# Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

#### **Our Review of Your Application**

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

#### **Administrative Review**

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

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

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

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

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

#### **Technical Review**

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

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

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

#### **Mid-Review Modifications**

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

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

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

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

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

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

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

1. Regulated Entity Name: Rabbit Hill Pump Station		2. Regulated Entity No.: N/A				
3. Customer Name: City of Georgetown		<b>4. Customer No.:</b> 600412043				
5. Project Type: (Please circle/check one)	New	Modification	Extension		Exception	
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS UST AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-residential	8. Site		e (acres):	0.54
9. Application Fee:	\$1150	10. Permanent BMP(s):				
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks):		1		
13. County:	Williamson	14. Watershed:		South Fork San Gabriel River		

# **Application Distribution**

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

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

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

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	_	_	1
Region (1 req.)	_	_	1 (Austin)
County(ies)	_	_	1 (Williamson)
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	Austin Buda Dripping Springs Kyle Mountain City San Marcos Wimberley Woodcreek	Austin Bee Cave Pflugerville Rollingwood Round Rock Sunset Valley West Lake Hills	Austin Cedar Park Florence _1_Georgetown Jerrell Leander Liberty Hill Pflugerville Round Rock

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

Austin Region

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

Signature of Customer/Authorized Agent

10-08-2024

Date

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

# **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:

Weiner

# **Project Information**

- 1. Regulated Entity Name: Rabbit Hill Pump Station
- 2. County: Williamson
- 3. Stream Basin: San Gabriel River
- 4. Groundwater Conservation District (If applicable):
- 5. Edwards Aquifer Zone:

$\times$	Recharge Zone
	Transition Zone

6. Plan Type:

WPAP
SCS
Modification

AST UST Exception Request

TCEQ-0587 (Rev. 02-11-15)

7. Customer (Applicant):

Contact Person: <u>Chris Pousson</u> Entity: <u>City of Georgetown</u> Mailing Address: <u>300-1 Industrial Ave</u> City, State: <u>Georgetown, Texas</u> Telephone: <u>(512) 930-8162</u> Email Address: <u>chris.pousson@georgetown.org</u>

Zip: <u>78626</u> FAX: <u>(512) 930-3559</u>

8. Agent/Representative (If any):

Contact Person: Ellyn WeimerEntity: CDM Smith, Inc.Mailing Address: 8310-1 N Capital of Texas Hwy, Suite 250City, State: Austin, TxZip: 78731Telephone: 512-652-5329FAX: \_\_\_\_\_\_Email Address: weimerej@cdmsmith.com

9. Project Location:

The project site is located inside the city limits of <u>Georgetown, TX</u>.

The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of <u>Georgetown, TX</u>.

- 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.

980 Rabbit Hill Road, 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:
  - $\boxtimes$  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: <u>TCEQ to coordinate with City of</u> <u>Georgetown for site visit</u>

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:

$\boxtimes$	Area of the site
	Offsite areas
	Impervious cover
	Permanent BMP(s)
$\boxtimes$	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: <u>Pump Station</u>

# **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.



Esri Community Maps Contributors, Austin Community College, Baylor University, City of Austin, County of Williamson,



# U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY



# ROUND ROCK QUADRANGLE TEXAS - WILLIAMSON COUNTY 7.5-MINUTE SERIES





## City of Georgetown

#### **Rabbit Hill Pump Station**

## Aboveground Storage Tank Facility Plan

Rabbit Hill Pump Station project will construct a new emergency backup power generator. The project will also include the construction of all related electrical work and all related cabling, and wiring. Work also includes a concrete pad; civil site work including utility line relocations, pavement restoration, site clearing and restoration, grading; and other work included in the contract documents.

# 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: 03/27/2024

Fax: <u>(512) 306-0974</u>

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

ARK T. ADAM

1835

Signature of Geologist:

Regulated Entity Name: Rabbit Hill Pump Station

3/27/2024

# Project Information

- 1. Date(s) Geologic Assessment was performed: 3/6/2024
- 2. Type of Project:

$\times$	WPAP
	SCS

X	AST
	UST

3. Location of Project:

Rech	na	rŧ	36	2
 <b>T</b>		. •	_	

Transition Zone

] Contributing Zone within the Transition Zone

Zone

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
AwD3 -		
Austin-		
Whitewright		
complex, 2 to		
6 percent		
slopes, eroded	D	0-4.75'

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:  $1'' = \underline{10}'$ Site Geologic Map Scale:  $1'' = \underline{10}'$ Site Soils Map Scale (if more than 1 soil type):  $1'' = \underline{25}'$ 

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  $\underline{1}$  (#) 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.

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

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

# Administrative Information

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



# GEOLOGIC ASSESSMENT FOR THE RABBIT HILL 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

aci consulting

a division of aci group, LLC

Austin (512) 347.9000 • Denver (720) 440.5320

www.aci-consulting.net



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#### March 2024

# Geologic Assessment for the Rabbit Hill 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 Rabbit Hill Pump Station, hereafter referred to as the subject area or site, is located at 1010 Rabbit Hill Road (Rd) in the extraterritorial jurisdiction (ETJ) of Georgetown, Williamson County, Texas (**Attachment A, Figure 1**). Pedestrian investigations of the 0.05-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, LLC.** 

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 0.05 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.

#### <u>Soils</u>

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):

• AwD3 – Austin-Whitewright complex, 2 to 6 percent slopes, eroded

The Austin component makes up 90 percent of the map unit. Slopes are 1 to 3 percent. This component is on ridges on dissected plains. The parent material consists of residuum weathered from chalk. Depth to a root restrictive layer, bedrock, paralithic, is 22 to 39 inches. The natural drainage class is well drained. Water movement in the most restrictive



layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrinkswell 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. 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.

The Whitewright, severely eroded component makes up 35 percent of the map unit. Slopes are 2 to 6 percent. This component is on ridges on dissected plains. The parent material consists of residuum weathered from Austin chalk formation. Depth to a root restrictive layer, bedrock, paralithic, is 11 to 28 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is 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) are as follows:

• Eagle Ford Formation (Kef)

"Shale and silty limestone to calcareous siltstone. Unit consists of three lithologic intervals: a lower calcareous shale, a middle flaggy, silty limestone to calcareous siltstone, and an upper shale. Montmorillonitic clay. Thin (0.4 to 3 inches) bentonite beds may occur in the middle part of the unit (Garner and Young, 1976). About 65 ft thick in Williamson County and about 23 ft thick to the south in Travis County."

Site-Specific Stratigraphic Column

Formation	Members	Thickness (Collins, 1997)					
Eagle Ford Formation	Eagle Ford Shale	25-65 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 interfingered 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 a 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, pump station, and electrical station. 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 Transition Zone. Thus, all karst features identified as sensitive within the project limits have the potential to be non-point recharge features into the Edwards aquifer.

#### Review of Historic Aerials

Aerial photographs from the years 1941, 1953, 1964, 1972, 1981, 1990, 1995, 2004, 2010, 2016, 2022 were reviewed for the site and it was determined the subject area was undeveloped agricultural land until the Rabbit Hill pump station was constructed in 1995



(Attachment C). After the construction of the pump station, the project area has remained unchanged until 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 Transition Zone (EATZ), 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). The nearest CHU for the Georgetown Salamander occurs approximately 4.1 miles northwest 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. One manmade feature was recorded within the subject area. Comprehensive descriptions and recommendations for the feature can be found in **Attachment B**. Please note: Feature numbers were not recorded in sequential order.



#### 7.0 REFERENCES

- Collins, E.W., 1997. *Geologic Map of the Georgetown 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



Rabbit Hill Pump Station Figure 1: Site Location Map aci Project No.: 09-22-216 March 2024 Ν 25 0 25 **∃** Feet E **Subject** Area 1:300 1 inch = 25 ft consulting austin • denver

**Rabbit Hill Pump Station Figure 2: Site Soils Map** 

aci Project No.: 09-22-216 March 2024



Rabbit Hill Pump Station Figure 3: Site Geology Map



Rabbit Hill Pump Station Figure 4: Regional Trend Map

# aci Project No.: 09-22-216 March 2024



# ATTACHMENT B

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

GEOL	OGIC ASSE	PROJECT NAME: Rabbit Hill Pumpstation																		
LOCATION					FE	FEATURE CHARACTERISTICS									EVALUATION PHYSICAL SETTING					
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	1	10	1	1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS (	FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSI	ITIVITY	CATCHMI (ACI	ENT AREA RES)	TOPOGRAPHY
						х	Y	Z		10						<40	<u>&gt;40</u>	<1.6	<u>&gt;1.6</u>	
PT1	30.5880818	-97.6839305	MB	30	Kef	?	?	?	-	0	-	-	?	10	40		Х	Х		Hillside
																_				
																		-		
	* DATUM: NAD 1983 State Plane 4203																			
2A TYPE	TYPE TYPE 2B POINTS										8	A INFILLI	NG							
С	Cave				30		N	None, exposed bedrock												
SC	Solution cavity				20		С	C Coarse - cobbles, breakdown, sand, gravel												
SF	Solution-enlarged	fracture(s)			20		O Loose or soft mud or soil, organics, leaves, sticks, dark color								rs					
F	Fault				20		F	Fines	s, compac	ted cl	ay-rich s	sediment,	soil profile	e, gray or rec	d colors					
0	Other natural bed	rock features			5		V Vegetation. Give details in narrative description							ı						
MB	Manmade feature	in bedrock			30		FS Flowstone, cements, cave deposits													
SW	Swallow hole				30		X Other materials													
SH	Sinkhole				20															

5 30 Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

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



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

Non-karst closed depression

Zone, clustered or aligned features

CD



Rabbit Hill Pump Station Figure 5: Geological Feature Map

# aci Project No.: 09-22-216

March 2024



#### **MM-5**

## GPS: N. 30.5880818 W. -97.6839305

This feature is a cluster of manmade features in bedrock that includes, a pump station, electrical building, and transformers. The feature is located in the Edwards Limestone and is positioned on a gently sloping 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 man-made feature in bedrock located within the subject area is known to the project engineer and does not require any setbacks.



Photo of MM-5



# ATTACHMENT C

Historic Aerial Photographs

Prepared for:

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



# Photographs Williamson County

Historical Rabbit Hill Pump Station (09-22-216) Aerial TX 78626 ES-143569 Friday, February 23, 2024



Date: 2022 Source: USDA









Date: 2010	
Source: USDA	










Date:	990
Source	e: USGS







Source: USGS











Source: AMS







Source: ASCS







# 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 AERIA	AL PHOTOGRAPHS
ES-143569	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: Rabbit Hill Pump Station

## Aboveground Storage Tank (AST) Facility Information

1. Tanks and substance stored:

#### Table 1 - Tank and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1	660	Diesel	Welded Steel
2			
3			
4			

AST Number	AST Number Size (Gallons)		Tank Material		
5					

Total x 1.5 = <u>990</u> Gallons

- 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

Length (L) (Ft.)	Width (W) (Ft.)	Height (H) (Ft.)	L x W x H = (Ft3)	Gallons
20	7.5	10	1,500	11,220

Total: 11,220 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 <u>UL-2085 double-wall carbon steel</u>.
- 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.

 $\boxtimes$  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" = <u>20</u>'.

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.

$\boxtimes$	The 100-year floodplain boundaries are based on the following specific (including date
	of material) sources(s): <u>FEMA FIRM 48491C0290E Effective 12/20/2019</u> .

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 \_\_\_\_\_ (#) 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.  $\square$  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.  $\square$  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.  $\boxtimes$  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 <u>with this</u> <u>application</u>, 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.

### City of Georgetown

### **Rabbit Hill Pump Station**

### 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 receival 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 cowling 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 as 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.



age: AM 2846

### TEXAS COMMISSION OF ENVIRONMENTAL QUALITY POLLUTION ABATEMENT PLAN (WPAP) GENERAL CONSTRUCTION NOTES

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.

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

AREA CODE

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
- SEQUENTIAL SHEET NUMBER DISCIPLINE

G GENERAL C CIVIL

- N PROCESS MECHANICAL AND
- INSTRUMENTATION DIAGRAMS (P&ID) S STRUCTURAL
- E ELECTRICAL
- Z STANDARD DETAILS
  - CITY OF GEORGETOWN, TEXAS

SYSTEM RESILIENCY STAND-BY/BACK-UP POWER

**GEORGETOW** more than welcome

### **GENERAL NOTES**

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.

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.

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.

512-930-3555

CITY OF GEORGETOWN

TO CONSTRUCTION.

9 NO BLASTING WILL BE ALLOWED.

CONTRACTOR'S EXPENSE.

EXPENSE

ENGINEER.

DOWNWARD SLOPE.

OFF-SITE

GEORGETOWN ELECTRIC COMPANY

VERIZON

512-869-2237 (RON McCORMICK AT GEORGETOWN)

512-930-3555

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.

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.

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. CONTRACTOR SHALL PARTICIPATE IN A PRE-CONSTRUCTION MEETING WITH THE OWNER, ENGINEER, AND OTHER AFFECTED PARTIES AT LEAST 48 HOURS PRIOR

3 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

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: INSTALL EROSION CONTROL MEASURES AS INDICATED. SITE VISIT BY CITY OF GEORGETOWN INSPECTOR. AFTER INSPECTOR APPROVAL, BEGIN CONSTRUCTION

4 UPON CONSTRUCTION COMPLETION, RESTORE ALL DISTURBED AREAS. 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

25 ANY EXISTING FENCES, WALLS, AND FACILITIES DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S

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

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

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.



	CONSTRUCTION TPDES GENERAL	GENERAL PERMIT
THE CON MUS	SWP3 MUST BE DEVELOPED AND IMPLEMENTED BY PRIMARY OPERATORS OF SMALL AND LARGE STRUCTION ACTIVITIES AND INCLUDE, AT A MINIMUM, THE INFORMATION DESCRIBED IN THIS SECTION AND T COMPLY WITH THE CONSTRUCTION AND DEVELOPMENT EFFLUENT GUIDELINES IN PART IV. OF THE	(B)
GEN 1. A)	ERAL PERMIT. A SITE OR PROJECT DESCRIPTION, WHICH INCLUDES THE FOLLOWING INFORMATION: A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY:	
B) C) D)	A LIST OF POTENTIAL POLLUTANTS AND THEIR SOURCES; 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; 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 LB. OF THIS GENERAL PERMIT) OCCUR:	(C)
E) F) G)	DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE; A MAP SHOWING THE GENERAL LOCATION OF THE SITE (E.G., A PORTION OF A CITY OR COUNTY MAP); A DETAILED SITE MAP (OR MAPS) INDICATING THE FOLLOWING: PROPERTY BOUNDARY(IES):	(D)
.   .	DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES; AREAS WHERE SOIL DISTURBANCE WILL OCCUR (NOTE ANY PHASING), INCLUDING ANY DEMOLITION	
IV. V.	LOCATIONS OF ALL CONTROLS AND BUFFERS, EITHER PLANNED OR IN PLACE; LOCATIONS WHERE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ARE EXPECTED TO BE USED;	
VI. VII.	LOCATIONS OF CONSTRUCTION SUPPORT ACTIVITIES, INCLUDING THOSE LOCATED OFF-SITE; 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).	IV. V.
VIII.	LOCATIONS WHERE STORMWATER DISCHARGES FROM THE SITE DIRECTLY TO A SURFACE WATER BODY OR A MUNICIPAL SEPARATE STORM SEWER SYSTEM; VEHICLE WASH AREAS: AND	C) The
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	
H)	MAPS THAT COLLECTIVELY INCLUDE THE REQUIRED INFORMATION. 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.	(A) (1)
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) K)	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 WEBPAGE IS ACCEPTABLE); 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	(2)
	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	(3)
M)	FORMAL NOTIFICATION TO TCEQ MUST BE SUBMITTED BY PAPER ON A DELEGATION OF SIGNATORIES FORM. 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. SOUD WASTE STORAGE AND DISPOSAL.	(4)
2.	AND DEWATERING OPERATIONS. 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:	(B)
A) I.	GENERAL REQUIREMENTS 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. (A)
II. 	CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED ACCORDING TO GOOD ENGINEERING PRACTICES, AND THE MANUFACTURER'S OR DESIGNER'S SPECIFICATIONS.	
III. B)	DEBRIS, CONSTRUCTION MATERIALS, AND OTHER POLLUTANTS REQUIRED OF PART IV.D. EROSION CONTROL AND STABILIZATION PRACTICES	(B)
	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 OCCUP 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	(C)
١.	PRACTICES WILL BE IMPLEMENTED. SITE PLANS MUST ENSURE THAT EXISTING VEGETATION AT THE CONSTRUCTION SITE IS PRESERVED WHERE IT IS POSSIBLE. EROSION CONTROL AND STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: ESTABLISHMENT OF TEMPORARY OR PERMANENT VEGETATION, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE DUFFER STRIPS PROTECTION OF EXISTING TREES AND VEGETATION SLOPE TEXTURING	3.
11	TEMPORARY VELOCITY DISSIPATION DEVICES, FLOW DIVERSION MECHANISMS, AND OTHER SIMILAR MEASURES.	A)
11.	THE FULLOWING 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 III.D.1 OF THIS GENERAL PERMIT:	B)
(A) (B)	THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE: AND	, Λ
(C) III.	THE DATES WHEN STABILIZATION MEASURES ARE INITIATED. EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY IN PORTIONS OF THE	4. A)
	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	B)
	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)	C)
(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: WHERE THE IMMEDIATE INITIATION OF VEGETATIVE STABILIZATION MEASURES AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED DUE TO FROZEN CONDITIONS, NON-VEGETATIVE CONTROLS	D)
	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.	E)
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				DESIGNED BY: X	CDM
				DRAWN BY:MANASI K.	Smith
				SHEET CHK'D BY:X	
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REV. NO.	DATE	DRWN	REMARKS	DATE:SEPTEMBER 2024	Tel: (512) 346-1100 TBPE Firm Registration No. F-3043

# ERMIT 150000

RID AREAS, SEMI-ARID AREAS, OR DROUGHT-STRICKEN AREAS, AS THEY ARE DEFINED IN PART I.B. HIS GENERAL PERMIT, WHERE THE IMMEDIATE INITIATION OF VEGETATIVE STABILIZATION MEASURES R CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED OR IS PRECLUDED BY ARID DITIONS, OTHER TYPES OF EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED AT SITE AS SOON AS PRACTICABLE. WHERE VEGETATIVE CONTROLS ARE INFEASIBLE DUE TO ARID DITIONS, AND WITHIN FOURTEEN (14) CALENDAR DAYS OF A TEMPORARY OR PERMANENT CESSATION CONSTRUCTION ACTIVITY IN ANY PORTION OF THE SITE, THE OPERATOR SHALL IMMEDIATELY INSTALL -VEGETATIVE EROSION CONTROLS IN AREAS OF THE CONSTRUCTION SITE WHERE CONSTRUCTION /ITY IS COMPLETE OR HAS CEASED. IF NON-VEGETATIVE CONTROLS ARE INFEASIBLE, THE OPERATOR INSTALL TEMPORARY SEDIMENT CONTROLS AS REQUIRED IN PART III.F.2.(B)III.(C) BELOW. REAS WHERE NON-VEGETATIVE CONTROLS ARE INFEASIBLE, THE OPERATOR MAY ALTERNATIVELY ZE TEMPORARY PERIMETER CONTROLS. THE OPERATOR MUST DOCUMENT IN THE SWP3 THE REASON STABILIZATION MEASURES ARE NOT FEASIBLE, AND MUST DEMONSTRATE THAT THE PERIMETER TROLS WILL RETAIN SEDIMENT ON SITE TO THE EXTENT PRACTICABLE. THE OPERATOR MUST CONTINUE NSPECT THE BMPS AT THE FREQUENCIES ESTABLISHED IN PART III.F.8.(C) FOR UNSTABILIZED SITES. REQUIREMENT FOR PERMITTEES TO INITIATE STABILIZATION IS TRIGGERED AS SOON AS IT IS KNOWN

REASONABLE CERTAINTY THAT CONSTRUCTION ACTIVITY AT THE SITE OR IN CERTAIN AREAS OF THE WILL BE STOPPED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS. IF THE INITIATION OR COMPLETION EGETATIVE STABILIZATION IS PREVENTED BY CIRCUMSTANCES BEYOND THE CONTROL OF THE AITTEE, THE PERMITTEE MUST EMPLOY AND IMPLEMENT ALTERNATIVE STABILIZATION MEASURES DIATELY. WHEN CONDITIONS AT THE SITE CHANGES THAT WOULD ALLOW FOR VEGETATIVE ILIZATION, THEN THE PERMITTEE MUST INITIATE OR COMPLETE VEGETATIVE STABILIZATION AS SOON AS TICABLE.

STABILIZATION MUST BE ACHIEVED PRIOR TO TERMINATION OF PERMIT COVERAGE. DOES NOT EXPECT THAT TEMPORARY OR PERMANENT STABILIZATION MEASURES TO BE APPLIED TO AS THAT ARE INTENDED TO BE LEFT UN-VEGETATED OR UN-STABILIZED FOLLOWING CONSTRUCTION DIRT ACCESS ROADS, UTILITY POLE PADS, AREAS BEING USED FOR STORAGE OF VEHICLES, PMENT. OR MATERIALS).

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

WITH DRAINAGE AREAS OF TEN (10) OR MORE ACRES MENTATION BASIN(S) OR IMPOUNDMENTS

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

MENTATION BASIN MUST PROVIDE AT LEAST 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED FINAL STABILIZATION OF THE SITE. SEDIMENTATION BASIN OR IMPOUNDMENT IS NOT FEASIBLE, THEN THE PERMITTEE SHALL PROVIDE VALENT CONTROL MEASURES UNTIL FINAL STABILIZATION OF THE SITE. IN DETERMINING WHETHER

ALLING A SEDIMENT BASIN OR IMPOUNDMENT IS FEASIBLE, THE PERMITTEE MAY CONSIDER FACTORS AS SITE SOILS, SLOPE, AVAILABLE AREA, PUBLIC SAFETY, PRECIPITATION PATTERNS, SITE GEOMETRY, VEGETATION, INFILTRATION CAPACITY, GEOTECHNICAL FACTORS, DEPTH TO GROUNDWATER, AND OTHER AR CONSIDERATIONS. THE PERMITTEE SHALL DOCUMENT THE REASON THAT THE SEDIMENT BASINS OR UNDMENTS ARE NOT FEASIBLE, AND SHALL UTILIZE EQUIVALENT CONTROL MEASURES, WHICH MAY JDE A SERIES OF SMALLER SEDIMENT BASINS OR IMPOUNDMENTS.

ISS INFEASIBLE, WHEN DISCHARGING FROM SEDIMENTATION BASINS AND IMPOUNDMENTS, THE AITTEE SHALL UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE. METER CONTROLS: AT A MINIMUM, SILT FENCES, VEGETATIVE BUFFER STRIPS, OR EQUIVALENT MENT CONTROLS ARE REQUIRED FOR ALL DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA, FOR THOSE SIDE SLOPE BOUNDARIES DEEMED APPROPRIATE AS DICTATED BY INDIVIDUAL SITE DITIONS.

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

RNATIVELY, A SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF 1 A 2-YEAR, 24-HOUR STORM FROM EACH DISTURBED ACRE DRAINED MAY BE UTILIZED. WHERE FALL DATA IS NOT AVAILABLE OR A CALCULATION CANNOT BE PERFORMED, A TEMPORARY OR IANENT SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED MAY BE /IDED. IF A CALCULATION IS PERFORMED, THEN THE CALCULATION SHALL BE INCLUDED IN THE SWP3. EDIMENTATION BASINS OR IMPOUNDMENTS ARE USED, THE PERMITTEE SHALL COMPLY WITH THE JIREMENTS IN PART IV.F. OF THIS GENERAL PERMIT. RIPTION OF PERMANENT STORMWATER CONTROLS

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

ITTEES AUTHORIZED UNDER THE PERMIT FOR SMALL CONSTRUCTION ACTIVITIES ARE RESPONSIBLE THE INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES PRIOR TO FINAL ILIZATION OF THE SITE: OR

/ITTEES AUTHORIZED UNDER THE PERMIT FOR LARGE CONSTRUCTION ACTIVITIES ARE RESPONSIBLE THE INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES PRIOR TO FINAL ILIZATION OF THE SITE AND PRIOR TO SUBMISSION OF AN NOT.

R REQUIRED CONTROLS AND BMPS

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/ITTEES SHALL MINIMIZE, TO THE EXTENT PRACTICABLE, THE OFF-SITE VEHICLE TRACKING OF MENTS AND DUST. THE SWP3 SHALL INCLUDE A DESCRIPTION OF CONTROLS UTILIZED TO CONTROL GENERATION OF POLLUTANTS THAT COULD BE DISCHARGED IN STORMWATER FROM THE SITE. SWP3 MUST INCLUDE A DESCRIPTION OF CONSTRUCTION AND WASTE MATERIALS EXPECTED TO BE RED ON-SITE AND A DESCRIPTION OF CONTROLS TO MINIMIZE POLLUTANTS FROM THESE MATERIALS. SWP3 MUST INCLUDE A DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IN DISCHARGES OF MWATER FROM ALL AREAS OF THE CONSTRUCTION SITE WHERE CONSTRUCTION ACTIVITY, INCLUDING STRUCTION SUPPORT ACTIVITIES, WILL BE LOCATED, AND A DESCRIPTION OF CONTROLS AND SURES THAT WILL BE IMPLEMENTED AT THOSE SITES TO MINIMIZE POLLUTANT DISCHARGES. AITTEES SHALL PLACE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG THE TH OF ANY OUTFALL CHANNEL (I.E., RUNOFF CONVEYANCE) TO PROVIDE A NON-EROSIVE FLOW CITY FROM THE STRUCTURE TO A WATER COURSE, SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL RACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED.

/ITTEES SHALL DESIGN AND UTILIZE APPROPRIATE CONTROLS IN ACCORDANCE WITH PART IV. OF THIS AIT TO MINIMIZE THE OFFSITE TRANSPORT OF SUSPENDED SEDIMENTS AND OTHER POLLUTANTS IF IT ECESSARY 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; II. ENSURE THAT DISPOSAL OF SUCH MATERIALS IS PERFORMED IN COMPLIANCE WITH APPLICABLE STATE,

FEDERAL, AND LOCAL LAWS.

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

	1" ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY	ELLYN J. WEIM B. 142405 07. 4/CENSED 09-17-202	eine 75 MER MER
CIVIL		PROJECT NO. FILE NAME: ()	742 00G03NFNT
GENERAL CONSTRUCT	SHEET NO.	3	

#	NUMBER	CGFB	CEMENTITIOUS GLASS FIBER BOARD	E	EMERGENCY WATER		GPD	GALLONS PER DAY	MAS	MASONRY	PL	PROPERTY LINE
	AND ANGLE	CH	CHLORINE GAS (VACUUM) CONCRETE HARDENER	EB	EXTERING AIR TEMPERATURE EXPANSION BOLT		GPM GR CRAV	GALLONS PER MINUTE GRADE CRAVITY	MATL MAU MAY	MATERIAL MAKE UP AIR UNIT MAYIMUM	PLC PLK PLP	PROGRAMMABLE LOGIC CONTROLLER PLANK POLYPHOSPHATE
⊆ 2S1W	AI TWO SPEED, ONE WINDING	CHAM	CHAMFER CHANNEL	ECC	EMPTY CONDUIT ECCENTRIC	_`	GRAV GRC	GRAVITY GRIT REMOVAL CHAMBER	MAX MB	MAXIMUM MACHINE BOLTS	PLP PLS	PLASTIC LINED STEEL
2S2W 2S2W	TWO SPEED, TWO WINDING TWO SPEED, TWO WINDING	CHKD CHL	CHECKERED CHLORINATOR	ED—F ED—O	EQUIPMENT DRAIN (FLUSH TYP EQUIPMENT DRAIN (EXTENDED	E) TYPE-OPEN)	GRP GRS	GRIT REMOVAL PUMPS GALVANIZED RIGID STEEL	MBH MBS	MANUAL BAR SCREEN	PLT PLW	PLANT PLANT WATER
D A	AIR (COMPRESSED) AMPERE	CHR CI	CHLOROPRENE RUBBER (NEOPRENE) CAST IRON	ED-S EDH	EQUIPMENT DRAIN (EXTENDED ELECTRIC DUCT HEATER	TYPE-SEALED)	GRTG GSC	GRATING GRIT SCREEN	MC MCC	STEEL MISCELLANEOUS CHANNEL MOTOR CONTROL CENTER	PLYWD PM	PLYWOOD PRESSED METAL
	AIR CONDITIONING AFRATION AIR	CIGL CIP	CAST IRON PIPE GLASS LINED CAST IN PLACE	EF FFF	EACH FACE FFFLUENT		GSKT GV	GASKET GATE VALVE	MCJ ME	MASONRY CONTROL JOINT METHANOL	PNL	PANEL PUSH ON JOINT
	ANCHOR BOLT	CIR		EFM	EFFLUENT FLOW METER	EM	GYP	GYPSUM	MEAS	MEASURE	POLYE	POLYETHYLENE
ABA ABC	ASBESTOS CEMENT	CIS	CAST IRON SOIL PIPE	EG	EXHAUST GRILLE				MEGH	MEGRANE MEMBRANE	POLIP	POLYOXYMETHYLENE
D ABDN C ABS	ABANDON ACRYLONITE-BUTADIENE-STYRENE	CIU	CAST IRON PIPE UNLINED CONSTRUCTION JOINT	EGC EGO	EQUIPMENT GROUNDING CONDU ELEVATED GEAR OPERATOR	JCTOR			MEW MFD	MOTORIZED EFFLUENT WEIRS	POT POTH	POINT OF TANGENCY POTASSIUM HYDROXIDE
Z ABV	ABOVE AIR CONDITIONING CONDENSING UNIT	CKT CL	CIRCUIT CENTERLINE	EL ELEC	ELEVATION ELECTRIC(AL)		HAS HB	HEADED ANCHOR STUD HOSE BIBB	MFG MFR	MANUFACTURING MANUFACTURER	POTP PP	POTASSIUM PERMANGANATE POWER POLE
	AIR CUSHION CHECK VALVE	CL2 CL2G	CHLORINE SYSTEM CHLORINE (GAS)	ELEV EMERG	ELEVATOR		HC HCI	HEATING COIL HYDROCHLORIC ACID	MG/L MGD	MILLIGRAMS PER LITER MILLION GALLONS PER DAY	PPM PR	PARTS PER MILLION
	ASBESTOS CEMENT PIPE	CL2L	CHLORINE (LIQUID)	EMG			HD	HEAVY DUTY	MH	MANHOLE METAL HOSE	PR	PRETREATED WATER SYSTEM, PAIR
- ACT - ACU	ACCOUNTAL TILE	CL2V	CHLORINE VENT	ENGR	ENTERING, ENTRANCE		HDR	HIGH DENSITY POLITEIHILENE HEADER	MIN	MINIMUM	PRCST	PRECAST
- AD D ADDL	ACCESS DOOR ADDITIONAL	CLF CLG	CURRENT LIMITING FUSE CEILING	EOP EP	EDGE OF PAVEMENT ELECTRICAL PANEL		HDWD HDWR	HARDWOOD HARDWARE	MIS	MECHANICAL INFLUENT SCREEN MISCELLANEOUS	PREFAB PRESS	PRE-FABRICATED PRESSURE
ADH ADJ	ADHESIVE ADJUSTABLE, ADJUST	CLJ CLKG	CONTROL JOINT CAULKING	EP EPDM	ELECTROPNEUMATIC ETHYLENE PROPYLENE RUBBER	R	HEX HEAC	HEXAGON HARNESSED FLANGED ADAPTOR CC	MJ DUPLING ML	MECHANICAL JOINT MIXED LIQUOR	PREST PRIM	PRESSURE TREATED PRIMARY
ADPT		CLR CLW	CLEAR CLARIFIED WATER (CLARIFIER FEELLIENT)	EQ FOPT	EQUAL (LY) FOUIPMENT		HGR	HANGER	MO	MASONRY OPENING MOTOR OPERATED DAMPER		PREMOLDED
AFF	ABOVE FINISHED FLOOR	CM	CORRUGATED METAL	EQUIV			HH	HANDHOLE	MON	MONUMENT	PRW	PRESSURE REALE
AFG AGG	AGGREGATE	CMP	CORRETE MONOMENT CORRUGATED METAL PIPE	ES	EACH SIDE		HM HOA	HOLLOW METAL HAND-OFF-AUTO	MPH	MILES PER HOUR	PS PS	PUMP STATION
∠ AHP ⊒ AHU	AIR HORSEPOWER AIR HANDLING UNIT	CMU CND	CONCRETE MASONRY UNITS CONDUIT	ES ESMT	ELECTRIC SUPPLY EASEMENT		HOR HP	HORIZONTAL HIGH POINT	MR MRPP	MOISTURE RESISTANT METAL REINFORCED PLASTIC PIPE	PSC PSE	PRIMARY SCUM PNEUMATIC SCUM EJECTORS
= Al ⊃ AL	ANALOG INPUT, AIR INSTRUMENT ALUMINUM	CNR CNS	CONDENSATE RETURN CONDENSATE SUPPLY	ESP	EFFLUENT SAMPLE PUMPS ESTIMATE (D)		HP HPA	HORSE POWER HIGH PRESSURE AIR	MSG MTD	MOTORIZED SLUICE GATES MOUNTED	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
AL VT	ALUM VENT ALUM SOLUTION	CO COL	CLEAN OUT COLUMN	ETC			HR	HANDRAIL HIGH SERVICE	MTG MTL	MOUNTING METAL	PSIA PSIG	POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAGE
ALSS	ALUM SYSTEM	COMB	COMBINATION	EV			HS	HIGH SERVICE HIGH STRENGTH	MV	MUD VALVE	PSP	PLANT SITE PUMP
- ALT	ALTITUDE	COMP	COMPRESSIBLE	EVA EVAP	ELECTRICAL GEAR ACTUATOR EVAPORATOR (ION)		HSM HTHW	HIGH SERVICE MAIN HIGH TEMPERATURE HOT WATER			PT	POTENTIAL TRANSFORMER
ALU ALUM	ALUMINUM SULFAIE ALUM (CHEMICAL)	COMP JT CONC	COMPRESSION JUINT CONCRETE	EW EWC	EACH WAY ELECTRIC WATER COOLER		HVA HVAC	HYDRAULIC VALVE ACTUATOR HEATING, VENTILATING & AIR CONE	DITIONING N	NORTH	PID PTFE	
AMG AML	AMMONIA GAS AMMONIA LIQUID	COND CONN	CONDUCTIVITY CONNECTION	EXA FXH	EXHAUST AIR EXHAUST		HW HWA	POTABLE HOT WATER HIGH WATER ALARM	N2		PTW PUD	PROTECTED WATER PERFORATED UNDERDRAIN
ANOD	ANODIZE ANALOG OUTPUT	CONST CONT	CONSTRUCTION CONTINUOUS	EXP	EXPANSION EXPOSED		HWL HWR	HIGH WATER LEVEL	NACL	NITRILE RUBBER	PUE PV	PUBLIC UTILITY EASEMENT PLUG VALVE
	ACCESS PANEL	COR	CORNER(S) CORRUGATED		EXPANSION JOINT		HWS	HOT WATER SUPPLY	NC NCDPP	NURMALLY CLOSED NON-CLOG DRY PIT PUMP	PVC PVI	POLYVINYL CHLORIDE
APPRUX AR	ACID RESISTANT	CPLG		EXST	LAISTING		nww Hz	HERTZ	NEC NEUT	NATIONAL ELECTRIC CODE NEUTRAL	PVMT	PAVEMENT
ARCH ARND	AROUND	CPP CPT	CONTROL POWER TRANSFORMER						NF	NEAR FACE NOT IN CONTRACT	PVRV PW	PRESSURE VACUUM RELIEF VALVE POTABLE WATER
ARV AS	AIR RELEASE VALVE ACTIVATED SLUDGE, AIR SUPPLY	CPVC CR	CHLORINATED POLYVINYLCHLORIDE PIPE CHLORINE RESIDUAL	F	FAHRENHEIT OR FILTRATE				NO	NORMALLY OPEN OR NUMBER	PWD PWL	PRIMARY WATER DRAIN PEAK WATER LEVEL
ASPH	ASPHALT ASSOCIATION	CR CRS	CONTROL RELAY COURSE (S)	f´c f <b>`</b> m	MASONRY PRISM STRESS	.55			NOM	NATIONAL OCEANOGRAPHIC SURVEY	PWM	POTABLE WATER METER
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	CS CS	CARBON STEEL	FAB FAM	FABRICATE (OR, ED) FIRST ANOXIC MIXERS		IA IAW	INSTRUMENT AIR IN ACCORDANCE WITH	NPOL NPT	NONIONIC POLYMER AMERICAN NATIONAL TAPER PIPE THREAD		
ATS	AUTOMATIC TRANSFER SWITCH	CSK	COUNTERSINK	FAP FAPC	FILTRATE AIR PURGE FILTER AND POLYMER (CONCEN	NTRATED)	ID IF	INSIDE DIAMETER	NPW NR	(NON—POTABLE) WATER NATURAL RUBBER		
Z AUTO Z AUX	AUTOMATIC AUXILIARY	CSM	CHLORINE SULPHONILE POLYETHYLENE (HYPALON)	FAPD	FILTER AND POLYMER (DILUTED	))	IF	INSIDE FACE	NRS NSG	NON-RISING STEM NON-SHRINK GROUT		
AV AVG	ACID VENT AVERAGE	CSMP CSTG	CAUSTIC METERING PUMPS CASTING	FBO	FURNISHED BY OTHERS		IIR	ISOBUTENE ISOPRENE (BUTYL) RUI	BBER NTS	NOT TO SCALE	QT QTB	QUARRY TILE QUARRY TILE BASE
AW AWG	ACID WASTE AMERICAN WIRE GALIGE	CT CT	CERAMIC TILE CURRENT TRANSFORMER	FBR FC	FOLL VOLTAGE REVERSING		IN INF	INCH INFLUENT			QTY	QUALITY OR QUANTITY
AWL	AVERAGE WATER LEVEL	CTG CTR	COATING CENTER (ED)	FC FCA	FLEX CONNECTION FLANGED COUPLING ADAPTOR		INSTR INSUL	INSTRUMENT (TATION) INSULATION	0/E	OR EQUAL	R	RISER(S)
AX	CURRENT TRANSDUCER	CTU	CENTRAL TELEMETRY UNIT	FCC FD	FILTER CONTROL CONSOLE FLOOR DRAIN		INT IPB	INTERIOR	02 0A	OXYGEN (GAS) OUTSIDE AIR	R+S R/W	BACKER ROD & SEALANT RIGHT-OF-WAY
กิ		CU	CUBIC	FDMPR	FIRE DAMPER		IRB	IRON ROD BOUNDARY	OC OCB	ON CENTER OR ODOR CONTROL ODOR CONTROL BLOWER	RA	RETURN AIR BADIUS
		CU FT CU YD	CUBIC FOOT (FEET) CUBIC YARD	FE			IRR	INTERNAL RECYCLE PUMPS	OCS OCW	ODOR CONTROL SCRUBBER	RAD	RETURN ACTIVATED SLUDGE
5 BCP	BLOWER CONTROL PANEL	CUH CUP	CABINET UNIT HEATER COPPER PIPE	FE Fe CL3	FERRIC CHLORIDE		ISOL	ISOLATOR, ISOLATION	OD OF	OUTSIDE DIAMETER	RB RC	RUBBER BASE REINFORCED CONCRETE
BCV BD	BALL CHECK VALVE BOARD	CV CV-A	CHECK VALVE CHECK VALVE (AIR CLISHION)	FES FF	FERROUS SULFATE FACTORY FINISH				OF	OVERHEAD ELECTRIC	RCC RCP	REINFORCED CONCRETE CYLINDER REINFORCED CONCRETE PIPE
BDD BEL	BACKDRAFT DAMPER BELOW	CV-H	CHECK VALVE (HYDRAULIC CUSHION)	FF FGI	FAR FACE FIBERGLASS				OFF OG	OFFICE OZONE OFF GAS	RCW RCWM	RECYCLE WATER RECLAIMED WATER MAIN
BEV BF	BEVEL (ED) BLIND FLANGE	CW	CLOCKWISE	FH	FIRE HYDRANT FLATHEAD MACHINE SCREW				OH OL	OVERHEAD (DOOR) OVERLOAD	RD	ROOF DRAIN
BFP	BELT FILTER PRESS	CW CWO	COAGULATED WATER CLEARWELL OVERFLOW	FHMS	FLATHEAD WOOD SCREW				OPER OPNG	OPERATOR OPENING	RECT	RECEPTACLE
BGO	BURIED GEAR OPERATOR	CWR CWS	COOLING WATER RETURN COOLING WATER SUPPLY	FI FIG	FIGURE		JB	JUNCTION BOX	OPP OPP HD	OPPOSITE OPPOSITE HAND	REF	REFERENCE/REFER
≤ BHP <sup>€</sup> BITUM	BRAKE HORSEPOWER BITUMINOUS			FIN FINW	FINISH(ED) FINISHED WATER		JCT	JUNCTION	OPT	OPTION(AL) OXIDIZED SLUDGE	REF REG	ROOF EXHAUST FAN REGISTER
BL BLDG	BASELINE BUILDING			FL FL	FIRE LINE FLASHING		JT FLR	JOINT FILLER	OT OT	OVERHEAD TELEPHONE	REINF REQD	REINFORCE (D, ING) REQUIRED
BLK BLKG	BLOCK BLOCKING			FL	FLOOR FUSIBLE LINK DAMPER				OV	OVERHEAD TELEVISION OVER	RESID	RESIDUAL
BM BOT	BENCHMARK	Ч	PENNY	FLEX	FLEXIBLE		KGV	KNIFE GATE VALVE	OVF OVHD	OVERFLOW OVERHEAD	RF	ROOF FAN
BOT BP	BOOSTER PUMP	DAF	DISSOLVED AIR FLOTATION	FLG	FLOORING		KO	KNOCKOUT	OZA OZE	OZONATED AIR OZONE EXHAUST	RG	ROOFING RETURN GRILLE
D BPRV BRG	BACK PRESSURE REGULATING VALVE BEARING	DAP	DIAPHRAGM AIR PURGE	FLM FLP	FLASH MIXER FAIL LAST POSITION		L	LINE OR STRUCTURAL ANGLE DESI	GNATION		RGH RH	ROUGH RELATIVE HUMIDITY
BRK BRS	BRICK BRASS	DAV DB	DIAPHRAGM AIR VENT DECIBEL	FLR FLW	FILLER FILTERED WATER		LA LAB	LIGHTNING ARRESTER LABORATORY	PA		RH RIS	RUBBER HOSE RUBBER IN SHEAR
BRZ	BRONZE BLENDED SLUDGE	DB DC	DRY BULB DIRECT CURRENT	FM FO	FORCE MAIN FAIL OPEN		LAD LAM	LADDER LAMINATED	PA PAC	PULTAMIDE PLANT AIR COMPRESSOR	RJ RJ	RESTRAINED JOINT
BS	BOTH SIDES		DISTRIBUTED CONTROL UNIT	FO	FUEL OIL		LAT LAV	LEAVING AIR TEMPERATURE LAVATORY	PACS PAG	POWDER ACTIVATED CARBON SLURRY AIRGAP PROTECTED WATER	RL	RAIN LEADER
BSP	DASEMENI BLACK STEEL PIPE	DEPT	DEPARTMENT	FOR	FUEL OIL RETURN		LB	POUND	PB PB	POLYBUTYLENE PUSHBUTTON	RLDI	RUBBER LINED DUCTILE IRON
BTU G BTWN	BRITISH THERMAL UNIT BETWEEN	DF		FOS	FLAT ON TOP		LCP	LOCAL CONTROL PANEL	PBAV PBTPS	PLASTIC BALL VALVE PECAN BRANCH TRANSFER PUMP STATION	RLG RM	RAILING ROOM
BUR BV	BUILT UP ROOF (ING) BALL VALVE	DG DI	DIGESTER GAS DIGITAL OR DISCRETE INPUT	FOV FP	FUEL OIL VENT FILTER PRESS		LCW LE	LABURATURY CULD WATER	PC	POINT OF CURVE (ATURE)	RMS RND	ROOT MEAN SQUARE ROUND
Ó BWR BWS	BACKWASH RETURN BACKWASH SUPPLY	DI DIA	DUCTILE IRON DIAMETER	FPM FPT	FEET PER MINUTE FEMALE PIPE THREAD		LF LG	LINEAR FEET LONG	PCC	POINT OF COMPLEX CURVATURE	RO ROT	ROUGH OPENING ROTAMETER
BWW	BACKWASH WATER BYPASS	DIAG DIFF	DIAGONAL DIFFUSER	FR	FRAME FIBERGLASS REINFORCED DLAS	TIC	LHW LIMF	LABORATORY HOT WATER LIME. DRY	PCCP PCF	POUND PER CUBIC FOOT	ROW	RIGHT OF WAY REDUCED PRESSURE BACKELOW PREVENTOR
	66710		DUCTILE IRON GLASS LINED	FRR	FLUORINE RUBBER(viton)		LKR		PCTFE PCV	POLYCHLOROTRIFLUORETHYLENE PRESSURE CONTROL VALVE	RPM	REVOLUTIONS PER MINUTE
Стос	CENTER TO CENTER COMPRESSED AIR	DIP	DUCTILE IRON PIPE	FS	FINE SCREEN FERRIC SULFATE (CONCENTRAT	ED)	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	PD PE	PUMP DISCHARGE PLAIN END	RR	RAILROAD RETURN REGISTER
	CABINET COMPRESSED AIR DRIED	DIR DISCH	DISCHARGE	FSD FT	FERRIC SULFATE(DILUTED) FEET/FOOT		LNTL LOC	LINTEL LOCATION/LOCATED	PE PFI	PLANT EFFLUENT PRIMARY EFFLUENT	RS RSL	RAW SEWAGE RAW SLUDGE
	CAPACITY	DISP DIV	DISPENSER DIVISION	FTG FTR	FOOTING/FITTING FINNED TUBE RADIATION		LONG L P	LONGITUDINAL LIGHT POLF	PEP	PLANT EFFLUENT PUMP	RSM RSP	RETURN ACTIVATED SLUDGE METER
CAPC	COAGULANT AID POLYMER (CONCENTRATED) COAGULANT AID POLYMER (DILUTED)	DIW	DEIONIZED WATER	FTW	FILTER TO WASTE		LP	LOW POINT	PERF	PERFORATED	RST	RIGID STEEL
CARP CATV	CABLE TV CABLE TV	DN	DOWN DISSOLVED OXYCEN	G GA	NATURAL GAS GAGE			LOW PRESSURE AIR	PF PF	PHENOL-FORMALDEHYDE POWER FACTOR	RT	RUBBER TILE
CB CB	CATCH BASIN CIRCUIT BREAKER	DO	DISSOLVED OXIGEN DITTO	GALV			LPNL LPV	LIGHTING PANEL LUBRICATED PLUG VALVE	PFM PGA	POWER FACTOR METER PURGE AIR (LIME SILOS)	RT RTU	RUNNING TIME METER REMOTE THERMAL UNIT
CC CC	CLOSED LOOP COOLING SYSTEM COOLING COIL, CONTROL CONDUIT	DOI DP	DOUR INTERLOCK DAMPROOFING	GALVS	GALVANIZED STEEL PIPE		LR LS	LONG RADIUS LIFT STATION	PGC	PISTA GRIT CHAMBERS	RVNR RW	REDUCE VOLTAGE NON-REVERSING RAW WATER
	CENTRAL CONTROL CONSOLE CHLORINE CYLINDER SCALF	DR DR	DRAIN DRIVE	GAS	GAS LINE GROOVED COUPLING (SHOULDE	RED ENDS)	LSM LSYS	LOW SERVICE MAIN LIME SYSTEM	PH PH		RWL	RAIN WATER LEADER
CCW	COUNTER CLOCKWISE	DRW DSCI	DECANT RETURN WATER DEWATERED SLUDGE CAKE	GCR GEC	GRIT CONCENTRATOR GROUNDING ELECTRODE CONDU	JCT	LT	LEFT LIGHT (S)	PHC PHD	PHOSPHATE (CUNCENTRATED) PHOSPHATE (DILUTED)	S	SIGN
	CLARIFIER DRIVE MECHANISMS	DT		GEN GFI	GENERATOR GROUND FAULT INTERLIPTER				PHW PI	PROTECTED HOT WATER POINT OF INTERSECTION	S SO2C	STEEL S-SHAPE DESIGNATION
CEM	CEMENT CENTRIFUGAL	DW	PROCESS STRUCTURE DRAIN WATER	GI	GALVANIZED IRON		LVG LW	LEAVING LIGHTWEIGHT	PINF PIP	PRIMARY INFLUENT POLYETHYLENE PIPE	S026	SULFUR DIOXIDE (GAS) SULFUR DIOXIDE SOLUTION
CF CFM	COMPRESSIBLE FILLER CUBIC FEET PER MINUTE	DWG DWL	DRAWING DOWEL	GLB	GLASS GLASS BLOCK		LWA LWL	LOW WATER ALARM LOW WATER LEVEL	PJF	PREMOLDED JOINT FILLER	SA SAC	SUPPLY AIR SULFURIC ACID (CONCENTRATED)
CFS CG	CUBIC FEET PER SECOND CHLORINE GAS (PRESSURE)	DWTR	DEWATER(ED)	GND GOV	GROUND GLOBE VALVE		LWT	LEAVING WATER TEMPERATURE	PL		SAN SAT	SANITARY SUSPENDED ACOUSTICAL TILE
<u>.</u>		į		GP	GLASS PIPE				PL	FLATE DESIGNATION	SB	SEAMLESS BASE
		DESIG							C.	CITY OF GEOF	RGETOWN, T	EXAS
		DRAW	N BY:S. SRIHARI			GAI			de	SYSTEM F		NCY
2		SHEET				Gupta & Ass	sociates, Ir	13717 Neutron Road Dallas, Texas 75244				
		APPRO	OVED BY:E. WEIMER 8310-1 N. CAPITAL OF Austin TX 78731	TEXAS Hwy, S	uite 250	CONSULTING EN Texas Registration	IGINEERING	Tel: 972-490-7661 www.gaiconsulting.com				
REV. DATE D	RWN REMARKS	DATE:	AUGUST 2024 Tel: (512) 346-1100	No. E-30/3		Jonation			more than welco	me		

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# ABBREVIATIONS



SCB	SCREENING CONVEYOR BELT	TS TSL	STRUCTURAL TUBING (STEEL UNLESS NOTED) TOP OF SLAB OR THICKENED SLUDGE
SCJ SCL SCR	SCRUBBING LIQUID SCREENING DEVICE	TUBV TURB	TIME UNION BALL VALVE TURBIDITY TELEVISION
SCRN SCV	SCREEN(ED) SILENT CHECK VALVE	TWAS	THICKENED WASTE ACTIVATED SLUDGE
SD SD	STORM DRAIN SUPPLY DIFFUSER	TYP	TYPICAL HEAT TRANSFER COFFEIGIENT
SE SEC	SECONDARY SECONDS		UNDERCUT
SECT SEF	SECTION SECONDARY EFFLUENT	UGND UGTC	UNDERGROUND UNDERGROUND TELEPHONE CABLE
SEJ SF	SLAB EXPANSION JOINT SEAMLESS FLOORING	UH UL	UNIT HEATER UNDERWRITERS LABORATORY
SF SF	SUPPLY FAN SILT FENCE	UN UNO	UNION UNLESS NOTED OTHERWISE
SFP SFR	SLUDGE FEED PUMP SYNTHETIC FIBER REINFORCED	UPVC UR	UN-PLASTICISED POLYVINYL CHLORIDE URINAL
SG SG	SLUICE GATE SUPPLY GRILLE		
SG-U SG-HW	SLUICE GATE – MANDAL CRAIN OPERATOR SLUICE GATE – HAND WHEEL OPERATOR	v	VOLTS
SGFT SGR	STRUCTURAL GLAZED FACING TILE	VA VA-H	VENT AIR HYDRAULIC VALVE OPERATOR
SH	SHIELDED SODIUM HYDROXIDE (CONCENTRATED)	VA-M VA-P	MOTOR VALVE OPERATOR PNEUMATIC VALVE OPERATOR
SHD SHP	SODIUM HYDROXIDE (DILUTED) SOLIDS HANDLING PUMP	VA-S VAC	VACUUM
SHR SHT	SODIUM HYDROXIDE (RECIRCULATED) SHEET	VAR VAV	VARIOUS/ VARIABLE VARIABLE AIR VOLUME VALVE BOX
SIM SJ	SIMILAR SOLDERED JOINT	VB VBR	VAPOR BARRIER VACUUM BREAKER
SK SL	SINK SLUDGE	VC VC	VICTAULIC COUPLING (SHOULDERED ENDS) VITRIFIED CLAY
SLG SLG-C	SLIDE GATE SLIDE GATE – MANUAL CRANK OPERATOR	VCP VCT	VITRIFIED CLAY PIPE VINYL COMPOSITION TILE
SLG-HW SLG-M	SLIDE GATE – HAND WHEEL OPERATOR SLIDE GATE – MOTOR	VD VE	VOLUME DAMPER VACUUM EXHAUST
SLV	SLEEVE SLEEVE	VEL VERT	VELOCITY VERTICAL
SMPP SN SOFI	SOUR FUMPS SOLID NEUTRAL OR SUPERNATANT	VFD VIB	VARIABLE FREQUENCY DRIVE VIBRATION
SOJ	SUP ON JOINT	VIPA VNBA	VIRGIN ISOPROPHYL ALCOHOL VIRGIN N. BUTYL ACETATE
SOLV	SOLENOID VALVE SUBMERSIBLE PUMP	VOL VS	VOLUME VARIABLE SPEED
SPEC SPL	SPECIFICATION, SPECIFIED SAMPLE	VSD VT	VARIABLE SPEED DRIVE VENT
SPL SPR	SAMPLE LINE SPRING	VIR	VENT THRU ROOF
SPR SPTG	SPRINKLER LINE SEPTAGE		
SPW SQ	SPRAY WATER SQUARE	W W	WATER WIDE
SR SR	SLUDGE RETURN SUPPLY REGISTER	W/ W/A	WITH WHERE APPLICABLE
SS SSC	SANITARY SEWER SHAFTLESS SCREW CONVEYOR	W/O WAP	WITHOUT WALL PIPE
SSED SSIL	STANDARD SERVICE EQUIPMENT DRAIN SODIUM SILICATE SERVICE SINK	WAS WB	WASTE ACTIVATED SLUDGE WET BULB
SSL SST	SERVICE SINK SECONDARY SLUDGE STAINI FSS STEFI	WC WBW	WASTE BACKWASH WATER WATER CLOSET
ST PR	STATIC PRESSURE OR SPACE (D)	WD WD WDW	WOOD WIDTOW
STD STIF	STANDARD STIFFENER	WF	WINDOW WIDE FLANGE WASTE GAS
STIR STL	STIRRUP (S) STEEL	WH WHDM	WATER HEATER WATTHOUR DEMAND METER
STOR STRUC	STORAGE STRUCTURE (S, URAL)	WHDR WHM	WATTHOUR DEMAND RECORDER WATTHOUR METER
STWY SUPT	STAIRWAY SUPERINTENDENT	WIPA WJ	WASTE ISOPROPYL ALCOHOL WELDED JOINT
SUSP SW	SUSPENDED SWITCH	WL WL	WATER LEVEL WATER LINE
SWBD SWD	SWITCHBOARD SIDE WATER DEPTH	WM WM	WATER MAIN WATTMETER
SWGR SYM	SWITCHGEAR SYMMETRICAL	WNBA WNC	WASTE N. BUTYL ACETATE WASTE NON-CHLORINATED
		WDAS WP WD	WASTE OXYGEN ACTIVATED SLUDGE WELDED PIPE WORKING ROINT
-		WPG WR	WATERPROOFING WATER RECOVERY
I T&B T&O	TOP AND BOTTOM	WS WSD	WASHWATER SURFACE OR WATERSTOP WASHWATER DRAIN
TAN	TANGENCY THICKENED ACTIVATED SLUDGE	WSH WSL	WASHWATER WASTE SLUDGE
TD TD	TEMPERATURE DIFFERENCE	WSM WSP	WASTE ACTIVATED SLUDGE METER WASTE ACTIVATED SLUDGE PUMPS
TDC TDD	TIME DELAY ON CLOSING TIME DELAY AFTER DEENERGIZATION-OFF DELAY	WSV WT	WALL SLEEVE STEEL TEE-SHAPE DESIGNATION
TDE TDO	TIME DELAY AFTER ENERGIZATION—ON DELAY TIME DELAY ON OPENING	WT WTHPRF	WEIGHT WEATHERPROOF
TECH TEL	TECHNICAL TELEPHONE	WW	WATER TREATMENT PLANT WASTEWATER WET WEATURE STOPAGE (FOUNDATION DAGIN
TEMP TEMP	TEMPERATURE TEMPERED	WWB WWF WWD	WEI WEATHER STORAGE/EQUALIZATION BASIN WELDED WIRE FABRIC WET WEATHER DINND
TEMP TER	TERRAZZO	WWTP WX	WASTEWATER TREATMENT PLANT WATT TRANSDUCER
TF	TOP FACE		
TFP	TRANSFER PUMP TRANSFER CRILLE		
THD THK	THREADED THICK(NESS)	XFMER	TRANSFER TRANSFORMER EVELOSION PROOF
THR TKBD	THRESHOLD TACKBOARD	XP	
TKD TM	TANK DRAIN TELEMETER OR TIME		
TOB TOC	TOP OF BERM/BANK TOP OF CURB/CONCRETE	YD YR	YARD YEAR
TOIL TOP EL	TOILET TOP OF PIPE ELEVATION		
TOPG TOS	TOPPING TOP OF SLAB	ZUPH	ZINC URINOPHUSPHAIE
TOW TOXS	TOP OF WALL THICKENED OXIDIZED SLUDGE		
TP TPRP	TURNING POINT THERMOPLASTIC REINFORCED PIPE		The OF TEL
TR	TRIANGULATION POINT TRANSITION		
TRNSV	TRANSVERSE		FLIYN L WEIMER
			FINCH
			ULL SIZE
			CCORDINGLY 09-17-2024
	CIVIL		PROJECT NO. 74 FILE NAME: 00G04NFAB.DW
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are not to be used, in whole or part, for any other project without the written authorization of CDM SMITH.		Gr Gr	CURB HIGH SAND BAGS WASHED PEA RAVEL FILLER 6" HIGH ECURB INLET DETAIL NTS	CURB INLET			NOT	ES: 1. MAXIMUM WIDTH OF APPF UNDIVIDED AND 45'-O" F 2. DRIVEWAY PERMITS TO BE 3. MINIMUM WIDTH OF APPR 4. LINEAR "RADIUS" AT CORI DRIVEWAY APPROACH. 5. SIDEWALK LOCATION TO E 6. SLOPE 1/8" PER FOOT U 7. DRIVEWAY APPROACH THIC
ND AR								
SMITH A					-PLACE ADDITIONAL			
DPERIY OF CDM	4 FT SPA (BOTH S	CING DES)	POSTS	POSIS OR EARTH ANCHORS MIN 24"	MULCH MATERIAL TO FILL SEAM BETWEEN THE SOCK AND THE GROUND		UIDELIN PORARY	ES FOR DESIGN AND SI
KE THE PK	/		MULCH SOCK MAT		TERIAL	SILT FENC	CTURE E	N/A 200 FEET
EIN, AR		O MULCH		WOOD CHIPS PRODUCED FI US SCREENING PROCESS (	ROM A 3 EQUIVALENT			100 FEET 50 FEET
D HER		0		NTS).	ATERIAI	TRIANGLE FILTE	r dike	100 FEET 50 FEET
RPORATE			JM 12" (300 mm) RLAP DO NOT MULCH SOCKS	E POINT OF GENERATION, DED BARK, STUMP GRINDING	AND MAY GS, OR	ROCK BERM	*, **	500 FEET
E, INCO	NOTE		VISIBLE PORTIONS NOT ACCEPTABLE	S OF SILT, CLAYS, OR FINE S IN THE MULCH.	SANDS ARE	* FOR ROCK BER AREA CALCULATIO	M DESIGN NS AND I	I WHERE PARAMETERS ROCK BERM DESIGN M
AL SERVIC	1. S T	<u>5.</u> TEEL OR WO OWARD THE ches). IF WO	OOD POSTS WHICH SUPPORT THE MULCH SC E ANTICIPATED RUNOFF SOURCE. POST MUS DOD POSTS CANNOT ACHIEVE 600mm (24 inch	OCK SHALL BE INSTALLED ON IT BE EMBEDDED A MINIMUM Nes) DEPTH, USE STEEL POST	A SLIGHT ANGLE OF 600mm (24 'S. EARTH	** HIGH SERVICE SIGNIFICANCE AS	ROCK BE DETERMIN	ERMS MAY BE REQUIR IED BY THE CITY OF 1
DFESSION,	2. T P	HE TOE OF ERPENDICU DINTS OF AU	THE MULCH SOCK SHALL BE PLACED SO THA ILAR TO THE LINE OF FLOW. IN ORDER TO PR DJACENT ENDS OFMULCH SOCKS 1 AP THE F	T THE MULCH SOCK IS FLAT REVENT WATER FROM FLOW NDS OF ADJACENT MULCH S	AND NG BETWEEN THE OCKS A MINIMUM			
ВУ РК(	0 3. M P	F 300mm (12 ULCH MATE	2 inches). RIAL MUST BE FREE OF REFUSE, PHYSICAL ( /TH: IT IS NOT ACCEPTABLE FOR THE MULCH	CONTAMINANTS, AND MATER				
ROVIDED	- C 4. S R	ONSTRUCT	ION DEBRIS, BIOSOLIDS, OR MANURE. RIAL WILL BE 100% BIODEGRADABLE, PHOTOE NE, UV PHOTOBIODEGRADABLE PLASTIC PO	DEGRADABLE, OR RECYCLAE	LE SUCH AS CCEPTABLE			
SIGNS F	M 5. M	ATERIAL. ULCH SOCK	(S SHOULD BE USED AT THE BASE OF SLOPE)	S NO STEEPER THAN 2:1.		The Architect/Eng	ineer assu	mes
ND DE	6. A S A	CCUMULAT HALL BE DIS DDITIONAL	ED SILT SHALL BE REMOVED WHEN IT REACH SPOSED OF ON AN APPROVED SITE AND IN SU SILTATION.	IES A DEPTH OF 150mm (6 inc JCH A MANNER THAT WILL N	hes). THE SILT OT CONTRIBUTE TO	responsibility for a use of this standar	ppropriate d.	
JMENTS A	7. T A	HE CROSS S REA OF AN	SECTIONAL AREA OF THE MULCH SOCK SHAL 18-INCH DIAMETER CIRCLE. MULI CH SOCK	L EQUAL OR EXCEED THE CI	ROSS SECTIONAL	Georgeor	48 WN	CITY OF GEOR CONSTRUCTION STANDAF TEMPORARY ERC SEDIMENTATION CONT
SE DOC			DETAIL E	$\neg$		Year Community Owned Utility		DETAIL
C: HE								NTS
				DESIGNED BY:	E. WEIMER S. SRIHARI	DM.		
				SHEET CHK'D BY:	M. STIGGINS			250
EUSE	REV. DATI	E DRWN	REMARKS	APPROVED BY:	E. WEIMER AUGUST 2024	os iu-i in. CAPITAL OF TEXAS Austin, TX 78731 Tel: (512) 346-1100 TBPE Firm Registration No. F-	ь пwy, Suite 3043	9 200





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![](_page_67_Figure_3.jpeg)

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

- CINDERBLOCK

B

00003

RABBIT HILL WATER STORAGE

BOTTOM EL 940.00 OVERFLOW EL 980.00

)18" W-DI

![](_page_67_Figure_5.jpeg)

GAI

Gupta & Associates, Inc. Texas Registration No. F-2593

13717 Neutron Road Dallas, Texas 75244 Tel: 972-490-7661 www.gaiconsulting.com

![](_page_67_Picture_9.jpeg)

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

			,				
			POINT	TABLE			
	POINT NO.	ELEVATION	NORTHING	EASTING		DESCRIPTIO	ON
	1	939.00	10188794.47	3130445.36	CORNE	R OF GENER	ATOR PAD
	2	939.00	10188802.38	3130465.88	CORNE	R OF GENER	ATOR PAD
	3	939.00	10188780.01	3130450.93	CORNE	R OF GENER	ATOR PAD
	4	939.00	10188787.92	3130471.46	CORNE	R OF GENER	ATOR PAD
ON AREAS. OF CONSTRU- TATED AT T TOR TO VEN- UTILITIES R OF ANY E RK. S ARE BASE RK. S ARE BASE RVEY FEET E D ADJUSTME D ADJUSTME D ADJUSTME D ADJUSTME D ADJUSTME D ADJUSTME	ANY OTHER AF JCTION MUST HE CONTRACTO RIFY LOCATION PRIOR TO COM DISCREPANCIES TO ON THE TEX ZONE, NAD 83 E SURFACE VAL BASED ON A G ENT FACTOR OL ARE REFEREN AVD) 88, USIN	REAS DISTURBI BE HYDROSEE OR'S EXPENSE AND ELEVATIO MENCING WOR PRIOR TO PR (AS COORDINA (2011). AL LUES REPRESE RID-TO-SURF T 1.00012 CED TO NORT IG GEOID 18.	ED AS A DED AND ON OF RK. NOTIFY ROCEEDING TE SYSTEM L DISTANCES ENTED IN ACE H AMERICAN	ONE INC AT FULL S IF NOT ONE SCALE ACCOR	H IZE INCH DINGLY	ELLYN FROJECT NO.	OF TELYS J. WEIMER 42405
RABB SITE	RABBIT HILL PUMP STATION SITE LAYOUT (ENLARGED)						20C015
SHE LATUUT (ENLARGED)							C01

-	_	•		

BM-471-17	OF A GATE EAST SIDE DRIVEWAY NORTHWEST SOUTHEAST CORNI	ON THE OF MAIN . ±25' OF THE FENCE ER.	g	40.03	10	188719.0	3130510.0	
151 TPT-IRSC		5/8 IC	ç	41.19	10188685.73		3130520.37	
152	TPT-IRSC	5/8 IC	ç	38.89	101	88788.13	3130466.81	
POINT TABLE								
POINT NO.	ELEVATION	NORTHI	NG	EASTIN	G	DESCRIPTION		

HORIZONTAL CONTROL POINTS							
POINT NO.	DESCRIPTION	ELEVATION	NORTHING	EASTING			
BM-471-17	SQUARE CUT ON THE SOUTHWEST CORNER OF CONCRETE OF A VAULT. ±15' NORTH OF A GATE ON THE EAST SIDE OF MAIN DRIVEWAY. ±25' NORTHWEST OF THE SOUTHEAST FENCE CORNER.	940.03	10188719.0	3130510.0			
151	TPT-IRSC 5/8 IC	941.19	10188685.73	3130520.37			
152	TPT-IRSC 5/8 IC	938.89	10188788.13	3130466.81			

![](_page_68_Figure_4.jpeg)

TEN SITE C

![](_page_68_Figure_9.jpeg)

## NOTES:

- 1. CONTRACTOR TO COORDINATE LAYDOWN AREA WITH OWNER
- AS NEEDED. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE WORK SITE FREE AND DRIVES ADJACENT TO AND NEAR THE WORK SITE FREE FROM SOIL, SEDIMENT, AND DEBRIS. CONTRACTOR SHALL NOT REMOVE SOIL, SEDIMENT, OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER; ONLY SHOVELING AND SWEEPING SHALL BE ALLOWED. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. CONTRACTOR SHALL PROVIDE A CONCRETE WASHOUT IF CONCRETE TRUCKS WILL BE WASHING OUT ON SITE
- 3.
- 4. CONCRETE TRUCKS WILL BE WASHING OUT ON SITE.

X	1" ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY	ELLYN J. WEIMER P. 142405 SS/ONAL ENO 09-17-2024
CIVIL RABBIT HILL PUMP S	TATION	PROJECT NO. 742 FILE NAME: 20C02ERPL
MPORARY EROSION CO CLEARING AND TREE PF	NTROL PLAN, ROTECTION PLAN	SHEET NO. 20C02

![](_page_69_Figure_0.jpeg)

![](_page_69_Picture_6.jpeg)

![](_page_70_Figure_0.jpeg)

![](_page_70_Picture_6.jpeg)

![](_page_70_Picture_7.jpeg)

![](_page_70_Picture_9.jpeg)

	TABLE FOR SECTION 1							
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION					
1	GEN-P	4"C	GENERATOR POWER					
2	GEN-P	4"C	GENERATOR POWER					
3	SPARE	4"C	SPARE					
4	MC1-9P	2"C	GENERATOR SHORE POWER					
5	GEN-C1	2"C	GEN START SIGNAL					
6	PL-103	2"C	GEN DIGITALS					
7	PL-104	2"C	GEN ANALOG					
8	NET-101	2"C	GEN COMMUNICATIONS					
9	SPARE	2"C	GEN CONTROLS SPARE					

![](_page_71_Figure_0.jpeg)

GENERAL NOTES:

DESCRIPTION

1. REFER TO STRUCTURAL SHEET S-23 FOR CONCRETE PAD DETAILS.

MAINS

TYPE: CB

RATING: 80 A

L1 (VA) | L2 (VA)

2500

2500

3220

2500

300

100

2900

3172

6392 240

26.6

	GENERATOR INFORMATION
SIZE	300KW, 480, 3PH, 4W
ENCLOSURE	WEATHER PROOF, 20'L X 7.5'W X 10'H
SOUND	SOUND ATTENUATED, 73' DBA AT 23'
FUEL	UL-2085 DIESEL FUEL TANK, 24HR AT FULL LOAD
WEIGHT	48,000 LBS

PANELBOARD: LG

**MOUNTING: SURFACE** 

CONDUIT FILL IS NOT EXCEEDED.

WITHSTAND RATING: 22 kA

NOTES CKT AMPS / MIRE COND NO. POLES SIZE SIZE

| 1 |

| 11 |

13

| 15 |

17

GENERAL NOTES:

9 20

20

VOLTAGE: 120/240 V, 1PH, 3W

5 20 12 3/4 ALTERNATOR HEATER

7 20 12 3/4 BATTERY CHARGER

30 10 3/4 JACKET WATER HEATER

SPARE

TOTAL VA

L-L VOLTAGE

CONTROL PANEL HEATER

SUBTOTAL VA BY PHASE

TOTAL AMPS (AVERAGE PER LEG)

\* CONDUIT SIZE SHOWN IS THE MINIMUM SIZE REQUIRED FOR INDIVIDUAL CIRCUITS. MULTIPLE

CIRCUITS MAY BE COMBINED IN A SINGLE CONDUIT FOR FIELD ROUTING PROVIDED NEC MAXIMUM

TOTAL VA BY PHASE

\* EACH SINGLE PHASE 120V CIRCUIT SHALL HAVE A SEPARATE NEUTRAL WIRE.

![](_page_71_Picture_7.jpeg)

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

#### NOTES: $\langle 7 \rangle$ TIE DUCTBANK REBAR INTO SLAB REBAR AS $\langle 1 \rangle$ SIZES AND CLEARANCES SHOWN SHALL BE SPECIFIED. COORDINATED WITH THE SELECTED GENERATOR MANUFACTURER AND LOCAL $\langle 8 \rangle$ BREAKER TO BE PROVIDED BY GENERATOR AUTHORITY HAVING JURISDICTION FOR FINAL DIMENSIONS. CONTRACTOR SHALL BE MANUFACTURER AND SET ACCORDING TO THE POWER SYSTEM STUDY REQUIREMENTS. RESPONSIBLE FOR ADJUSTING THE PAD SIZE AND EQUIPMENT LOCATION BASED ON FINAL $\langle 9 \rangle$ GENERATOR MANUFACTURER SHALL BE SIZING REQUIREMENT. RESPONSIBLE FOR SIZING THE BREAKERS, $\langle 2 \rangle$ TIE REBAR TO GROUND GRID SYSTEM. WIRES AND CONDUITS FOR GENERATOR CONTROL PANEL, HEATERS AND BATTERY $\langle 3 \rangle$ PROVIDE GROUND PAD IN VERTICAL FACE OF CHARGERS. HOUSE KEEPING PAD. $\langle 10 \rangle$ APPROXIMATE PAD SIZE REFER TO DRAWINGS $\langle 4 \rangle$ BOND PAD TO GENERATOR AND ACCESS FOR DETAILS. SEE STRUCTURAL FOR PLATFORM WITH 4/0 AW`G GREEN INSULATED CONSTRUCTION DETAILS. CABLE. ATTACH WITH NEMA 2-HOLE LONG (11) DRAWING MAY NOT REPRESENT SUBMITTED BARREL LUGS. AND APPROVED EQUIPMENT. $\langle 5 \rangle$ PROVIDE PIG TAIL GROUNDING ELECTRODE 12 FROM MCC LOCATED IN THE ELECTRICAL CONDUCTOR FOR GENERATOR. VERIFY INTERNAL EQUIPMENT GROUNDING BUILDING. REQUIREMENTS. 13 BLOCK DIAGRAM SHOWN AS MINIMUM $\langle 6 \rangle$ REQUIRED CONFIGURATION. ENTRY FOR CONDUIT INTO GENERATOR, LOCATION APPROXIMATE. ADJUST AS $\langle 14 \rangle$ BREAKER FOR LOADBANK CONNECTION. REQUIRED PER MANUFACTURER'S SHOP DRAWINGS. COORDINATE WITH STRUCTURE GRADE BEAM PLACEMENT.

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		BUS TYPE:	TIN-PLATED COPPER					
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![](_page_71_Picture_11.jpeg)

PROJECT NO. FILE NAME:

SHEET NO.

20E08

ELECTRICAL

# **RABBIT HILL PUMP STATION GENERATOR DETAILS**


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#### **Rabbit Hill Pump Station**

#### 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 order to avoid overfills there will always be an attendant present during deliveries.
- 5. 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.
- 6. 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.

#### **Rabbit Hill Pump Station**

#### **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: Rabbit Hill Pump Station

## **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: <u>N/A</u>

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 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:

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

#### **Rabbit Hill Pump Station**

#### **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.

#### **Rabbit Hill Pump Station**

#### 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.

#### **Rabbit Hill Pump Station**

#### **Aboveground Storage Tank Facility Plan**

The sequence for the construction of the proposed project improvements at the Rabbit Hill Pump Station 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.

#### **Rabbit Hill Pump Station**

#### 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 runon 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.

#### **Rabbit Hill Pump Station**

#### 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.



Austin Community College, Baylor University, City of Austin, County of Williamson, Texas Parks & Wildlife, CONANP, Esri,

#### **Rabbit Hill Pump Station**

#### 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
- Removed 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.

#### **Rabbit Hill Pump Station**

#### **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: <u>Ellyn Weimer, PE</u> Date: <u>10-08</u>-2024

Signature of Customer/Agent:

Ayn Neiner

Regulated Entity Name: Rabbit Hill Pump Station

## **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. X 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.

#### **Rabbit Hill Pump Station**

#### **WPAP Exception**

The City of Georgetown is requesting an exception to the WPAP for the Rabbit Hill Pump Station 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 1.9% or about 342 square feet due to the improvements. Currently, the site's overall impervious cover, is 31.4% (0.17 acres), and the site's overall impervious cover after the proposed improvements have been constructed is 33.3% (0.18 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.

#### **Rabbit Hill Pump Station**

#### **Exception Request**

Water quality protection will be ensured on the Rabbit Hill Pump Station 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 1.9% due to the improvements. Currently, the site's overall impervious cover is 31.4% (0.17 acres), and the site's overall impervious cover after the proposed improvements have been constructed is 33.3% (0.18 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.

 $Pv = DA \times Pd \times Rv$ Where: Pv = annual runoff volume (cubic feet) DA = drainage area (sq ft)Pd = average annual precipitation depth (in)  $Rv = runoff coefficient = 0.546(IC)^{2} + 0.328 (IC) + 0.030$ 

Runoff Coefficients (Rv):

 $Rv = 0.546 (0.17)^2 + 0.328 (0.17) + 0.030 = 0.10 (pre-development)$  $Rv = 0.546 (0.18)^2 + 0.328 (0.18) + 0.030 = 0.11 (post-development)$ 

<u>Existing Annual Runoff Volume (PreV)</u> Pv = 6.30\*(43,560) x 32/12 x 0.10 = 73,180 cf/yr

<u>Proposed Annual Runoff Volume (PostV)</u> Pv = 6.30\*(43,560) x 32/12 x 0.11 = 80,499 cf/yr (a 7,319 cf/yr increase)

Water Quality Impacts

<u>Required Load Reduction</u> L=27.2\*(An\*P) P=precipitation (inches) An= net increase in Impervious Area (acres)

Total Load Reduction L = 27.2\*(0.01\*32) = 8.7 lbs/year TSS 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

E	rrect	ive	June	1,	1999	

I	<u>Chris Pousson</u> , Print Name	
	<u>CIP Manager</u>	,
	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.

Applicant's Signature

-25-21

Date

THE STATE OF § County of Williamson Ş

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

GIVEN under my hand and seal of office on this 25 day of 000000, 2021

CINDY GILBERT Notary ID #2953478 My Commission Expires January 21, 2023

2023

Typed or Printed Name of Notary

MY COMMISSION EXPIRES:

TCEQ-0599 (Rev:04/01/2010)

## **Application Fee Form**

Texas Commission on Environmenta Name of Proposed Regulated Entity:	a <b>l Quality</b> Rabbit Hill Pump Sta	tion						
Regulated Entity Location: 980 Rabh	it Hill Road							
Name of Customer: City of Georgeto	wn							
Contact Person: Chris Pousson	Phon	<u>∍</u> · (512) 930-8162						
Customer Reference Number (if issued):CN 600412043								
Regulated Entity Reference Number	(if issued):RN							
Austin Regional Office (3373)	(							
			liamson					
San Antonio Regional Office (3362)			namson					
		<b>—</b>						
Bexar	Medina		alde					
Comal	Kinney							
Application fees must be paid by che	ck, certified check, o	r money order, payabl	e to the <b>Texas</b>					
Commission on Environmental Qua	l <b>ity</b> . Your canceled cl	neck will serve as your	receipt. <b>This</b>					
form must be submitted with your	ee payment. This pa	lyment is being submit	ted to:					
🔀 Austin Regional Office	Sa	in Antonio Regional Of	fice					
Mailed to: TCEQ - Cashier		vernight Delivery to: T	CEQ - Cashier					
Revenues Section	12	2100 Park 35 Circle						
Mail Code 214	Bi	uilding A. 3rd Floor						
P.O. Box 13088	A	ustin. TX 78753						
Austin, TX 78711-3088	(5	12)239-0357						
Site Location (Check All That Apply)	:	,						
Recharge Zone	Contributing Zone	Transit	ion Zone					
Type of Plan		Size	Fee Due					
Water Pollution Abatement Plan, C	ontributing Zone							
Plan: One Single Family Residential	Dwelling	Acres	\$					
Water Pollution Abatement Plan, C	ontributing Zone							
Plan: Multiple Single Family Resider	ntial and Parks	Acres	\$					
Water Pollution Abatement Plan, C	ontributing Zone							
Plan: Non-residential		Acres	\$					
Sewage Collection System	Sewage Collection System							
		L.F.	Ŷ					
Lift Stations without sewer lines		L.F. Acres	\$					
Lift Stations without sewer lines Underground or Aboveground Stor	age Tank Facility	L.F. Acres 1 Tanks	\$ \$ 650					
Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only)	age Tank Facility	Acres 1 Tanks Each	\$ \$ 650 \$					
Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only) Exception	age Tank Facility	L.F. Acres 1 Tanks Each 1 Each	\$ \$ 650 \$ \$ 500					
Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only) Exception Extension of Time	age Tank Facility	L.F. Acres 1 Tanks Each 1 Each Each	\$ \$ 650 \$ \$ 500 \$ \$ , ]					
Lift Stations without sewer lines Underground or Aboveground Stor Piping System(s)(only) Exception Extension of Time	age Tank Facility Signa	L.F. Acres 1 Tanks Each 1 Each Each Each	\$ \$ 650 \$ \$ 500 \$ Veiner					

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

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

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

Project	Cost per Linear Foot	Minimum Fee- Maximum Fee
Sewage Collection Systems	\$0.50	\$650 - \$6,500

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

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

#### Exception Requests

Project	Fee
Exception Request	\$500



# **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.)										
New Permit, Registration or Authorization (Core Data	Form should be submitted with	the program application.)								
Denouvel (Core Data Core about d be submitted with th		O other								
	ie renewal jornij									
2 Customer Reference Number (if issued)		3 Regulated Entity Reference Number (if issued)								
	Follow this link to search	S. Regulated Entity Reference Number (ij issued)								
	for CN or RN numbers in									
CN 600412043	CN 600412043 Central Registry** RN									

### **SECTION II: Customer Information**

4. General Cu	stomer In	formati	on	5. Effectiv	e Date for	Custome	er Info	ormation	Update	es (mm/dd/	/vvv)		
											,,,,,		
New Custor	ner		U []	pdate to Cust	tomer Inform	nation		Chan	nge in Regulated Entity Ownership				
	Change in Legal Name (Vermable with the lexas Secretary of State of lexas comptroller of Public Accounts)												
The Customer	The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State												
(SOS) or Texas Comptroller of Public Accounts (CPA).													
6. Customer L	6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)								<u>If new</u>	v Customer, o	enter pre	evious Custom	er below:
City of Georget	own												
7. TX SOS/CP/	A Filing N	umber		8. TX Stat	<b>e Tax ID</b> (11	digits)			9. Fe	deral Tax II	)	10. DUNS I	Number (if
									(9 dia	its)		applicable)	
									(3 0.8	1007		89592372	
									74-60	00974			
11. Type of C	ustomer:		Corporat	ion				🗌 Individ	ual		Partne	ership: 🗌 Gen	eral 🗌 Limited
Government: 🛛	🛛 City 🔲 (	County 🗌	] Federal 🗌	Local 🗌 Sta	te 🗌 Other			Sole Proprietorship					
12. Number o	of Employ	ees					l	13. Independently Owned and Operated?					
0-20 2	21-100	101-25	0 251-	500 🗌 50	1 and higher		🛛 Yes 🗌 No						
14. Customer	Role (Pro	posed or	Actual) – <i>as i</i> i	t relates to th	e Regulated	Entity lis	ed on	this form. I	Please c	check one of	the follo	owing	
Øwner		🗌 Оре	erator		wner & Ope	erator							
Occupationa	al Licensee	🗌 Re	sponsible Par	rty 🗌	VCP/BSA A	pplicant							
15 Mailing	300-1 Inc	lustrial Av	/e										
15. Walling													
Address:	City	Coorgo	+0.00		State	TV		710	79620	-		710 + 4	9445
	City	George	lown		State	1.		21P	/8020	D		219 + 4	8445
16. Country N	16. Country Mailing Information (if outside USA)						17. E-Mail Address (if applicable)						
18. Telephone Number 1					19. Extens	sion or C	<b>20. Fax Number</b> (if applicable)						

#### Ч E \+i+ • Т tion £

21. General Regulated E	ntity Informa	ation (If 'New Reg	ulated Entity" is	selected, d	ı new permit appl	ication is a	lso required.)				
New Regulated Entity	Update to	Regulated Entity	Name 🗍 Upo	late to Reg	ulated Entity Info	rmation					
The Regulated Entity Na as Inc, LP, or LLC).	me submitte	ed may be upda	ted, in order to	meet TC	EQ Core Data S	tandards	(removal of or	ganizatio	nal endings such		
22. Regulated Entity Nar	<b>ne</b> (Enter nan	ne of the site wher	e the regulated a	action is ta	king place.)						
Rabbit Hill Pump Station											
23. Street Address of	980 Rabbit	980 Rabbit Hill Road									
the Regulated Entity:											
<u>(No PO Boxes)</u>	City	Georgetown	State	ТХ	ZIP	7862	6	ZIP + 4			
24. County	Williamson										
		If no Stree	et Address is p	rovided, f	ïelds 25-28 are	required					
25. Description to											
Physical Location:											
26. Nearest City						State		Nea	arest ZIP Code		
Georgetown						ТХ		786	28		
Latitude/Longitude are used to supply coordinat	required and tes where no	l may be added, ne have been p	/updated to m rovided or to g	eet TCEQ ain accui	Core Data Stan racy).	dards. (G	eocoding of th	e Physical	Address may be		
27. Latitude (N) In Decin	nal:	30.5881			28. Longitude (W) In Decimal:			-97.6845			
Degrees	Minutes	1	Seconds		Degrees		Minutes		Seconds		
29. Primary SIC Code	30.	Secondary SIC	Code	31.	Primary NAICS	Code	32. Seco	ndary NAI	CS Code		
<b>29. Primary SIC Code</b> (4 digits)	<b>30.</b> (4 c	Secondary SIC	Code	<b>31.</b> (5 c	<b>Primary NAICS</b> r 6 digits)	Code	<b>32. Seco</b> (5 or 6 dig	<b>ndary NAI</b> gits)	CS Code		
<b>29. Primary SIC Code</b> (4 digits) 4941	<b>30</b> . (4 c	Secondary SIC (	Code	<b>31.</b> (5 c	Primary NAICS r 6 digits) 310	Code	<b>32. Seco</b> (5 or 6 dig	ndary NAI gits)	CS Code		

Pump Station											
34. Mailing											
Address:											
	C	ity			State		ZI	IP		ZIP + 4	
35. E-Mail Address:											
36. Telephone Number			37. Extension or Code				38. Fax Number (if applicable)				
( ) -								()	-		

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

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

### **SECTION IV: Preparer Information**

40. Name:	James Gallaghe	er		41. Title:	Civil Engineer	
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
( 312 ) 780-7807			( ) -	gallagherjp@	ocdmsmith.com	

#### **SECTION V: Authorized Signature**

**46.** By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

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