnel. The platforms shall be anchored in such a way so that there is not a chance of swaying or other movement of the platforms while in use.
- E. Provide two ground pads on each platform. The platform drawings shall show the location of the ground pads.
- F. All fastener materials shall be 316 stainless steel.



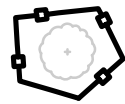






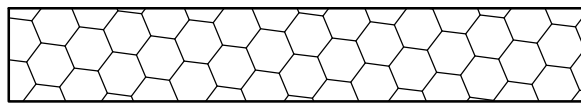
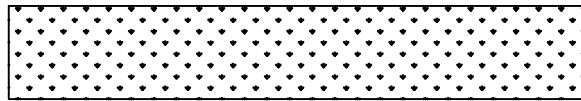

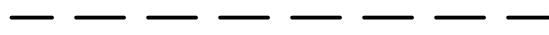

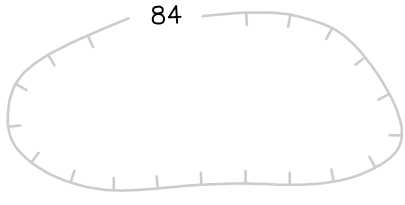


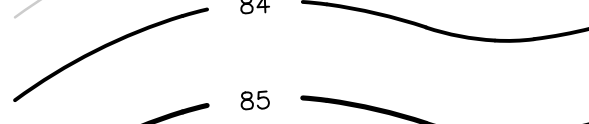
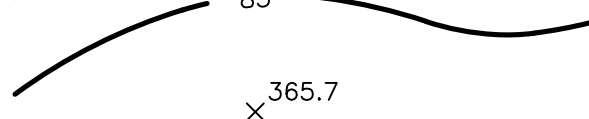
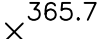

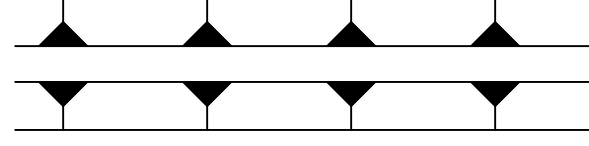
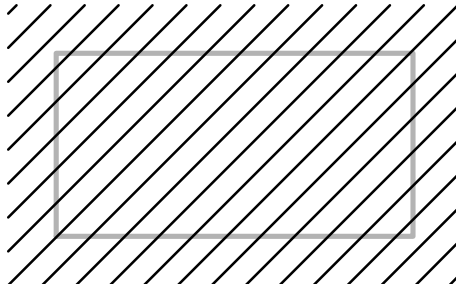
## 2.20 SPARE PARTS

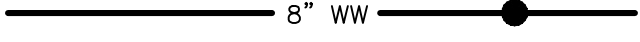
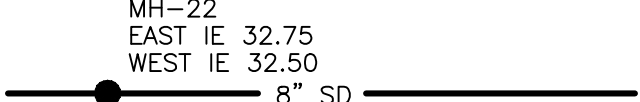
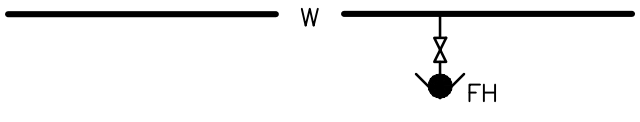

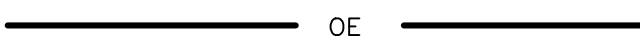

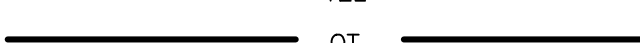



- A. Provide the following spare parts in the quantities specified:
  - 1. Two air cleaner elements of each type.
  - 2. Two Fuses of each type.
  - 3. One Radiator hoses of each type.
  - 4. Two Fuel filters of each type.
  - 5. Two Oil filters of each type.
  - 6. One Belt of each type.

## 2.21 FACTORY TESTING

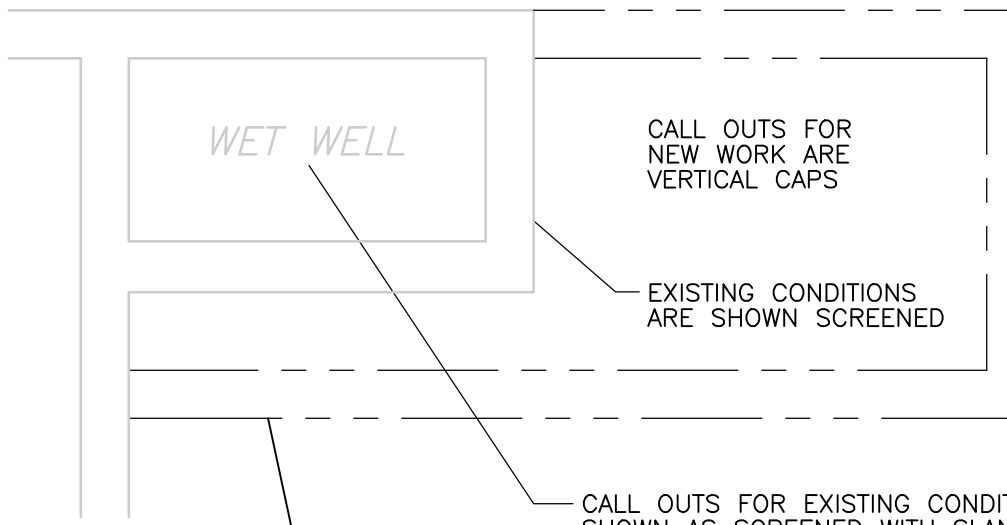
- A. The generator shall be completely assembled, wired, and adjusted at the factory and shall be given the manufacturer's routine shop tests and any other additional operational test to insure the workability and reliable operation of the equipment. The engine-generator shall be tested in its enclosure and sound measurements shall be included prove compliance with specified sound ratings as a part of the testing procedure.

XREFs: [CDMS\_2234; E. WEIMER REVIEW STMP] Images: []  
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LANDSCAPE & DRAINAGE SYMBOLS			
SYMBOL		FEATURE	
		BUILDING OR STRUCTURE FOOTPRINT	
		TREE, SIZE & TYPE	
		TREE PROTECTION	
		TREE TO BE REMOVED	
		EDGE OF WOODS OR BRUSH	
		WIRE FENCE	
		DIRECTION OF FLOW FOR STORMWATER	
		SILT FENCE	
		CHAIN LINK FENCE	
		ROCK BERM	
		RE-VEGETATED AREA	
		PROPOSED CONCRETE PAVEMENT	
		EASEMENT	
		MULCH SOCK	
SURFACE ELEVATION SYMBOLS			
SYMBOL		FEATURE	
		DEPRESSION CONTOUR	
		EXISTING INTERMEDIATE CONTOUR LINE & ELEVATION DESIGNATION	
		EXISTING INDEX CONTOUR LINE & ELEVATION DESIGNATION	
		PROPOSED INTERMEDIATE CONTOUR LINE & ELEVATION DESIGNATION	
		PROPOSED INDEX CONTOUR LINE & ELEVATION DESIGNATION	
		SPOT ELEVATION	
		EXISTING EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)	
		PROPOSED EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)	
ITEMS TO BE DEMOLISHED			
			
DESIGNED BY: <u>E. WEIMER</u>			
DRAWN BY: <u>S. SRIHARI</u>			
SHEET CHK'D BY: <u>M. STIGGINS</u>			
APPROVED BY: <u>E. WEIMER</u>			
DATE: <u>AUGUST 2024</u>			
REV. NO.	DATE	DRWN	REMARKS

UNDERGROUND/OVERHEAD UTILITY SYMBOLS	
SYMBOL	FEATURE
	WASTEWATER & MANHOLE
	STORM DRAIN & MANHOLE
	WATER LINE W/FIRE HYDRANT ASSEMBLY (INCLUDES VALVE)
	ELECTRICAL CABLE/DUCT
	OVERHEAD ELECTRIC
	TELEPHONE
	OVERHEAD TELEPHONE
	GAS LINE
	LIGHT POLE
	POWER POLE W/GUY WIRE

**EXISTING OR FUTURE CONDITION DESIGNATION**



WET WELL

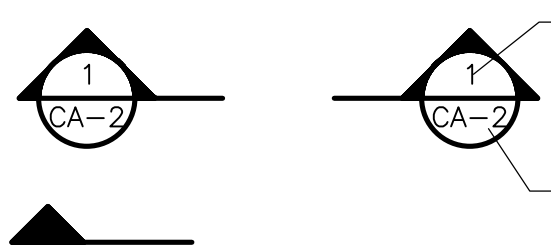
CALL OUTS FOR NEW WORK ARE VERTICAL CAPS

EXISTING CONDITIONS ARE SHOWN SCREENED

CALL OUTS FOR EXISTING CONDITIONS ARE SHOWN AS SCREENED WITH SLANTED LETTERING

FUTURE CONDITIONS ARE SHOWN WITH A PHANTOM LINETYPE

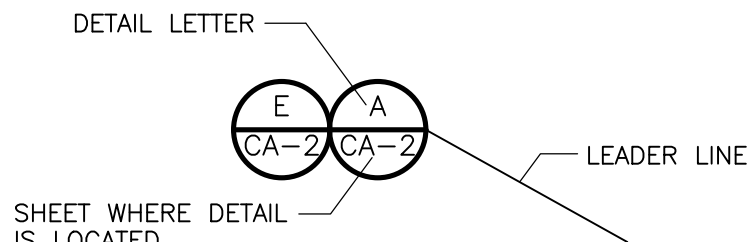
**SECTION CUT SYMBOLS**



SECTION NUMBER

SHEET WHERE SECTION IS LOCATED, IF THE SECTION IS SHOWN ON THE SAME SHEET IT IS CUT, THE SHEET NUMBER IS REPLACED WITH A DASH.

**DETAIL CALL OUT SYMBOLS**



DETAIL LETTER

SHEET WHERE DETAIL IS LOCATED

LEADER LINE

IF MULTIPLE DETAILS REFER TO THE SAME AREA OF THE DRAWING, THE BUBBLES ARE STACKED SIDE BY SIDE.

**DRAWING, SECTION & DETAIL TITLES**

SUBTITLE OR DESCRIPTION (AS REQ'D)

**PLAN**

1/4" = 1'-0"

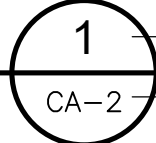
SUBTITLE OR DESCRIPTION (AS REQ'D)

**ELEVATION**

1/4" = 1'-0"

**SECTION**

3/4" = 1'-0"

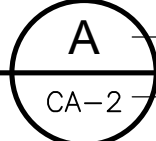


SECTION NUMBER

SHEET WHERE SECTION CUT IS TAKEN \*

**DETAIL**


3/4" = 1'-0"




DETAIL LETTER

SHEET WHERE DETAIL IS TAKEN \*

\* IF SECTION, DETAIL, SCHEMATIC OR DIAGRAM IS DRAWN ON THE SAME SHEET THAT IT IS TAKEN FROM, THE SHEET NUMBER IS REPLACED WITH A HYPHEN. IF THE SECTION IS REFERENCED ON MULTIPLE SHEETS, THE SHEET NUMBER SHOWN INDICATES THE FIRST SHEET THE SECTION IS TAKEN FROM.



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TEXAS COMMISSION OF ENVIRONMENTAL QUALITY POLLUTION ABATEMENT PLAN (WPAP) GENERAL CONSTRUCTION NOTES	
1 WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION MUST INCLUDE THE DATE ON WHICH THE REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR AND THE NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.	
2 ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WPAP AND TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.	
3 IF ANY SENSITIVE FEATURE IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY AND THE APPROPRIATE TNRCC REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE WATER QUALITY IMPACTS.	
4 NO TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM SHALL BE INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL, OR OTHER SENSITIVE FEATURE.	
5 PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECIFIED IN THE TEMPORARY STORM WATER SECTION OF THE APPROVED EDWARDS AQUIFER PROTECTION PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.	
6 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).	
7 SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.	
8 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).	
9 ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE SITE'S OWNER MUST RECEIVE WPAP APPROVAL FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.	
10 STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE. IN AREAS EXPERIENCING DROUGHTS WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS, STABILIZATION MEASURES SHALL INITIATE AS SOON AS PRACTICABLE.	
11 THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND DATES WHEN STABILIZATION MEASURES ARE INITIATED.	
12 THE HOLDER OF ANY APPROVED EDWARDS AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE (AUSTIN) REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING: A ANY 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; B ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE PLAN'S ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; C ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.	
00G02 00 GENERAL 10 PASTOR PUMP STATION 20 RABBIT HILL PUMP STATION 30 SOUTHSIDE WATER TREATMENT PLANT 40 DOMEL PUMP STATION 50 WEST SIDE SERVICE CENTER G GENERAL C CIVIL N PROCESS MECHANICAL AND INSTRUMENTATION DIAGRAMS (P&ID) S STRUCTURAL E ELECTRICAL Z STANDARD DETAILS	

GENERAL NOTES	
1 CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS TO THE ENGINEER SO THAT THE REPRODUCIBLE OF THE ENGINEERING DRAWINGS MAY BE CORRECTED TO REFLECT "RECORD DRAWING" CONDITIONS.	
2 THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AND MAINTAIN ALL NECESSARY WARNING AND SAFETY DEVICES TO PROTECT WORKMEN AND THE PUBLIC SAFETY AND HEALTH UNTIL THE WORK HAS BEEN COMPLETED AND ACCEPTED BY THE CITY.	
3 THE LOCATIONS OF EXISTING UTILITIES & STRUCTURES SHOWN ON THESE DRAWINGS ARE APPROXIMATE & ALL MAY NOT BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY IN THE FIELD THE LOCATION OF ALL EXISTING UTILITIES & STRUCTURES PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF UTILITIES, NOTIFY THE FOLLOWING AS APPLICABLE.	
CITY OF GEORGETOWN	512-930-3555
VERIZON	512-869-2237 (RON MCCORMICK AT GEORGETOWN)
GEORGETOWN ELECTRIC COMPANY	512-930-3555
4 TREES NOT SHOWN TO BE REMOVED SHALL NOT BE REMOVED WITHOUT ENGINEER'S APPROVAL. TREES APPROVED BY THE ENGINEER TO BE TRIMMED, SHALL BE CUT USING PROPER TOOLS AND THE TREE CUT SHALL BE PROPERLY SEALED.	
5 NO WORK SHALL BE PERFORMED ON SATURDAYS, SUNDAYS, OR CITY HOLIDAYS WITHOUT WRITTEN PERMISSION BY OWNER. THE SPECIFIED CONTRACT TIMES WERE ESTABLISHED ASSUMING NO WEEKEND OR HOLIDAY WORK. SATURDAYS, SUNDAYS, AND HOLIDAYS WILL BE COUNTED IN DETERMINING THE NUMBER OF CONSECUTIVE CALENDAR DAYS USED TO COMPLETE THE PROJECT. WORKING HOURS ARE LIMITED TO 7:00 AM TO 6:00 PM, MONDAY THROUGH FRIDAY.	
6 ELECTRICAL LINES ARE LOCATED CLOSE TO THE PROJECT. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE STATE LAW (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436(C)) CONCERNING OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.	
7 CONTRACTOR SHALL PARTICIPATE IN A PRE-CONSTRUCTION MEETING WITH THE OWNER, ENGINEER, AND OTHER AFFECTED PARTIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.	
8 NO BURNING OF TREES, BRUSH, RUBBISH, VEGETATION, OR OTHER OBJECTIONABLE MATTER WILL BE ALLOWED ON THE PROJECT SITE. ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE CITY OF GEORGETOWN. ALL EXCESS EXCAVATED MATERIALS SHALL BE HAULED OFF-SITE.	
9 NO BLASTING WILL BE ALLOWED.	
10 ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.	
11 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EACH SEDIMENTATION/EROSION CONTROL MEASURE ON THIS PROJECT.	
12 UNSUITABLE MATERIAL, STUMPS, OR EXCESS EXCAVATED MATERIALS SHALL BE KNOWN AS "WASTE" AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BECOME HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT IN AN ENVIRONMENTALLY SOUND & LEGALLY APPROVED MANNER. THE CONTRACTOR SHALL NOTIFY THE CITY OF GEORGETOWN PRIOR TO OFFSITE DISPOSAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.	
13 EROSION CONTROL CONSTRUCTION SEQUENCE:	
1 INSTALL EROSION CONTROL MEASURES AS INDICATED.	
2 SITE VISIT BY CITY OF GEORGETOWN INSPECTOR.	
3 AFTER INSPECTOR APPROVAL, BEGIN CONSTRUCTION.	
4 UPON CONSTRUCTION COMPLETION, RESTORE ALL DISTURBED AREAS.	
5 ARRANGE FOR FINAL INSPECTION.	
6 REMOVE TEMPORARY EROSION CONTROL MEASURES.	
14 ALL EXISTING UTILITIES, STRUCTURES, AND PIPES SHALL BE PROTECTED BY CONTRACTOR.	
15 CARE SHALL BE TAKEN TO PROTECT EXISTING FACILITIES.	
16 FINISHED GRADES SHALL SLOPE UNIFORMLY.	
17 TRACK EQUIPMENT WILL NOT BE ALLOWED ON PAVED ROADWAYS WITHOUT APPROPRIATE PROTECTION FOR THE PAVEMENT AS APPROVED BY THE ENGINEER.	
18 ALL BURIED PRESSURE PIPING AND FITTINGS (VALVES, BENDS, TEES, ETC.) SHALL BE RESTRAINED. MEGA-LUG SERIES 1100 RESTRAINTS, OR ENGINEER APPROVED EQUAL, MAY BE USED IN LIEU OF FACTORY RESTRAINED PIPE.	
19 SURVEY CONTROL POINTS ARE SHOWN ON CIVIL SHEETS. THIS INFORMATION SERVES AS ONE-TIME BENCHMARK INFORMATION. CONTRACTOR TO PROVIDE ADDITIONAL LINES AND GRADES AS REQUIRED.	
20 RESTRAINED JOINTS, DESIGNED PER AWWA GUIDELINES WITH FRICTION COEFFICIENT = 0.25, SHALL BE PROVIDED FOR ALL BURIED PRESSURE PIPE WITH FLEXIBLE JOINTS, INCLUDING AT ALL VERTICAL AND HORIZONTAL CHANGES IN DIRECTION, PIPE DIAMETER CHANGES, PLUGS, TEES, AND VALVES. CONCRETE THRUST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER.	
21 ALL CONSTRUCTION MATERIAL/DEBRIS SHALL BE PLACED IN AN ON-SITE CONTAINER AND DISPOSED OF PROPERLY AT AN AUTHORIZED LANDFILL.	
22 AT THE COMPLETION OF WORK AND IMMEDIATELY PRIOR TO FINAL INSPECTION, CLEANING OF THE ENTIRE PROJECT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTIONS CIP14, CIP17, G8, AND 017419.	
23 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FACILITIES (SIGNS, UTILITIES, POLES, STRUCTURES, ETC). NOT ALL FACILITIES, ETC, ARE SHOWN.	
24 ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.	
25 ANY EXISTING FENCES, WALLS, AND FACILITIES DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.	
26 ALL DISTURBED AREAS SHALL BE GRADED, HYDROMULCHED OR SODDED, AND RESTORED AT THE CONTRACTOR'S EXPENSE.	
27 CONTRACTOR SHALL FOLLOW SEQUENCE OF CONSTRUCTION SPECIFIED IN SECTION CIP3 AND SHALL NOT DEViate WITHOUT WRITTEN AUTHORIZATION FROM ENGINEER.	
28 UNLESS OTHERWISE NOTED, ALL FLEXIBLE COUPLINGS, FLANGE COUPLING ADAPTERS, ETC, SHALL BE RESTRAINED PER SPECIFICATIONS & DETAILS.	
29 WHEN MAKING CONNECTIONS TO NEW OR EXISTING PIPING, CONTRACTOR SHALL PROVIDE ALL FITTINGS, ADAPTERS, CONNECTING PIECES, SLEEVES, FLEXIBLE COUPLINGS, ETC REQUIRED TO MAKE THE CONNECTIONS IN A MANNER SATISFACTORY TO THE ENGINEER REGARDLESS OF WHETHER OR NOT THESE COMPONENTS ARE SHOWN ON THE DRAWINGS.	
30 WHEN CONNECTING TO EXISTING MANHOLES, FIELD VERIFY EXISTING INVERT ELEVATIONS AND MODIFY PROPOSED INVERT ELEVATIONS TO ACHIEVE CONTINUOUS DOWNWARD SLOPE.	
31 ALL CONNECTIONS BETWEEN NEW AND/OR EXISTING PIPING, VALVES, FITTINGS, ETC, WHERE DISSIMILAR METALS WILL BE IN CONTACT SHALL BE PROTECTED BY INSULATING SYSTEMS AS APPROVED BY THE ENGINEER.	
32 ALL CAPS/PLUGS ARE NOT SHOWN ON YARD PIPING PLAN SHEETS. CONTRACTOR IS RESPONSIBLE FOR ALL CAPS/PLUGS. ALL EXPOSED ENDS OF PIPES TO BE ABANDONED IN PLACE SHALL BE CAPPED/PLUGGED WITH CONCRETE OR MECHANICAL CAPS/PLUGS. RESTRAINED MECHANICAL CAPS OR PLUGS ARE REQUIRED FOR PIPES THAT WILL REMAIN IN SERVICE OR FOR FUTURE STUBOUTS.	
33 PIPE ALIGNMENT BENDS OF 4 DEGREES AND LESS MAY BE MADE BY DEFLECTING THE JOINTS PER ENGINEERS APPROVAL. BENDS OF MORE THAN 4 DEGREES SHALL BE MADE WITH MANUFACTURER'S STANDARD FITTINGS PER ENGINEER'S APPROVAL.	
34 LEAD IS NOT EXPECTED IN THE PAINT ON THIS PROJECT. IF LEAD IS DISCOVERED, THE CONTRACTOR SHALL COORDINATE AND PREPARE A CHANGE PROPOSAL TO HANDLE AND DISPOSE OF THE LEAD CONTAINING MATERIALS.	
35 CONTRACTOR SHALL AVOID TREE CLEARING OF ACTIVE NESTS BETWEEN MARCH 1 AND OCTOBER 1 IF DISCOVERED. ACTIVE NESTS ARE UNLIKELY OUTSIDE OF THESE MONTHS, BUT SHOULD BE CONFIRMED BEFORE DISTURBING THEM.	
<div><div><div></div><div>1"</div><div></div></div><div>ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY</div></div> <div><div>STATE OF TEXAS</div><div>ELLYN J. WEIMER</div><div>142405</div><div>LICENSED PROFESSIONAL ENGINEER</div><div>09-17-2024</div></div>	
N, TEXAS	
CIVIL	
GENERAL LEGEND AND NOTES	
PROJECT NO. 742 FILE NAME: 00G02NFLG.DWG	
SHEET NO. 00G02	



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CONSTRUCTION GENERAL PERMIT  
TPDES GENERAL PERMIT TXR150000

THE SWP3 MUST BE DEVELOPED AND IMPLEMENTED BY PRIMARY OPERATORS OF SMALL AND LARGE CONSTRUCTION ACTIVITIES AND INCLUDE, AT A MINIMUM, THE INFORMATION DESCRIBED IN THIS SECTION AND MUST COMPLY WITH THE CONSTRUCTION AND DEVELOPMENT EFFLUENT GUIDELINES IN PART IV. OF THE GENERAL PERMIT.

1. A SITE OR PROJECT DESCRIPTION, WHICH INCLUDES THE FOLLOWING INFORMATION:

A) A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY;

B) A LIST OF POTENTIAL POLLUTANTS AND THEIR SOURCES;

C) A DESCRIPTION OF THE INTENDED SCHEDULE OR SEQUENCE OF ACTIVITIES THAT WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE, INCLUDING ESTIMATED START DATES AND DURATION OF ACTIVITIES;

D) THE TOTAL NUMBER OF ACRES OF THE ENTIRE PROPERTY AND THE TOTAL NUMBER OF ACRES WHERE CONSTRUCTION ACTIVITIES WILL OCCUR, INCLUDING AREAS WHERE CONSTRUCTION SUPPORT ACTIVITIES (DEFINED IN PART I.B. OF THIS GENERAL PERMIT) OCCUR;

E) DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE;

F) A MAP SHOWING THE GENERAL LOCATION OF THE SITE (E.G., A PORTION OF A CITY OR COUNTY MAP);

G) A DETAILED SITE MAP (OR MAPS) INDICATING THE FOLLOWING:

I. PROPERTY BOUNDARY(IES);

II. DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES;

III. AREAS WHERE SOIL DISTURBANCE WILL OCCUR (NOTE ANY PHASING), INCLUDING ANY DEMOLITION ACTIVITIES;

IV. LOCATIONS OF ALL CONTROLS AND BUFFERS, EITHER PLANNED OR IN PLACE;

V. LOCATIONS WHERE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ARE EXPECTED TO BE USED;

VI. LOCATIONS OF CONSTRUCTION SUPPORT ACTIVITIES, INCLUDING THOSE LOCATED OFF-SITE;

VII. SURFACE WATERS (INCLUDING WETLANDS) EITHER AT, ADJACENT, OR IN CLOSE PROXIMITY TO THE SITE, AND ALSO INDICATE WHETHER THOSE WATERS ARE IMPAIRED; NOTE: SURFACE WATERS ADJACENT TO OR IN CLOSE PROXIMITY TO THE SITE MEANS ANY RECEIVING WATERS WITHIN THE SITE AND ALL RECEIVING WATERS WITHIN ONE MILE DOWNSTREAM OF THE SITE'S DISCHARGE POINT(S).

VIII. LOCATIONS WHERE STORMWATER DISCHARGES FROM THE SITE DIRECTLY TO A SURFACE WATER BODY OR A MUNICIPAL SEPARATE STORM SEWER SYSTEM;

IX. VEHICLE WASH AREAS; AND

X. DESIGNATED POINTS ON THE SITE WHERE VEHICLES WILL EXIT ONTO PAVED ROADS (FOR INSTANCE, THIS APPLIES TO CONSTRUCTION TRANSITION FROM UNSTABLE DIRT AREAS TO EXTERIOR PAVED ROADS). WHERE THE AMOUNT OF INFORMATION REQUIRED TO BE INCLUDED ON THE MAP WOULD RESULT IN A SINGLE MAP BEING DIFFICULT TO READ AND INTERPRET, THE OPERATOR SHALL DEVELOP A SERIES OF MAPS THAT COLLECTIVELY INCLUDE THE REQUIRED INFORMATION.

H) THE LOCATION AND DESCRIPTION OF SUPPORT ACTIVITIES AUTHORIZED UNDER THE PERMITTEE'S NOI, INCLUDING ASPHALT PLANTS, CONCRETE PLANTS, AND OTHER ACTIVITIES PROVIDING SUPPORT TO THE CONSTRUCTION SITE THAT IS AUTHORIZED UNDER THIS GENERAL PERMIT;

I) THE NAME OF RECEIVING WATERS AT OR NEAR THE SITE THAT MAY BE DISTURBED OR THAT MAY RECEIVE DISCHARGES FROM DISTURBED AREAS OF THE PROJECT;

J) A COPY OF THIS TPDES GENERAL PERMIT (AN ELECTRONIC COPY OF THIS TPDES GENERAL PERMIT OR A CURRENT LINK TO THIS TPDES GENERAL PERMIT ON THE TCEQ WEBSITE IS ACCEPTABLE);

K) THE NOI AND THE ACKNOWLEDGEMENT OF PROVISIONAL AND NON-PROVISIONAL AUTHORIZATION FOR PRIMARY OPERATORS OF LARGE CONSTRUCTION SITES, AND THE TCEQ SITE NOTICE FOR SMALL CONSTRUCTION SITES AND FOR SECONDARY OPERATORS OF LARGE CONSTRUCTION SITES;

L) IF SIGNATORY AUTHORITY IS DELEGATED BY AN AUTHORIZED REPRESENTATIVE, THEN A COPY OF THE FORMAL NOTIFICATION TO TCEQ, AS REQUIRED BY 30 TAC 305.128 RELATING TO SIGNATORIES TO REPORTS MUST BE FILED IN THE SWP3 AND MADE AVAILABLE FOR REVIEW UPON REQUEST BY TCEQ OR LOCAL MS4 OPERATOR. FOR PRIMARY OPERATORS OF LARGE CONSTRUCTION ACTIVITIES, THE FORMAL NOTIFICATION TO TCEQ MUST BE SUBMITTED EITHER ELECTRONICALLY THROUGH STEERS, TCEQ'S ELECTRONIC REPORTING SYSTEM, OR, IF QUALIFYING FOR AN ELECTRONIC REPORTING WAIVER, BY PAPER ON A DELEGATION OF SIGNATORIES FORM. FOR OPERATORS OR SMALL CONSTRUCTION ACTIVITIES, THE FORMAL NOTIFICATION TO TCEQ MUST BE SUBMITTED BY PAPER ON A DELEGATION OF SIGNATORIES FORM.

M) STORMWATER AND ALLOWABLE NON-STORMWATER DISCHARGE LOCATIONS, INCLUDING STORM DRAIN INLETS ON SITE AND IN THE IMMEDIATE VICINITY OF THE CONSTRUCTION SITE WHERE CONSTRUCTION SUPPORT ACTIVITIES WILL OCCUR; AND

N) LOCATIONS OF ALL POLLUTANT-GENERATING ACTIVITIES AT THE CONSTRUCTION SITE AND WHERE CONSTRUCTION SUPPORT ACTIVITIES WILL OCCUR, SUCH AS THE FOLLOWING: PAVING OPERATIONS; CONCRETE, PAINT AND STUCCO WASHOUT AND WATER DISPOSAL; SOLID WASTE STORAGE AND DISPOSAL; AND DEWATERING OPERATIONS.

2. A DESCRIPTION OF THE BMPS THAT WILL BE USED TO MINIMIZE POLLUTION IN RUNOFF. THE DESCRIPTION MUST IDENTIFY THE GENERAL TIMING OR SEQUENCE FOR INSTALLATION AND IMPLEMENTATION. AT A MINIMUM, THE DESCRIPTION MUST INCLUDE THE FOLLOWING COMPONENTS:

A) GENERAL REQUIREMENTS

I. EROSION AND SEDIMENT CONTROLS MUST BE DESIGNED TO RETAIN SEDIMENT ON-SITE TO THE EXTENT PRACTICABLE WITH CONSIDERATION FOR LOCAL TOPOGRAPHY, SOIL TYPE, AND RAINFALL.

II. CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED ACCORDING TO GOOD ENGINEERING PRACTICES, AND THE MANUFACTURER'S OR DESIGNER'S SPECIFICATIONS.

III. CONTROLS MUST BE DEVELOPED TO MINIMIZE THE OFFSITE TRANSPORT OF LITTER, CONSTRUCTION DEBRIS, CONSTRUCTION MATERIALS, AND OTHER POLLUTANTS REQUIRED OF PART IV.D.

B) EROSION CONTROL AND STABILIZATION PRACTICES

THE SWP3 MUST INCLUDE A DESCRIPTION OF TEMPORARY AND PERMANENT EROSION CONTROL AND STABILIZATION PRACTICES FOR THE CONSTRUCTION SITE, WHERE SMALL OR LARGE CONSTRUCTION ACTIVITY WILL OCCUR. THE EROSION CONTROL AND STABILIZATION PRACTICES SELECTED BY THE PERMITTEE MUST BE COMPLIANT WITH THE REQUIREMENTS FOR SEDIMENT AND EROSION CONTROL, LOCATED IN PART IV. OF THIS PERMIT. THE DESCRIPTION OF THE SWP3 MUST ALSO INCLUDE A SCHEDULE OF WHEN THE PRACTICES WILL BE IMPLEMENTED. SITE PLANS MUST ENSURE THAT EXISTING VEGETATION AT THE CONSTRUCTION SITE IS PRESERVED WHERE IT IS POSSIBLE.

I. EROSION CONTROL AND STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: ESTABLISHMENT OF TEMPORARY OR PERMANENT VEGETATION, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF EXISTING TREES AND VEGETATION, SLOPE TEXTURING, TEMPORARY VELOCITY DISSIPATION DEVICES, FLOW DIVERSION MECHANISMS, AND OTHER SIMILAR MEASURES.

II. THE FOLLOWING RECORDS MUST BE MAINTAINED AND EITHER ATTACHED TO OR REFERENCED IN THE SWP3, AND MADE READILY AVAILABLE UPON REQUEST TO THE PARTIES LISTED IN PART IIID.1 OF THIS GENERAL PERMIT:

(A) THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;

(B) THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND

(C) THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

III. EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING FOURTEEN (14) CALENDAR DAYS. STABILIZATION MEASURES THAT PROVIDE A PROTECTIVE COVER MUST BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED. THE TERM "IMMEDIATELY" IS USED TO DEFINE THE DEADLINE FOR INITIATING STABILIZATION MEASURES. IN THE CONTEXT OF THIS REQUIREMENT, "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, FOLLOWING THE DAY WHEN THE EARTH-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. EXCEPT AS PROVIDED IN (A) THROUGH (D) BELOW, THESE MEASURES MUST BE COMPLETED AS SOON AS PRACTICABLE, BUT NO MORE THAN FOURTEEN (14) CALENDAR DAYS AFTER THE INITIATION OF SOIL STABILIZATION MEASURES:

(A) WHERE THE IMMEDIATE INITIATION OF VEGETATIVE STABILIZATION MEASURES AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED DUE TO FROZEN CONDITIONS, NON-VEGETATIVE CONTROLS MUST BE IMPLEMENTED UNTIL THAWING CONDITIONS (AS DEFINED IN PART I.B. OF THIS GENERAL PERMIT) ARE PRESENT, AND VEGETATIVE STABILIZATION MEASURES CAN BE INITIATED AS SOON AS PRACTICABLE.

(B) IN ARID AREAS, SEMI-ARID AREAS, OR DROUGHT-STRIKEN AREAS, AS THEY ARE DEFINED IN PART I.B. OF THIS GENERAL PERMIT, WHERE THE IMMEDIATE INITIATION OF VEGETATIVE STABILIZATION MEASURES AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED OR IS PRECLUDED BY ARID CONDITIONS, OTHER TYPES OF EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED AT THE SITE AS SOON AS PRACTICABLE. WHERE VEGETATIVE CONTROLS ARE INFEASIBLE DUE TO ARID CONDITIONS, AND WITHIN FOURTEEN (14) CALENDAR DAYS OF A TEMPORARY OR PERMANENT CESSATION OF CONSTRUCTION ACTIVITY IN ANY PORTION OF THE SITE, THE OPERATOR SHALL IMMEDIATELY INSTALL NON-VEGETATIVE EROSION CONTROLS IN AREAS OF THE CONSTRUCTION SITE WHERE CONSTRUCTION ACTIVITY IS COMPLETE OR HAS CEASED. IF NON-VEGETATIVE CONTROLS ARE INFEASIBLE, THE OPERATOR SHALL INSTALL TEMPORARY SEDIMENT CONTROLS AS REQUIRED IN PART IIIF.2.(B)III.(C) BELOW.

(C) IN AREAS WHERE NON-VEGETATIVE CONTROLS ARE INFEASIBLE, THE OPERATOR MAY ALTERNATIVELY UTILIZE TEMPORARY PERIMETER CONTROLS. THE OPERATOR MUST DOCUMENT IN THE SWP3 THE REASON WHY STABILIZATION MEASURES ARE NOT FEASIBLE, AND MUST DEMONSTRATE THAT THE PERIMETER CONTROLS WILL RETAIN SEDIMENT ON SITE TO THE EXTENT PRACTICABLE. THE OPERATOR MUST CONTINUE TO INSPECT THE BMPS AT THE FREQUENCIES ESTABLISHED IN PART IIIF.8.(C) FOR UNSTABILIZED SITES.

(D) THE REQUIREMENT FOR PERMITTEES TO INITIATE STABILIZATION IS TRIGGERED AS SOON AS IT IS KNOWN WITH REASONABLE CERTAINTY THAT CONSTRUCTION ACTIVITY AT THE SITE OR IN CERTAIN AREAS OF THE SITE WILL BE STOPPED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS. IF THE INITIATION OR COMPLETION OF VEGETATIVE STABILIZATION IS PREVENTED BY CIRCUMSTANCES BEYOND THE CONTROL OF THE PERMITTEE, THE PERMITTEE MUST EMPLOY AND IMPLEMENT ALTERNATIVE STABILIZATION MEASURES IMMEDIATELY. WHEN CONDITIONS AT THE SITE CHANGES THAT WOULD ALLOW FOR VEGETATIVE STABILIZATION, THEN THE PERMITTEE MUST INITIATE OR COMPLETE VEGETATIVE STABILIZATION AS SOON AS PRACTICABLE.

IV. FINAL STABILIZATION MUST BE ACHIEVED PRIOR TO TERMINATION OF PERMIT COVERAGE.

V. TCEQ DOES NOT EXPECT THAT TEMPORARY OR PERMANENT STABILIZATION MEASURES TO BE APPLIED TO AREAS THAT ARE INTENDED TO BE LEFT UN-VEGETATED OR UN-STABILIZED FOLLOWING CONSTRUCTION (E.G., DIRT ACCESS ROADS, UTILITY POLE PADS, AREAS BEING USED FOR STORAGE OF VEHICLES, EQUIPMENT, OR MATERIALS).

C) SEDIMENT CONTROL PRACTICES

THE SWP3 MUST INCLUDE A DESCRIPTION OF ANY SEDIMENT CONTROL PRACTICES USED TO REMOVE ERODED SOILS FROM STORMWATER RUNOFF, INCLUDING THE GENERAL TIMING OR SEQUENCE FOR IMPLEMENTATION OF CONTROLS. CONTROLS SELECTED BY THE PERMITTEE MUST BE COMPLIANT WITH THE REQUIREMENTS IN PART IV. OF THIS PERMIT.

I. SITES WITH DRAINAGE AREAS OF TEN (10) OR MORE ACRES

(A) SEDIMENTATION BASIN(S) OR IMPOUNDMENTS

(1) A SEDIMENTATION BASIN OR SIMILAR IMPOUNDMENT IS REQUIRED, WHERE FEASIBLE, FOR A COMMON DRAINAGE LOCATION THAT SERVES AN AREA WITH TEN (10) OR MORE ACRES DISTURBED AT ONE TIME. A SEDIMENTATION BASIN OR IMPOUNDMENT MAY BE TEMPORARY OR PERMANENT, AND MUST PROVIDE SUFFICIENT STORAGE TO CONTAIN A CALCULATED VOLUME OF RUNOFF FROM A 2-YEAR,24-HOUR STORM FROM EACH DISTURBED ACRE DRAINED. WHEN CALCULATING THE VOLUME OF RUNOFF FROM A 2-YEAR, 24-HOUR STORM EVENT, IT IS NOT REQUIRED TO INCLUDE THE FLOWS FROM OFFSITE AREAS AND FLOW FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE ALREADY UNDERGONE PERMANENT STABILIZATION, IF THESE FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREAS OF THE SITE AND THE SEDIMENT BASIN OR SIMILAR IMPOUNDMENT. CAPACITY CALCULATIONS SHALL BE INCLUDED IN THE SWP3. SEDIMENTATION BASINS MUST BE DESIGNED FOR AND APPROPRIATE FOR CONTROLLING RUNOFF AT THE SITE AND EXISTING DETENTION OR RETENTION PONDS AT THE SITE MAY NOT BE APPROPRIATE.

(2) WHERE RAINFALL DATA IS NOT AVAILABLE, OR A CALCULATION CANNOT BE PERFORMED, THE SEDIMENTATION BASIN MUST PROVIDE AT LEAST 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

(3) IF A SEDIMENTATION BASIN OR IMPOUNDMENT IS NOT FEASIBLE, THEN THE PERMITTEE SHALL PROVIDE EQUIVALENT CONTROL MEASURES UNTIL FINAL STABILIZATION OF THE SITE. IN DETERMINING WHETHER INSTALLING A SEDIMENT BASIN OR IMPOUNDMENT IS FEASIBLE, THE PERMITTEE MAY CONSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AVAILABLE AREA, PUBLIC SAFETY, PRECIPITATION PATTERNS, SITE GEOMETRY, SITE VEGETATION, INFILTRATION CAPACITY, GEOTECHNICAL FACTORS, DEPTH TO GROUNDWATER, AND OTHER SIMILAR CONSIDERATIONS. THE PERMITTEE SHALL DOCUMENT THE REASON THAT THE SEDIMENT BASINS OR IMPOUNDMENTS ARE NOT FEASIBLE, AND SHALL UTILIZE EQUIVALENT CONTROL MEASURES, WHICH MAY INCLUDE A SERIES OF SMALLER SEDIMENT BASINS OR IMPOUNDMENTS.

(4) UNLESS INFEASIBLE, WHEN DISCHARGING FROM SEDIMENTATION BASINS AND IMPOUNDMENTS, THE PERMITTEE SHALL UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE.

(B) PERIMETER CONTROLS: AT A MINIMUM, SILT FENCES, VEGETATIVE BUFFER STRIPS, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA, AND FOR THOSE SIDE SLOPE BOUNDARIES DEEMED APPROPRIATE AS DICTATED BY INDIVIDUAL SITE CONDITIONS.

II. CONTROLS FOR SITES WITH DRAINAGE AREAS LESS THAN TEN (10) ACRES:

(A) SEDIMENT TRAPS AND SEDIMENT BASINS MAY BE USED TO CONTROL SOLIDS IN STORMWATER RUNOFF FOR DRAINAGE LOCATIONS SERVING LESS THAN TEN (10) ACRES. AT A MINIMUM, SILT FENCES, VEGETATIVE BUFFER STRIPS, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA, AND FOR THOSE SIDE SLOPE BOUNDARIES DEEMED APPROPRIATE AS DICTATED BY INDIVIDUAL SITE CONDITIONS.

(B) ALTERNATIVELY, A SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 2-YEAR, 24-HOUR STORM FROM EACH DISTURBED ACRE DRAINED MAY BE UTILIZED. WHERE RAINFALL DATA IS NOT AVAILABLE OR A CALCULATION CANNOT BE PERFORMED, A TEMPORARY OR PERMANENT SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED MAY BE PROVIDED. IF A CALCULATION IS PERFORMED, THEN THE CALCULATION SHALL BE INCLUDED IN THE SWP3.

(C) IF SEDIMENTATION BASINS OR IMPOUNDMENTS ARE USED, THE PERMITTEE SHALL COMPLY WITH THE REQUIREMENTS IN PART IV.F. OF THIS GENERAL PERMIT.

3. DESCRIPTION OF PERMANENT STORMWATER CONTROLS

A DESCRIPTION OF ANY STORMWATER CONTROL MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT MAY OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED MUST BE INCLUDED IN THE SWP3. PERMITTEES ARE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER MANAGEMENT MEASURES, AS FOLLOWS:

A) PERMITTEES AUTHORIZED UNDER THE PERMIT FOR SMALL CONSTRUCTION ACTIVITIES ARE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE; OR

B) PERMITTEES AUTHORIZED UNDER THE PERMIT FOR LARGE CONSTRUCTION ACTIVITIES ARE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE AND PRIOR TO SUBMISSION OF AN NOT.

4. OTHER REQUIRED CONTROLS AND BMPS

A) PERMITTEES SHALL MINIMIZE, TO THE EXTENT PRACTICABLE, THE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND DUST. THE SWP3 SHALL INCLUDE A DESCRIPTION OF CONTROLS UTILIZED TO CONTROL THE GENERATION OF POLLUTANTS THAT COULD BE DISCHARGED IN STORMWATER FROM THE SITE.

B) THE SWP3 MUST INCLUDE A DESCRIPTION OF CONSTRUCTION AND WASTE MATERIALS EXPECTED TO BE STORED ON-SITE AND A DESCRIPTION OF CONTROLS TO MINIMIZE POLLUTANTS FROM THESE MATERIALS.

C) THE SWP3 MUST INCLUDE A DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IN DISCHARGES OF STORMWATER FROM ALL AREAS OF THE CONSTRUCTION SITE WHERE CONSTRUCTION ACTIVITY, INCLUDING CONSTRUCTION SUPPORT ACTIVITIES, WILL BE LOCATED, AND A DESCRIPTION OF CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THOSE SITES TO MINIMIZE POLLUTANT DISCHARGES.

D) PERMITTEES SHALL PLACE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL (I.E., RUNOFF CONVEYANCE) TO PROVIDE A NON-EROSIVE FLOW VELOCITY FROM THE STRUCTURE TO A WATER COURSE, SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED.

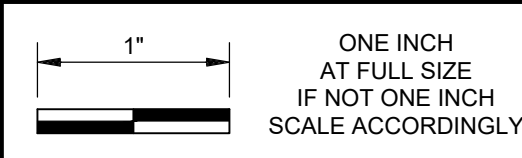
E) PERMITTEES SHALL DESIGN AND UTILIZE APPROPRIATE CONTROLS IN ACCORDANCE WITH PART IV. OF THIS PERMIT TO MINIMIZE THE OFFSITE TRANSPORT OF SUSPENDED SEDIMENTS AND OTHER POLLUTANTS IF IT IS NECESSARY TO PUMP OR CHANNEL STANDING WATER FROM THE SITE.

F) PERMITTEES SHALL ENSURE THAT ALL OTHER REQUIRED CONTROLS AND BMPS COMPLY WITH ALL OF THE REQUIREMENTS OF PART IV. OF THIS GENERAL PERMIT.

G) FOR DEMOLITION OF ANY STRUCTURE WITH AT LEAST 10,000 SQUARE FEET OF FLOOR SPACE THAT WAS BUILT OR RENOVATED BEFORE JANUARY 1, 1980, AND THE RECEIVING WATERBODY IS IMPAIRED FOR POLYCHLORINATED BIPHENYLS (PCBS):

I. IMPLEMENT CONTROLS TO MINIMIZE THE EXPOSURE OF PCB-CONTAINING BUILDING MATERIALS, INCLUDING PAINT, CAULK, AND PRE-1980 FLUORESCENT LIGHTING FIXTURES TO PRECIPITATION AND TO STORMWATER; AND

II. ENSURE THAT DISPOSAL OF SUCH MATERIALS IS PERFORMED IN COMPLIANCE WITH APPLICABLE STATE, FEDERAL, AND LOCAL LAWS.



REV. NO.	DATE	DRWN	REMARKS

DESIGNED BY: \_\_\_\_\_ X

DRAWN BY: \_\_\_\_\_ MANASI K.

SHEET CHK'D BY: \_\_\_\_\_ X

APPROVED BY: \_\_\_\_\_ X

DATE: \_\_\_\_\_ SEPTEMBER 2024

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GENERAL CONSTRUCTION NOTES

PROJECT NO. 742  
FILE NAME: 00G03NFT

SHEET NO.  
**00G03**

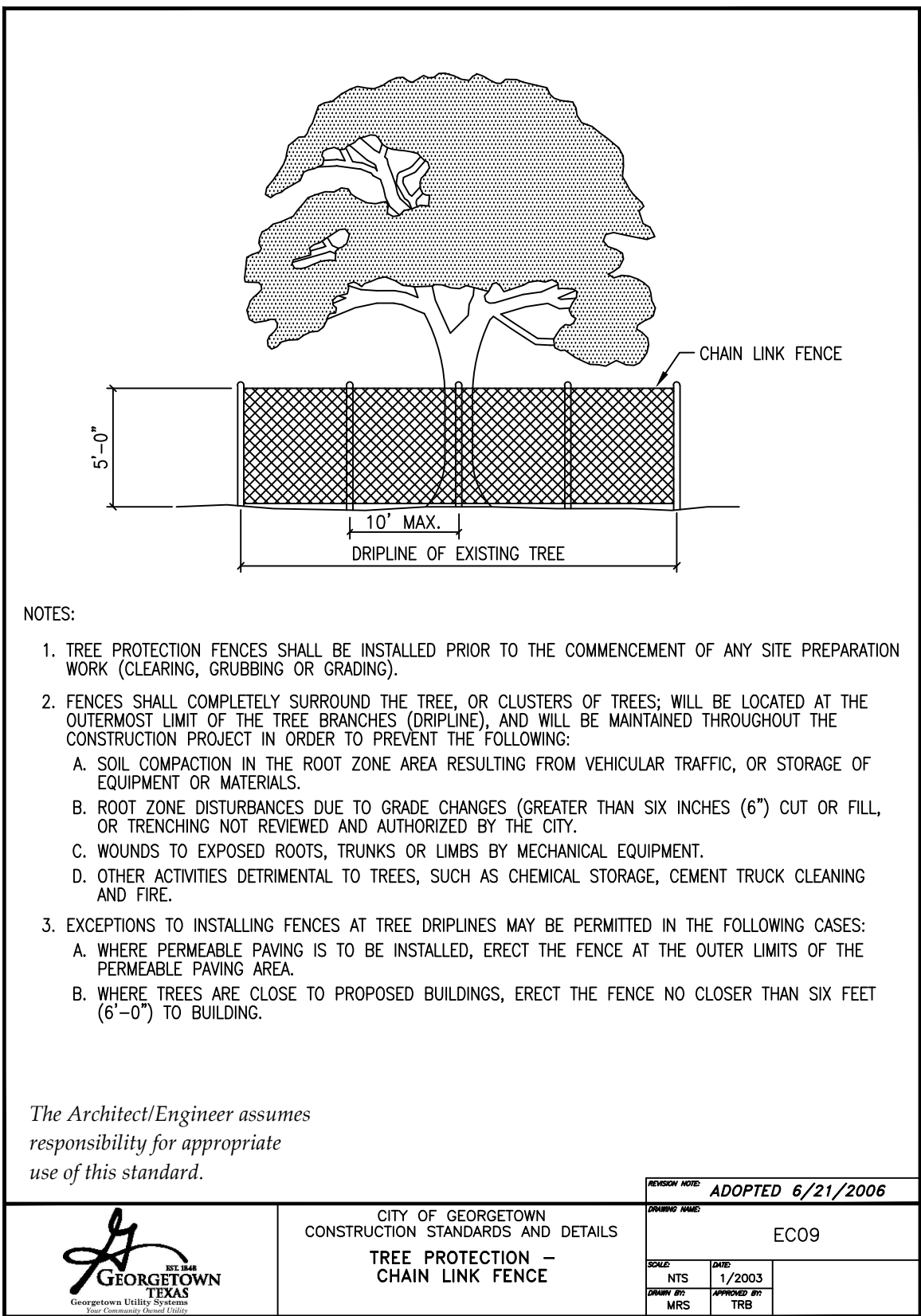


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ABBREVIATIONS															
#	NUMBER	CGFB	CEMENTITIOUS GLASS FIBER BOARD	E	EMERGENCY WATER	GPD	GALLONS PER DAY	MAS	MASONRY	PL	PROPERTY LINE	SCB	SCREENING CONVEYOR BELT	TS	STRUCTURAL TUBING (STEEL UNLESS NOTED)
&	AND	CGV	CHLORINE GAS (VACUUM)	EAT	ENTERING AIR TEMPERATURE	GPM	GALLONS PER MINUTE	MATL	MATERIAL	PLC	PROGRAMMABLE LOGIC CONTROLLER	SCJ	SLAB CONTROL JOINT	TSL	TOP OF SLAB OR THICKENED SLUDGE
<	ANGLE	CH	CONCRETE HARDENER	EB	EXPANSION BOLT	GR	GRADE	MAU	MAKE UP AIR UNIT	PLK	PLANK	SCL	SCRUBBING LIQUID	TUBV	TIME UNION BALL VALVE
0	AT	CHAM	CHAMFER	EC	EMPTY CONDUIT	GRV	GRAVE	MAX	MAXIMUM	PLP	POLYPHOSPHATE	SCR	SCREENING DEVICE	TURB	TURBIDITY
251W	TWO SPEED, ONE WINDING	CHAN	CHANNEL	ECC	ECCENTRIC	GRG	GRIT REMOVAL CHAMBER	MB	MACHINE BOLTS	PLS	PLASTIC LINED STEEL	SCRN	SCREEN(ED)	TV	TELEVISION
252W	TWO SPEED, TWO WINDING	CHKD	CHECKED	ED-F	EQUIPMENT DRAIN (FLUSH TYPE)	GRP	GRIT REMOVAL PUMPS	MBS	MANUAL BAR SCREEN	PLT	PLANT	SCV	SILENT CHECK VALVE	TWAS	THICKENED WASTE ACTIVATED SLUDGE
252W	TWO SPEED, TWO WINDING	CHL	CHLORINATOR	ED-O	EQUIPMENT DRAIN (EXTENDED TYPE--OPEN)	GRS	GALVANIZED RIGID STEEL	MC	MASONRY CHANNEL	PLW	PLANT WATER	SD	STORM DRAIN	TWF	THROUGH WALL FLASHING
A	AIR (COMPRESSED)	CHR	CHLOROPRENE RUBBER (NEOPRENE)	ED-S	EQUIPMENT DRAIN (EXTENDED TYPE--SEALED)	GRTO	GRATING	MCC	MOTOR CONTROL CENTER	PLYWD	PLYWOOD	SD	SUPPLY DIFFUSER	TYP	TYPE
A, AMP	AMPERE	CI	CAST IRON	EDH	ELECTRIC DUCT HEATER	GSC	GRIT SCREEN	MCC	MOTOR CONTROL CENTER	PM	PRESSED METAL	SE	SECONDARY	UC	UNDERCUT
A/C	AIR CONDITIONING	CIGL	CAST IRON PIPE GLASS LINED	EF	EACH FACE	GSKT	GASKET	MCJ	MASONRY CONTROL JOINT	PNL	PANEL	SEC	SECONDS	UD	UNDERDRAIN
AA	AERATION AIR	CIP	CAST IN PLACE	EFF	EFFLUENT	GV	GATE VALVE	ME	METHANOL	POJ	PUSH ON JOINT	SECT	SECTION	UGND	UNDERGROUND
AB	ANCHOR BOLT	CIR	CIRCLE	EFM	EFFLUENT FLOW METER	HVAC	HEATING, VENTILATING & AIR CONDITIONING	MEAS	MEASURE	POLYE	POLYETHYLENE	SEF	SECONDARY EFFLUENT	UH	UNIT HEATER
ABA	AEROBIC BASIN AERATOR	CIRC	CIRCUMFERENTIAL	EG	EMERGENCY GENERATION SYSTEM	HDR	HEADER	MECH	MECHANICAL	POLYP	POLYPROPYLENE	SEJ	SEAMLESS FLOORING	UL	UNDERWRITERS LABORATORY
ABC	ASBESTOS CEMENT	CIS	CAST IRON SOIL PIPE	EG	EXHAUST GRILLE	HDW	HARDWOOD	MEMB	MEMBRANE	POM	POLYOXYMETHYLENE	SF	SUPPLY FAN	UN	UNION
ABDN	ABANDON	CJ	CONSTRUCTION JOINT	EGC	EQUIPMENT GROUNDING CONDUCTOR	HCL	HYDROCHLORIC ACID	MFW	MOTORIZED EFFLUENT WEIRS	POT	POINT OF TANGENCY	SF	SUPPLY FAN	UNO	UNLESS NOTED OTHERWISE
ABS	ACRYLONITILE--BUTADIENE--STYRENE	CKT	CIRCUIT	EGO	ELEVATED GEAR OPERATOR	HCH	HEATING COIL	MFG	MANUFACTURED	POTH	POTASSIUM HYDROXIDE	SF	SILT FENCE	UPVC	UN-PLASTICIZED POLYVINYL CHLORIDE
ABV	ABOVE	CL	CENTERLINE	EL	ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE	MHS	METAL HOSE	PP	POWER POLE	SFR	SYNTHETIC FIBER REINFORCED	UR	URNAL
ACCU	AIR CONDITIONING CONDENSING UNIT	CL	CENTERLINE	ELEC	ELECTRIC(AL)	HAS	HEADED ANCHOR STUD	MFR	MANUFACTURER	PRC	POINT OF REVERSE CURVE	SG-C	SLUICE GATE - MANUAL CRANK OPERATOR		
ACCV	AIR CUSHION CHECK VALVE	CL2	CHLORINE SYSTEM	ELEV	ELEVATOR	HC	HEATING COIL	MG/L	MILLIGRAMS PER LITER	PRCST	PRECAST	SG-HW	SLUICE GATE - HAND WHEEL OPERATOR	V	VOLTS
ACMU	ACOUSTICAL MASONRY UNIT	CL2G	CHLORINE (GAS)	EMERG	EMERGENCY	HCL	HYDROCHLORIC ACID	MDG	MILLION GALLONS PER DAY	PR	PAIR	SG-M	SLUICE GATE - MOTOR OPERATOR	VA	VENT AIR
ACP	ASBESTOS CEMENT PIPE	CLZL	CHLORINE (LIQUID)	ENGR	ENGINEER	HDR	HEADER	MH	MANHOLE	PRC	POINT OF REVERSE CURVE	SG-C	SLUICE GATE - HAND WHEEL OPERATOR	VA-H	HYDRAULIC VALVE OPERATOR
ACT	ACOUSTICAL TILE	CL2V	CHLORINE VENT	ENT	ENTERING, ENTRANCE	HDR	HEADER	MIN	MINIMUM	PRCST	PRECAST	SG-M	SLUICE GATE - MOTOR OPERATOR	VA-M	MOTOR VALVE OPERATOR
ACU	AIR CONDITIONING UNIT	CLF	CURRENT LIMITING FUSE	EOP	EDGE OF PAVEMENT	HDWD	HARDWOOD	MIS	MISCELLANEOUS	PRFAB	PRE-FABRICATED	SGT	STRUCTURAL GLAZED FACING TILE	VA-P	PNEUMATIC VALVE OPERATOR
AD	ACCESS DOOR	CLG	CELLING	EP	ELECTRIC PANEL	HDWR	HARDWARE	MISC	MISCELLANEOUS	PRSS	PRESSURE	SGR	STRUCTURAL GRINDER	VA-S	VACUUM
ADDL	ADDITIONAL	ADH	ADHESIVE	EPDM	ETHYLENE PROPYLENE RUBBER	HEX	HEXAGON	ML	MIXED LIQUOR	PRM	PRIMARY	SHC	SODIUM HYDROXIDE (CONCENTRATED)	VAR	VARIOUS/VARIABLE
ADJ	ADJUSTABLE, ADJUST	ADJ	ADJUSTABLE, ADJUST	EQ	EQUAL (LY)	HGR	HANGER	MOD	MOTOR OPERATED DAMPER	PRMLD	PREMOLDED	SHD	SOLIDS HANDLING PUMP	VAV	VARIABLE AIR VOLUME
ADPT	ADAPTER	ADPT	ADAPTER	EQPT	EQUIPMENT	HGT	HEIGHT	MON	MONUMENT	PRV	PRESSURE RELIEF VALVE	SHP	SOLIDS HANDLING PUMP	VB	VALVE BOX
AFD	ADJUSTABLE FREQUENCY DRIVE	AFD	ADJUSTABLE FREQUENCY DRIVE	EQUV	EQUIVALENT	HH	HANDHOLE	MOT	MOTOR	PS	PUMP STATION	SIM	SIMILAR	VBR	VACUUM BREAKER
AFF	ABOVE FINISHED FLOOR	AFG	ABOVE FINISHED GRADE	ER	EXHAUST REGISTER	HMA	HAND-OFF--AUTO	MPH	MILES PER HOUR	PSC	PRIMARY SCUM	SK	SINK	VC	VITACUAIL COUPLING (SHOULDERED ENDS)
AGS	AGGREGATE	AHP	AIR HORSEPOWER	ES	ELECTRIC SUPPLY	HND	HAND	MR	MOISTURE RESISTANT	PSE	PNEUMATIC SCUM EJECTORS	SL	SLUDGE	VC	VITRIFIED CLAY
AHU	AIR HANDLING UNIT	AHU	AIR HANDLING UNIT	ESMT	EASEMENT	HP	HIGH POINT	MRPP	METAL REINFORCED PLASTIC PIPE	PSF	POUNDS PER SQUARE FOOT	SLG-C	SLIDE GATE - MANUAL CRANK OPERATOR	VCP	VITRIFIED CLAY PIPE
AI	ANALOG INPUT, AIR INSTRUMENT	AI	ANALOG INPUT, AIR INSTRUMENT	ESP	EFFLUENT SAMPLE PUMPS	HP	HORSE POWER	MSG	MOTORIZED SLUICE GATES	PSI	POUNDS PER SQUARE INCH	SLG-HW	SLIDE GATE - HAND WHEEL OPERATOR	VCT	VOLUME DAMPER
AL	ALUMINUM	AL	ALUMINUM	EST	ESTIMATE (D)	HRA	HIGH PRESSURE AIR	MTG	MOUNTING	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	SLG-M	SLIDE GATE - MOTOR	VE	VACUUM EXHAUST
AL VT	ALUM VENT	AL	ALUMINUM	ETC	ETCETERA	HRS	HIGH SERVICE	MTL	METAL	PSIG	POUNDS PER SQUARE INCH GAGE	SLNT	SEALANT	VEL	VELOCITY
ALSS	ALUM SYSTEM	AL	ALUMINUM	EUH	ELECTRIC UNIT HEATER	HS	HIGH STRENGTH	MTV	MUD VALVE	PSP	PLANT SITE PUMP	SLV	SLEEVE	VERT	VERTICAL
ALT	ALTERNATE (NG)	AL	ALUMINUM	EVA	ELECTRICAL GEAR ACTUATOR	HSM	HIGH SERVICE MAIN	N	NORTH	PT	POTENTIAL TRANSFORMER	SN	SOLID NEUTRAL OR SUPERNATANT	VIB	VIBRATION
ALT	ALTERNATE (NG)	AL	ALUMINUM	EW	ELECTRICAL GEAR ACTUATOR	HTHW	HIGH TEMPERATURE HOT WATER	N2	NITROGEN	PTD	PAINTED	SOFL	SODIUM FLUORIDE	VIPA	VIRGIN ISOPROPYL ALCOHOL
ALU	ALUMINUM SULFATE	ALU	ALUMINUM SULFATE	EW	ELECTRIC WATER COOLER	HVA	HEATING, VENTILATING & AIR CONDITIONING	NACL	SODIUM CHLORIDE	PTE	POLYTETRAFLUOROETHYLENE	SOJ	SOLIP ON JOINT	VNBA	VIRGIN N. BUTYL ACETATE
ALUM	ALUM (CHEMICAL)	ALU	ALUM (CHEMICAL)	EXA	EXHAUST AIR	HW	POTABLE HOT WATER	NBR	NITRILE RUBBER	PUD	PERFORATED UNDERDRAIN	SOLN	SOLUTION	VOL	VOLUME
AMG	AMMONIA GAS	AMG	AMMONIA GAS	EXH	EXHAUST	HWA	HIGH WATER ALARM	NCR	NORMALLY CLOSED	PUL	PUBLIC UTILITY EASEMENT	SOLV	SOLENOID VALVE	VS	VARIABLE SPEED
AML	AMMONIA LIQUID	AMU	AMMONIA LIQUID	EXP	EXPANDED	HWL	HIGH WATER LEVEL	NCDDP	NON-CLOG DRY PIT PUMP	PVC	POLYVINYL CHLORIDE	SP	SUBMERSIBLE PUMP	VSD	VARIABLE SPEED DRIVE
AND	AND	AND	AND	EXP JT	EXPANSION JOINT	HWS	HOT WATER SUPPLY	NEC	NATIONAL ELECTRIC CODE	PVI	POINT OF VERTICAL INTERSECTION	SPEC	SPECIFICATION, SPECIFIED	VT	VENT
AO	ANALOG OUTPUT	AO	ANALOG OUTPUT	EXST	EXISTING	HWW	HIGH PRESSURE WASHWATER	NEUT	NEUTRAL	PVMT	PRESSURE VACUUM RELIEF VALVE	SPL	SAMPLE	VTR	VENT THRU ROOF
AP	ACCESS PANEL	AP	ACCESS PANEL					NF	NEAR FACE	PW	POTABLE WATER	SPR	SPRING		
APPROX	APPROXIMATE (LY)	AP	ACCESS PANEL					NIC	NOT IN CONTRACT	PWD	PRIMARY WATER DRAIN	SPR	SPRING		
AR	ACID RESISTANT	AR	ACID RESISTANT					NOM	NOMINAL	PWL	PEAK WATER LEVEL	SPTG	SEPTAGE		
ARCH	ARCHITECT (URAL) (URE)	ARCH	ARCHITECT (URAL) (URE)					NOS	NATIONAL OCEANOGRAPHIC SURVEY	PWM	POTABLE WATER METER	SPW	SPRAY WATER	W	WATER
ARND	AROUND	ARND	AROUND					NPOL	NONIONIC POLYMER			SQ	SQUARE	W	WIDE
ARV	AIR RELEASE VALVE	ARV	AIR RELEASE VALVE					NPT	AMERICAN NATIONAL TAPER PIPE THREAD			SR	SLUDGE RETURN	W/	WITH
AS	ACTIVATED SLUDGE, AIR SUPPLY	AS	ACTIVATED SLUDGE, AIR SUPPLY					NPW	(NON--POTABLE) WATER			SR	SUPPLY REGISTER	W/A	WHERE APPLICABLE
ASPH	ASPHALT	ASPH	ASPHALT					NR	NATURAL RUBBER			SS	SANITARY SEWER	W/O	WITHOUT
ASPHOC	ASSOCIATION	ASPHOC	ASSOCIATION					NRS	NON-RISING STEM			SSC	SEAMLESS SCREW CONVEYOR	WS	WASTE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS					NSG	NON-SHRINK GROUT			SSED	STANDARD SERVICE EQUIPMENT DRAIN	WAS	WASTE ACTIVATED SLUDGE
ATC	AUTOMATIC TEMPERATURE CONTROL	ATC	AUTOMATIC TEMPERATURE CONTROL					NTS	NOT TO						

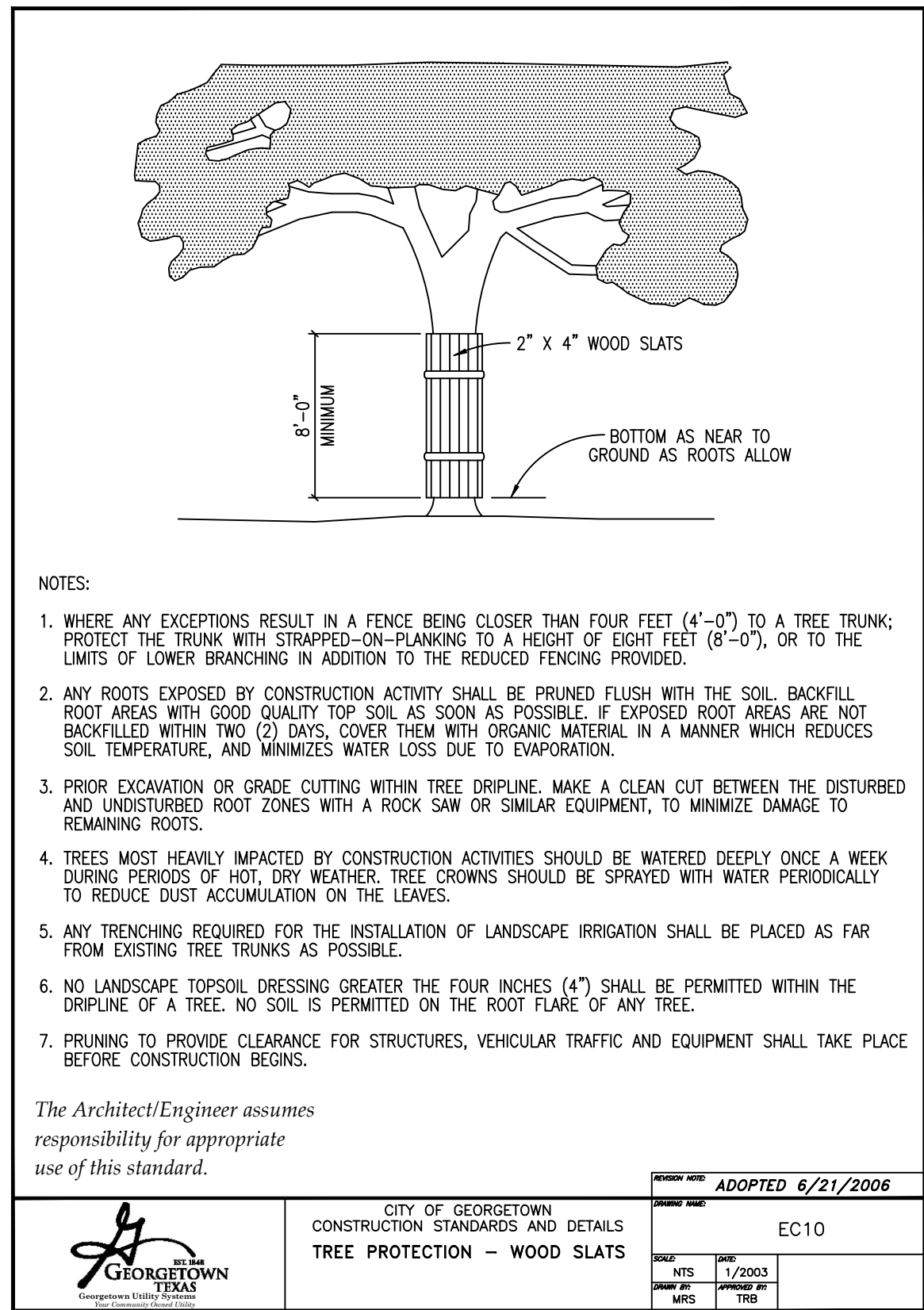


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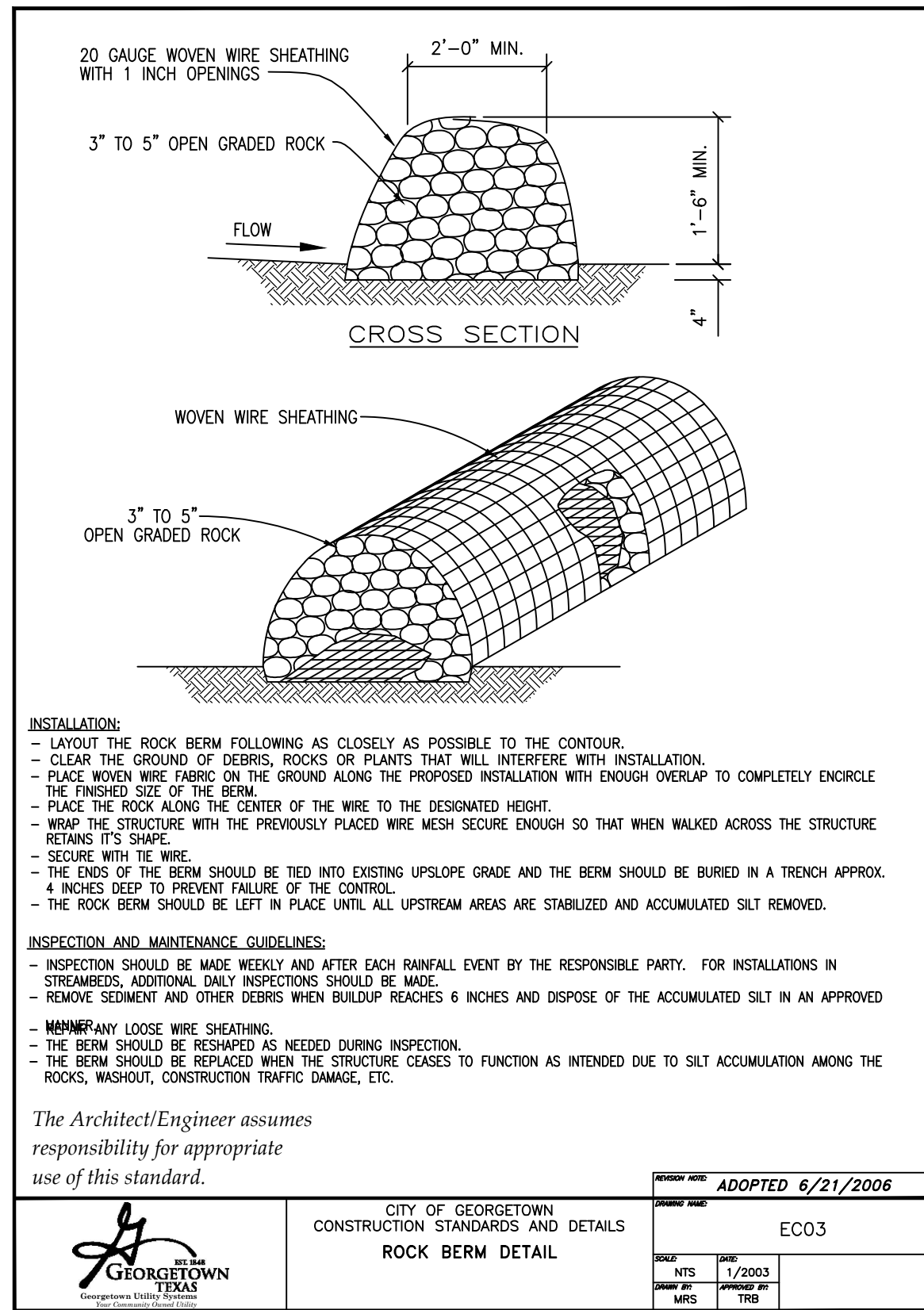
DETAIL A

NTS



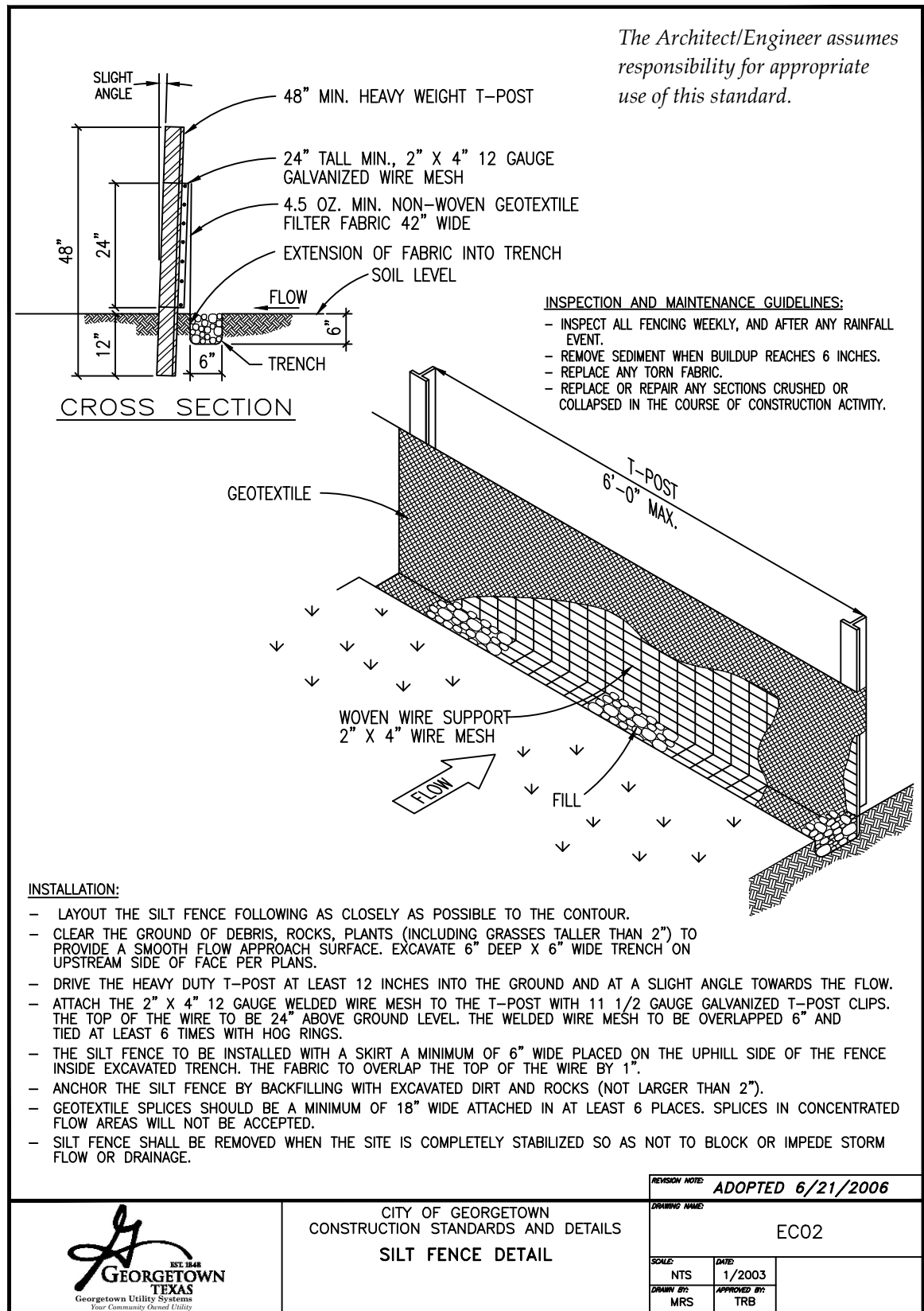
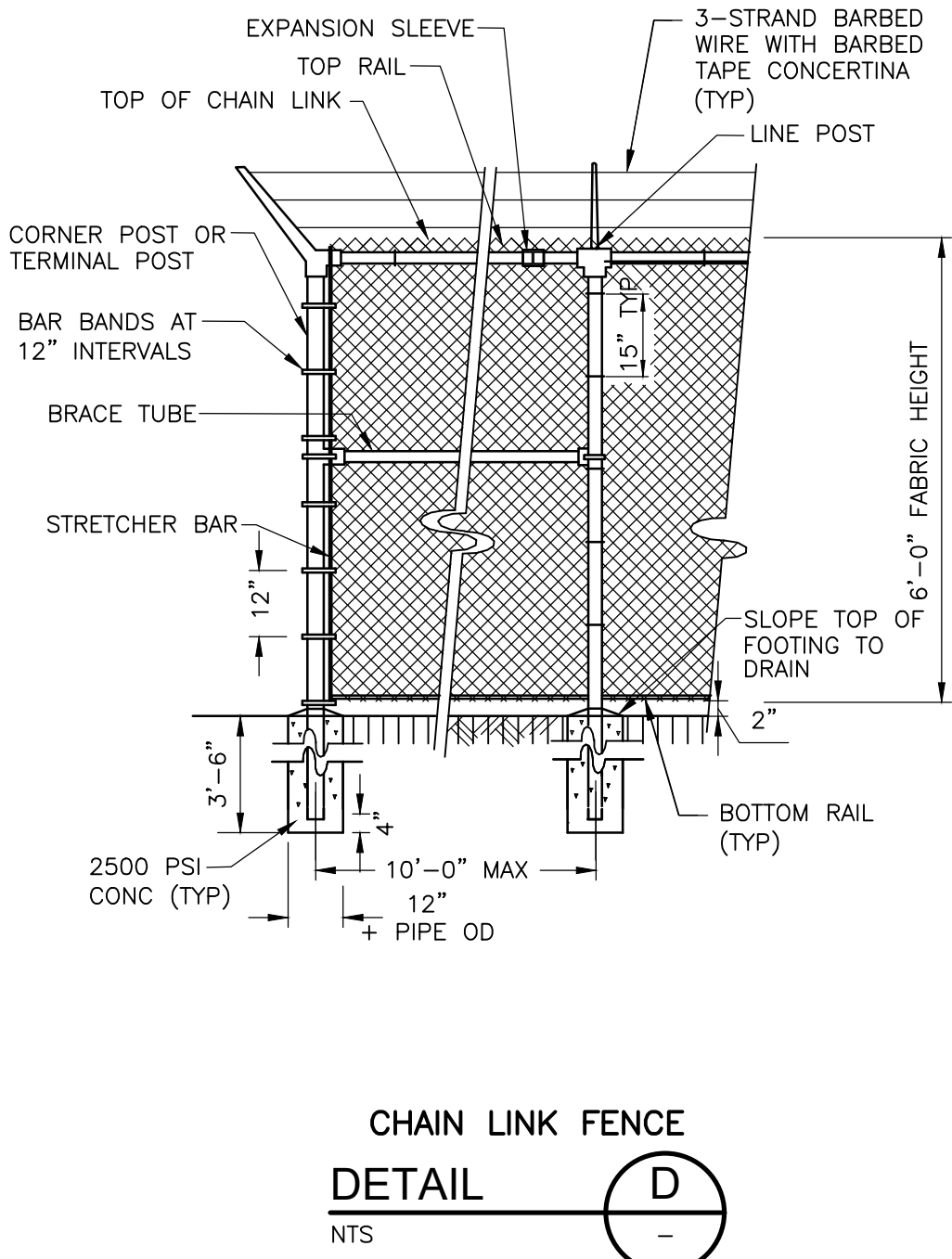
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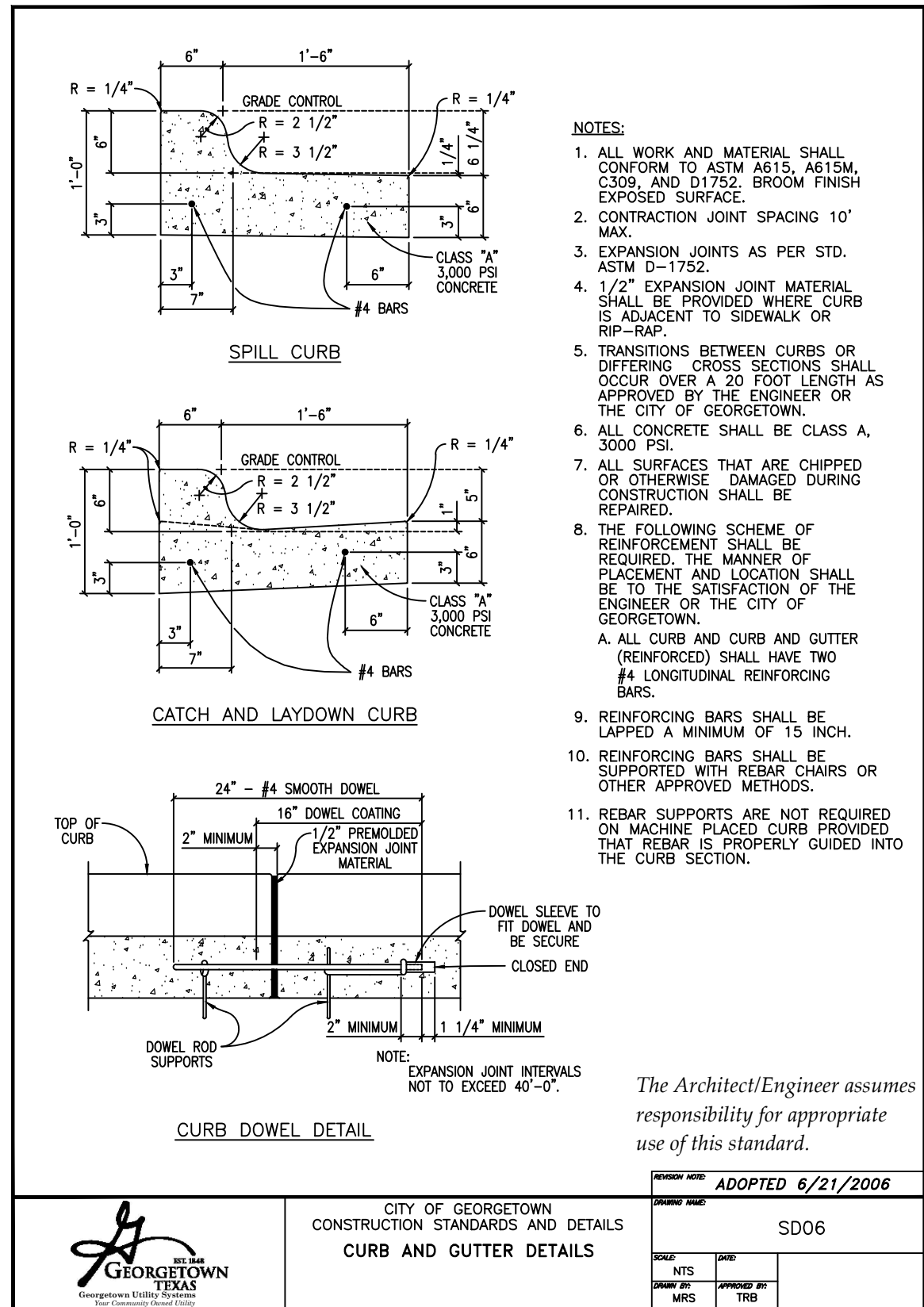
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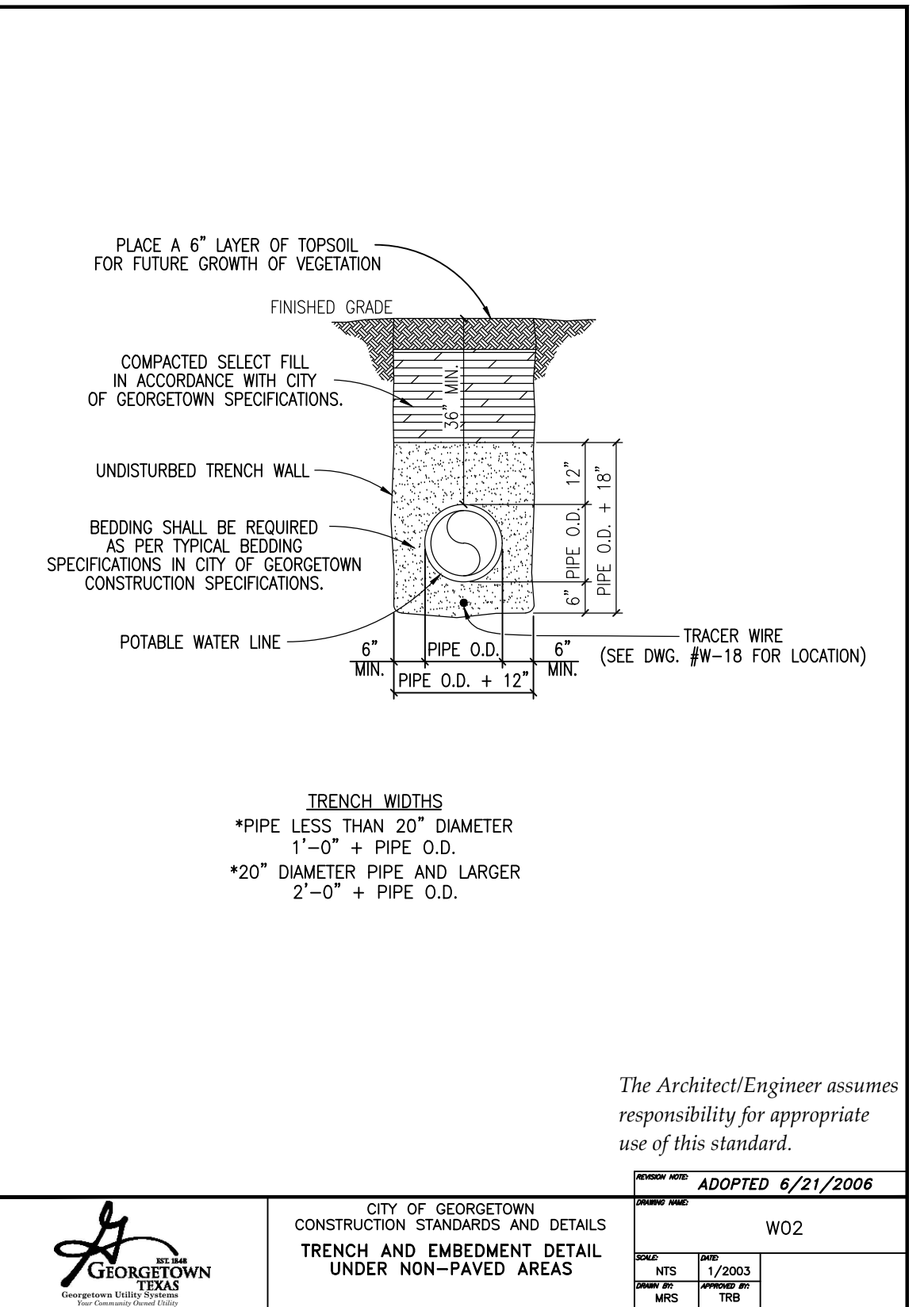
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NTS



DETAIL F

NTS



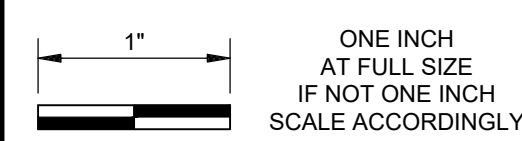
DETAIL G

NTS

BOLLARD

DETAIL H

NTS



PROJECT NO. 742  
FILE NAME: 00C01SDDT.DWG  
SHEET NO. 00C01

DESIGNED BY: E. WEIMER  
DRAWN BY: S. SRIHARI  
SHEET CHK'D BY: M. STIGGINS  
APPROVED BY: E. WEIMER  
DATE: SEPTEMBER 2024

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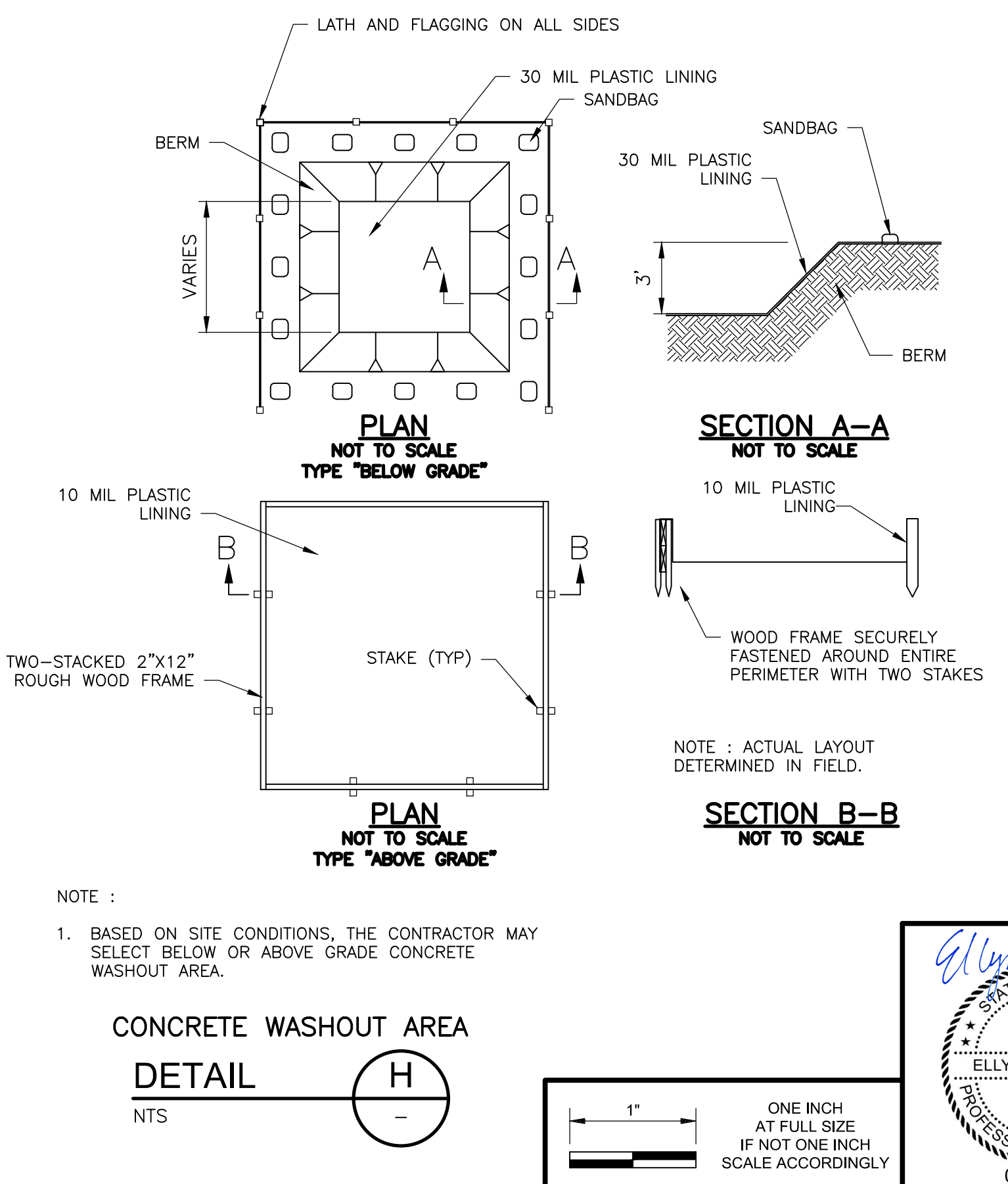
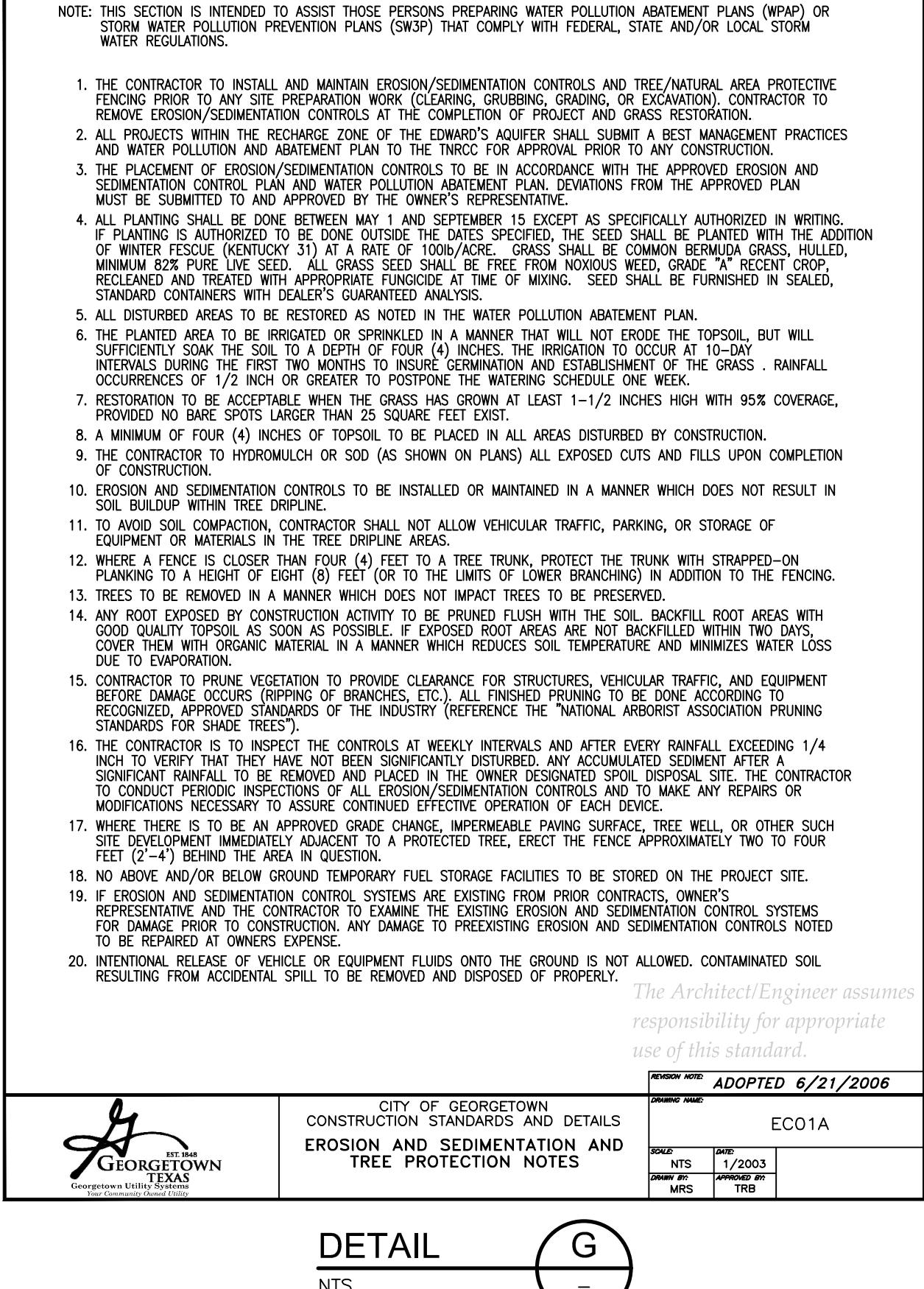
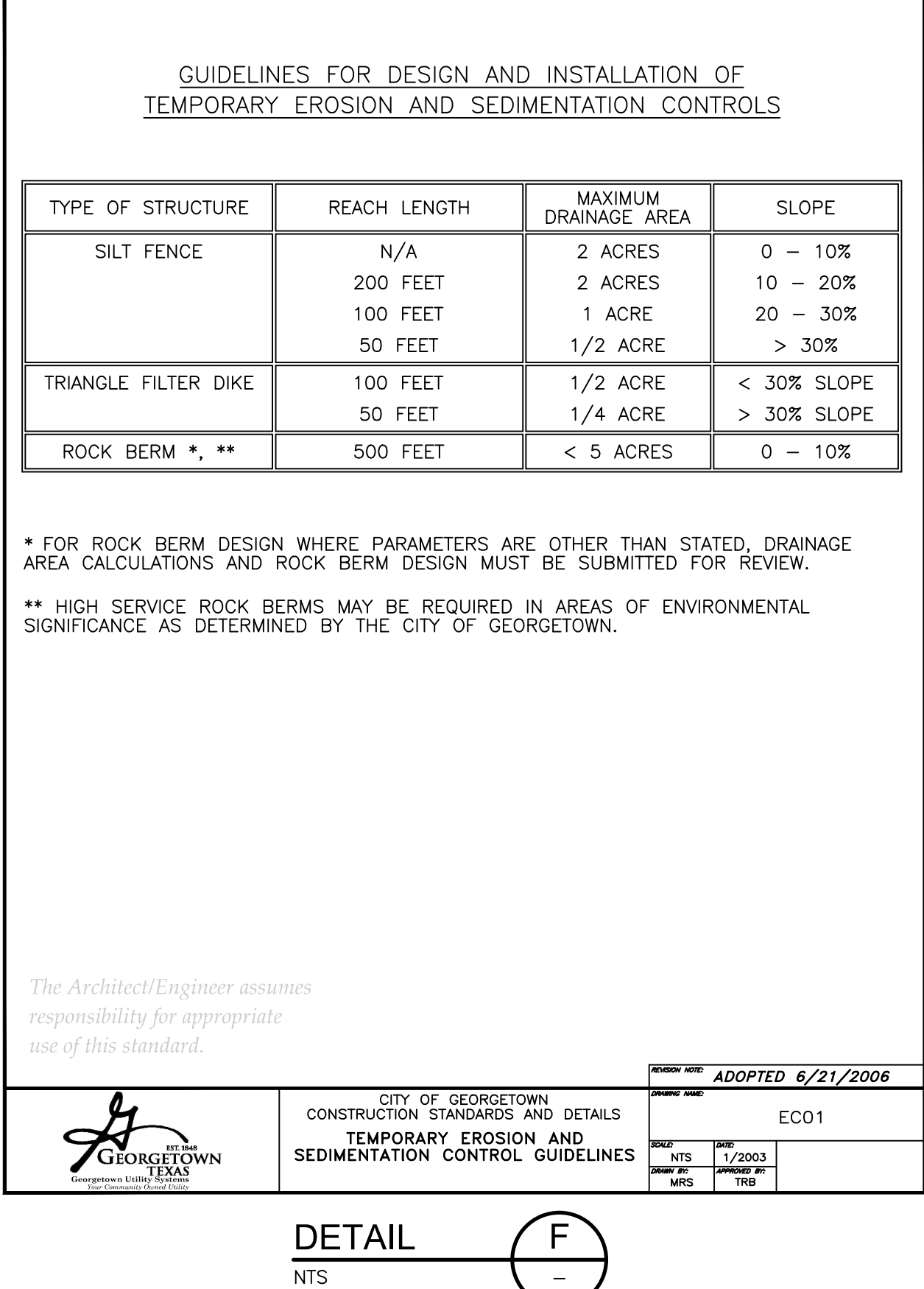
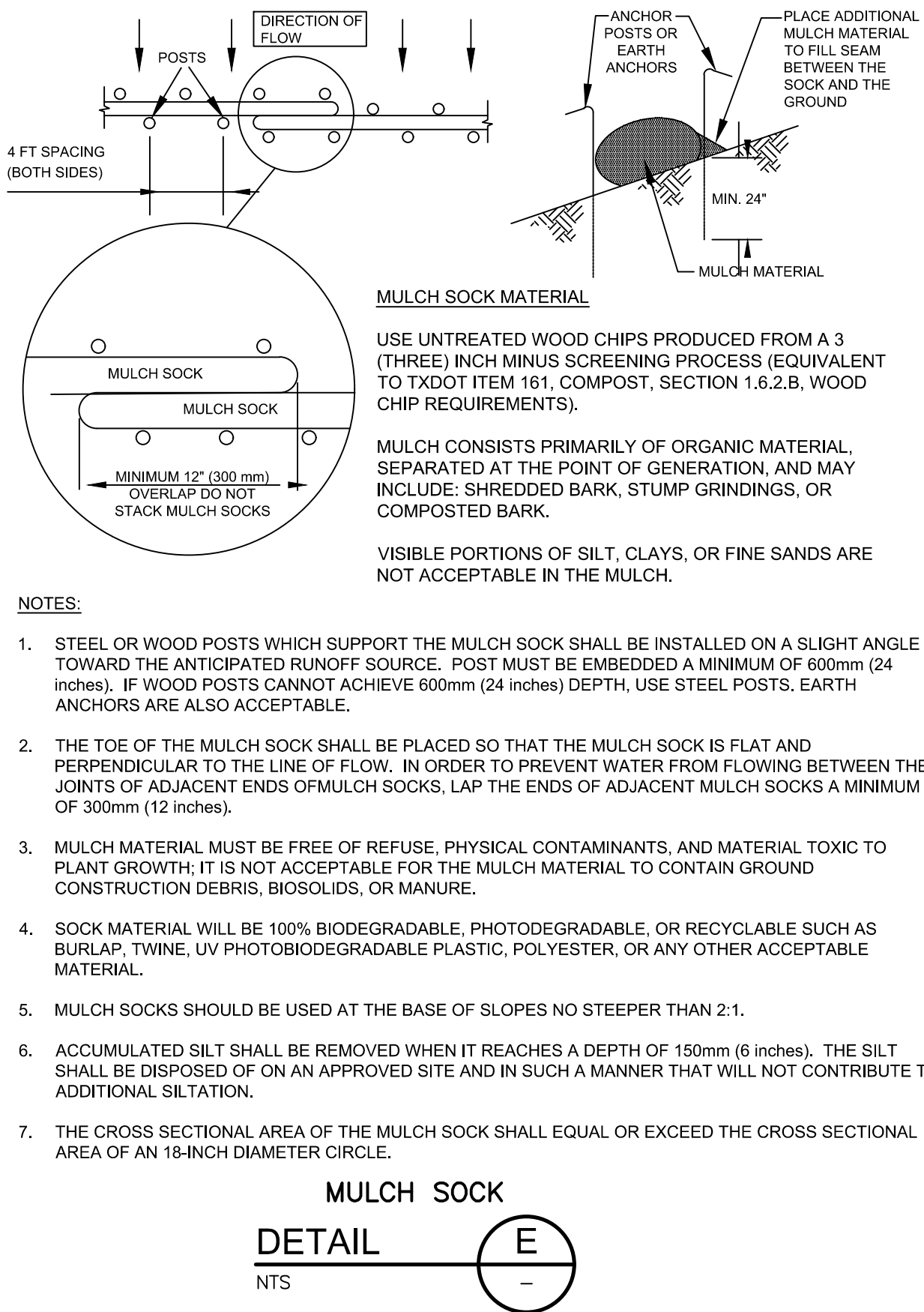
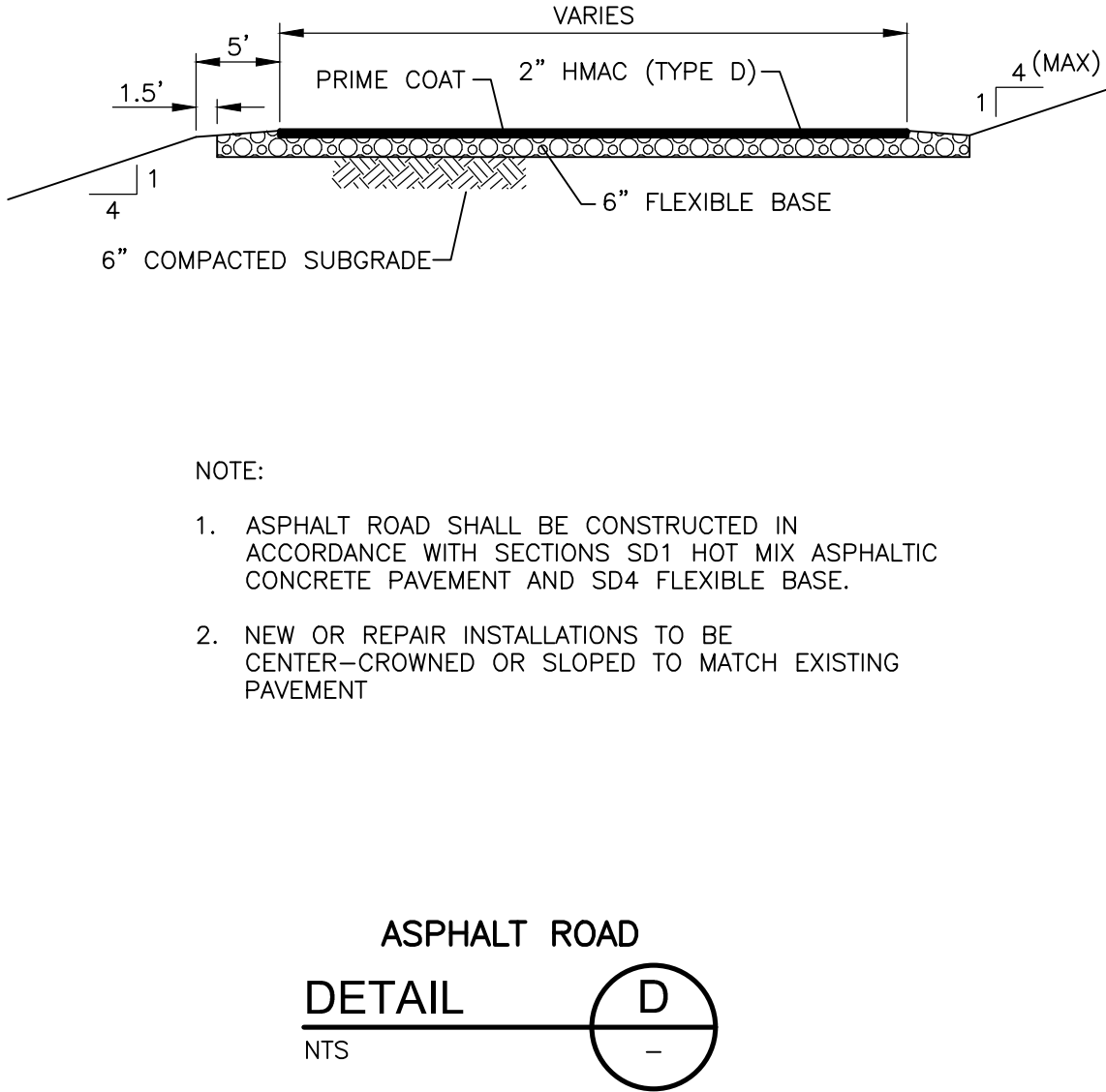
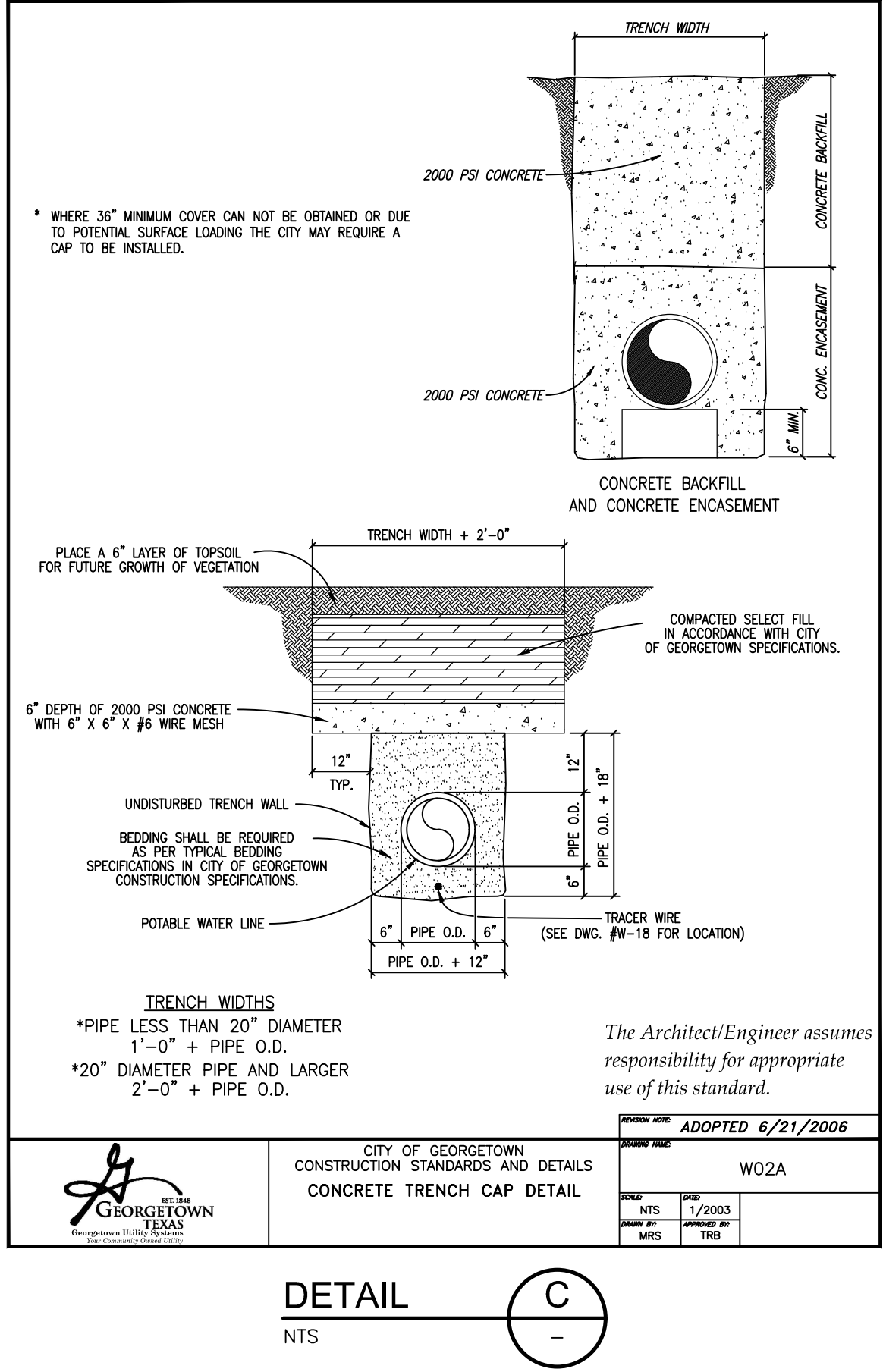
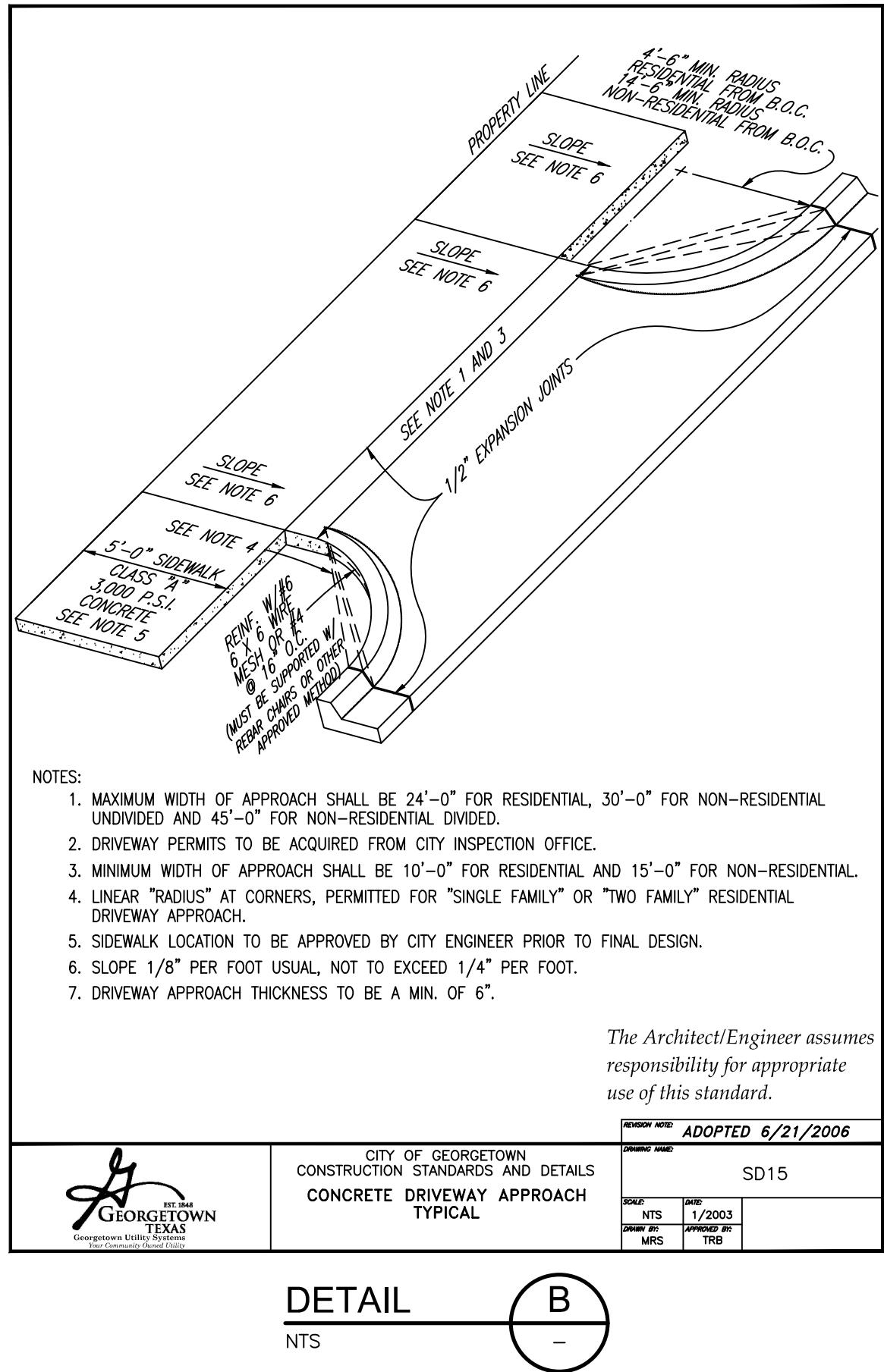
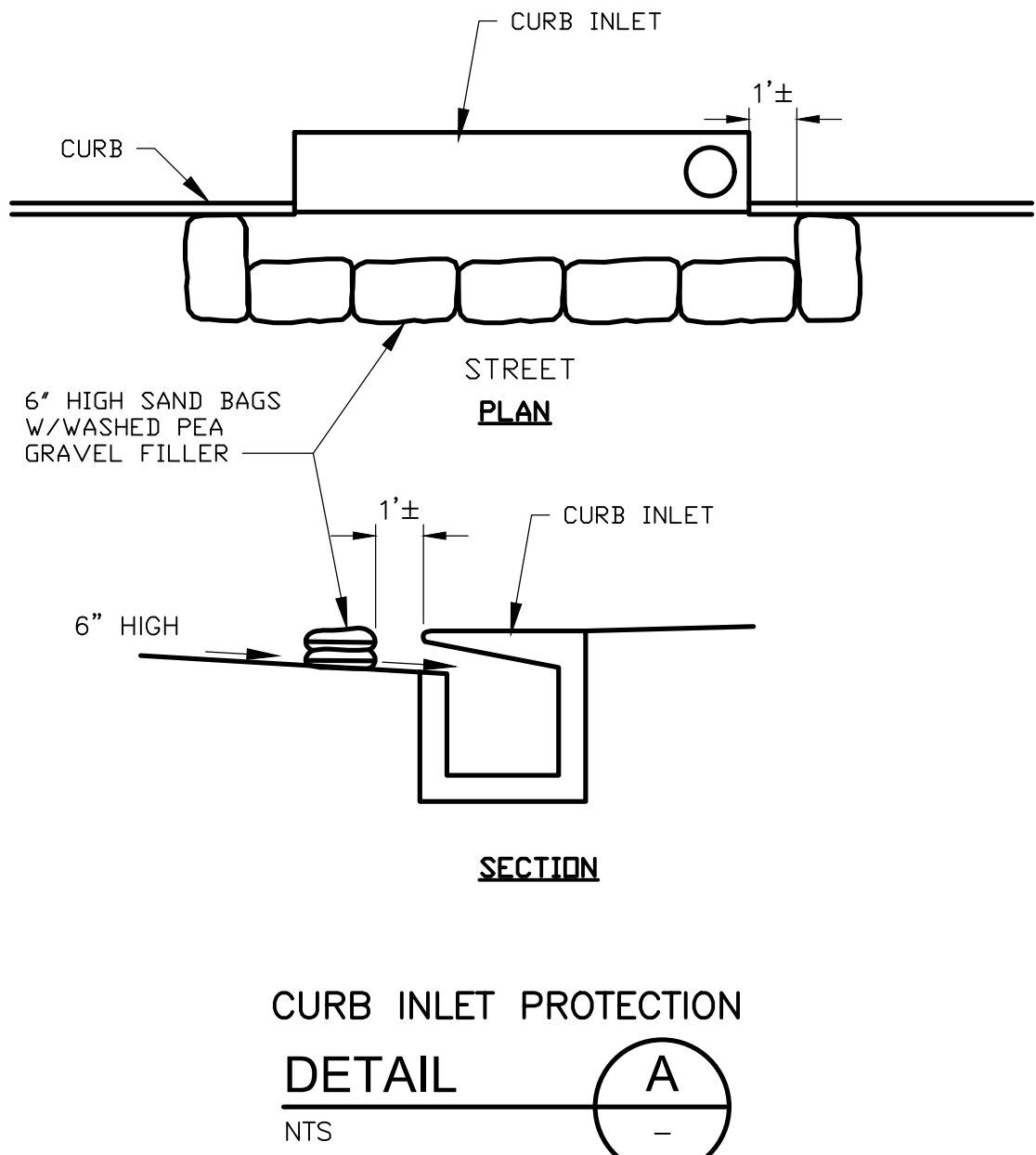
CITY OF GEORGETOWN, TEXAS  
SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER

CIVIL  
CIVIL STANDARD DETAILS I

ISSUE FOR BID

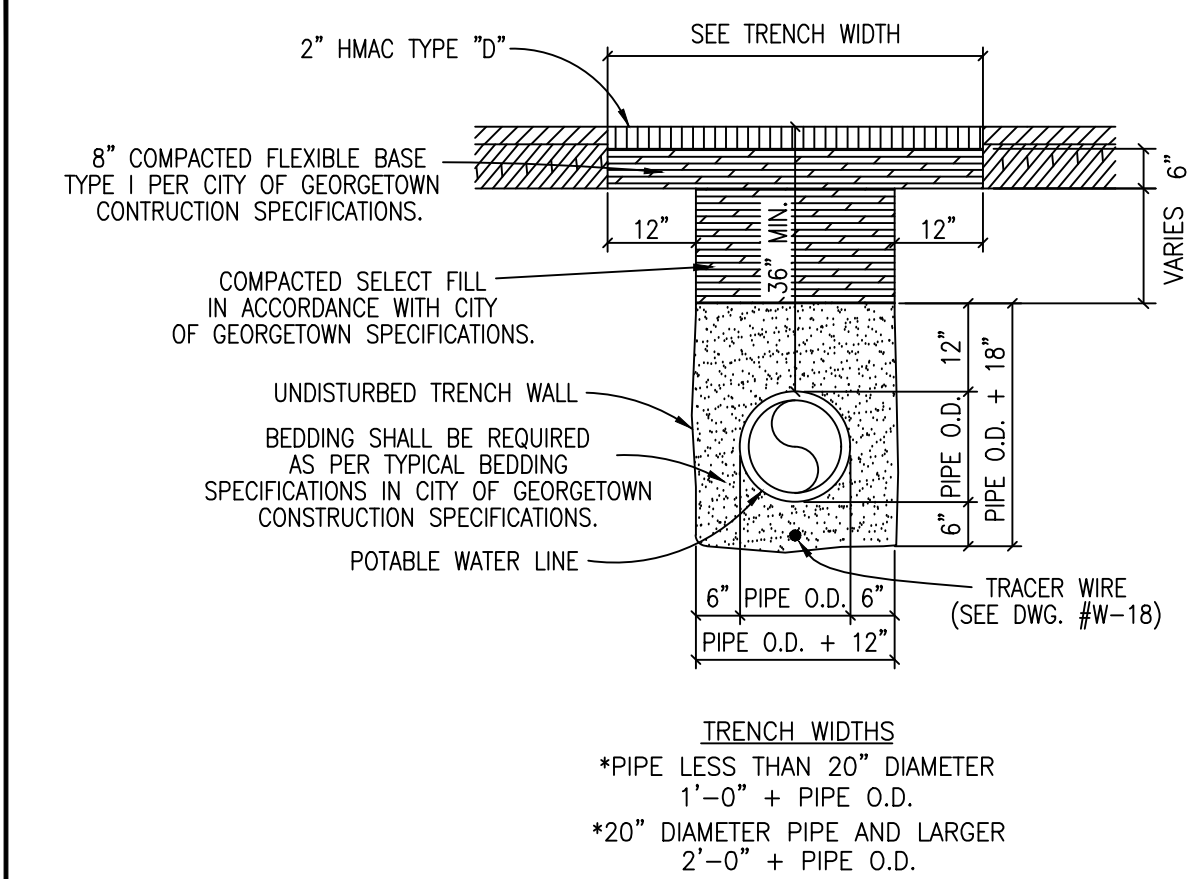


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NOTES:

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE.
2. BASE MATERIAL SHALL BE IN LIFTS NOT TO EXCEED 6" AND EACH LIFT THOROUGHLY ROLLED OR TAMPED TO SPECIFIED MAXIMUM DENSITY.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.
5. DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE CITY OF GEORGETOWN CONSTRUCTION SPECIFICATIONS AND STANDARDS.
6. CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL (SEE C9 FLOWABLE BACKFILL FOR THE SPECIFICATION).

*The Architect/Engineer assumes responsibility for appropriate use of this standard.*

 <b>STATE OF TEXAS</b> Department of Transportation Texas Department of Transportation		CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS TRENCH AND EMBEDMENT AND PAVEMENT REPLACEMENT DETAIL UNDER EXISTING ROADWAY		(PROJECT NAME) W17	
DATE: 11/1/2003 DRAWN BY: MRS CHECKED BY: TRB		SCALE: 1" = 4'			

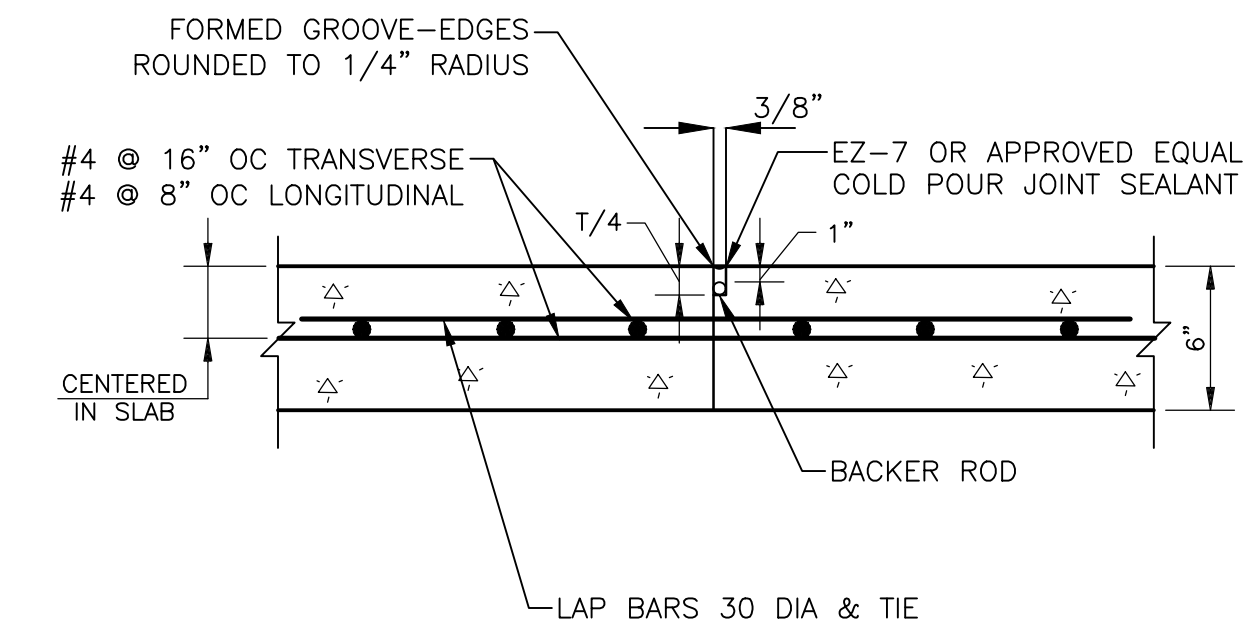
DETAIL

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NTS

A

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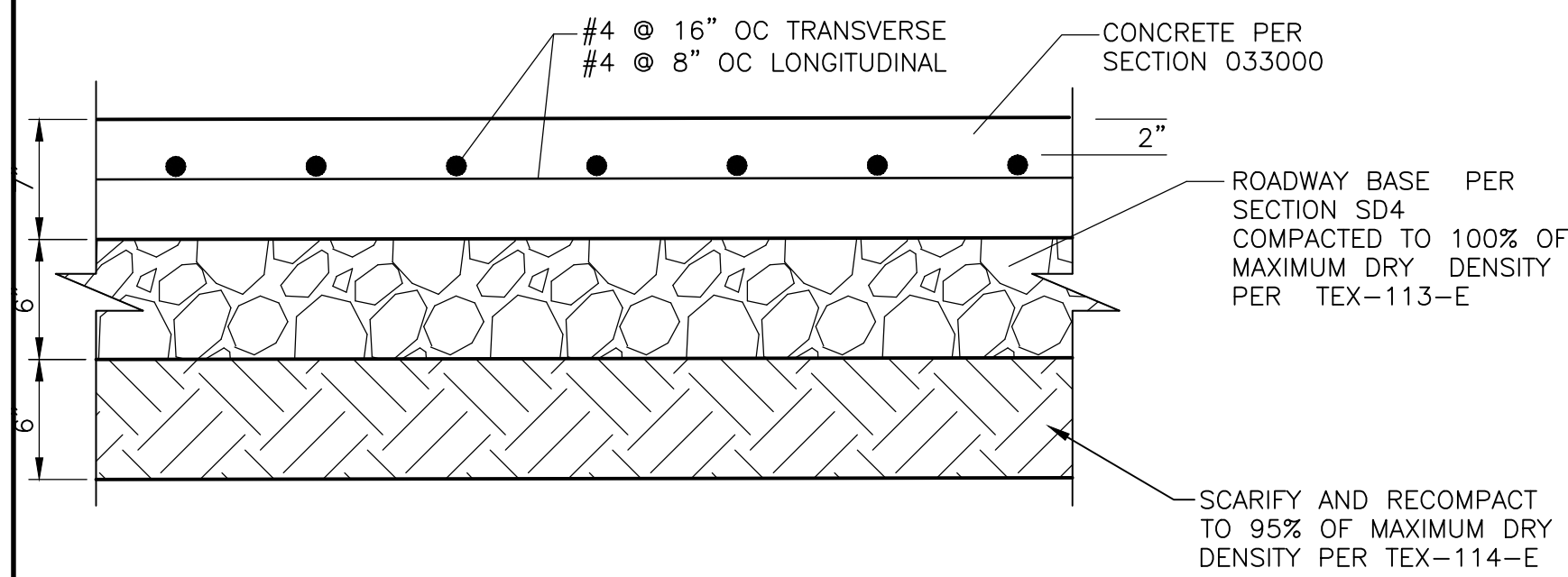


CONSTRUCTION JOINT  
DETAIL


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NTS

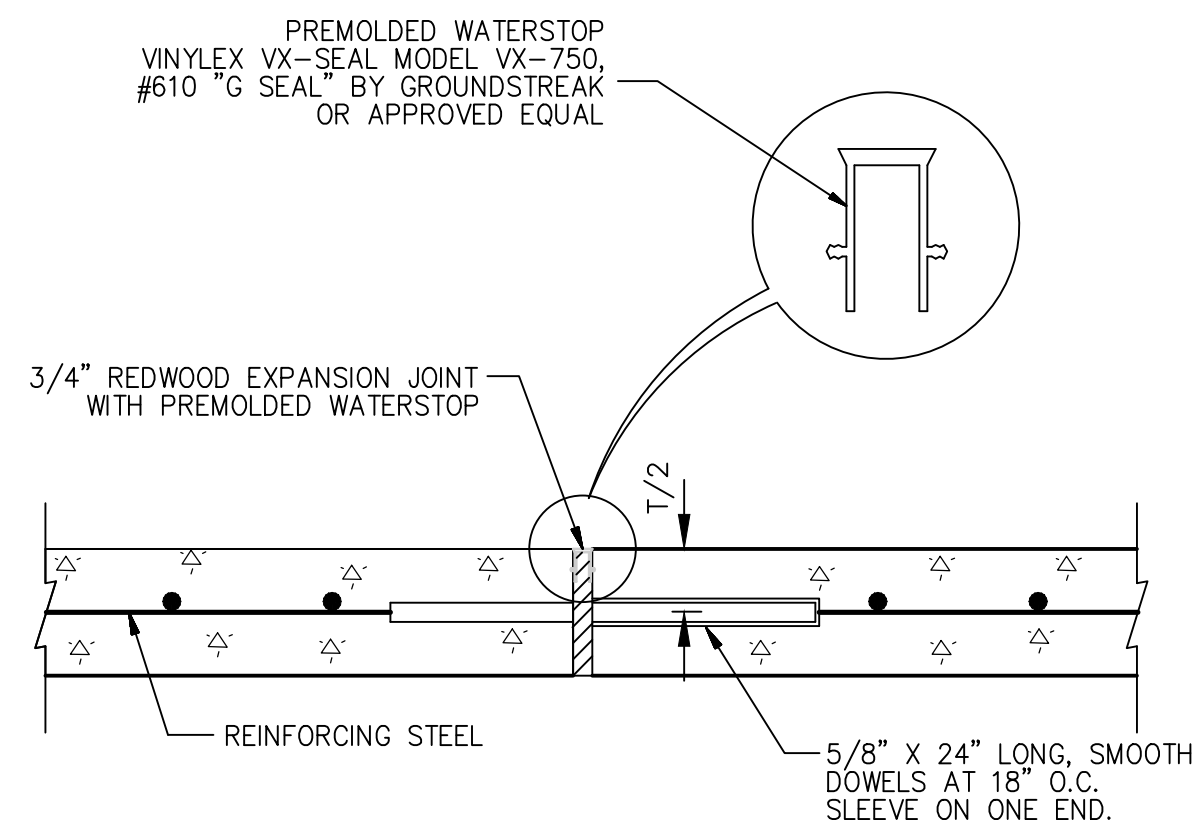
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TYPICAL CONCRETE PAVING SECTION

DETAIL 

NTS

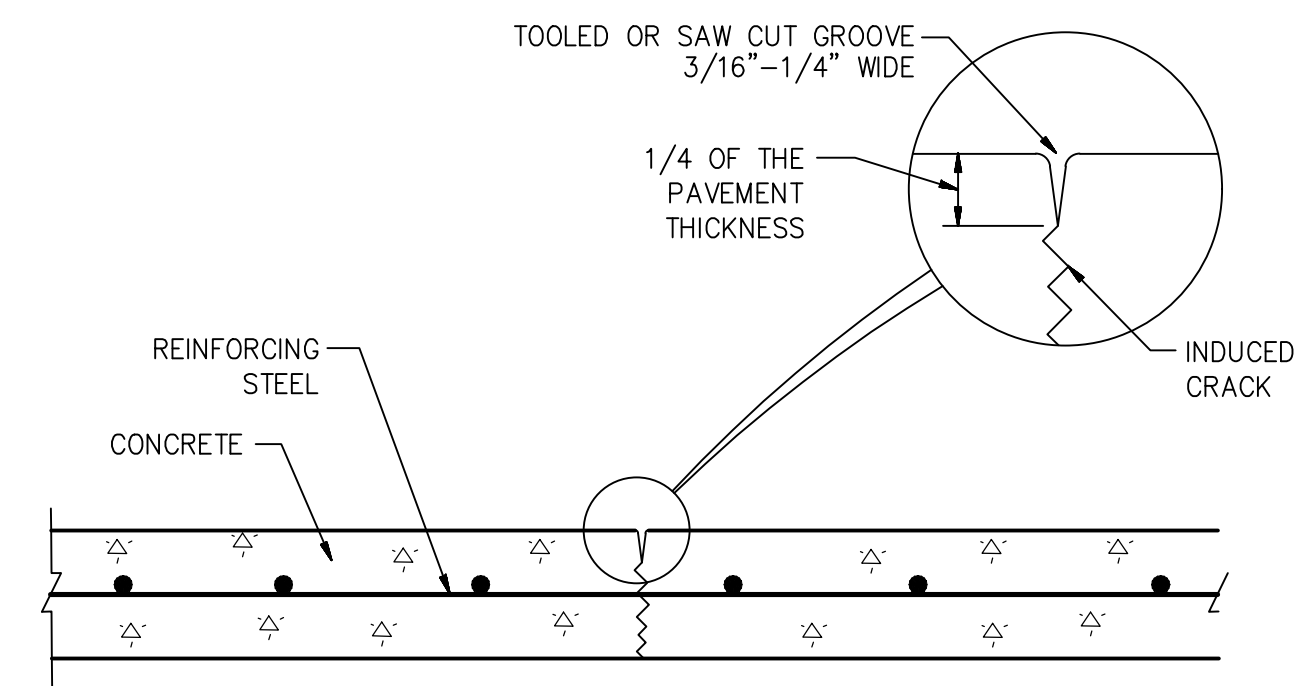


EXPANSION JOINT  
DETAIL

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NTS

C  
-



CONTRACTION JOINT  
DETAIL

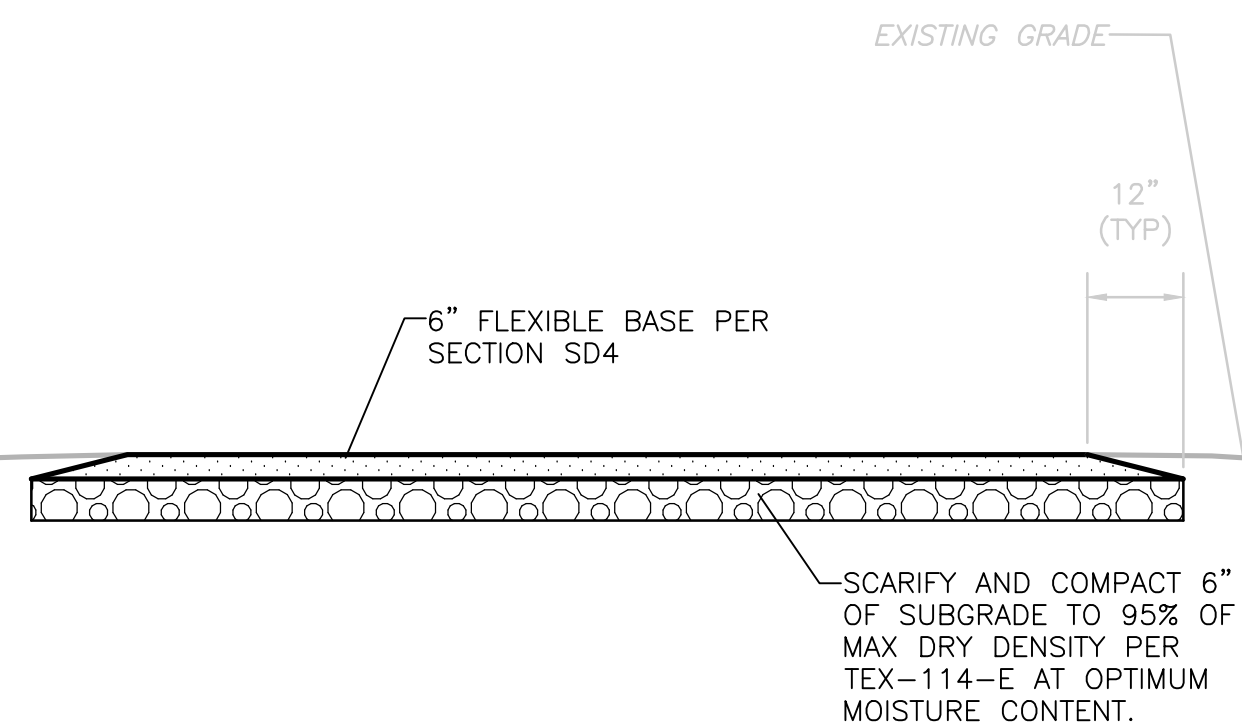
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NTS

(D)  
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NOTES:

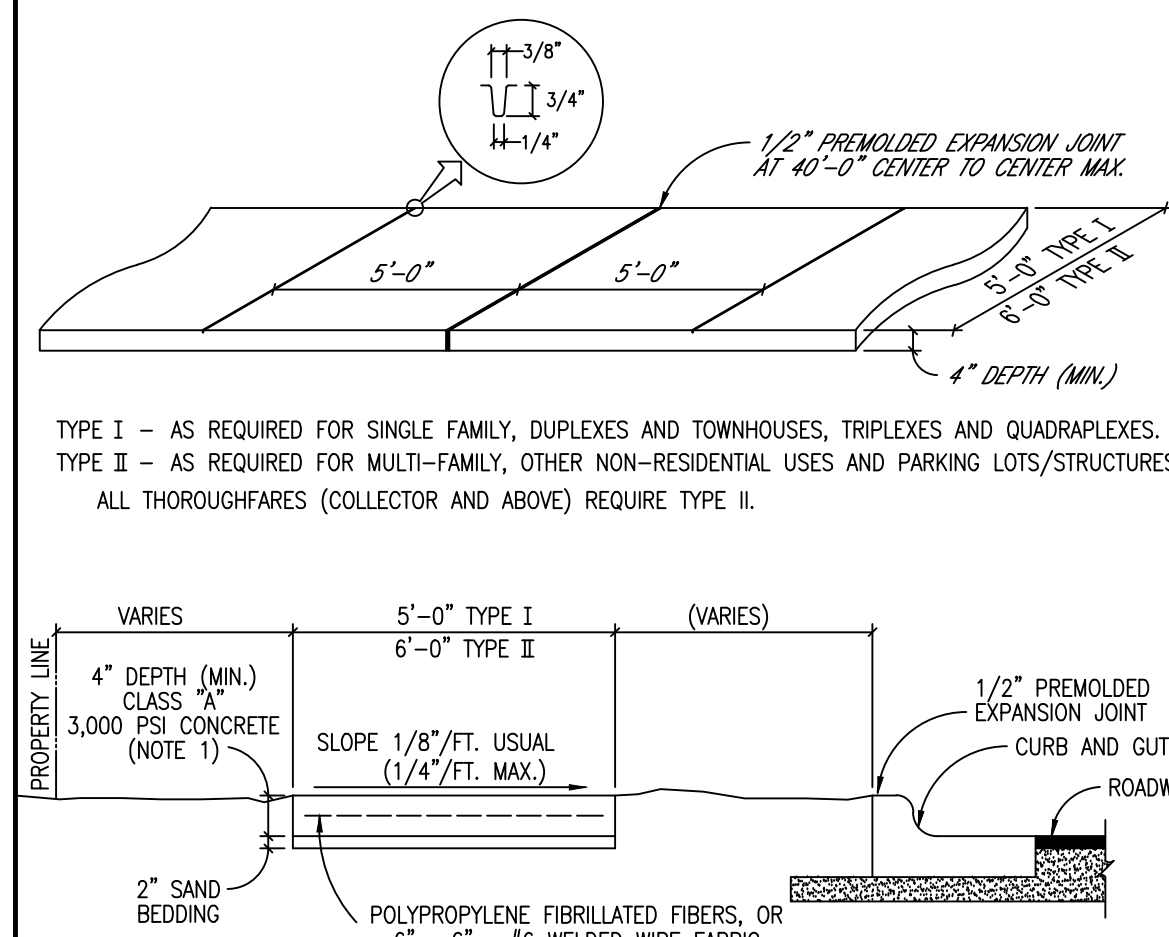
1. TOOLED OR SAW CUT CONTRACTION JOINTS SHALL BE AT REGULAR INTERVALS THROUGHOUT THE PAVEMENT AT EVEN INTERVALS BETWEEN EXPANSION JOINTS AS INDICATED ON THE PLAN. FOR SIDEWALKS LESS THAN 6 FEET WIDE, THE JOINT SPACING SHALL EQUAL THE SIDEWALK WIDTH.
2. JOINTS SHALL BE SPACED SO THAT THE RESULTING PANELS ARE SQUARE. IN NO CASE SHOULD THE LENGTH OF A PANEL EXCEED 1.5 TIMES THE WIDTH.



NOTE

- 1 REMOVE MINIMUM 6" OF EXISTING VEGETATION AND TOPSOIL, SCARIFY AND  
COMPACT SUBGRADE. PROVIDE 6" FLEXIBLE BASE SURFACING AS NOTED.


GRAVEL ACCESS ROAD  
DETAIL  
NTS



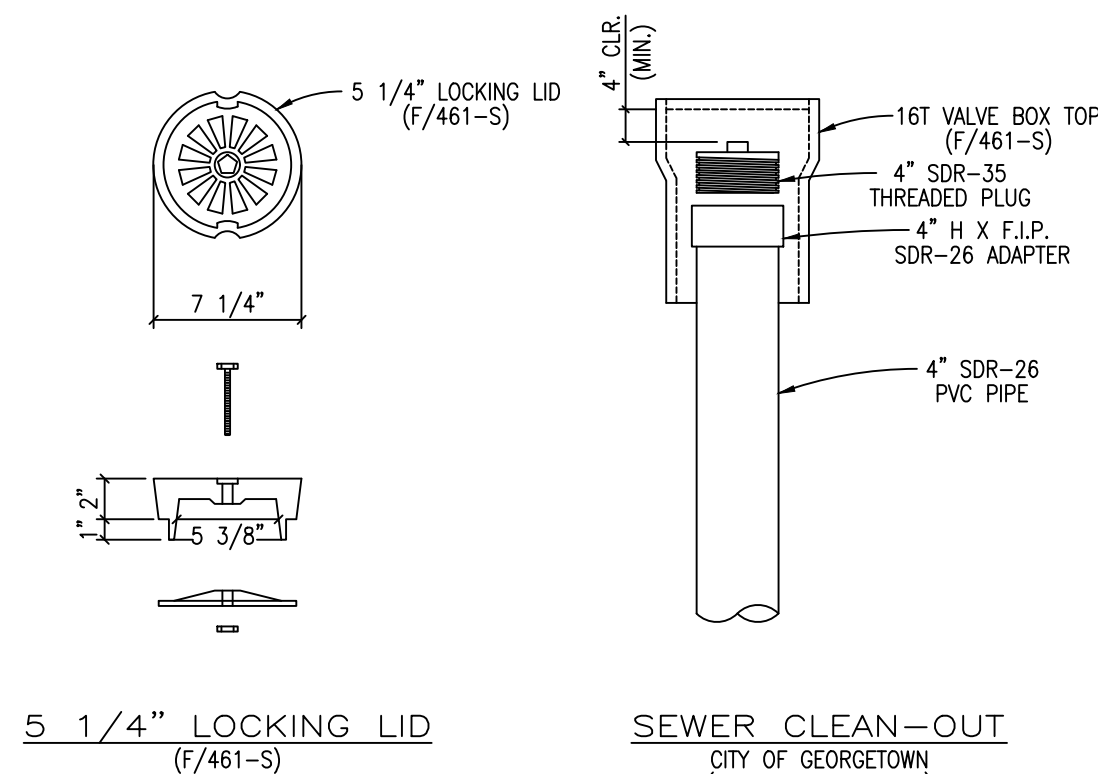
TYPE I - AS REQUIRED FOR SINGLE FAMILY, DUPLEXES AND TOWNHOUSES, TRIPLEXES AND QUADRAPLEXES.  
TYPE II - AS REQUIRED FOR MULTI-FAMILY, OTHER NON-RESIDENTIAL USES AND PARKING LOTS/STRUCTURES.  
ALL THOROUGHFARES (COLLECTOR AND ABOVE) REQUIRE TYPE II.

- NOTES:
- (MUST BE SUBMITTED WITH REVISION CHAIRS OR OTHER APPROVED METHODS)
1. STANDARD LOCATION OF SIDEWALK SHALL BE IN CONFORMANCE WITH THE UDC.
  2. SIDEWALK SHALL CONFORM TO CURRENT TDLR/TAS STANDARDS.
  3. ALL SIDEWALKS SHALL BE SUBMITTED AND APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND ENGINEER OF RECORD.
  4. ANY VARIANCE IN TEXTURE, GRADE OR ALIGNMENT SHALL BE APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND BY THE CITY ENGINEER.
  5. SLIP DOWEL SHALL BE INSTALLED AT EVERY LONGITUDINAL EXPANSION JOINT (UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER DURING ENGINEERING PLAN REVIEW PRIOR TO FINAL DESIGN).


*The Architect/Engineer assumes responsibility for appropriate use of this standard.*

 <p><b>GEORGETOWN</b> TEXAS Georgetown Utility Systems One Community Center Circle</p>	<p>CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SIDEWALK STANDARD AND JOINT DETAIL</p>	<p>ADOPTED 4/27/2006 TRB</p>
		<p>SD14</p>
	<p>DATE: 1/7/2003</p> <p>BY: MRS. TRB</p>	

DETAIL	G
NTS	-



*The Architect/Engineer assumes responsibility for appropriate use of this standard.*

 <p>CITY OF <b>GEORGETOWN</b> TEXAS <i>Georgetown, Dallas Area</i></p>	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SEWER CLEAN-OUT DETAIL		REVISION NOTE: <b>ADOPTED 6/21/2006</b>
	DRAWING NAME: <b>WW12</b>		SCALE: NTS DATE: 1/2003 DRAWN BY: APPROVED BY:

DETAIL 

---

NTS

				DESIGNED BY: <u>E. WEIMER</u>
				DRAWN BY: <u>S. SRIHARI</u>
				SHEET CHKD BY: <u>M. STIGGINS</u>
				APPROVED BY: <u>E. WEIMER</u>
REV. NO.	DATE	DRWN	REMARKS	DATE: <u>SEPTEMBER 2024</u>

DESIGNED BY: E. WEIMER  
DRAWN BY: S. SRIHARI  
SHEET CHK'D BY: M. STIGGINS  
APPROVED BY: E. WEIMER  
DATE: SEPTEMBER 2024

**CDM  
Smith**

---

8310-1 N. CAPITAL OF TEXAS Hwy, Suite 250  
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TBPE Firm Registration No. F-3043

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Dallas, Texas 75244  
Tel: 972-490-7661  
[www.gaiconsulting.com](http://www.gaiconsulting.com)



CITY OF GEORGETOWN, TEXAS

**SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER**

CIVIL

CIVIL STANDARD DETAILS III

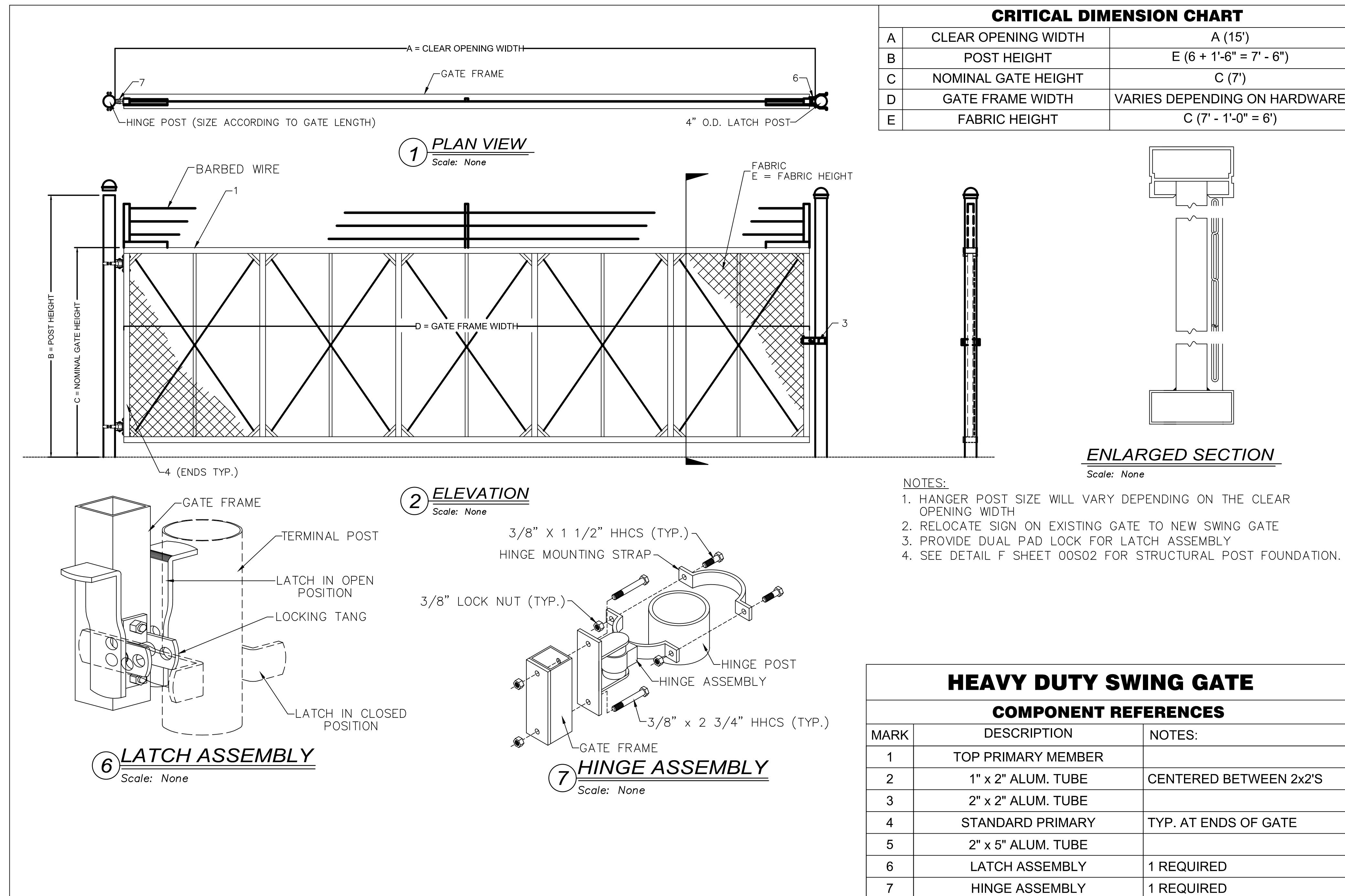
ELLYN WEIMER

STATE OF TEXAS  
★ ★ ★ ★ ★  
ELLYN J. WEIMER  
1424005  
PROFESSIONAL ENGINEER  
LICENSED  
09-17-2014

PROJECT NO.	742
FILE NAME:	00C03DDT.DWG
SHEET NO.	
00C03	

ISSUE FOR BID





CRITICAL DIMENSION CHART		
A	CLEAR OPENING WIDTH	A (15')
B	POST HEIGHT	E (6 + 1'-6" = 7' - 6")
C	NOMINAL GATE HEIGHT	C (7')
D	GATE FRAME WIDTH	VARIES DEPENDING ON HARDWARE
E	FABRIC HEIGHT	C (7' - 1'-0" = 6')

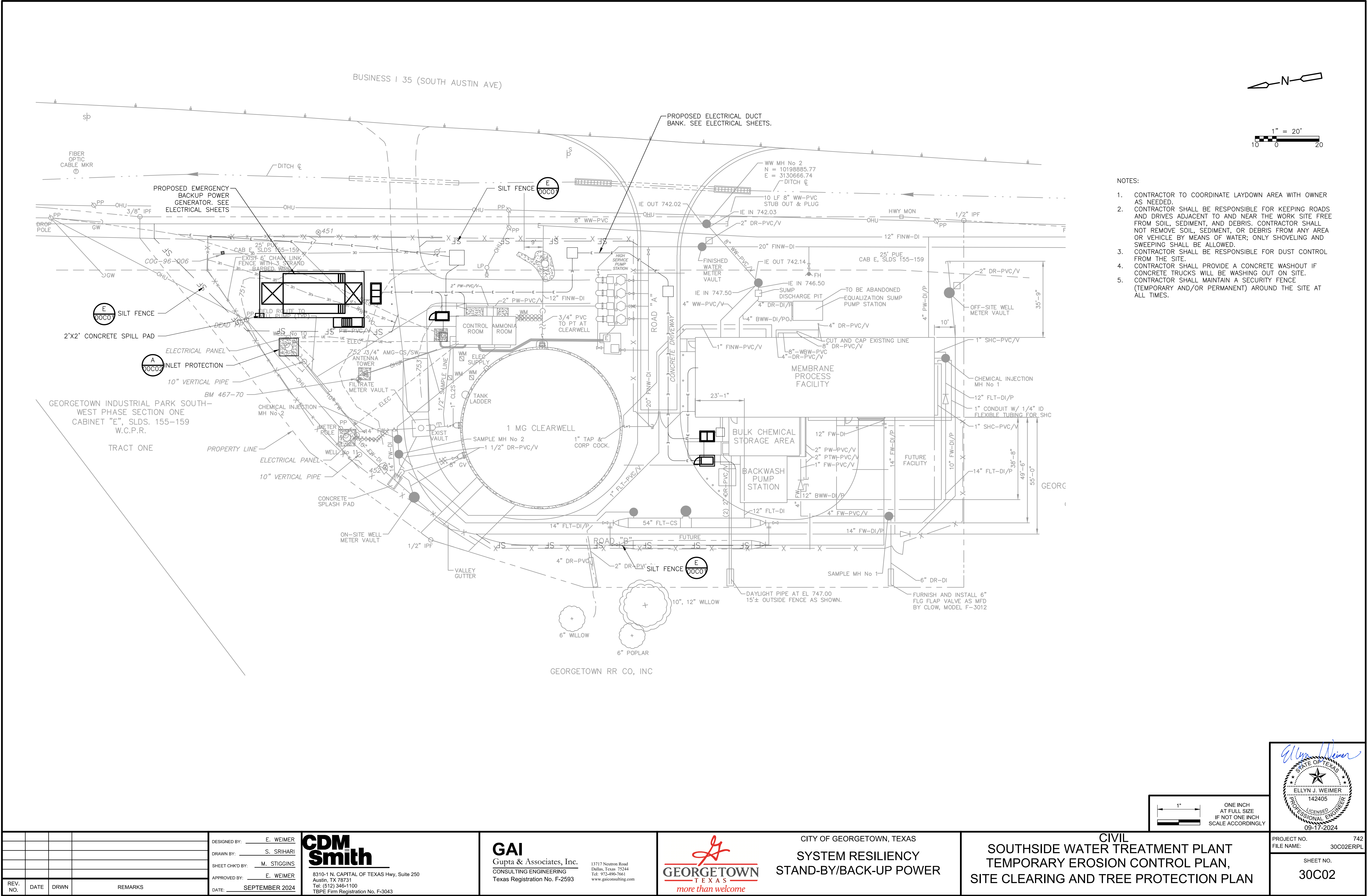
HEAVY DUTY SWING GATE		
COMPONENT REFERENCES		
MARK	DESCRIPTION	NOTES:
1	TOP PRIMARY MEMBER	
2	1" x 2" ALUM. TUBE	CENTERED BETWEEN 2x2'S
3	2" x 2" ALUM. TUBE	
4	STANDARD PRIMARY	TYP. AT ENDS OF GATE
5	2" x 5" ALUM. TUBE	
6	LATCH ASSEMBLY	1 REQUIRED
7	HINGE ASSEMBLY	1 REQUIRED







XREFS: [CDMS\_2234, CEP003SS, CWP003SS, GUPT-001-COG STANDBY GEN-REV1, Site Working Plan, E. WEIMER REVIEW STMP, xsite\_SouthSide WTP Ductbank Routing-V] Images: []  
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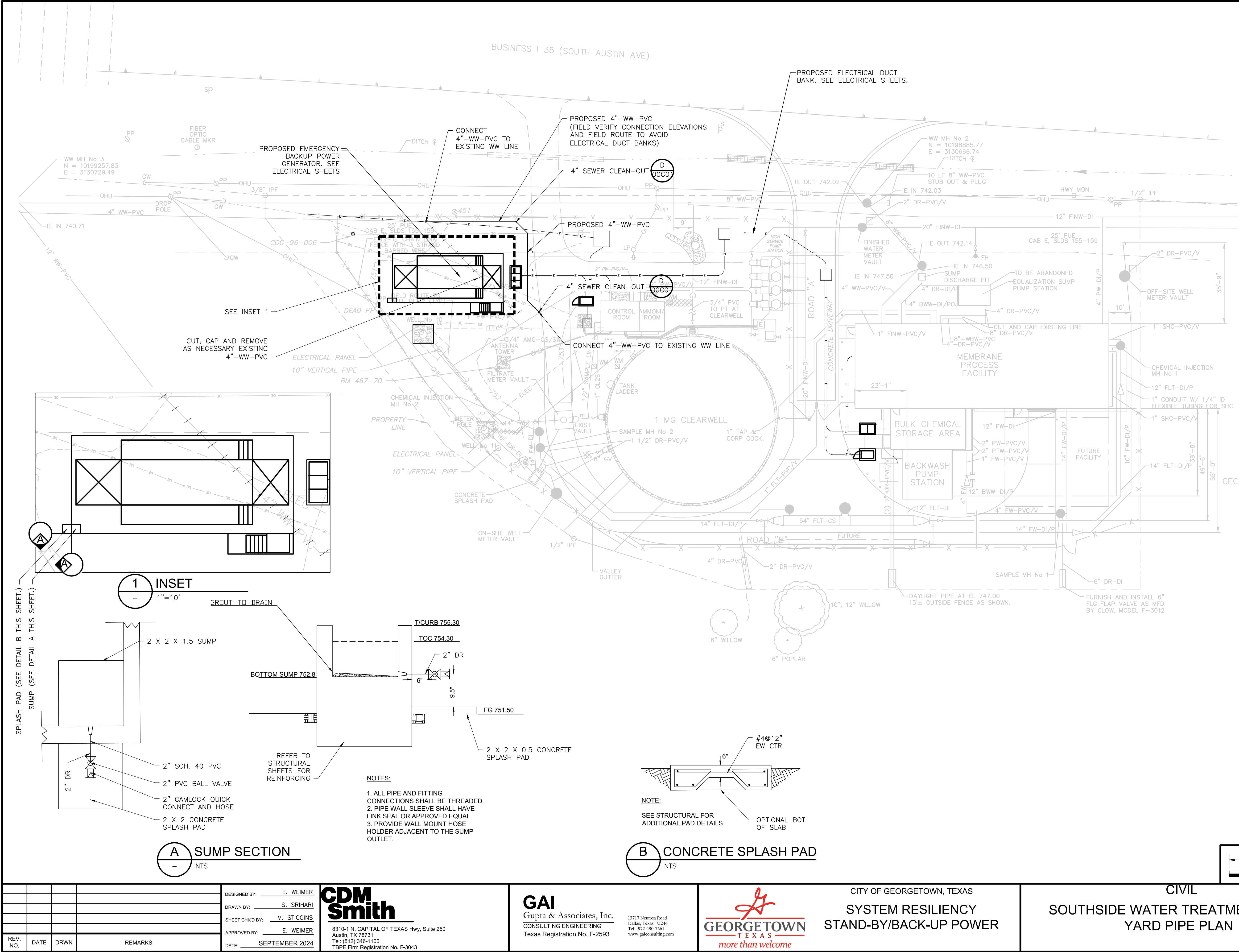


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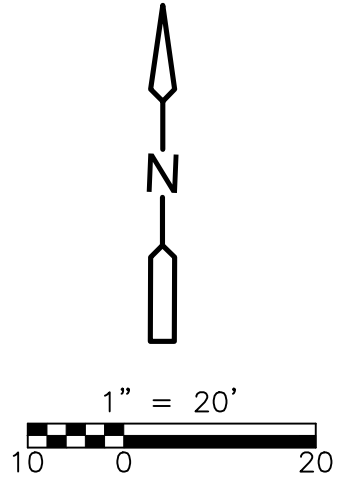
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NOTES:

1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.



1 INSET  
1"=10'

GROUT TO DRAIN

- 2 X 2 X 1.5 SUMP  
2" SCH. 40 PVC  
2" PVC BALL VALVE  
2" CAMLOCK QUICK CONNECT AND HOSE  
2 X 2 CONCRETE SPLASH PAD

A SUMP SECTION  
NTS

BOTTOM SUMP 752.8

REFER TO STRUCTURAL SHEETS FOR REINFORCING

NOTES:

1. ALL PIPE AND FITTING CONNECTIONS SHALL BE THREADED.  
2. PIPE WALL SLEEVE SHALL HAVE LINK SEAL OR APPROVED EQUAL.  
3. PROVIDE WALL MOUNT HOSE HOLDER ADJACENT TO THE SUMP OUTLET.

T/CURB 755.30

TOC 754.30

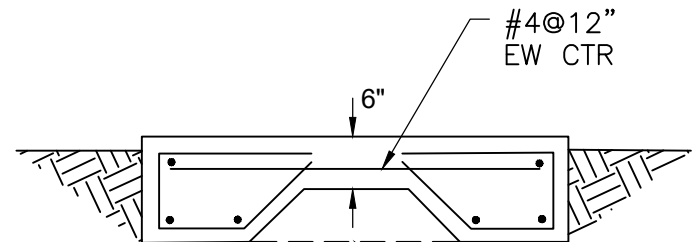
2" DR

6"

9.5'

FG 751.50

2 X 2 X 0.5 CONCRETE SPLASH PAD



NOTE:

SEE STRUCTURAL FOR ADDITIONAL PAD DETAILS  
OPTIONAL BOT OF SLAB

B CONCRETE SPLASH PAD  
NTS

REV. NO.	DATE	DRWN	REMARKS

DESIGNED BY:	E. WEIMER
DRAWN BY:	S. SRIHARI
SHEET CHK'D BY:	M. STIGGINS
APPROVED BY:	E. WEIMER
DATE:	SEPTEMBER 2024

**CDM Smith**  
8310-1 N. CAPITAL OF TEXAS Hwy, Suite 250  
Austin, TX 78731  
Tel: (512) 346-1100  
TBPE Firm Registration No. F-3043

**GAI**  
Gupta & Associates, Inc.  
CONSULTING ENGINEERING  
Texas Registration No. F-2593  
13717 Neutron Road  
Dallas, Texas 75244  
Tel: 972-490-7661  
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**GEORGETOWN TEXAS**  
more than welcome  
CITY OF GEORGETOWN, TEXAS  
SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER

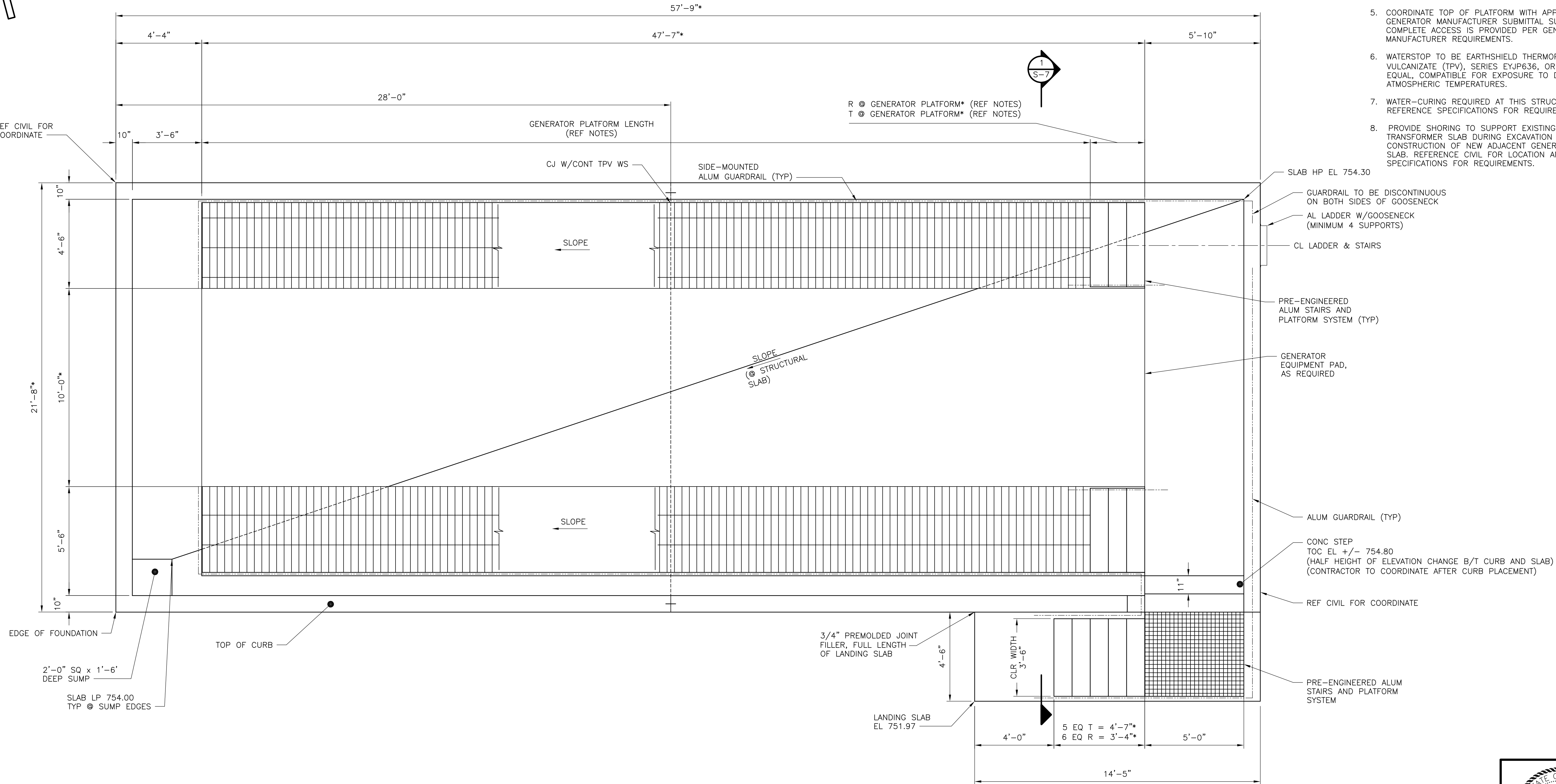
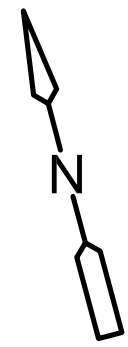
CIVIL  
SOUTHSIDE WATER TREATMENT PLANT  
YARD PIPE PLAN

PROJECT NO. 742  
FILE NAME: 30C03YPL  
SHEET NO. 30C03

ISSUE FOR BID



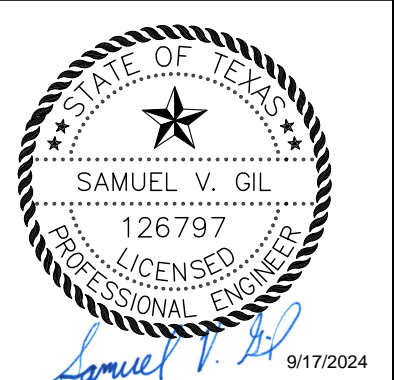
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- NOTES:
- COORDINATE REQUIRED SLAB OPENING SIZES WITH APPROVED EQUIPMENT SUBMITTALS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS PER STANDARD DETAIL REQUIREMENTS.
  - COORDINATE OVERALL FOUNDATION SIZE WITH APPROVED EQUIPMENT SUBMITTALS.
  - ALL EQUIPMENT ANCHORAGE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
  - \* DENOTES DIMENSION TO BE COORDINATED WITH APPROVED EQUIPMENT MANUFACTURER, PRIOR TO FABRICATION AND CONSTRUCTION.
  - COORDINATE TOP OF PLATFORM WITH APPROVED GENERATOR MANUFACTURER SUBMITTAL SUCH THAT COMPLETE ACCESS IS PROVIDED PER GENERATOR MANUFACTURER REQUIREMENTS.
  - WATERSTOP TO BE EARTHSHIELD THERMOPLASTIC VULCANIZATE (TPV), SERIES EYJP636, OR APPROVED EQUAL, COMPATIBLE FOR EXPOSURE TO DIESEL AT ATMOSPHERIC TEMPERATURES.
  - WATER-CURING REQUIRED AT THIS STRUCTURE. REFERENCE SPECIFICATIONS FOR REQUIREMENTS.
  - PROVIDE SHORING TO SUPPORT EXISTING TRANSFORMER SLAB DURING EXCAVATION AND CONSTRUCTION OF NEW ADJACENT GENERATOR SLAB. REFERENCE CIVIL FOR LOCATION AND SPECIFICATIONS FOR REQUIREMENTS.

PLAN  
3/8" = 1'-0"

1" ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY



REV. NO.	DATE	DRWN	REMARKS

DESIGNED BY: V. PLONSKI  
DRAWN BY: C. PALMER  
SHEET CHK'D BY: N. KARASIK  
APPROVED BY: S. GIL  
DATE: SEPTEMBER 2024

**CDM Smith**  
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CITY OF GEORGETOWN, TEXAS  
SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER

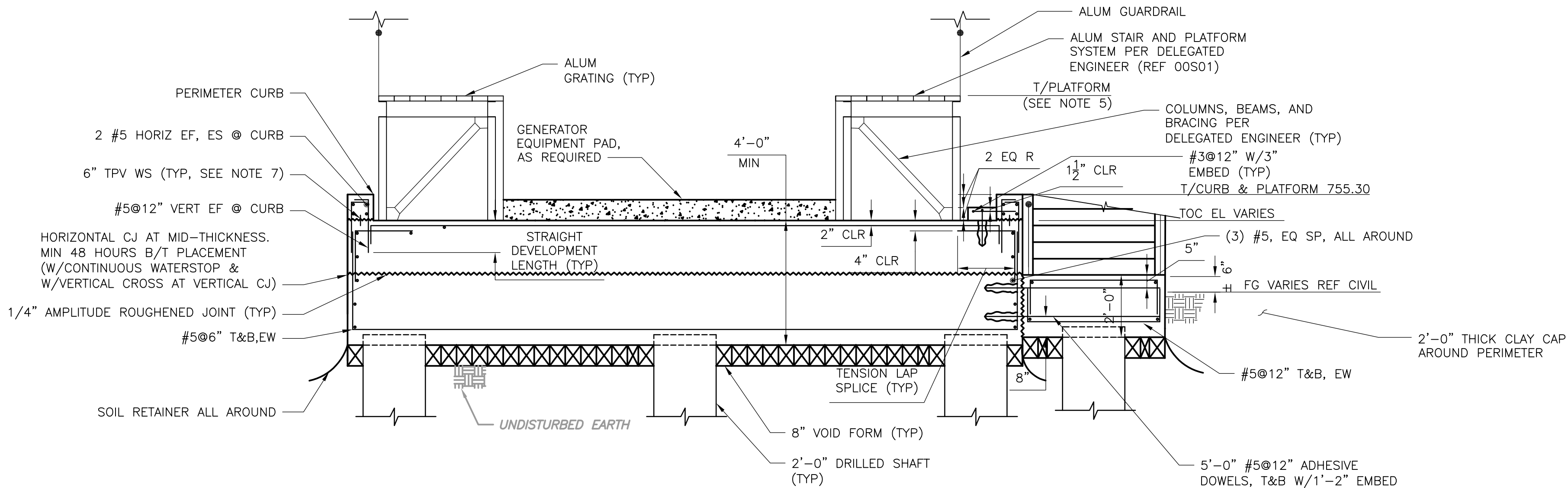
STRUCTURAL  
PLAN  
SOUTHSIDE WTP GENERATOR

PROJECT NO. 742  
FILE NAME: S003PSPL  
SHEET NO.  
30S02

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SECTION 1  
3/8" = 1'-0"

- NOTES:
- COORDINATE REQUIRED SLAB OPENING SIZES WITH APPROVED EQUIPMENT SUBMITTALS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS PER STANDARD DETAIL REQUIREMENTS.
  - COORDINATE OVERALL FOUNDATION SIZE WITH APPROVED EQUIPMENT SUBMITTALS.
  - ALL EQUIPMENT ANCHORAGE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
  - \* DENOTES DIMENSION TO BE COORDINATED WITH APPROVED EQUIPMENT MANUFACTURER, PRIOR TO FABRICATION AND CONSTRUCTION. COORDINATE PLATFORM TO BE PROVIDED BY GENERATOR MANUFACTURER WITH REQUIRED OVERALL WIDTH.
  - COORDINATE TOP OF PLATFORM WITH APPROVED GENERATOR MANUFACTURER SUBMITTAL SUCH THAT COMPLETE ACCESS IS PROVIDED PER GENERATOR MANUFACTURER REQUIREMENTS.
  - WATERSTOP TO BE EARTHSHIELD THERMOPLASTIC VULCANIZATE (TPV), SERIES EYJP636, OR APPROVED EQUAL, COMPATIBLE FOR EXPOSURE TO DIESEL AT ATMOSPHERIC TEMPERATURES. WATERSTOP TO BE CONTINUOUS AROUND THE PERIMETER AND FOLLOW BOTTOM OF SUMP PROFILE. AT CONTRACTOR'S OPTION, IT IS PERMITTED TO CAST THE EXTERIOR WALLS OF SUMP MONOLITHICALLY WITH MAIN SLAB.

REV. NO.	DATE	DRWN	REMARKS

DESIGNED BY: V. PLONSKI  
DRAWN BY: C. PALMER  
SHEET CHK'D BY: N. KARASIK  
APPROVED BY: S. GIL  
DATE: SEPTEMBER 2024

**CDM Smith**  
8310-1 N. CAPITAL OF TEXAS Hwy, Suite 250  
Austin, TX 78731  
Tel: (512) 346-1100  
TBPE Firm Registration No. F-3043

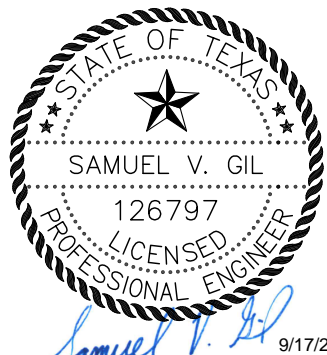
**GAI**  
Gupta & Associates, Inc.  
CONSULTING ENGINEERING  
Texas Registration No. F-2593  
13717 Neutron Road  
Dallas, Texas 75244  
Tel: 972-490-7661  
www.gaiconsulting.com

**GEORGETOWN**  
T E X A S  
more than welcome

CITY OF GEORGETOWN, TEXAS  
SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER

STRUCTURAL  
SECTION  
SOUTHSIDE WTP GENERATOR

1" = 1'-0"  
ONE INCH AT FULL SIZE  
IF NOT ONE INCH SCALE ACCORDINGLY

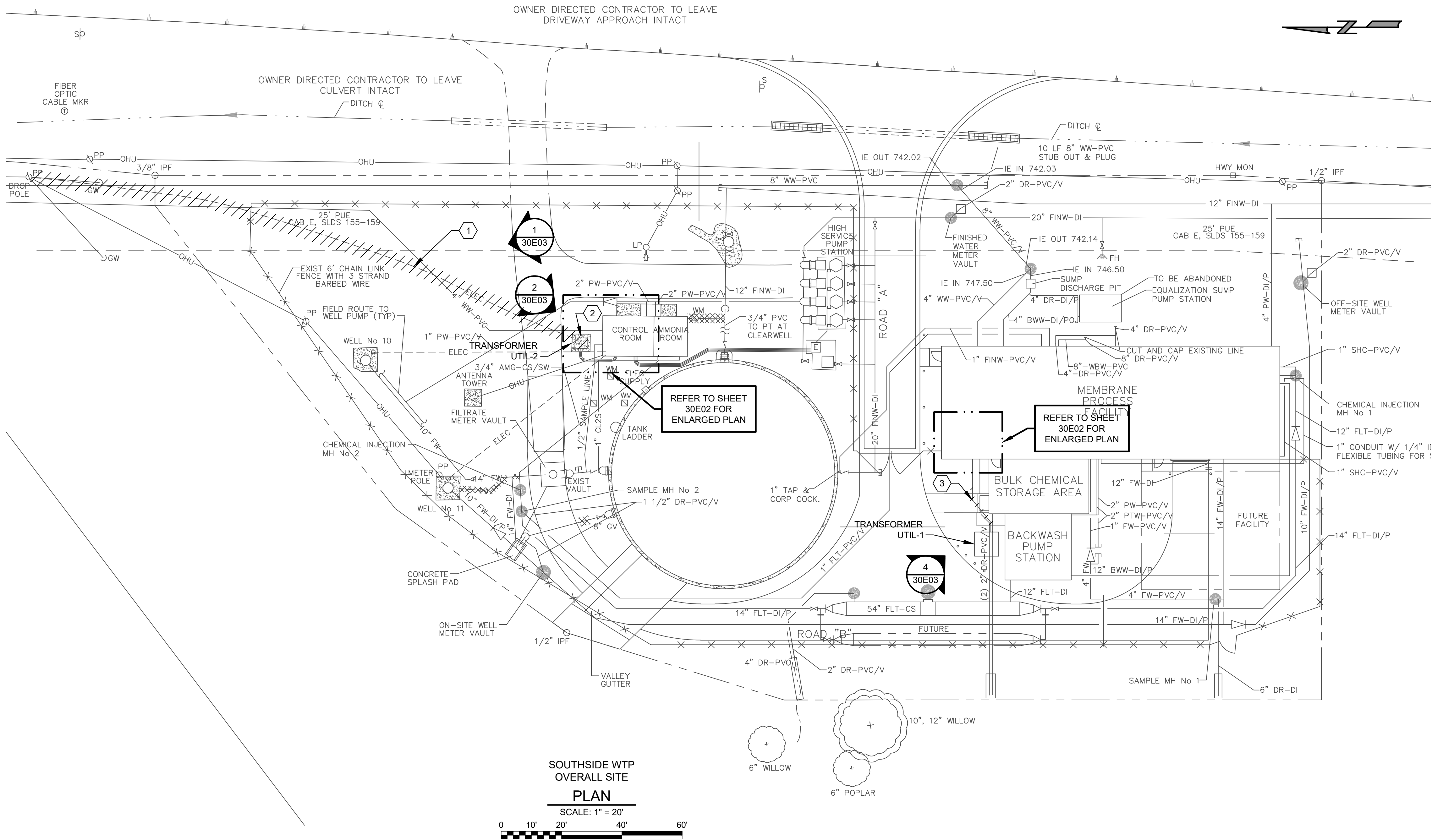


PROJECT NO. 742  
FILE NAME: S003PSP1

SHEET NO.  
30S03

ISSUE FOR BID

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GENERAL NOTES:

1. FIELD VERIFY THE LOCATIONS AND DEPTH OF ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.

NOTES:

1. COORDINATE WITH UTILITY FOR DEMOLITION AND RELOCATION OF UNDERGROUND PRIMARY FEEDER TO EXISTING TRANSFORMER UTIL-2
2. COORDINATE WITH UTILITY FOR RELOCATION OF TRANSFORMER UTIL-2. DEMOLISH EXISTING TRANSFORMER PAD AND PROTECT EXISTING SECONDARY DUCTBANK FOR INSTALLATION OF NEW HANDHOLE.
3. SELECTIVELY DEMOLISH DUCTBANK FROM TRANSFORMER UTIL-1 TO MCC-1 AND DP-2. PROTECT DUCTBANK TO TRANSFORMER FOR REROUTE TO NEW SWITCHBOARD. PROTECTED DUCTBANK TO BUILDING FOR REROUTE TO NEW HANDHOLE.

REV. NO.	DATE	DRWN	REMARKS

DESIGNED BY: K. ADDAMO  
DRAWN BY: D. PALMER  
SHEET CHK'D BY: A. REED  
APPROVED BY: A. REED  
DATE: SEPTEMBER 2024

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CITY OF GEORGETOWN, TEXAS  
SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER

ELECTRICAL  
SOUTHSIDE WTP  
EXISTING OVERALL SITE PLAN

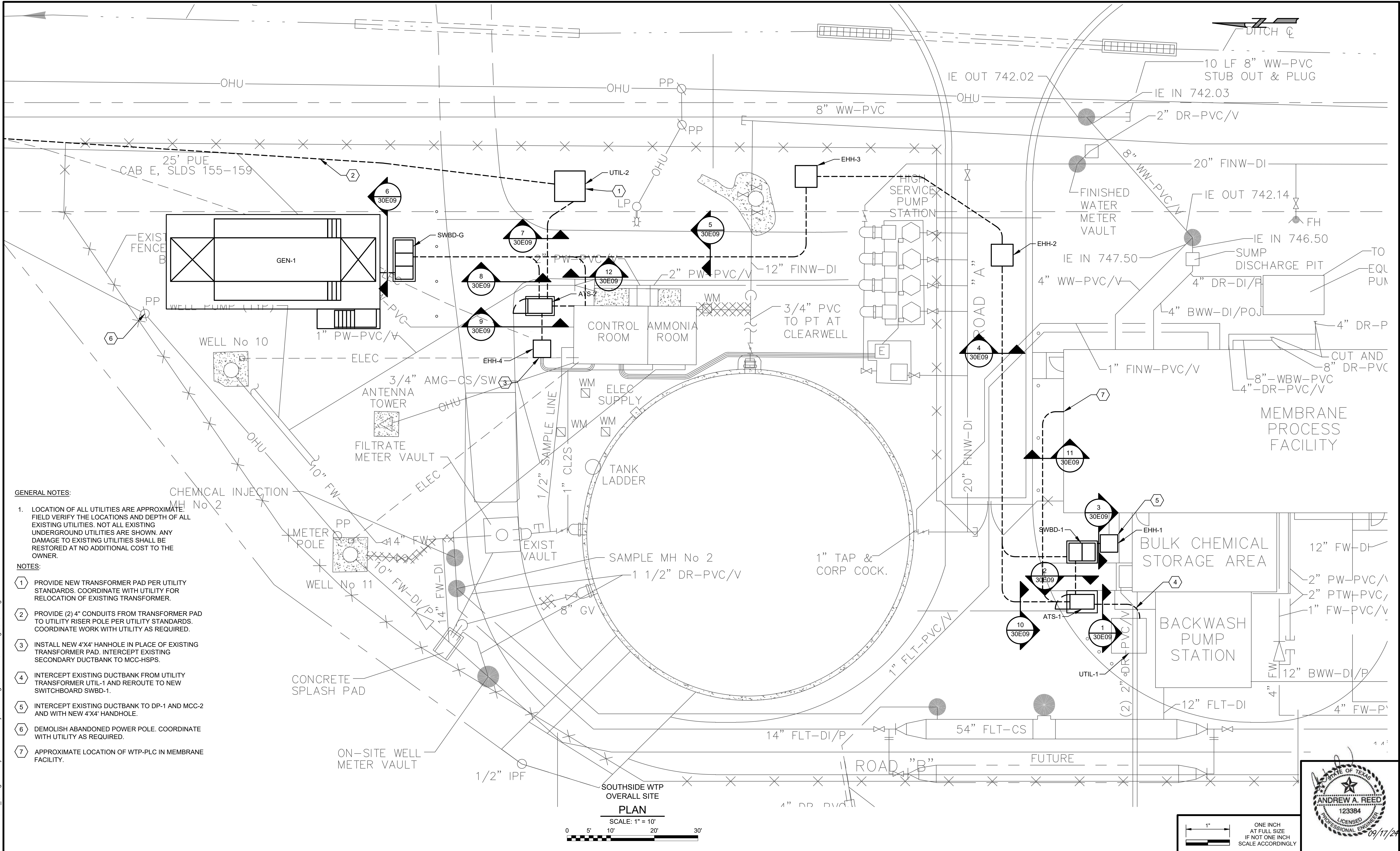
09/17/24

PROJECT NO.	742
FILE NAME:	30E01
SHEET NO.	30E01
	49 OF 82

ISSUE FOR BID



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GENERAL NOTES:

1. LOCATION OF ALL UTILITIES ARE APPROXIMATE. FIELD VERIFY THE LOCATIONS AND DEPTH OF ALL EXISTING UTILITIES. NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. ANY DAMAGE TO EXISTING UTILITIES SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.

NOTES:

- 1 PROVIDE NEW TRANSFORMER PAD PER UTILITY STANDARDS. COORDINATE WITH UTILITY FOR RELOCATION OF EXISTING TRANSFORMER.
- 2 PROVIDE (2) 4" CONDUITS FROM TRANSFORMER PAD TO UTILITY RISER POLE PER UTILITY STANDARDS. COORDINATE WORK WITH UTILITY AS REQUIRED.
- 3 INSTALL NEW 4'X4' HANHOLE IN PLACE OF EXISTING TRANSFORMER PAD. INTERCEPT EXISTING SECONDARY DUCTBANK TO MCC-HSPS.
- 4 INTERCEPT EXISTING DUCTBANK FROM UTILITY TRANSFORMER UTIL-1 AND REROUTE TO NEW SWITCHBOARD SWBD-1.
- 5 INTERCEPT EXISTING DUCTBANK TO DP-1 AND MCC-2 AND WITH NEW 4'X4' HANDHOLE.
- 6 DEMOLISH ABANDONED POWER POLE. COORDINATE WITH UTILITY AS REQUIRED.
- 7 APPROXIMATE LOCATION OF WTP-PLC IN MEMBRANE FACILITY.

REV. NO.	DATE	DRWN	REMARKS

DESIGNED BY: K. ADDAMO  
DRAWN BY: D. PALMER  
SHEET CHK'D BY: A. REED  
APPROVED BY: A. REED  
DATE: SEPTEMBER 2024

**GAI**

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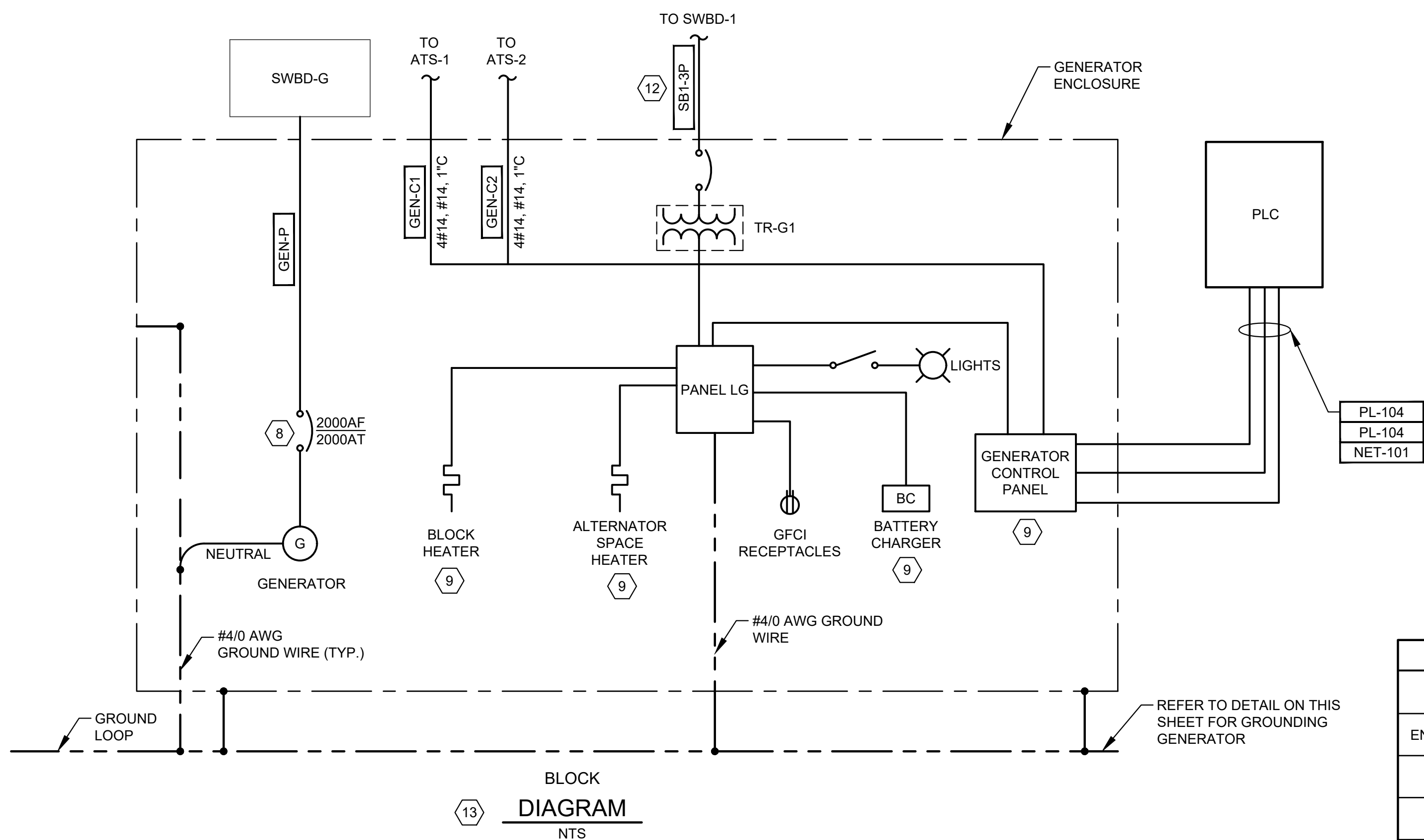
CITY OF GEORGETOWN, TEXAS  
SYSTEM RESILIENCY  
STAND-BY/BACK-UP POWER

ELECTRICAL  
SOUTHSIDE WTP  
OVERALL SITE PLAN - MODIFICATION



PROJECT NO. 742  
FILE NAME: 30E07  
SHEET NO.  
**30E07**  
55 OF 82  
ISSUE FOR BID

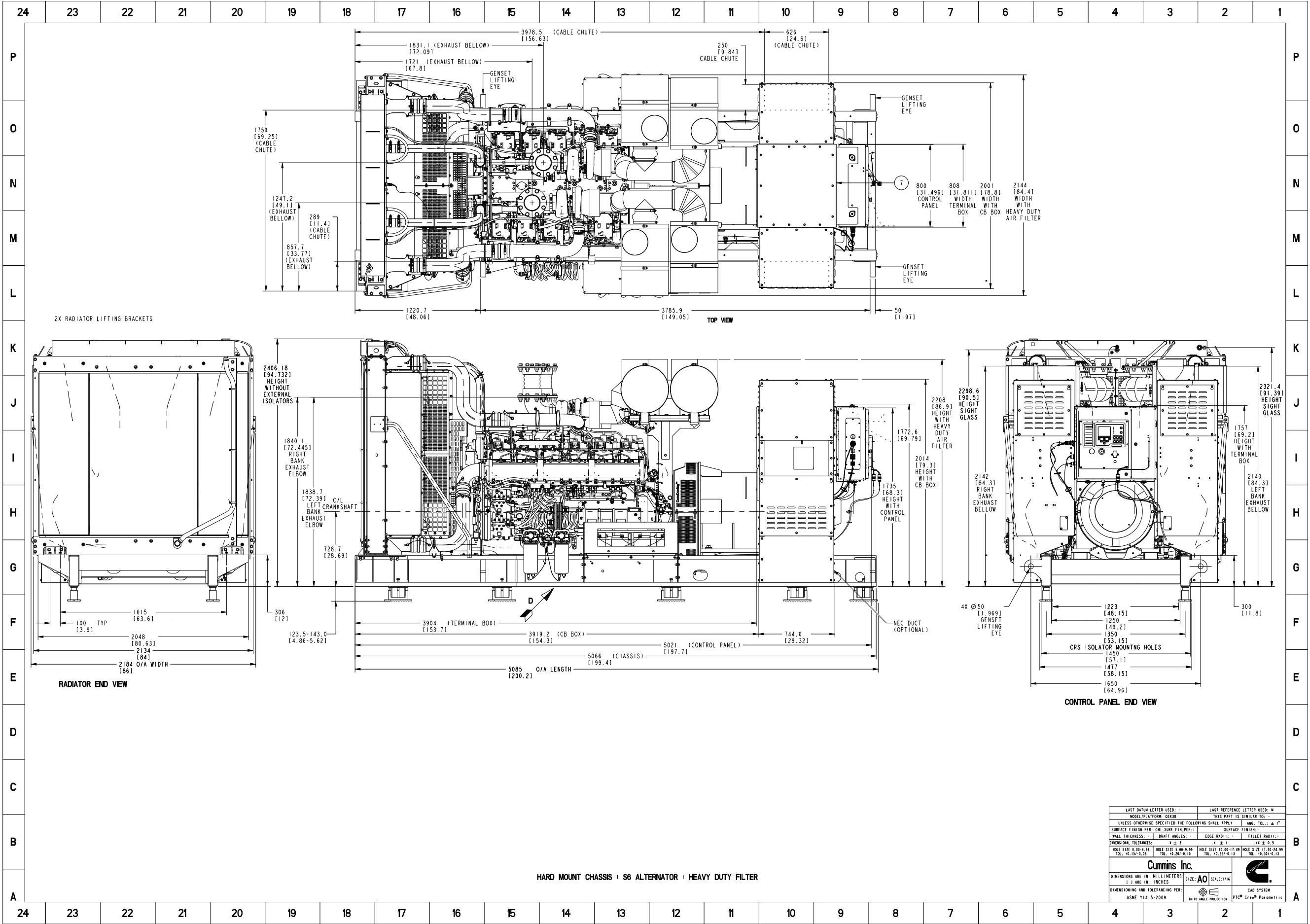




GENERATOR INFORMATION	
SIZE	1250KW, 480, 3PH, 4W
ENCLOSURE	WEATHER PROOF, 47'L X 10'W X 13.5'H
SOUND	SOUND ATTENUATED, 65' DBA AT 25'
FUEL	UL-2085 DIESEL FUEL TANK, 24HR AT FULL LOAD
WEIGHT	120,000 LBS

1	SIZES AND CLEARANCES SHOWN SHALL BE COORDINATED WITH THE SELECTED GENERATOR MANUFACTURER AND LOCAL AUTHORITY HAVING JURISDICTION FOR FINAL DIMENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE PAD SIZE AND EQUIPMENT LOCATION BASED ON FINAL SIZING REQUIREMENT.	8	TIE DUCTBANK REBAR INTO SLAB REBAR AS SPECIFIED.
2	TIE REBAR TO GROUND GRID SYSTEM.	9	BREAKER TO BE PROVIDED BY GENERATOR MANUFACTURER AND SET ACCORDING TO THE POWER SYSTEM STUDY REQUIREMENTS.
3	PROVIDE GROUND PAD IN VERTICAL FACE OF HOUSE KEEPING PAD.	10	GENERATOR MANUFACTURER SHALL BE RESPONSIBLE FOR SIZING THE BREAKERS, WIRES AND CONDUITS FOR GENERATOR CONTROL PANEL, HEATERS AND BATTERY CHARGERS.
4	BOND PAD TO GENERATOR AND ACCESS PLATFORM WITH 4/0 AWG GREEN INSULATED CABLE. ATTACH WITH NEMA 2-HOLE LONG BARREL LUGS.	11	APPROXIMATE PAD SIZE REFER TO DRAWINGS FOR DETAILS. SEE STRUCTURAL FOR CONSTRUCTION DETAILS.
5	PROVIDE PIG TAIL GROUNDING ELECTRODE CONDUCTOR FOR GENERATOR. VERIFY INTERNAL EQUIPMENT GROUNDING REQUIREMENTS.	12	DRAWING MAY NOT REPRESENT SUBMITTED AND APPROVED EQUIPMENT.
6	ENTRY FOR CONDUIT INTO GENERATOR, LOCATION APPROXIMATE. ADJUST AS REQUIRED PER MANUFACTURER'S SHOP DRAWINGS. COORDINATE WITH STRUCTURE GRADE BEAM PLACEMENT.	13	FROM MCC LOCATED IN THE ELECTRICAL BUILDING.
		14	BLOCK DIAGRAM SHOWN AS MINIMUM REQUIRED CONFIGURATION.
		15	NOT USED.
			48" WIDE ALUMINUM PLATFORMS PROVIDED BY GENERATOR MANUFACTURER.





**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tanks Facility Plan**

In order to prevent spill and overfill of hydrocarbon products or hazardous substances the following spill and overfill control actions will be taken:

1. The use of UL-2085 listed double-wall subbase design carbon steel construction tanks sized with a minimum of 110 percent of the tank capacity to prevent the escape of fuel into the environment in the event of a tank rupture will be provided to contain spills and overflows.
2. The generator fill ports will be equipped with a an overfill prevention valve and tank level indicators, with high and low-level switches to indicate fuel level at all times in order to ensure minimal risk of overfill.
3. Each Generator fuel tank will be equipped with a leak detection system for the interstitial space to alert for any potential leaks.
4. In case of failure of double-wall subbase system, a tertiary concrete containment system will be placed around the tank and sized with a minimum capacity of 150 percent of the tank capacity to prevent the escape of fuel into the environment. This system was imposed due to the proximity of the existing water well on site.
5. In order to avoid overfills there will always be an attendant present during deliveries.
6. Standard Operating Procedures (SOP) will be developed for filling the fuel storage tanks to minimize the risk of overfilling and spilling. The SOP will be shared with operators and delivery personnel.
7. Operators will continue to be trained on the proper methods of filling tanks and monitoring the tank levels. Instrumentation and control training will be provided by the system supplier.



**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tanks Facility Plan**

In the event of any spill of hydrocarbon products or hazardous substances the following spill response actions will be taken:

1. The nature and extent of the spill will be assessed, and measures will be taken to protect self and all personnel.
2. City of Georgetown Fire Department will be notified of the nature and extent of the spill via telephone (911 or 512-930-3473).
3. TCEQ Spill Reporting 24-hour Hotline will be notified of the nature and extent of the spill via telephone (800-832-8224).
4. The source of the spill will be stopped and confined before spill response cleanup activities take place.
5. Spills will be reported prior to any spill response activities.
6. Absorbent materials will be used to contain small scale spill incidents immediately.
7. Absorbent containment booms will be used to contain the discharge of larger scale spill incidents immediately.
8. Any spill response action will follow applicable OSHA health and safety regulations.
9. Any water materials generated by spill response actions will be properly stored and disposed in accordance with local, state, and federal regulations.
10. Onsite personnel will be trained to follow the spill response actions for the site.

# 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.***

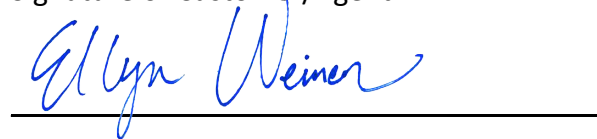
## Signature

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: Ellyn Weimer, PE

Date: 10-08-2024

Signature of Customer/Agent:



Regulated Entity Name: Southside Water Treatment Plant

## 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: N/A

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: stormwater will flow from the project site thence to West Fork of Smith Branch.

### ***Temporary Best Management Practices (TBMPs)***

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

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

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



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

## ***Soil Stabilization Practices***

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

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

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

### ***Administrative Information***

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



**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

In the event of any spill of hydrocarbon products or hazardous substances of reportable quantities the following spill response actions will be taken:

1. The nature and extent of the spill will be assessed, and measures will be taken to protect self and all personnel.
2. City of Georgetown Fire Department will be notified of the nature and extent of the spill via telephone (911 or 512-930-3473).
3. TCEQ Spill Reporting 24-hour Hotline will be notified of the nature and extent of the spill via telephone (800-832-8224).
4. The source of the spill will be stopped and confined before spill response cleanup activities take place.
5. Spills will be reported prior to any spill response activities.
6. Absorbent materials will be used to contain small scale spill incidents immediately.
7. Absorbent containment booms will be used to contain the discharge of larger scale spill incidents immediately.
8. Any spill response action will follow applicable OSHA health and safety regulations.
9. Any water materials generated by spill response actions will be properly stored and disposed in accordance with local, state, and federal regulations.
10. Onsite personnel will be trained to follow the spill response actions for the site.

**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

Potential sources of contamination related to this project include:

- Sediment from spoil piles transported during stormwater events
- Accidental leakage of fuels from vehicles or equipment during construction activities

All necessary actions to minimize impacts of contamination will be taken before, during, and after the proposed project and in coordination with Attachment A, Spill Response Actions. Other than a potential incidental leak from construction vehicles or equipment, all additional runoff will be from natural sources.



**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

The sequence for the construction of the proposed project improvements at the Southside Water Treatment Plant site is planned as follows:

- Following issuance of notice-to-proceed, Contractor installs silt fencing, tree protection, and stabilized construction entrance.
- Contractor clears site areas and prepares site for construction.
- Contractor constructs temporary construction access roads.
- Contractor performs excavation for new structures.
- Contractor constructs the concrete slab for new generator.
- Contractor installs electrical duct banks and routing.
- Contractor installs electrical improvements in the buildings and structures.
- Contractor installs concrete pavement.
- Contractor completes site construction and initiates site clean-up.
- Contractor inspects and maintains temporary erosion and sedimentation controls throughout the term of the project.
- Contractor restores disturbed soil areas with loaming and hydro-seeding.

**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

Temporary erosion and sedimentation control measures will include:

- Silt fencing;
- Rock berms;
- Concrete wash down area;
- Tree protection;
- Stabilized Construction Entrance (SCE);
- Inlet protection

Silt fencing shall be placed downgradient from the proposed site areas to control and filter any stormwater that may be generated from the proposed project site. Silt fencing shall also be placed around the perimeter of any storm drain inlets located on or downgradient of the proposed project area when installed. No significant runoff from upgradient stormwater flows are anticipated due to the silt fencing. The silt fencing will further serve to control any stormwater generated by the proposed project site before it is allowed to discharge as stormwater-sediment flow from the site.

Rock berms shall be placed downgradient of proposed site areas to control and filter any concentrated stormwater that may be generated from the proposed project site.

A concrete wash out area will be placed on site in order to wash out trucks onto a designated area and not into storm drains or streams. It will also prevent excess concrete to be dumped onsite.

Tree protection will be placed around the critical root zone (CRZ) of protected trees on the proposed project site. This control measure will prevent erosion near the roots and protect the roots from being damaged by construction activities.

A stabilized construction entrance will be installed at the entrance of the construction area to minimize the tracking of sediments from the project site. All access to the construction site will use this SCE.

The area will remain vegetated where possible.

These temporary erosion and sedimentation control measures are indicated on the site drawings and will be put in place before the start of construction and shall remain in place for the duration of site construction activities.

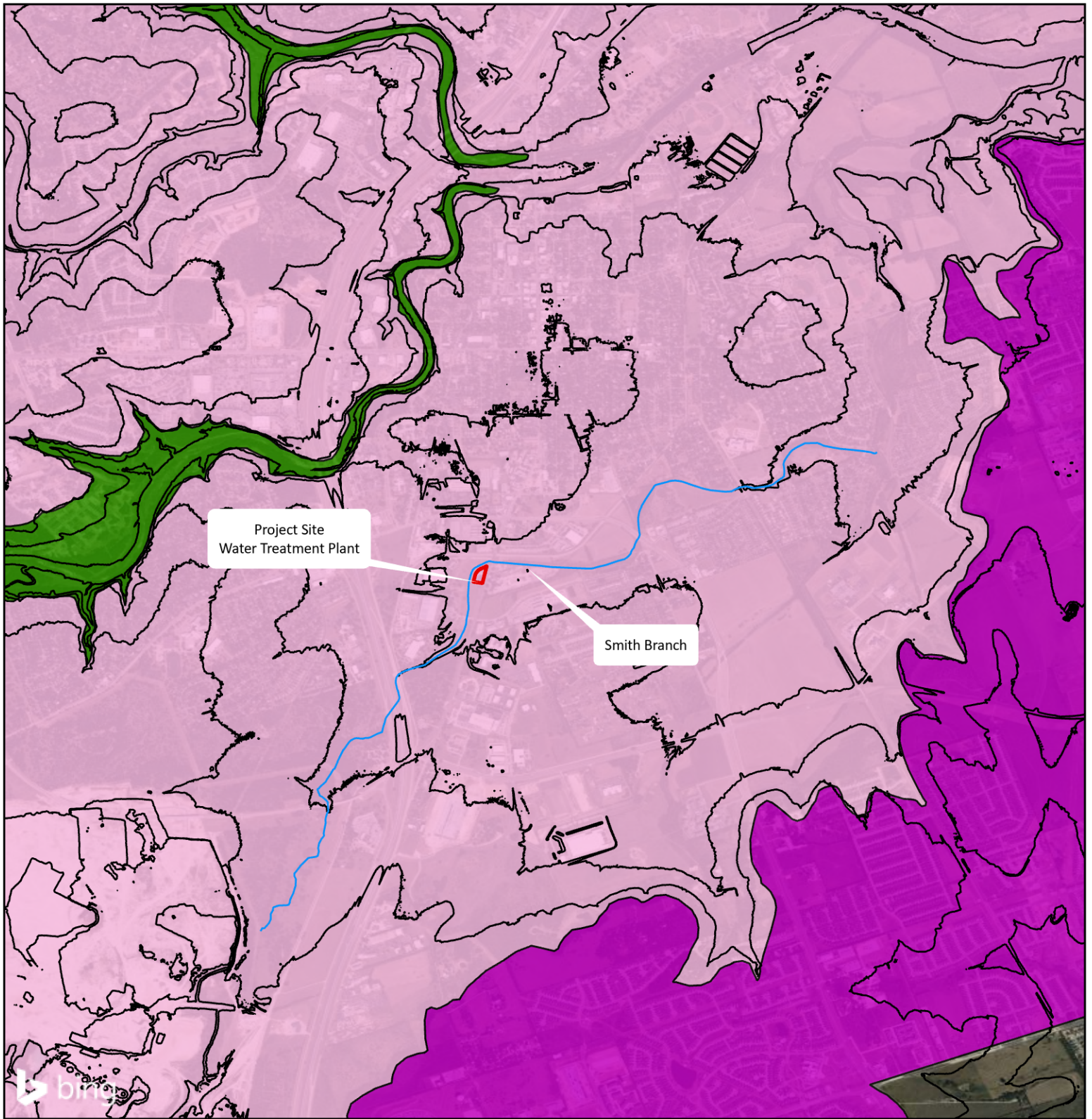


**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

Structural Practices that will be used to limit the runoff discharge of sediments and pollutants from exposed areas of the proposed project include the following practices:

- Silt fencing;
- Rock berms;
- Concrete wash down area;
- Stabilized Construction Entrance (SCE);


These practices are described in Attachment D, Temporary BMPs and Measures. No temporary structural facilities, such as sedimentation ponds, will be constructed or used during construction activities.



## Legend

- Contours
- Project Site
- Edwards Aquifer**
- Recharge Zone
- Transition Zone
- Contributing Zone
- Contributing Zone within the Transition Zone
- Smith Branch



0 0.25 0.5 0.75 1  
 Miles

## Attachment G: Drainage Area Map Southside Water Treatment Plant Williamson County





**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

Silt fencing, rock berms, inlet protection, and the stabilized construction entrance shall be inspected once per week and following every significant rainfall event (of at least 0.1 inch or greater). If such inspections reveal that additional measurements are needed to prevent movement of sedimentation to offsite areas, the Contractor shall promptly install additional erosion control devices as may be required.

Silt fences shall be maintained and repaired as follows:

- Remove accumulated sediment once build up reaches 6 inches
- Replace torn or damaged filter fabric
- Make any other repairs or adjustments, as needed, to ensure the silt fencing is functioning properly

Rock berms shall be maintained and repaired as follows:

- Remove accumulated sediment once build up reaches 6 inches
- Repair any loose wire sheathing or reshape as needed
- Make any other repairs or adjustments, as needed, to ensure the rock berm is functioning properly

Inlet Protections shall be maintained and repaired as follows:

- Repair any damaged fabric, or patch with a two (2) foot minimum overlap
- Replace any damaged sandbags
- Remove accumulated sediment once build up reaches 3 inches
- Check placement of device to prevent gaps between device and curb

The stabilized construction entrance will also be inspected following precipitation events and stone will be replaced if silt accumulation is found to hinder the role of this BMP to minimize the off-site tracking of sediment.

Concrete washout areas shall be inspected daily and after every significant rainfall event (of at least 0.1 inch or greater) to check for leaks, identify any plastic linings and sidewalls have been damaged by construction activities or if they are over 75% capacity. When the washout area is over 75% capacity the wash water shall be removed or allowed to evaporate to avoid overflows. The hardened cement solids shall be removed and recycled.

Note that the inspections of the temporary BMPs will be documents in an inspection report. The inspect reports will document maintenance activities, sediment removal, and modifications to the sediment and erosion controls as necessary.

**City of Georgetown**  
**Southside Water Treatment Plant**  
**Aboveground Storage Tank Facility Plan**

Temporary soil stabilization practices will include minimizing soil disturbance during construction and hydroseeding of temporary vegetation in disturbed areas. These temporary soil stabilization practices will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. These interim measures will be inspected, maintained, and will remain in place for the duration of the construction phase of the project. These control measures will be planned and implemented in accordance with the Edwards Aquifer Technical Guidance Manual.

Permanent soil stabilization and site restoration will occur prior to project completion. Permanent soil stabilization measures will include the loaming, hydroseeding, and re-vegetation of the disturbed areas using a native grass mix that is properly monitored and managed until long-term vegetation stabilization has occurred.



# Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality

30 TAC §213.9 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.*

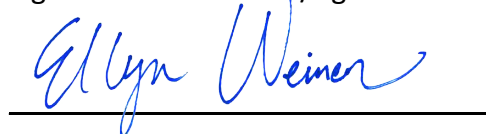
## Signature

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 **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Ellyn Weimer, PE

Date: 10-08-2024

Signature of Customer/Agent:



Regulated Entity Name: Southside Water Treatment Plant

## Exception Request

1. ☒ **Attachment A - Nature of Exception.** A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

## Administrative Information

3. ☒ 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.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

**City of Georgetown**  
**Southside Water Treatment Plant**  
**WPAP Exception**

The City of Georgetown is requesting an exception to the WPAP for the Southside Water Treatment Plant Improvements. The proposed improvements include construction of a new emergency response generator and associated structural pad. The project will also include the construction of all related electrical work, duct banks, cabling, wiring, and utility relocations, which are considered exempt from a WPAP according to TAC 213.

The reason for the WPAP exception request is due to the site's overall impervious cover increasing by a negligible amount of 1.6% or about 1,012 square feet due to the improvements. Currently, the site's overall impervious cover, is 42.1% (0.53 acres), and the site's overall impervious cover after the proposed improvements have been constructed is 43.7% (0.55 acres). The impervious cover increase is only due to the proposed pad for the generator, all other improvements will be buried. Since the impervious cover is increasing by a negligible amount, post-construction stormwater controls will include hydroseeding and re-vegetation of disturbed areas using a native grass mix that will act as linear vegetation strips in the long run to protect surface water quality.



**City of Georgetown**  
**Southside Water Treatment Plant**  
**Exception Request**

Water quality protection will be ensured on the Southside Water Treatment Plant site. The project site is on relatively flat land. The site's topography minimizes the potential for off-site runoff to flow onto and across the project site.

The sites overall impervious cover will be increasing by a negligible 1.5% due to the improvements. Currently, the site's overall impervious cover is 42.1% (0.53 acres), and the site's overall impervious cover after the proposed improvements have been constructed is 43.6% (0.55 acres). The impervious cover increase is only due to the pad for the generator, all other improvements will be buried.

Water Quality Impacts (Post Development)

The volume of on-site generated stormwater runoff is determined from the size of the drainage area, average annual rainfall, and percent impervious cover.

$$P_v = DA \times P_d \times R_v$$

Where:  $P_v$  = annual runoff volume (cubic feet)

$DA$  = drainage area (sq ft)

$P_d$  = average annual precipitation depth (in)

$R_v$  = runoff coefficient =  $0.546(IC)^2 + 0.328(IC) + 0.030$

Runoff Coefficients ( $R_v$ ):

$$R_v = 0.546(0.53)^2 + 0.328(0.53) + 0.030 = \underline{0.36} \text{ (pre-development)}$$

$$R_v = 0.546(0.55)^2 + 0.328(0.55) + 0.030 = \underline{0.38} \text{ (post-development)}$$

Existing Annual Runoff Volume (PreV)

$$P_v = 6.30 \times (43,560) \times 32/12 \times 0.36 = 263,450 \text{ cf/yr}$$

Proposed Annual Runoff Volume (PostV)

$$P_v = 6.30 \times (43,560) \times 32/12 \times 0.38 = 278,078 \text{ cf/yr (a 14,637 cf/yr increase)}$$

Water Quality Impacts

Required Load Reduction

$$L = 27.2 \times (An \times P)$$

$P$  = precipitation (inches)

$An$  = net increase in Impervious Area (acres)

Total Load Reduction

$$L = 27.2 \times (0.02 \times 32) = 17.4 \text{ lbs/year TSS}$$

*Attachment B*  
*Documentation of Equivalent Water Quality Protection*

The project's design calculations estimate the water quantity and water quality impacts that will be caused by the proposed project's construction. The pad will add negligible increase in loading from the site that will be handled by hydroseeding and reloaming the site using a native grass mix that will act as a linear vegetation strip in the long run to protect surface water quality.



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

I Chris Pousson,  
Print Name  
CIP Manager,  
Title - Owner/President/Other  
of Georgetown,  
Corporation/Partnership/Entity Name  
have authorized Ellyn Weimer  
Print Name of Agent/Engineer  
of CDM Smith, 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:

[Signature]  
Applicant's Signature

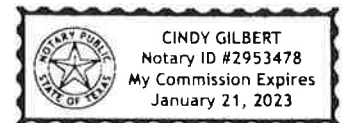
10-25-21  
Date

THE STATE OF Texas §  
County of Williamson §

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

GIVEN under my hand and seal of office on this 25 day of October, 2021.

Cindy Gilbert  
NOTARY PUBLIC  
Cindy Gilbert  
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 1/21/2023



# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Southside Water Treatment Plant

Regulated Entity Location: 2706 S Austin Avenue, Georgetown, TX 78626

Name of Customer: City of Georgetown

Contact Person: Chris Pousson

Phone: (512) 930-8162

Customer Reference Number (if issued): CN 600412043

Regulated Entity Reference Number (if issued): RN \_\_\_\_\_

### Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

### San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

### Site Location (Check All That Apply):

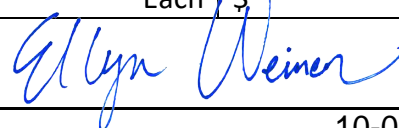
☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	1 Tanks	\$ 650
Piping System(s)(only)	Each	\$
Exception	1 Each	\$ 500
Extension of Time	Each	\$

Signature: \_\_\_\_\_



10-08-2024

1 of 2

Date: \_\_\_\_\_

## Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

### ***Water Pollution Abatement Plans and Modifications***

#### ***Contributing Zone Plans and Modifications***

<b><i>Project</i></b>	<b><i>Project Area in Acres</i></b>	<b><i>Fee</i></b>
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

#### ***Organized Sewage Collection Systems and Modifications***

<b><i>Project</i></b>	<b><i>Cost per Linear Foot</i></b>	<b><i>Minimum Fee- Maximum Fee</i></b>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

#### ***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

<b><i>Project</i></b>	<b><i>Cost per Tank or Piping System</i></b>	<b><i>Minimum Fee- Maximum Fee</i></b>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

#### ***Exception Requests***

<b><i>Project</i></b>	<b><i>Fee</i></b>
Exception Request	\$500





# 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

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600412043		RN

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Georgetown					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)  74-6000974	<b>10. DUNS Number</b> (if applicable)  89592372
<b>11. Type of Customer:</b>		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input checked="" type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>	300-1 Industrial Ave				
	<b>City</b>	Georgetown	<b>State</b>	TX	<b>ZIP</b> 78626 <b>ZIP + 4</b> 8445
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
<b>18. Telephone Number</b>		<b>19. Extension or Code</b>		<b>20. Fax Number</b> (if applicable)	

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> <i>(If 'New Regulated Entity' is selected, a new permit application is also required.)</i>							
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information							
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>							
<b>22. Regulated Entity Name</b> <i>(Enter name of the site where the regulated action is taking place.)</i>							
Southside Water Treatment Plant							
<b>23. Street Address of the Regulated Entity:</b>  <i>(No PO Boxes)</i>	2706 S Austin Ave						
	<b>City</b>	Georgetown	<b>State</b>	TX	<b>ZIP</b>	78626	<b>ZIP + 4</b>
<b>24. County</b>	Williamson						

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

<b>25. Description to Physical Location:</b>							
<b>26. Nearest City</b>					<b>State</b>		<b>Nearest ZIP Code</b>
Georgetown					TX		78628
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>							
<b>27. Latitude (N) In Decimal:</b>		30.6897			<b>28. Longitude (W) In Decimal:</b>		-97.6398
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
<b>29. Primary SIC Code</b> (4 digits)		<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)		<b>32. Secondary NAICS Code</b> (5 or 6 digits)	
4941				211310			
<b>33. What is the Primary Business of this entity?</b> <i>(Do not repeat the SIC or NAICS description.)</i>							
Water Treatment Plant							
<b>34. Mailing Address:</b>							
		<b>City</b>		<b>State</b>		<b>ZIP</b>	
<b>35. E-Mail Address:</b>							
<b>36. Telephone Number</b>			<b>37. Extension or Code</b>			<b>38. Fax Number</b> <i>(if applicable)</i>	
( ) -						( ) -	

**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.



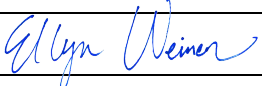
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

## **SECTION IV: Preparer Information**

<b>40. Name:</b>	James Gallagher			<b>41. Title:</b>	Civil Engineer
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>		
( 312 ) 780-7807		(   ) -	gallagherjp@cdmsmith.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.

<b>Company:</b>	CDM Smith Inc		<b>Job Title:</b>	Water Resources Engineer	
<b>Name (In Print):</b>	Ellyn Weimer			<b>Phone:</b>	( 512 ) 652- 5329
<b>Signature:</b>				<b>Date:</b>	10-08-2024