

Water Pollution Abatement Plan

Application for

Golf Ranch

at

100 Cantera Way

Georgetown, Williamson County, Texas 78628

Prepared by:

JAB Engineering, LLC.

TBPE Firm No. F-14076

July 20, 2023



TABLE OF CONTENTS

- I. Edwards Aquifer Application Cover Page
- II. Geologic Assessment
- **III.** General Information Form
- IV. Water Pollution Abatement Plan Application Form
- V. Temporary Stormwater Section
- VI. Permanent Stormwater Section
- VII. Agent Authorization Form
- VIII. Application Fee Form
- IX. Core Data Form

I. Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity N	nch		2. Regulated Entity No.:							
3. Customer Name: The Golf Ranch, LLC						4. Customer No.:				
5. Project Type: (Please circle/check one)	New	Modif	icatior	١	Exter	ision	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-r	esiden	itial		8. Sit	e (acres):	4.260		
9. Application Fee:	\$4,000	10. Permanent BMP(s):					Batch Detention			
11. SCS (Linear Ft.):	0	12. A	ST/US	ST (No	э. Tar	D. Tanks): 0				
13. County:	Williamson	14. W	/aters	hed:			Middle Fork San Gabriel River			

Application Distribution

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

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

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

Austin Region									
County:	Hays	Travis	Williamson						
Original (1 req.)	—		_1_						
Region (1 req.)	_		_1_						
County(ies)	_		_1_						
Groundwater Conservation District(s)	Edwards Aquifer Authority 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				

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.

JOSHUA A BARAN Print Name of Customer/Authorized Agent 7/20/23 Signature of Customer/Authorized Agent Date

FOR TCEQ INTERNAL USE ONL	_Y					
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 R	ounds:			
Delinquent Fees (Y/N):		Review T	ime Spent:			
Lat./Long. Verified:		SOS Cust				
Agent Authorization Complete/Notarized (Y/N):		Fee	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):			

II. Geologic Assessment



Narrative Description of Site-Specific Geology for an Approximately 4.25-Acre Tract Located at 100 Cantera (The Golf Ranch) in Georgetown, Williamson County, Texas

Prepared for:

JAB Engineering, LLC

Prepared by:

Cambrian Environmental

May 6, 2024

NARRATIVE DESCRIPTION OF SITE-SPECIFIC GEOLOGY FOR AN APPROXIMATELY 4.25-ACRE TRACT LOCATED AT 100 CANTERA (THE GOLF RANCH) IN GEORGETOWN, WILLIAMSON COUNTY, TEXAS

Prepared for:

JAB Engineering, LLC. 4500 Williams Drive Suite 212-121 Georgetown, Texas 78633

Prepared by:

Craig Crawford, P.G.

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

TX Geoscience Firm Registration #50484

As a licensed professional geoscientist I attest that the contents of this report are complete and accurate to the best of my knowledge.



May 6, 2024

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: Craig Crawford, PG

Telephone: 512.705.5541

AST UST

Date: <u>6 May 2024</u>

Representing: <u>Cambrian Environmental (TBPG # 50484)</u> (Name of Company and TBPG or TBPE registration number)

Fax:

Signature of Geologist:

Regulated Entity Name: The Golf Ranch LLC

Project Information

- 1. Date(s) Geologic Assessment was performed: 16 December 2022
- 2. Type of Project:

\times	WPAP
	SCS

3. Location of Project:

Recharge Zone
 Transition Zone
 Contributing Zone within the Transition Zone

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



1 of 3

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

Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)
Eckrant (EeB)	D	< 2
В		

- * 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: $1'' = \underline{40}'$ Site Geologic Map Scale: $1'' = \underline{40}'$ Site Soils Map Scale (if more than 1 soil type): $1'' = \underline{100}'$

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.

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



NARRATIVE DESCRIPTION OF SITE-SPECIFIC GEOLOGY FOR AN APPROXIMATELY 4.25-ACRE TRACT LOCATED AT 100 CANTERA (THE GOLF RANCH) IN GEORGETOWN, WILLIAMSON COUNTY, TEXAS

INTRODUCTION

This narrative Geologic Assessment accompanies the Texas Commission on Environmental Quality (TCEQ) Geologic Assessment Form TCEQ-0585 completed for the approximately 4.25-acre tract located at 100 Cantera in Georgetown, Williamson County, Texas (see Site Location Map). The tract is located on the north side of State Highway 29, approximately 4 miles west of IH 35. At the time of the pedestrian survey the property consisted of a section of undeveloped acreage, with a commercial building under construction within the southern portion of the parcel.

METHODOLOGY

A Cambrian Environmental Registered Professional Geoscientist (License #10791) conducted a field survey for a Geologic Assessment on the 26th of April 2024. The pedestrian survey was completed by walking parallel transects spaced approximately 50 feet apart as directed by the TCEQ in the *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (Rev. 10-01-04). Closer spacing was used where vegetation inhibited clear observation. All potential karst features, including depressions, holes, and animal burrows, were carefully examined for evidence of subsurface extent. A number of techniques were used for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for the presence of air flow, which may indicate the presence of a subsurface void space. Other techniques included making observations of any notable characteristics of the feature site such as the presence of various types of vegetation or a semi-circular burrow mound produced by the activities of small mammals. We also conducted due diligence activities as called for under the City of Georgetown Edwards Aquifer Recharge Zone Water Quality Ordinance.

Cambrian was also provided with a previously completed Geologic Assessment report for review that was completed in 2008 (by Kenneth Crider of Steger & Bizzell). The 2008 report covered a larger area, but did not indicate findings of any manmade or karst features on the portion covered in this Geologic Assessment. Additionally, Cambrian reviewed all available cave and karst literature available in the vicinity of the tract that is covered by this assessment.

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 of	on the project site during the field
investigation.	

- 13. The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

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

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

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

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

Administrative Information

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

RESULTS

<u>Soils</u>

Soils mapped on the property consist of the Eckrant extremely stony clay (EeB) series soils¹ (see Site Soils Map). The Eckrant series soils are within the "D" classification of the hydrologic soil groups. Type "D" soils have a very slow infiltration rate (very high runoff potential) when thoroughly wet. Typically, Eckrant soils have an extremely stony, very dark gray clay surface layer about 11 inches thick. The underlying material is indurated limestone bedrock.

Geology

The bedrock lithology underlying the site consists of the Edwards Limestone ("Ked", see Site Geologic Map). The geology of the property has been mapped most recently at a useful scale by Collins (2005) and we find his interpretation of the geology to be generally accurate.² Additionally, the project site is located entirely within the Edwards Aquifer Recharge Zone.

Recharge into the aquifer primarily occurs in areas where the Edwards Group and upper confining units are exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features are commonly formed along joints, fractures, and bedding plane surfaces in the Edwards Group. No faults are mapped within the project area, and none were directly observed during the pedestrian survey.

Feature Descriptions

No geologic or man-made features were identified during the pedestrian survey. A review of the Texas Water Development Board's online Groundwater Data Viewer did not produce any results for any existing wells located on this property.

Site Hydrogeologic Assessment

In the absence of discrete recharge features, the likelihood of significant recharge occurring within the project site and contributing to the main body of the aquifer is thought to be low. No recharge features were identified during the geologic assessment during the pedestrian survey. Should any recharge or sensitive karst features be discovered during construction, they should be reported to TCEQ to determine the appropriate mitigation measures.

During Cambrian's review of available karst literature and reports, one cave is known to be present just south of this tract, with the cave entrance being approximately 200 feet away from the southern boundary of this tract. Limited information was available in the records search, although a set of

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

² Collins, E.W., 2005, Geologic Map of the West Half of the Taylor 30x60 Quadrangle: Central Texas Urban Corridor, Encompassing Round Rock, Georgetown, Salado, Briggs, Liberty Hill, and Leander. Bureau of Economic Geology, The University of Texas at Austin. Austin, Texas 78713-8924.

coordinates and a simple name of "Moe Property Cave" were found. It is unknown to Cambrian what the dimensions of the cave are, and a map of the cave was not available. At some point in the past, possibly during the previously conducted Geologic Assessment in 2008, a buffer was established for this nearby cave. A small portion of that buffer encroaches into the project area (see Site Geologic Map). Based on topography, surface runoff appears to drain to the north, and does not drain towards the offsite cave.

City of Georgetown Salamander Ordinance

No springs or streams were identified on the property during the pedestrian survey, and therefore no occupied site protection, or spring or stream buffer protection measures will be required for the property. No 100-year (or 1%) floodplain is present on this site. All regulated activities within the recharge zone must follow water quality best management practices, and development of the property will need to comply with the water quality protection measures as outlined in Section 8 of the Ordinance.

Stratigraphic Column

*Gray shaded areas represent lithologies underlying the project area.

Period	Group	Stratigraphic Unit	Hydrologic Unit	Maximum Thickness (Feet)
		Stream and river alluvium (Qal)		
Quaternary to Tertiary		Terrace alluvium (Qt)	Overlying Units	70
		Older alluvium (QTa)		
	Taylor	Taylor Clay (Ktl)		300
	Austin	Austin Chalk (Kau)		400
Upper Cretaceous (Gulf Series)	Eagle Ford	Eagle Ford Shale (Kef)	Confining Units	60
	Washita	Buda Limestone (Kbu)		20
	W donna	Del Rio Clay (Kdr)		60
		Georgetown Limestone (Kgt)		100
Lower Cretaceous (Comanche Series)	Fredericksburg	Edwards Limestone (Ked)	Edwards Aquifer	120
		Comanche Peak Formation (Kc)		50
		Walnut Formation (Kw)	Confining Unit	140
	Trinity	Upper Glen Rose Limestone (Kgru)	Upper Trinity Aquifer	200

GEOLO	GIC ASSES	SSMENT TA	ABLE			PROJECT NAME: 4.25-Acre Tract - 100 Ca				ante	antera (Golf Ranch)									
	LOCATIO	N				FE/	TUR	EC	HARACI	ERI	STICS				EVAL	UAT	TION	P	HYSI	CAL SETTING
1A	18 *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9		10		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS (F	FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY	CATCHM (AC	CATCHMENT AREA (ACRES) TOPOGRAPHY	
						Х	Y	Z		10						<40	<u>>40</u>	<1.6	<u>>1.6</u>	
Nogo		n mada faa								-										
NO ge		an-made rea	tures \	vere id	dentifie	a on	the	pro	perty	-										
										+										
			-							+										
										+										
		_																		
						_														
										+										
										+										
										+										
										-										
DATUM: W	/GS84									<u> </u>						L				
2A TYPE		TYPE		28	POINTS	I					8A	INFILLIN	IG							
C	Cave				30		N	None	exposed	bedro	ck									
SC	Solution cavity				20	20 C Coarse - cobbles, breakdown, sand, gravel														
SF	Solution-enlarge	d fracture(s)			20	20 O Loose or soft mud or soil, organics, leaves, sticks, dark colors														
=	Fault				20	F Fines, compacted clay-rich sediment, soil profile, gray or red colors														
J MB	Other natural be	drock features			5	5 V Vegetation. Give details in narrative description														
SW	Swallow hole	e in Dedrock			30		г5 I Х 4	Other	materials	ents,	cave de	posits								
SH	Sinkhole				20															
CD	Non-karst closed	depression			5	[12 T	OPOGR	APHY			1					
	Zone, clustered	or aligned feature	S		30		Cliff, H	Hilltop	, Hillside, I	Draina	age, Flo	odplain, S	Streamb	ed						

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.

Date 6 May 2024

Sheet 1 of 1



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



Photo 1. View of the tract.



Photo 2. View of the tract.



Photo 3. View of the tract.



Photo 4. View of the tract.



Photo 5. View of the tract.



Photo 6. View of the tract.



SCALE: 1"=100'



FIGURE 2 - SITE SOILS MAP



GOLF RANCH 100 CANTERA WAY GEORGETOWN, TEXAS 78626

SCALE: 1"=100'



III. General Information Form

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: Joshua A. Baran

Date: <u>10/21/2021</u>

Signature of Customer/Agent:

Project Information

- 1. Regulated Entity Name: Golf Ranch
- 2. County: Williamson
- 3. Stream Basin: Middle Fork San Gabriel River
- 4. Groundwater Conservation District (If applicable): N/A
- 5. Edwards Aquifer Zone:

\times	Recharge Zone
	Transition Zone

6. Plan Type:

Х	WPAP
	SCS
	Modification

AST
UST
Exception Request

7. Customer (Applicant):

Contact Person: <u>Loralee St. John</u> Entity: <u>The Golf Ranch, LLC</u> Mailing Address: <u>100 Cantera Way</u> City, State: <u>Georgetown, TX</u> Telephone: <u>512-863-4573</u> Email Address: <u>golfranchshop@verizon.net</u>

Zip: <u>78628</u> FAX: _____

8. Agent/Representative (If any):

Contact Person: Joshua A. BaranEntity: JAB Engineering, LLCMailing Address: 4500 Williams Drive, Ste. 212-121City, State: Georgetown, TXZip: 78633Telephone: 512-779-7414FAX: ______Email Address: josh.baran@jabeng.com

9. Project Location:

The project site is located inside the city limits of _____.

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

North side of Highway 29 at the East of the intersection with Cantera Way

- 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. X 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).

 \boxtimes 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.
 - \boxtimes Survey staking will be completed by this date: <u>11/1/2023</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:
 - igtimes Area of the site
 - Offsite areas
 - Impervious cover
 - \boxtimes Permanent BMP(s)
 - Proposed site use
 - Site history
 - Previous development
 - \boxtimes Area(s) to be demolished
- 15. Existing project site conditions are noted below:
 - \boxtimes Existing commercial site
 - Existing industrial site
 - Existing residential site
 - Existing paved and/or unpaved roads
 - Undeveloped (Cleared)
 - Undeveloped (Undisturbed/Uncleared)
 - Other: Construction activities started on this project

Prohibited Activities

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

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

- 18. The fee for the plan(s) is based on:
 - For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.

For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.

- For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

🔀 TCEQ cashier

Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)

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

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

Attachment A

Road Map



Attachment B

USGS Map





Attachment C

PROJECT DESCRIPTION

INTRODUCTION

The proposed development known as Golf Ranch (the "development"), located at 100 Cantera Way, Williamson County, Texas 78628 will be constructed on 4.26 acres, and being Lots 8, 9, & 10 of the Final Plat 4400 West LLC Subdivision, a Subdivision in Williamson County, Texas in 2011085915 PRWCT.

ACCESS

Access will be taken from Cantera Way.

STORMWATER DRAINAGE

EXISTING CONDITIONS

The existing property consists of a single drainage area. The drainage area discharges toward the northwest property corner and onto the adjoining property owner north by sheet flow and shallow concentrated flow. A summary of the existing area features can be found in the area listing of the existing drainage calculations.

E-1 E-1 ANALYSIS POINT 1

PROPOSED DEVELOPMENT

The development will convey stormwater runoff by surface drainage to the same location as the existing discharges. The offsite area will be routed around the proposed impervious cover areas and bypass the proposed pond. Impervious cover areas will be routed to a splitter box and outfall to water quality and detention. The peak discharge of the two areas is reduced from the existing discharge rates.



DRAINAGE SUMMARY

Utilizing the SCS method for comparison of the existing vs. proposed conditions yielded a decrease in peak discharge to both drainage areas.

ANALYSIS POINT 1 (CFS)										
Condition 2-year 10-year 25-year 100-yea										
Existing	11.0	21.4	27.3	36.4						
Developed	11.0	20.9	26.7	35.0						

The design of the drainage minimizes any effects on the natural and traditional character of the land and waterways; therefore, no adverse effects to the environment are anticipated due to the development.

WATER QUALITY

The development is proposing a Batch Detention BMP.

WATER AND WASTEWATER

Water will be connected to the City of Georgetown services for fire suppression. Domestic water will be from the existing Georgetown water meter connection. Wastewater service is by OSSF.

SEDIMENTATION / EROSION CONTROL / TREE SURVEY

All sedimentation / erosion controls are required and will be in accordance with the City of Georgetown and TCEQ.

CRITICAL ENVIRONMENTAL FEATURES

There are no CEF's per the include GA.

IV. Water Pollution Abatement Plan
Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(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 Water Pollution Abatement Plan Application Form is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Joshua A. Baran

Date: 10/21/2021

Signature of Customer/Agent:

Regulated Entity Name: Golf Ranch

Regulated Entity Information

- 1. The type of project is:
 - Residential: Number of Lots:
 Residential: Number of Living Unit Equivalents:
 Commercial
 Industrial
 Other:
- 2. Total site acreage (size of property): <u>4.260</u>
- 3. Estimated projected population: 40
- 4. The amount and type of impervious cover expected after construction are shown below:

Table 1 -	Impervious Cover ⁻	Table
-----------	-------------------------------	-------

Impervious Cover			
of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	22,500	÷ 43,560 =	0.517
Parking	23,119	÷ 43,560 =	0.531
Other paved			
surfaces	2,070	÷ 43,560 =	0.048
Total Impervious			
Cover	47689	÷ 43,560 =	1.095

Total Impervious Cover 1.095 ÷ Total Acreage 4.260 X 100 = 25.70% Impervious Cover

- 5. Attachment A Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
- 6. Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

TXDOT road project.

County road or roads built to county specifications.

City thoroughfare or roads to be dedicated to a municipality.

Street or road providing access to private driveways.

- 8. Type of pavement or road surface to be used:
 - Concrete Asphaltic concrete pavement Other:
- 9. Length of Right of Way (R.O.W.): _____ feet.

Width of R.O.W.: _____ feet. L x W = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet. L x W = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$ Pavement area _____ acres \div R.O.W. area _____ acres x 100 = ____% impervious cover.

11. A rest stop will be included in this project.

A rest stop will not be included in this project.

12. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. Attachment B - Volume and Character of Stormwater. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

<u>100</u> % Domestic	<u>3,000</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day 3,000	

15. Wastewater will be disposed of by:

On-Site Sewage Facility (OSSF/Septic Tank):

Attachment C - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

Sewage Collection System (Sewer Lines):

- Private service laterals from the wastewater generating facilities will be connected to an existing SCS.
- Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

The SCS was previously submitted on_____.

-] The SCS was submitted with this application.
-] The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

Existing.
Proposed.

16. All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

17. \square The Site Plan must have a minimum scale of 1" = 400'.

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

18. 100-year floodplain boundaries:

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

 \boxtimes No part of the project site is located within the 100-year floodplain.

				•	
The 100-year	floodplain bounda	ries are based on	the following	g specific (ii	ncluding date of
material) sou	irces(s): <u>FEMA Pane</u>	I No. 48491C0275	5E, dated Sep	tember 26	, 2008

19. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. 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. (Cl	neck 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.

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

21. 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 D - Exception to the Required Geologic Assessment. A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. \square Areas of soil disturbance and areas which will not be disturbed.
- 24. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. 🛛 Locations where soil stabilization practices are expected to occur.
- 26. Surface waters (including wetlands).

🖂 N/A

27. Locations where stormwater discharges to surface water or sensitive features are to occur.

 \square There will be no discharges to surface water or sensitive features.

28. \boxtimes Legal boundaries of the site are shown.

Administrative Information

- 29. 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.
- 30. Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

ATTACHMENT A

Factors Affecting Surface Water Quality

*Potential Sources of Contamination associated with this project:

- 1. Oil and Grease: from runoff pollutants associated with paved driving surfaces, especially around the areas of fueling operations
- 2. Trash and debris: from customers at the retail / convenience center
- 3. Construction Phase Pollutants: hydraulic fluid, machine oil, and sediment

ATTACHMENT B PROJECT DESCRIPTION

INTRODUCTION

The proposed development known as Golf Ranch (the "development"), located at 100 Cantera Way, Williamson County, Texas 78628 will be constructed on 4.26 acres, and being Lots 8, 9, & 10 of the Final Plat 4400 West LLC Subdivision, a Subdivision in Williamson County, Texas in 2011085915 PRWCT.

ACCESS

Access will be taken from Cantera Way.

STORMWATER DRAINAGE

EXISTING CONDITIONS

The existing property consists of a single drainage area. The drainage area discharges toward the northwest property corner and onto the adjoining property owner north by sheet flow and shallow concentrated flow. A summary of the existing area features can be found in the area listing of the existing drainage calculations.

EXISTING



PROPOSED DEVELOPMENT

The development will convey stormwater runoff by surface drainage to the same location as the existing discharges. The offsite area will be routed around the proposed impervious cover areas and bypass the proposed pond. Impervious cover areas will be routed to a splitter box and outfall to water quality and detention. The peak discharge of the two areas is reduced from the existing discharge rates.





DRAINAGE SUMMARY

Utilizing the SCS method for comparison of the existing vs. proposed conditions yielded a decrease in peak discharge to both drainage areas.

ANALYSIS POINT 1 (CFS)				
Condition	2-year	10-year	25-year	100-year
Existing	11.0	21.4	27.3	36.4
Developed	11.0	20.9	26.7	35.0

The design of the drainage minimizes any effects on the natural and traditional character of the land and waterways; therefore, no adverse effects to the environment are anticipated due to the development.

WATER QUALITY

The development is proposing a Batch Detention BMP.

WATER AND WASTEWATER

Water will be connected to the City of Georgetown services for fire suppression. Domestic water will be from the existing Georgetown water meter connection. Wastewater service is by OSSF.

SEDIMENTATION / EROSION CONTROL / TREE SURVEY

All sedimentation / erosion controls are required and will be in accordance with the City of Georgetown and TCEQ.

CRITICAL ENVIRONMENTAL FEATURES

There are no CEF's per the include GA.

ATTACHMENT C

Suitability Letter from Authorized Agent

Department of Infrastructure County Engineer's Office 3151 SE Inner Loop, Ste B Georgetown, TX 78626 T: 512.943.3330 F: 512.943.3335

J. Terron Evertson, PE, DR, CFM



May 3, 2024

The Golf Ranch, LLC 611 N. Austin Ave. Georgetown, Texas 78626

RE: 106 Cantera Way, Georgetown, TX 78626
S10187 – 4400 West LLC Subdivision, Block 1, Lot 8, 1.16 Acres
S10187 – 4400 West LLC Subdivision, Block 1, Lot 9, 1.18 Acres
S10187 – 4400 West LLC Subdivision, Block 1, Lot 10, 1.92 Acres

The above referenced property is located within the Edwards Aquifer Recharge Zone.

Based on the surrounding subdivisions and the soil survey for Williamson County and planning material received, this office is able to determine that the soil and site conditions of this lot is suitable to allow the use of on-site sewage facilities (OSSF). It should be noted that this office has not actually studied the physical properties of this site. Site specific conditions such as OSSF setbacks, recharge features, drainage, soil conditions, etc..., will need taken into account in planning any OSSF.

These OSSF's will have to be designed by a professional engineer or a registered sanitarian. An Edwards Aquifer protection plan shall be approved by the appropriate TCEQ regional office before an authorization to construct an OSSF may be issued. The owner will be required to inform each prospective buyer, lessee or renter of the following in writing:

- That an authorization to construct shall be required before an OSSF can be constructed in the subdivision;
- That a notice of approval shall be required for the operation of an OSSF;
- Whether an application for a water pollution abatement plan as defined in Chapter 213 has been made, whether it has been approved and if any restrictions or conditions have been placed on the approval.

If this office can be of further assistance, please do not hesitate to call.

Sincerely,

Douglas McPeters, OS 8626 Williamson County - OSSF

)S 8626

V. Temporary Stormwater Section

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: Joshua A. Baran

Date: <u>10/21/2021</u> Signature of Customer/Agent:

Regulated Entity Name: Golf Ranch

Project Information

Potential Sources of Contamination

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

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

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

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

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

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

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

Sequence of Construction

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

Temporary Best Management Practices (TBMPs)

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

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

		 A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site. A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer. A description of how, to the maximum extent practicable, BMPs and measures will
		maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
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.	\square	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.

ATTACHMENT A SPILL RESPONSE ACTIONS

Spills will be prevented utilizing Best Management Practices previously described such as proper material storage, handling, and disposal practices. However, despite such efforts, a spill may occur on site. If a spill occurs, the following procedures will be utilized.

- *Stop the spill, if possible.* This can include shutting off power to a pump, righting an overturned container, or plugging a hole in a damaged container.
- *Contain the spill, safely.* Spill containment can be accomplished using a variety of materials and methods such as the use of absorbents (i.e. sawdust, Oil Dri, rags, soil, polypropylene pads or booms, etc.) to dike the area around the spill, or placing a leaking container inside one which is not leaking. Spill containment should only be attempted if it is safe to do so. Proper safety equipment such as gloves and eye protection should be used as directed on the Material Safety Data Sheet for the spilled material.
- *Report the spill, if necessary.* Certain quantities of hazardous or toxic materials such as pesticides, paint thinners, gasoline, etc. are required by Federal Law to be reported to the National Response Center (NRC) at 1-800-424-8802 as soon as you have knowledge of the spill. Since most of the quantities which require reporting to the NRC are larger than that found on a typical construction site, spill reporting to the State or Local authorities is more likely. When in doubt, report the spill.

The reporting requirements which may aggly to the sites covered in this SW3P are:

Texas Commission on Environmental Quality (TCEQ) 1-800-832-8224

TCEQ requires reporting of spills of 25 gallons or greater, especially those which might impact a waterway.

- *Clean the spill up, properly.* Spill clean up should be performed in accordance with applicable regulations or according to the manufacturer's recommendations on the Material Safety Data Sheet. In most cases, proper spill clean up is to use a dry method such as absorbing the spill and containerize for disposal via a licensed disposal company. For non-hazardous and non-toxic materials this may be through your solid waste disposal service with prior approval.
- Fill in table on next page.

The SW3P must be modified within 14 days of a release to provide a description of the spill, the circumstances leading to the spill, and the date of the spill. Spill clean-up materials, methods, and additional Best Management Practices addressing spill prevention should also be included.

Spill	Material	Amount of spill	Circumstance of Spill	Corrective	Correction Date
Date	Spilled	(in gallons)	(what caused the spill)	Action	& Sign-off

ATTACHMENT B

Potential Sources of Contamination

*Potential Sources of Contamination associated with this project:

- 1. Oil and Grease: from runoff pollutants associated with paved driving surfaces, especially around the areas of fueling operations
- 2. Trash and debris: from customers at the retail / convenience center
- 3. Construction Phase Pollutants: hydraulic fluid, machine oil, and sediment

ATTACHMENT C

Sequence of Major Activities

- 1. Install construction fencing, stabilized construction entrance, erosion controls, and tree protection fencing per approved erosion and sedimentation control/tree protection plan. (Area Disturbed = 0.1 acres)
- 2. The contractor shall arrange and coordinate acceptable meeting times for an on-site preconstruction meeting with the Owner, Project Engineer, relevant contractors, and the City Environmental Inspector. The Environmental Inspector shall be contacted 72 hours prior to the required on-site preconstruction meeting.
- 3. Begin site clearing/demolition. Silt Fence and SCE must be installed prior and maintained during operations. (Area Disturbed = 4.48 acres)
- 4. Rough grade the site in accordance with plans and specifications. Silt Fence and SCE must be maintained during operations. (Area Disturbed = 2.5 acres)
- 5. Install utility improvements. Silt Fence and SCE must be maintained during operations. (Area Disturbed = 0.05 acres)
- 6. Construct Pond structure. Silt Fence and SCE must be maintained during operations. (Area Disturbed = 0.15 acres)
- 7. Construct building. Silt Fence and SCE must be maintained during operations.
- 8. Complete final grading, drainage, and pavement. Silt Fence and SCE must be maintained during operations. (Area Disturbed = 4.48 acres)
- 9. Hydromulch or sod all disturbed areas per landscape plan and general site cleanup. Silt Fence and SCE must be maintained during operations.
- 10. Final clearing of erosion and sedimentation controls and storm drain structures.
- 11. Project engineer inspects job and submits the Engineer's Concurrence Letter.
- 12. City Environmental inspector visits site and issues certificate of acceptance only if all construction is in substantial conformance to the plans.

Total Disturbed Area = 4.48 acres

*Note: Areas identified above in the sequence of construction may overlap and should not be totaled.

ATTACHMENT D

Temporary Best Management Practices and Measures

- Silt Fence Approximately 440 linear feet of silt fence will be installed along the property line prior to the start of demolition or construction activities. The silt fence will prevent total suspended solids from leaving the site via sheet flow.
- Concrete Washout Area One concrete washout container will be used.

ATTACHMENT F

Structural Practices

Upgradient flows will be routed to bypass the proposed BMP through a proposed diversion channel. The flows from the bypassed areas are mitigated by additional storage of the proposed development areas. See drainage area maps for specific flow calculations. All on-site drainage during construction will flow through the proposed temporary BMP's.

ATTACHMENT G DRAINAGE AREA MAPS (EXISTING AND PROPOSED) (REFER TO CONSTRUCTION PLANS UNDER SEPARATE COVER FOR FULL SIZE COPIES)

ATTACHMENT I INSPECTION AND MAINTENANCE FOR BMPs

PROJECT NAME:	Golf Ranch
ADDRESS:	100 Cantera Way
CITY, STATE:	Georgetown, TX

SILT FENCE

- Inspections: Inspections shall be made weekly or after each rainfall event and repair or replacement shall be made promptly as . needed.
- . Sediment Removal: Accumulated silt shall be removed when it reaches a depth of 150mm (6 inches). The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.

Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

CONCRETE WASHOUT AREAS

- When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of.
- Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. .
- . Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party:	The Golf Ranch LLC			
Mailing Address:	100 Cantera Way			
City, State:	Georgetown, TX		Zip: 78628	
Telephone:	(512) 863-4573		Fax:	
Signature of Responsible Pa	arty Stanlee	olipho	Date	10-18-21

ATTACHMENT J

Schedule of Interim and Permanent Soil Stabilization Practices

Interim stabilization shall be achieved through the temporary erosion controls. All disturbed pervious space shall receive permanent hydromulch or sod after final grading.

VI. Permanent Stormwater Section

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(Ii), (E), and (5), Effective June 1, 1999

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

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

Signature

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

Print Name of Customer/Agent: Joshua A. Baran

Date: 10/21/2021

Signature of Customer/Agent

Regulated Entity Name: Golf Ranch

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.



- 2. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

N/A

3. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

N/A

- 4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - The site will be used for low density single-family residential development and has 20% or less impervious cover.
 - The site will be used for low density single-family residential development but has more than 20% impervious cover.
 - \square The site will not be used for low density single-family residential development.
- 5. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

- The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- The site will not be used for multi-family residential developments, schools, or small business sites.
- 6. Attachment B BMPs for Upgradient Stormwater.

	 A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached. No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached. Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7.	🔀 Attachment C - BMPs for On-site Stormwater.
	 A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached. Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff.
8.	Attachment D - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
	⊠ N/A
9.	The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
	 The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed. Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10	Attachment F - Construction Plans. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
	 Design calculations (TSS removal calculations) TCEQ construction notes All geologic features All proposed structural BMP(s) plans and specifications

N/A

11. Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:

Prepared and certified by the engineer designing the permanent BMPs and measures

 \boxtimes Signed by the owner or responsible party

- Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
- A discussion of record keeping procedures

N/A

12. Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

🖂 N/A

13. Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.

N/A

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

N/A

15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

N/A

ATTACHMENT B BMPs FOR UPGRADIENT STORMWATER

Upgradient flows will be routed to bypass the proposed BMP through a proposed diversion channel. The flows from the bypassed areas are mitigated by additional storage of the proposed development areas. See drainage area maps for specific flow calculations.

ATTACHMENT C

BMPS FOR ON-SITE STORMWATER

INTRODUCTION

The proposed development known as Golf Ranch (the "development"), located at 100 Cantera Way, Williamson County, Texas 78628 will be constructed on 4.26 acres, and being Lots 8, 9, & 10 of the Final Plat 4400 West LLC Subdivision, a Subdivision in Williamson County, Texas in 2011085915 PRWCT.

ACCESS

Access will be taken from Cantera Way.

STORMWATER DRAINAGE

EXISTING CONDITIONS

The existing property consists of a single drainage area. The drainage area discharges toward the northwest property corner and onto the adjoining property owner north by sheet flow and shallow concentrated flow. A summary of the existing area features can be found in the area listing of the existing drainage calculations.

EXISTING



PROPOSED DEVELOPMENT

The development will convey stormwater runoff by surface drainage to the same location as the existing discharges. The offsite area will be routed around the proposed impervious cover areas and bypass the proposed pond. Impervious cover areas will be routed to a splitter box and outfall to water quality and detention. The peak discharge of the two areas is reduced from the existing discharge rates.



DRAINAGE SUMMARY

Utilizing the SCS method for comparison of the existing vs. proposed conditions yielded a decrease in peak discharge to both drainage areas.

	ANALY	SIS POINT	1 (CFS)	
Condition	2-year	10-year	25-year	100-year
Existing	11.0	21.4	27.3	36.4
Developed	11.0	20.9	26.7	35.0

The design of the drainage minimizes any effects on the natural and traditional character of the land and waterways; therefore, no adverse effects to the environment are anticipated due to the development.

WATER QUALITY

Water Quality will be address by the proposed Batch Detention BMP.

WATER AND WASTEWATER

Water will be connected to the City of Georgetown services for fire suppression. Domestic water will be from the existing Georgetown water meter connection. Wastewater service is by OSSF.

SEDIMENTATION / EROSION CONTROL / TREE SURVEY

All sedimentation / erosion controls are required and will be in accordance with the City of Georgetown and TCEQ.

CRITICAL ENVIRONMENTAL FEATURES

There are no CEF's per the include GA.

ATTACHMENT F Construction Plans (UNDER SEPARATE COVER)

OWNER/ DEVELOPER: GOLF RANCH

100 CANTERA WAY GEORGETOWN, TX 78626 [TEL] (512) 863-4573 NO WEBSITE

SURVEYOR: STEGER BIZZELL 1978 S. AUSTIN AVE

GEORGETOWN, TX 78626 [TEL] (512) 930-9412 STEGERBIZZELL.COM

UTILITY SERVICE PROVIDERS:

SANITARY SEWER (OSSF) 3151 SE INNER LOOP, STE. B GEORGETOWN, TEXAS 78626 [TEL] (512) 943-3330 WWW.WILCO.ORG/OSSF

WATER CITY OF GEORGETOWN 300-1 INDUSTRIAL AVE. GEORGETOWN, TEXAS 78626 [TEL] (512) 930-2572 WWW.GEORGETOWN.ORG

ELECTRIC PEDERNALES ELECTRIC COOP PO BOX 1 JOHNSON CITY, TEXAS 78636 [TEL] (877) 372-0391 WWW.PEC.COOP

CIVIL ENGINEER/ APPLICANT

JAB ENGINEERING, LLC. 4500 WILLIAMS DRIVE, SUITE 212-121 GEORGETOWN, TEXAS 78633 [TEL] (512) 779-7414 NO WEBSITE



LEGAL DESCRIPTION:

4.26 ACRE TRACT OF LAND BEING LOTS 8, 9, & 10 OF THE FINAL PLAT 4400 WEST LLC SUBDIVISION, A SUBDIVISION IN WILLIAMSON COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT RECORDED UNDER DOCUMENT NUMBER 2011085915 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS.

FLOODPLAIN NOTE

THE SUBJECT TRACT IS SHOWN TO BE IN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS IDENTIFIED BY THE FLOOD INSURANCE RATE MAP NO. 48491C0275E, DATED SEPTEMBER 26, 2008 (WILLIAMSON COUNTY AND INCORPORATED AREAS).

ZONING NOTE:

THIS SITE IS LOCATED WITHIN THE EXTRA TERRITORIAL JURISDICTION OF THE CITY OF GEORGETOWN.

PROPOSED USE:

RETAIL, BEING ONE NEW BUILDING

SITE PLAN NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER, AND SUCCESSORS TO THE CURRENT PROPERTY OWNER, TO ENSURE THE SUBJECT PROPERTY AND ANY IMPROVEMENTS ARE MAINTAINED IN CONFORMANCE WITH THIS SITE DEVELOPMENT PERMIT.
- 2. THIS DEVELOPMENT SHALL COMPLY WITH ALL STANDARDS OF THE UNIFIED DEVELOPMENT CODE (UDC), THE CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL, THE DEVELOPMENT MANUAL AND ALL OTHER APPLICABLE CITY STANDARDS.
- 3. THIS SITE PLAN SHALL MEET THE UDC STORMWATER REQUIREMENTS.
- 4. ALL SIGNAGE REQUIRES A SEPARATE APPLICATION AND APPROVAL FROM THE INSPECTION SERVICES DEPARTMENT. NO SIGNAGE IS APPROVED WITH THE SITE PLAN.
- 5. SIDEWALKS SHALL BE PROVIDED IN ACCORDANCE WITH THE UDC.
- 6. DRIVEWAYS WILL REQUIRE APPROVAL BY THE DEVELOPMENT ENGINEER OF THE CITY OF GEORGETOWN.
- 7. FIRE FLOW REQUIREMENTS OF 1,500 GALLONS PER MINUTE ARE BEING MET BY THIS PLAN.
- 8. ANY HERITAGE TREE AS NOTED ON THIS SITE PLAN IS SUBJECT, IN PERPETUITY, TO THE MAINTENANCE, CARE, PRUNING AND REMOVAL REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
- THESE PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED 9. PROFESSIONAL ENGINEER. THEREFORE, BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.
- 10. THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
- 11. THE PROPERTY SUBJECT TO THIS APPLICATION IS SUBJECT TO THE WATER QUALITY REGULATIONS OF THE CITY OF GEORGETOWN.
- 12. WHERE NO EXISTING OVERHEAD INFRASTRUCTURE EXISTS, UNDERGROUND ELECTRIC UTILITY LINES SHALL BE LOCATED ALONG THE STREET AND WITHIN THE SITE. WHERE EXISTING OVERHEAD INFRASTRUCTURE IS TO BE RELOCATED, IT SHALL BE RE-INSTALLED UNDERGROUND AND THE EXISTING FACILITIES SHALL BE REMOVED AT THE DISCRETION OF THE DEVELOPMENT ENGINEER.
- 13. A GEOLOGIC ASSESSMENT, IN ACCORDANCE WITH THE CITY OF GEORGETOWN WATER QUALITY REGULATIONS, WAS COMPLETED ON FEBRUARY 18, 2015. ANY SPRINGS AND STREAMS AS IDENTIFIED IN THE GEOLOGIC ASSESSMENT ARE SHOWN HEREIN.

Code Land Use Description Sporting Goods Superstore

STORMWATER PERMIT (2021-27-SWP) **GOLF RANCH** 100 CANTERA WAY GEORGETOWN, TX 78626



INITIAL SUBMITTAL DATE: AUGUST 23, 2021 **RE-SUBMITTAL DATE:**

			Trip Rates		Total Trips							
Independent Variable	No. of Units	Avg Rate or Eq	Daily Rate	AM Rate	PM Rate	Daily Trips	AM Trips	PM Trips	AM Trips In	AM Trips Out	PM Trips In	PM Trips Out
1,000 Sq Ft	22.5	Avg	29.80	1.26	3.10	671	28	70	14	14	35	35
					Totals	671	28	70	14	14	35	35

SHEET INDEX:

C.01	(1 OF 20)	COVER SHEET
C.02	(2 OF 20)	EXISTING SURVEY & DEMO PLAN
C.03	(3 OF 20)	SITE PLAN
C.04	(4 OF 20)	TREE PRESERVATION PLAN
C.05	(5 OF 20)	UTILITY PLAN
C.06	(6 OF 20)	GRADING PLAN
C.07	(7 OF 20)	EXISTING DRAINAGE AREA MAP
C.08	(8 OF 20)	PROPOSED DRAINAGE AREA MAP
C.09	(9 OF 20)	WATER QUALITY PLAN
C.10	(10 OF 20)	DETENTION POND PLAN
C.11	(11 OF 20)	TCEQ CALCULATIONS
C.12	(12 OF 20)	E/S CONTROL PLAN
C.13	(13 OF 20)	GENERAL NOTES
C.14	(14 OF 20)	TCEQ NOTES
C.15	(15 OF 20)	DETAILS
C.16	(16 OF 20)	DETAILS
C.17	(17 OF 20)	DETAILS
C.18	(18 OF 20)	DETAILS
C.19	(19 OF 20)	LANDSCAPE DETAILS
C.20	(20 OF 20)	DECEL LANE PLAN

SITE INFORMATION		
ZONING	ETJ	
PROPOSED USE	RETAIL	
BUILDING (SQUARE FEET)	22,500 SF	
PARKING PROVIDED (SPACES) STANDARD HANDICAP / VAN ACCESSIBLE TOTAL	49 SPACES 4 SPACES 53 SPACES	
SITE DATA AREA (ACRES) AREA (SQUARE FEET)	4.26 AC 185,555 SF	
	ONS	
TOTAL AREA		4.26 AC
TOTAL IMPERVIOUS AREA ALLOV	VED (70%)	129,889 SF
BUILDING IMPERVIOUS COVER		22,500 SF
SIDEWALK IMPERVIOUS COVER		2,070 SF

PAVEMENT IMPERVIOUS COVER

TOTAL IMPERVIOUS AREA PROPOSED (34.8%)



***** Texas 8

23,119 SF

47,689 SF



LEGEND:
LOT LINE
EASEMENT LINE
EXISTING EDGE OF PAVEMENT
EXISTING OVERHEAD ELECTRIC LINE
PROPOSED FIRE LANE
PROPOSED SCREEN FENCE
LIMITS OF CONSTRUCTION <u>L.O.C.</u> – —
ACCESSIBLE ROUTE
EXISTING HERITAGE TREE DRIP LINE






NOTES:

- WATER SERVICE TO BE PROVIDED BY THE CITY OF GEORGETO TO BE PRIVATE OSSF.
- 2. ALL FIRE DEPARTMENT ACCESS DRIVES/ROADS TO HAVE A MIN VERTICAL CLEARANCE AND MAXIMUM SLOPE OF 15% IN ANY DIF
- ALL PARKING SPACES SHALL HAVE A 7'-0" VERTICAL CLEARANC
 EVERY HANDICAP ACCESSIBLE PARKING SPOT SHALL BE IDENT CENTERED 5 FEET ABOVE THE PARKING SURFACE, AT THE HEAL
- SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL ACCESSIBILITY AND STATE RESERVED, OR EQUIVALENT LANGU SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE THE CRITERIA SET FORTH IN THE UBC, 3108(C) AND ANSI A1171-DETAIL). REFER TO ARCHITECTURAL ADA SHEET FOR MORE INF
 5. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF A
- UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMED DISCREPANCIES.6. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLES
- RAMP.7. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1: RISE FOR ANY RAMP RUN IS 30 INCHES.
- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER 5' X 5' LANDINGS ARE REQUIRED AT ALL CHANGES IN DIRECTION SHALL NOT HAVE A SLOPE OF GREATER THAN 1:50 IN ANY DIRECTION
- GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STA SLIP RESISTANT.
- 10. REFER TO DETAILS FOR PAVEMENT SECTIONS.
- 11. FIRE LANES SHALL BE MARKED BY LANES OF TRAFFIC PAINT A M INCHES IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. TH PARKING FIRE LANE TOW-A-WAY ZONE" SHALL APPEAR IN 4" WH GREATER THAN 35 FEET APART. THESE WORDS SHALL BE MARK RED STRIPE. FIRE LANE STRIPING SHALL BE CONTINUOUS THRO FACING SHALL BE USED WHERE AVAILABLE. WHERE THERE IS N DOWN STRIPING SHALL BE USED.
- CONTRACTOR SHALL SAW CUT AND REMOVE 1' OF EXISTING PA PROVIDE A SMOOTH TRANSITION FROM EXISTING PAVEMENT TO PAVEMENT. COORDINATE CONSTRUCTION WITHIN THE ROW W THE DRIVEWAY PERMIT.
- EDGE LINES PAINTED SINGLE WHITE SOLID LINE/4" WITH INSIDE PAINTED SINGLE WHITE SOLID LINE/4" AT 30" O.C. 45 DEGREES T
 SITE SURVEY, PROVIDED BY OTHERS, DOES NOT INCLUDE A RE
- TEMPORARY OR PERMANENT BENCHMARKS NEAR THE SITE. CO SHALL VERIFY EXISTING TOPOGRAPHY AND THE LOCATION/ELE SITE IMPROVEMENTS PRIOR TO STARTING CONSTRUCTION. NO ENGINEER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED.
- 15. SPRINKLER DRAWINGS MUST BE APPROVED BY ONE OF THE AP THIRD-PARTY FIRMS.

WALWASTEWATER	LEGEND:		App.	
NIMUM 14'-0"	PROPERTY LINE	_		
IRECTION.	LOT LINE	_		
TIFIED BY A SIGN	EASEMENT LINE			
LOF	EXISTING EDGE OF PAVEMENT	_		
E AND SHALL MEET	EXISTING OVERHEAD ELECTRIC LINE	_	σ	
FORMATION.	PROPOSED FIRE LANE		vision	
DIATELY OF ANY	PROPOSED SCREEN FENCE	_	Ъе	
SS DESIGNED AS A		_	e	
12. THE MAXIMUM	ACCESSIBLE ROUTE		Da	
ER THAN 1:50. N. LANDINGS ECTION. ABLE FIRM AND	EXISTING HERITAGE TREE DRIP LINE			
			, LL	3633 g.col
MINIMUM OF 6			ring Drive	X 78 p) benę
			nee ms 2-12	'n, T 14 (@ja
OUGHOUT. CURB	SITE INFORMATION		ingi (76) Villia e 213	etow 9-74 aran
	ZONING ETJ		NB E -140 00 V Suite	orge 2-77 sh.bâ
O PROPOSED	PROPOSED USE RETAIL		ЧЧ (F- 450) Ge 51 jos
	BUILDING (SQUARE FEET) 22,500 SF			
TO EDGE LINES.	PARKING PROVIDED (SPACES)			
	HANDICAP / VAN ACCESSIBLE 4 SPACES			
EVATION OF THE DTIFY THE	IUTAL 53 SPACES			
PPROVED	SITE DATA AREA (ACRES) 4.26 AC			7
	AREA (SQUARE FEET) 105,555 SF			
				326
			· -	ر 786
			L C	VA) (AS
	IMPERVIOUS COVER CALCULATIONS		Z	NA /
	TOTAL AREA 4.26	5 AC		л ЛП Л
	TOTAL IMPERVIOUS AREA ALLOWED (70%) 129	,889 SF	<u> </u>	
	BUILDING IMPERVIOUS COVER 22,5	500 SF		ЦС
	SIDEWALK IMPERVIOUS COVER 2,07	70 SF		AG AG
	PAVEMENT IMPERVIOUS COVER 23,	119 SF		O U U
	TOTAL IMPERVIOUS AREA PROPOSED (34.8%) 47,6	589 SF		Ċ
				Ζ
				۲
				ב ב
			ŽL	Ц
				_
				1)
				OIL



Sheet <u>3</u> OF <u>20</u> 2021-27-SWP







CTED TREE PRESERV ted Trees that must be age Trees) 26 ected Trees existing on- Protected trees per acre Protected trees per acre Protected trees per acre Protected Tree Preserv rotected trees to remain FOR PROTECTED RE s of Removed Protected e mitigation inches owed N-SITE PLANTED TREE s planted on-site: 57" N-SITE EXISTING TREE to remain: 0" SUPPLEMENTAL NUTF FOR HERITAGE TREE	N 40' ATION PERG retained on s site: 38 8.9 ation percent on-site: MOVALS I trees: 137" d: 54.8" ES ES (6-11" TR RIENTS CRE E REMOVALS	60' 80 CENTAGE ite (not ap age: 30' 12 EES ONL' DIT - UP T	C O' E (UDC SEC. 8.02 % % Y) TO 30%	2.030.E ential		LEGEN PROPER LOT LINI EXISTIN EXISTIN PROPOS TREE DR TREE DR NEW 3" I P = PRO HT = HE R = REW C = CRE	ID: RTY LINE E G EDGE OF PA' G OVERHEAD E SED TREE PRO' RIP LINE (TO RE RIP LINE (TO BE DIA. TREE DIA. TREE NOVAL OF PROT DIT TREES TO	VEMENT ELECTRIC LI TECTION FE EMAIN) E REMOVED			JAB Engineering, LLC No. Date Revisions App (F-14076) 4500 Williams Drive Suite 212-121 Suite 212-121	Georgetown, TX 78633 512-779-7414 (p) josh.baran@jabeng.com
PLANT SCHEDULE Qty / SF Botanical Na SHADE / EVERGREEN T 10 Quercus shu 9 Quercus poly SHRUBS / GRASSES / P	me REES mardii ymorpha ERENINAL / A	Commo Shumaro Monterr	n Name Si d Oak 3' rey Oak 3' ACTUS	ze " cal. " cal.	Water Us L VL	e Decidu Decidu Evergr	ious / Evergreer	Mature Size (30' x 50' 40' x 60'	(H x W) Notes 65 gal co containe	ntainer, 11'-12' ht., 4' sprd. r grown, 11'-12' ht., 4' sprd.	NCH	ka WAY TEXAS 78626
VINES / GROUNDCOVE PROTECTED TREE MITIGATION 19 25 14	R KEY T R P R R R P R P	REE No. (95 96 97 98 209 210	SIZE (INDIVIDUAL TRU 19 19 25 14 17 15	JNKS)	FRUNK #1 19 19 25 14 17 15	TRUNK #2	HALF CRITICAL (IN FE 9.5 9.5 12.5 7 8.5 7.5	ROOT ZONE ET) 5	SPECIES LIVE OAK LIVE OAK LIVE OAK LIVE OAK LIVE OAK LIVE OAK LIVE OAK		GOLF RA	100 CANTER GEORGETOWN, 1
	P P <t< td=""><td>211 212 213 214 215 216 217 218 219 220 221 225 226 227 228 227 228 229 230</td><td>19.5 13 18 12 14 18 12 14 18 12 20 19 16 27 14 12 14 15 14 15 14 15 14</td><td></td><td>13 13 12 12 14 12 12 20 19 16 27 14 12 15 14 15 14 15 14</td><td>13 12 12</td><td>9.75 6.5 9 6 7 9 9 6 10 9.5 8 13.5 7 6 7.5 7 7 5 7</td><td>5</td><td>LIVE OAK LIVE OAK</td><td></td><td>PRESERVATION</td><td>PLAN</td></t<>	211 212 213 214 215 216 217 218 219 220 221 225 226 227 228 227 228 229 230	19.5 13 18 12 14 18 12 14 18 12 20 19 16 27 14 12 14 15 14 15 14 15 14		13 13 12 12 14 12 12 20 19 16 27 14 12 15 14 15 14 15 14	13 12 12	9.75 6.5 9 6 7 9 9 6 10 9.5 8 13.5 7 6 7.5 7 7 5 7	5	LIVE OAK LIVE OAK		PRESERVATION	PLAN
14 23 16 12 14	R P HT R R R P <t< td=""><td>231 232 233 234 235 236 237 238 247 248 249 250 251 252 253 254 255</td><td>14 24 19 33 23 16 12 14 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12</td><td></td><td>14 24 13 33 23 16 12 14 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12</td><td>12</td><td>7 12 9.5 16. 11. 8 6 7 7 7 9 11 6 6 6 6 6 9</td><td>5</td><td>LIVE OAK LIVE OAK</td><td></td><td>Project No.: 2 Issued: 0 Drawn By: J. Checked By: J.</td><td>01/05/23 7E+75/23 BARAN 42 42 42 1010 1/05/2023 AB AB</td></t<>	231 232 233 234 235 236 237 238 247 248 249 250 251 252 253 254 255	14 24 19 33 23 16 12 14 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12		14 24 13 33 23 16 12 14 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12	12	7 12 9.5 16. 11. 8 6 7 7 7 9 11 6 6 6 6 6 9	5	LIVE OAK LIVE OAK		Project No.: 2 Issued: 0 Drawn By: J. Checked By: J.	01/05/23 7E+75/23 BARAN 42 42 42 1010 1/05/2023 AB AB
137 54.8	TOTAL DIAN OVERALL PR	VETER INC	CHES OF REMOVE TREE MITIGATIC	D PRO DN INCH	TECTED TF	REES (40%)				Texas 811	Sheet 4) 4 ^{OF_20_}

NAMT SCHEDULE Vase Use Decidious / Everyree (Mature Size /M × WINOde: How Winde: How Winde:	ED TREE PRESERVA d Trees that must be r e Trees) ted Trees existing on-s tected trees per acre: otected trees per acre: otected trees per acre: otected trees to remain OR PROTECTED REI of Removed Protected nitigation inches owed SITE PLANTED TREE lanted on-site: 57" SITE EXISTING TREE oremain: 0" PPLEMENTAL NUTR OR HERITAGE TREE	N 40' ATION PERC etained on s site: 38 8.9 ation percent on-site: MOVALS trees: 137" : 54.8" ES (6-11" TR SES (6-11" TR SES (6-11" TR SES (6-11" TR	60' & CENTAGI ite (not a age: 30 12 EES ONI DIT - UP	30' E (UDC SEC. 8.02.030.1 pplicable to residential 0%	E)	LEGEN PROPER LOT LINE EXISTING PROPOS TREE DF TREE DF NEW 3" D P = PRO HT = HEF R = REM C = CREI	D: TY LINE G EDGE OF PA G OVERHEAD G OVERHEAD G OVERHEAD G OVERHEAD GED TREE PRO RIP LINE (TO R RIP LINE (TO B DIA. TREE TECTED RITAGE TREE OVAL OF PRO DIT TREES TO	AVEMENT ELECTRIC LIN DTECTION FEI EMAIN) E REMOVED)			No. Date Revisions App. JAB Engineering, LLC No. Date Revisions App. (F-14076) 4500 Williams Drive Suite 212-121	Georgetown, TX 78633 512-779-7414 (p) josh.baran@jabeng.com
Ness / GROUNDCOVER Image / GROUNDCOVER Image / GROUNDCOVER Image / GROUNDCOVER Image / GROUNDCOVER PROTECTED TREE SIZE IMALE CRITICAL BOOT ZONE (INDEVIDUAL TRUNK) IMALE CRITICAL BOOT ZONE (INTERT) SIZE Image / GROUNDCOVER P 96 19 19 9.5. IUVE OAK P 208 17 17 8.5. IUVE OAK P 200 17 17 8.5. IUVE OAK P 210 15 15 7.5. IUVE OAK P 212 15 12 9 IUVE OAK P 213 18 12 12 6 IUVE OAK P 216 18 12 12 6 IUVE OAK P 216 18 12 12 6 IUVE OAK P 226 12 12 13 14 7 IUVE OAK P 226 12 12 7 IUVE OAK IUVE OAK IUVE OAK P 226 12 12 7 IUVE OAK IUVE OAK	LANT SCHEDULE ty / SF Botanical Nar HADE / EVERGREEN TI 10 Quercus shur 9 Quercus poly HRUBS / GRASSES / PE	me REES mardii morpha ERENINAL / A	Commo Shuma Monter	on Name Size rd Oak 3" cal. rrey Oak 3" cal. CACTUS	Water Use	e Decidu Decidu Evergre	ous / Evergreen ous een	Mature Size (1 30' x 50' 40' x 60'	H x W) Notes 65 gal cor container	tainer, 11'-12' ht., 4' sprd. grown, 11'-12' ht., 4' sprd.	ANCH	RA WAY TEXAS 78626
P 211 19.5 13 13 9.75 LIVE OAK P 213 13 12 12 9 LIVE OAK P 213 18 12 12 9 LIVE OAK P 214 12 12 6 LIVE OAK P 215 14 14 7 LIVE OAK P 216 18 12 12 6 LIVE OAK P 218 20 20 10 LIVE OAK P 218 20 20 10 LIVE OAK P 218 20 20 16 8 LIVE OAK P 226 12 12 6 LIVE OAK P 226 12 12 6 LIVE OAK P 226 12 12 13 12 9 9 P 230 14 4 7 LIVE OAK P 233 19 13 12 9.5 LIVE OAK HT 238<	PROTECTED TREE MITIGATION 19 25 14	R KEY T R P 1 R R 2 R P 2 R P 2 P	REE No. 95 96 97 98 209 210	SIZE (INDIVIDUAL TRUNKS) 19 19 25 14 17 15	TRUNK #1 19 19 25 14 17 15	TRUNK #2	HALF CRITICAI (IN FI 9. 9. 12 7 8. 7.	L ROOT ZONE EET) 5 5 5 5 5 5 5 5 5	SPECIES LIVE OAK LIVE OAK LIVE OAK LIVE OAK LIVE OAK LIVE OAK		GOLF R/	100 CANTER GEORGETOWN,
Indext Index Indext Indext		P 1 P 1	211 212 213 214 215 216 217 218 219 220 221 225 226 227 228 229 230	19.5 13 18 12 14 18 12 20 19 16 27 14 12 14 15 14 15 14 15 14	13 12 12 14 12 14 12 14 12 14 12 13 14 15 14 15 14	13	9.7 6. 9 6 7 9 6 10 9. 6 10 9. 8 13 7 6 7. 7 7. 7	 75 5 6 7 6 7 7	LIVE OAK LIVE OAK		PRESERVATION	PLAN
P 254 18 9 LIVE OAK P 255 17 17 8.5 UVE OAK	14 23 16 12 14	R 1 P 1 HT 1 R 1 R 1 R 1 P </td <td>231 232 233 234 235 236 237 238 247 248 249 250 251 252 253 254 255</td> <td>14 24 19 33 23 16 12 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>14 24 13 33 23 16 12 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>12</td> <td>7 12 9. 16 11 8 6 7 7 7 9 12 6 6 6 6 6 6 6 6 6 9 9</td> <td>2 5 .5 .5</td> <td>LIVE OAK LIVE OAK</td> <td></td> <td>Project No.: 2 Issued: 0 Drawn By: J. Checked By: J.</td> <td>CI 23 TEL 23 BARAN 42 50 50 50 50 50 50 50 50 50 50 50 50 50</td>	231 232 233 234 235 236 237 238 247 248 249 250 251 252 253 254 255	14 24 19 33 23 16 12 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12 12	14 24 13 33 23 16 12 14 14 14 18 22 12 12 12 12 12 12 12 12 12 12 12 12	12	7 12 9. 16 11 8 6 7 7 7 9 12 6 6 6 6 6 6 6 6 6 9 9	2 5 .5 .5	LIVE OAK LIVE OAK		Project No.: 2 Issued: 0 Drawn By: J. Checked By: J.	CI 23 TEL 23 BARAN 42 50 50 50 50 50 50 50 50 50 50 50 50 50



KES TO FINISHED		NS AND SLEEVING FOR		EWER LINES SHALL	3E RESTRAINED PER	R TO PLACEMENT OF		DIAMETER SHALL BE SHALL BE SCH 40 PVC	JR VALVES ARE	UTILITY STUB OUTS.	THE CITY OF
EXISTING HERITAGE TREE DRIP LINE	LIMITS OF CONSTRUCTION	PROPOSED SCREEN FENCE	PROPOSED STORM SEWER	PROPOSED SANITARY SEWER LINE	PROPOSED WATER LINE	EXISTING OVERHEAD ELECTRIC LINE	EXISTING EDGE OF PAVEMENT	EASEMENT LINE	LOT LINE	PROPERTY LINE	LEGEND:
\bigcirc	L.O.C			SS	——— w ———	· · ·					
ering, LLC	No.	Da	fe	Re	vision	s					App.
Drive 21 1X 78633											
(p) abeng.com											
(p) abeng.com											

60

 \mathbf{N}

AN

Ц

UTILITY

 \mathbf{X}

109242

(CENSE)

C.05

01/05/2023

22

862(

TERA WAY

100 CANT GEORGETOWN





LEGEND:	
PROPERTY LINE	
LOT LINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	
PROPOSED HIGH POINT	
EXISTING MAJOR CONTOUR	785
EXISTING MINOR CONTOUR	786
PROPOSED MAJOR CONTOUR	785
PROPOSED MINOR CONTOUR	786
PROPOSED RETAINING WALL	
EXISTING HERITAGE TREE DRIP LINE	
TOP OF PAVEMENT	TP
TOP OF GRATE	TG
TOP OF SIDEWALK	TS
FINISHED GRADE	FG
BOTTOM OF WALL	BW
TOP OF WALL	TW
TOP OF CURB	ТС
BOTTOM OF CURB	BC

- 1. SLOPES ON ACCESSIBLE RAMPS MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP.
- 2. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP IS 30 INCHES.
- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50.
 5' X 5' LANDINGS ARE REQUIRED AT ALL CHANGES IN DIRECTION. LANDINGS
- SHALL NOT HAVE A SLOPE OF GREATER THAN 1:50 IN ANY DIRECTION.
- GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT.
 CONTRACTOR TO MATCH EXISTING GRADE, GUTTER, AND ASPHALT WHEN TYING
- INTO EXISTING ROADWAYS.
 7. CONTRACTOR TO COORDINATE GRADES WITH ARCHITECTURAL PLANS.
- 8. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATION AND TO INLETS.
- CONCRETE PAVEMENT TO HAVE MINIMUM 0.5% SLOPE IN ALL AREAS. NO PONDING IS ALLOWED IN THE PARKING AREA.
 ELEVATIONS SHOWN OUTSIDE OF PAVEMENT ARE FINISHED GRADES INCLUDING
- ELEVATIONS SHOWN OUTSIDE OF PAVEMENT ARE FINISHED GRADES INCLUDING ANY TOPSOIL, GRASS, ETC.
 ELEVATIONS SHOWN WITHIN PAVEMENT ARE TO GUTTER ELEVATION UNLESS
- OTHERWISE NOTED.
 12. THE EXCAVATION CONTRACTOR SHALL TAKE INTO ACCOUNT THE REQUIREMENTS FOR COMPACTED BASE AND CONCRETE THICKNESS AS CALLED FOR ON THE FOUNDATION PLAN. ALL ELEVATIONS SHOWN ARE TO FINISHED GRADE.
- SIDEWALK LOCATED ADJACENT TO BUILDING SHALL SLOPE A MINIMUM OF 1% AWAY FROM THE BUILDING.
 ANALY FROM THE BUILDING.
- 14. LANDSCAPE AREAS DIRECTLY ADJACENT TO THE BUILDING SHALL SLOPE A MINIMUM OF 1% AWAY FROM THE BUILDING.
- 15. SITE SURVEY, PROVIDED BY OTHERS, DOES NOT INCLUDE A REFERENCE TO TEMPORARY OR PERMANENT BENCHMARKS NEAR THE SITE. CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHY AND THE LOCATION/ELEVATION OF THE SITE IMPROVEMENTS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED.
 10. CONTRACTOR ONALL AD INFORMATION OF THE DISCOVERED.
- 16. CONTRACTOR SHALL ADJUST ALL VISIBLE UTILITY STRUCTURES TO FINISHED GRADE AS NEEDED AT NO ADDITIONAL COST TO OWNER.

App.	
No. Date Revisions JAB Engineering, LLC No. Date Revisions (F-14076) 4500 Williams Drive 500 Williams Drive 500 Williams Drive	Georgetown, TX 78633 512-779-7414 (p) josh.baran@jabeng.com
GOLF RANCH	100 CANTERA WAY GEORGETOWN, TEXAS 78626
GRADING PLAN	
Project No.: 2 Issued: 0 Drawn By: J Checked By: J Sheet <u>6</u>	01/05/23 75/2023 75/2023 76/2 76/23 76/
	GRADING PLAN Suite 212-121 Suite 212-121 Suite 212-121



NOTES:



			EXISTING	DRAI
Area ID	DA (ac.)	DA (mi ² .)	TC(min.)	Lag (
E-1	5.33	0.0083	14.8	8.
Total	5.33	0.0083		







			EXISTING	DRAINAGE	SUMMAR	(
Area ID	DA (ac.)	DA (mi ² .)	TC(min.)	Lag (min)	CN	Q2(cfs)	Q10(cfs)	Q25(cfs)	Q100(cfs)
E-1	5.33	0.0083	14.8	8.9	82	11.0	21.4	27.3	36.4
Total	5.33	0.0083		Total	Peak Flow	11.0	21.4	27.3	36.4
			PROPOSE	D DRAINAG	E SUMMAR	Y			
Area ID	DA (ac.)	DA (mi ² .)	TC(min.)	Lag (min)	CN	Q2(cfs)	Q10(cfs)	Q25(cfs)	Q100(cfs)
P-1	2.67	0.0042	13.9	8.3	80	5.0	10.2	13.2	17.8
P-2	1.08	0.0017	10.0	6.0	98	5.1	7.1	8.3	10.1
P-3	0.92	0.0014	10.0	6.0	80	1.9	3.8	5.0	6.7
P-4	0.67	0.0010	13.4	8.0	79	1.2	2.5	3.3	4.4
Total	5.34	0.0083		Total	Peak Flow	11.0	20.9	26.7	35.0
									_
				ANALY	SIS POINT	1 (CFS) R	OUTED FL	OWS	
				Condition	2-year	10-year	25-year	100-year	
				Existing	11.0	21.4	27.3	36.4	
				Developed	11.0	20.9	26.7	35.0	

			CN CAL	CULATIONS				IMPERVIOU	S SUMMARY		
Area ID	Area acres	Area sq. mi.	Soil Group %	Weighted CN	CN Description	Total (sf)	Pavement	Buildings	%lmp	Pervious	% Pervious
E-1	5.33	0.0083281	100% Group D	82	(79) Woods/Grass CombinationGood	232,223	-	-	0.0%	232,223	100%
P-1	2.67	0.0041719	100% Group D	79	(79) Woods/Grass CombinationGood (98) Impervious	116,090	1,294	-	1.1%	114,796	99%
P-2	1.08	0.0016875	100% Group D	98	(80) Good Condition Open Space (98) Impervious	46,928	23,843	22,500	98.8%	585	1%
P-3	0.92	0.0014375	100% Group D	80	(80) Good Condition Open Space (98) Impervious	40,027	-	-	0.0%	40,027	100%
P-4	0.67	0.0010469	100% Group D	79	(79) Woods/Grass CombinationGood	29,225	-	-	0.0%	29,225	100%





Ρ	-3	



*** Texas 811**

Drawn By: JAB Checked By: JAB

C.08

Sheet <u>8</u> OF <u>20</u> 2021-27-SWP





LEGEND:	
PROPERTY LINE	
LOT LINE	
EASEMENT LINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED RETAINING WALL	
EXISTING HERITAGE TREE DRIP LINE	

C Ō JAB Engi (F-14076) 4500 Willia Suite 21 Sl Geol 512-60 62 TERA WAY 'N, TEXAS 78626 RANCH 100 CANTI GEORGETOWN GOLF WATER QUALITY PLAN \mathbf{X} JOSHUA A. BARAN 109242 Project No.: 21010 Issued: 01/05/2023 Drawn By: JAB

ELEVATION (FEET)	SURFACE AREA (SQ. FT.)	CUMULATIVE VOL (CUBIC FT.)
907.50	0	
908.00	21	5
909.00	1,058	545
909.64	2,553	1,702 (2-YEAR)
910.00	3,390	2,769
910.22	3,521	3,516 (10-YEAR)
910.47	3,672	4,416 (25-YEAR)
910.87	3,919	5,962 (100-YEAR)
911.00	3,995	6,461
912.00	4,600	7,990

Checked By: JAB

C.10

Sheet <u>10</u> OF <u>20</u> 2021-27-SWP

TSS Remova	I Calculations 04-20-2009		Project Name:	Golf Ranch	
			Date Prepared:	4/12/2022	
Additional in	formation is provided for cells with a red triangle	in the upper	right corner. Place the curs	or over the	cel
Text shown in	blue indicate location of instructions in the Technical G	Buidance Man	ual - RG-348.		
Characters s	hown in red are data entry fields.				41
Characters s	nown in black (Bold) are calculated fields. Change	es to these f	elds will remove the equation	ons used in	the
1. The Require	d Load Reduction for the total project:	Calculations fro	om RG-348	Pages 3-27 to	3-3
	······································				
	Page 3-29 Equation 3.3: L_{M} =	27.2(A _N x P)			
		D			
wnere:	L _M TOTAL PROJECT =	Required TSS I	removal resulting from the proposed	a development	= 80
		Average annua	I precipitation, inches		
		0			
Site Data:	Determine Required Load Removal Based on the Entire Project	Millionson			
	TSS Removal Required =	williamson 85	Percent		
	Total project area included in plan * =	4.26	acres		
	Predevelopment impervious area within the limits of the plan $*$ =	0.00	acres		
Total p	ost-development impervious area within the limits of the plan* =	1.09	acres		
	<pre>rotal post-development impervious cover fraction * = P =</pre>	0.26	inches		
	,	~~			
	L _{M TOTAL PROJECT} =	1014	lbs.		
* The values e	ntered in these fields should be for the total project area.				
Nu	mber of drainage basins / outfalls areas leaving the plan area =	1			
2 Drainaga Ba	ain Parameters (This information should be provided for a	ach hacin).			
2. Dramaye ba	sin Parameters (This mormation should be provided for e	ach pasinj.			
	Drainage Basin/Outfall Area No. =	A-1			
	-				
Pred	= otal drainage basin/outfall area = evelopment impervious area within drainage basin/outfall area	1.08	acres		
Post-d	evelopment impervious area within drainage basin/outfall area =	1.06	acres		
Post-deve	elopment impervious fraction within drainage basin/outfall area =	0.99			
	L _{M THIS BASIN} =	985	lbs.		
3. Indicate the	proposed BMP Code for this basin.				
	Proposed BMP =	Batch Detenti	on		
	Removal efficiency =	91	percent		
4 Coloulata Ma	vimum TSS Load Romoved (L.) for this Drainage Pasin by	the colocted F			
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by	the selected E			
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficiency	y) x P x (A ₁ x 34.6 + A _P x 0.54)		
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficiency	y) x P x (A ₁ x 34.6 + A _P x 0.54)		
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R = A_C = A_C$	(BMP efficiency Total On-Site d	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchmen	t area	
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$	the selected E (BMP efficiency) Total On-Site d Impervious are	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchmen a proposed in the BMP catchment a	t area area	
4. Calculate Ma	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo	() x P x (A_1 x 34.6 + A_P x 0.54) rainage area in the BMP catchmen a proposed in the BMP catchment a emaining in the BMP catchment area	t area area ea	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo	y) x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchmen a proposed in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by th	t area area ea e proposed Bl	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = A _C = A ₁ = A _P = L _R =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchmen a proposed in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by th acres	t area area ea e proposed Bl	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_L =$ $A_L =$ $A_P =$ $L_R =$ $A_C =$ $A_L =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06	y x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchmen a proposed in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by the acres acres	t area area ea e proposed Bl	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7:L _R = $A_C =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $L_R =$ $A_C =$ $A_I =$ $A_C =$ $A_C =$ $A_R =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchmen a proposed in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by th acres acres	t area area ea le proposed Bl	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_L =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072	rainage area in the BMP catchmen a proposed in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by the acres acres acres	t area area ea e proposed Bl	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_L =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072	y x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by the acres acres acres lbs	t area area ea le proposed Bl	MP
4. Calculate Ma where:	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7:L _R = $A_C =$ $A_I =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_I =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_R =$ $A_L =$ $A_R =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by the acres acres lbs	t area area ea le proposed Bl	MP
4. Calculate Ma where: 5. Calculate Fra	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7:L _R = $A_c =$ $A_c =$ $A_l =$ $A_p =$ $L_R =$ $A_c =$ $A_l =$ $A_c =$ $A_l =$ $A_c =$ $A_l =$ $A_l =$ $A_c =$ $A_l =$ <t< td=""><td>the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area TSS Load remo 1.08 1.06 0.01 1072</td><td>() x P x (A₁ x 34.6 + A_P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by the acres acres acres lbs</td><td>t area area ea e proposed Bl</td><td>MP</td></t<>	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area TSS Load remo 1.08 1.06 0.01 1072	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by the acres acres acres lbs	t area area ea e proposed Bl	MP
4. Calculate Ma where: 5. Calculate Fra	ximum TSS Load Removed (L _R) for this Drainage Basin byRG-348 Page 3-33 Equation 3.7:L _R = $A_C =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_I =$ $A_R =$ <t< td=""><td>the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072</td><td>() x P x (A₁ x 34.6 + A_P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by th acres acres acres lbs</td><td>t area area ea le proposed Bl</td><td>MP</td></t<>	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by th acres acres acres lbs	t area area ea le proposed Bl	MP
4. Calculate Ma where: 5. Calculate Fra	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_C =$ $A_I =$ $A_P =$ L _R = $A_I =$ $A_L =$ $A_P =$ L _R = $A_L =$ Action of Annual Runoff to Treat the drainage basin / outfall Desired L _{M THIS BASIN} =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072	I) x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment area by the BMP catchment area by the acres acres acres Ibs Ibs	t area area ea le proposed Bl	MP
4. Calculate Ma where: 5. Calculate Fra	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_c =$ $A_l =$ $A_l =$ $A_p =$ L _R = $A_l =$ $A_l =$ $A_p =$ L _R = $A_l =$ $A_c =$ $A_l =$ $A_c =$ $A_l =$ $A_R =$ Desired L _{M THIS BASIN} = $A_R =$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by th acres acres acres lbs	t area area ea le proposed Bî	MP
4. Calculate Ma where: 5. Calculate Fra	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_{C} =$ $A_{I} =$ $A_{P} =$ L _R = $A_{P} =$ L _R = A _L =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95	<pre>// x P x (A₁ x 34.6 + A_P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by th acres acres lbs lbs</pre>	t area area ea e proposed Bl	
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_I =$ $A_P =$ L _R = $A_C =$ $A_P =$ L _R = Acc = $A_R =$ L _R = Acc = $A_R =$ L _R = Acc = A _R = Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072 I area 1014 0.95	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a emaining in the BMP catchment are oved from this catchment area by th acres acres acres lbs lbs.	t area area ea le proposed Bl	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_I =$ $A_P =$ L _R = $A_C =$ $A_P =$ L _R = action of Annual Runoff to Treat the drainage basin / outfal Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 pasin / outfall a	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a emaining in the BMP catchment area oved from this catchment area by the acres acres lbs lbs. Ibs. Calculations from RG	t area area ea le proposed BN	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_C =$ $A_P =$ $L_R =$ $A_C =$ $A_P =$ $L_R =$ $A_C =$ $A_P =$ $L_R =$ $A_C =$ $A_R =$ $A_$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a	<pre>// x P x (A₁ x 34.6 + A_P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by th acres acres acres lbs lbs lbs lbs lbs</pre>	t area area ea e proposed BN	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_I =$ $A_P =$ L _R = $A_C =$ $A_P =$ L _R = action of Annual Runoff to Treat the drainage basin / outfal Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I Rainfall Depth = Post Development Runoff Coefficient =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a proposed in the BMP catchment are emaining in the BMP catchment are oved from this catchment area by the acres acres acres lbs lbs. area. Calculations from RG inches	t area area ea le proposed Bl	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = A_{C} = A_{I} = A_{P} = A_{R} = $A_$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment at proposed in the BMP catchment at emaining in the BMP catchment at poved from this catchment area by the acres acres acres acres acres acres acres acres acres acres acres acres acres acres acres ibs b cubic feet	t area area ea le proposed BN	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: L _R = A_{C} = A_{I} = A_{P} = L_{R} = A_{C} = A_{P} = L_{R} = A_{C} = A_{P} = L_{R} = action of Annual Runoff to Treat the drainage basin / outfall Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area r TSS Load remo 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a a proposed in the BMP catchment area emaining in the BMP catchment area oved from this catchment area by th acres acres acres lbs lbs inches cubic feet	t area area ea le proposed Bl	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ Period Image Descent Among Des	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment area proposed in the BMP catchment area by the acres acres acres acres acres	t area area ea le proposed BN	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_c =$ $A_l =$ $A_p =$ $L_R =$ $A_c =$ $A_p =$ $L_R =$ $A_c =$ $A_r =$ A	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fre	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment a a proposed in the BMP catchment area emaining in the BMP catchment area oved from this catchment area by the acres acres acres acres acres lbs Ibs Ibs. Inches cubic feet om RG-348 Pages 3-36 to 3-37	t area area ea e proposed BN	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ Accination of Annual Runoff to Treat the drainage basin / outfall Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage la Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fro 0.00	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment area proposed in the BMP catchment area by the acres	t area area ea le proposed BN -348	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_C =$ $A_L =$ $A_P =$ $L_R =$ action of Annual Runoff to Treat the drainage basin / outfall Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fro 0.00	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment at a proposed in the BMP catchment at emaining in the BMP catchment at a by the acres	t area area ea e proposed BN	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_C =$ $A_R =$ $L_R =$ $A_C =$ A = A	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fro 0.00 0.00	() x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment area proposed in the BMP catchment area by the acres	t area area ea le proposed BN -348	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_C =$ $A_R =$ $L_R =$ $A_C =$ $A_$	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fro 0.00 0.00 0	Image area in the BMP catchment area by the BMP catchment area by the BMP catchment area by the catchment area by the catchment area by the catres acres acres cubic feet acres acres acres acres acres acres acres	t area area ea e proposed BN -348	
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ Action of Annual Runoff to Treat the drainage basin / outfal Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fro 0.00 0 0.00 0	Image area in the BMP catchment area by the acres acres acres cubic feet acres acres acres	t area area ea le proposed Br -348	Pag
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ $A_R =$ Action of Annual Runoff to Treat the drainage basin / outfal Desired L _{M THIS BASIN} = F = pture Volume required by the BMP Type for this drainage I Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site Impervious fraction of off-site area = Off-site Runoff Coefficient =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 I area 1014 0.95 Dasin / outfall a 2.60 0.81 8197 Calculations fro 0.00 0.00 0 0	Image area in the BMP catchment area by the catchmen	t area area ea e proposed BN -348	
4. Calculate Ma where: 5. Calculate Fra 6. Calculate Ca	ximum TSS Load Removed (L _R) for this Drainage Basin by RG-348 Page 3-33 Equation 3.7: $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_I =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ action of Annual Runoff to Treat the drainage basin / outfal Desired L_M THIS BASIN = F = pture Volume required by the BMP Type for this drainage I Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient = Coefficient =	the selected E (BMP efficiency) Total On-Site d Impervious area Pervious area 1.08 1.06 0.01 1072 1072 1014 0.95 0asin / outfall a 2.60 0.81 8197 Calculations fro 0.00 0 0 0.00 0 0	Image area Image area () x P x (A ₁ x 34.6 + A _P x 0.54) rainage area in the BMP catchment area a proposed in the BMP catchment area a proposed in the BMP catchment area oved from this catchment area by the acres cubic feet cubic feet cubic feet	t area area ea le proposed BN -348	



- SWITCH CONTROLLERS WITH HALF OF PERFORATED PVC PIPE GROUTED







Date Revisions					
No.					
	(1-140/6) 1500 Williamo Drivo	Suite 212-121	Georgetown, TX 78633	512-779-7414 (p)	josh.baran@jabeng.com

EROSION CONTROL QUANTITIES				
SILT FENCE	620	LF		
STABILIZED CONSTRUCTION ENTRANCE	1	EA		
LIMITS OF CONSTRUCTION	4.48	AC		

NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREAS. WHEN REQUIRED CONTRACTOR SHALL DEWATER EXCAVATED AREAS USING A CITY METHOD (I.E. SILT FENCE, HAY BALE DIKE, ROCK BERM, ETC.)
- 2. CONTRACTOR SHALL PROVIDE TEMPORARY STAGING AND SPOILS AREA AS NEEDED AND PROVIDE ADDITIONAL SILT FENCE ALONG THE DOWNSTREAM SIDE OF THESE AREAS THROUGHOUT CONSTRUCTION.
- 3. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING.
- 4. CITY INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/ SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY RULES AND REGULATIONS.
- CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE 5. CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER CITY REQUIREMENTS, OR AS DIRECTED BY THE CITY INSPECTOR.

★ Texas 8

		π.					
-	CONTRAC WORK IN	CTOR SHAL	L CALL THE ONE CALL CENTER (811) FOR UTILITY LOCATIONS PRIOR TO ANY MENTS OR STREET R.O.W.				
-	CONTRAC LEAST 24 EASEMEN THE CITY	CTOR SHAL HOURS PF IT OR STRE 'S R.O.W. N	L NOTIFY THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION AT RIOR TO INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EET R.O.W. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.				
·-	FOR SLOPES OR TRENCHES GREATER THAN FIVE (5) FEET IN DEPTH, ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE DUPCHASED FROM OSHA STATE ALISTIC TEXAS						
-	ALL SITE GEORGE	WORK SHA FOWN COD	ALL COMPLY WITH ENVIRONMENTAL REQUIREMENTS SET FORTH IN THE CITY OF DES AND REGULATIONS.				
-	DEVELOF	ER INFORM	MATION.				
	A. OW ADI PHO	NER: DRESS: DNE NO.	GOLF RANCH 100 CANTERA WAY GEORGETOWN, TEXAS 78626 (512) 863-4573				
	B. DE ADI PHO	/ELOPER: DRESS: DNE NO.	GOLF RANCH 100 CANTERA WAY GEORGETOWN, TEXAS 78626 (512) 863-4573				
	C. OW	NER'S REP 'N.:)NE NO.:	RESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS. JAB ENGINEERING, LLC JOSHUA A. BARAN, P.E. (512) 779-7414				
	D. PEF	SON OR F	IRM RESPONSIBLE FOR EROSION & SEDIMENTATION CONTROL				
	OW	NER:	GOLF RANCH				
	ADI PH(DRESS:	GEORGETOWN, TEXAS 78626 (512) 863-4573				
	ALL CON AS AMEN	STRUCTION DED BY SP	N SHALL COMPLY WITH THE CITY OF GEORGETOWN STANDARD SPECIFICATIONS, ECIAL PROVISION. CURRENT AT THE TIME OF BIDDING.				
	CONTRAC ANY DAM OPERATI OWNER.	CTOR TO TA AGE TO EX ONS TO BE	AKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. (ISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO				
	CONTRAC PERSONS COMMEN THAT CA	CTOR TO G IN CHARG CEMENT O N ONLY BE	IVE NOTICE TO ALL AUTHORIZED INSPECTORS. SUPERINTENDENTS OR GE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO F WORK. CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION PERMITS ISSUED TO THE CONTRACTOR HAVE BEEN OBTAINED BY THE CONTRACTOR AT				
Э.	ITS EXPE	NSE PRIOR	TO COMMENCEMENT OF WORK.				
1.	REGARDI	NG EXCES	S AND WASTE MATERIAL. INCLUDING METHODS OF HANDLING AND DISPOSAL.				
••	IN ACCOF	DANCE WI	TH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY				
2.	LOCATIO NO WARF	N OF EXIST ANTY IS IM	ING UTILITIES SHOWN ON PLANS WAS COMPILED FROM RECORD INFORMATION. IPLIED AS TO THE ACTUAL LOCATION OF EXISTING UTILITIES.				
3.	WHEN UN THE LINE OPERATION DIRECTION SERVICE	ILOCATED , OR OTHEI ONS, NOTIF NS. COOP 6 IN OPERA	OR INCORRECTLY LOCATED UNDERGROUND PIPING, OR A BREAK LOCATED IN R UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK FY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE PERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE				
4.	CONTRAC POINTS, / DESTROY NO ADDIT	CTOR TO LO AND PROJE CED ITEMS ONAL COS	DCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL ECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS AT ST TO OWNER.				
5.	CONTRAC REGULAT	TOR TO C	ONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL OVERNING AUTHORITIES. (NO SEPARATE PAY)				
6.	THROUG CONTRA	HOUT THE	CONSTRUCTION, AND AT THE COMPLETION OF CONSTRUCTION. THE NSURE THAT DRAINAGE OF STORM WATER RUNOFF IS NOT BLOCKED.				
7.	THESE PI SYSTEMS AGENTS, ENGINEE SUCH SA THE CON SYSTEMS	ANS, PREF PERTAINII OR REPRE RING REGI ETY SYST STRUCTIOI INCI UDIN	PARED BY JAB ENGINEERING, LLC DO NOT EXTEND TO OR INCLUDE DESIGNS OR NG TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, SENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF JAB STERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY EMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. N CONTRACTOR IS TO PREPARE OR OBTAIN THE APPROPRIATE SAFETY IG THE PLANS AND SPECIFICATIONS REQUIRED BY HOUSE BILLS 662 AND 665				
8	ENACTED	BY THE TE	EXAS LEGISLATURE IN THE 70TH LEGISLATURE, REGULAR SESSION.				
а. Э			OF UNIFORM TRAFFIC CENTRAL DEVICES (TMUTCD).				
у. О	NOTIFY G	AS COMPA	NY 24 HOURS PRIOR TO CONSTRUCTION NEAR AND AROUND GAS LINES.				
u. 1.	NO BLAS	ING IS ALL	LOWED ON THIS PROJECT.				
2.	MAKE CO ASPHALT APPEARS CONNEC	NNECTION FROM ENE TO BE IN S	BETWEEN NEW AND EXISTING ASPHALT STREETS BY REMOVING EXISTING D BACK UNTIL FULL DEPTH BASE AND HMAC ARE ENCOUNTERED AND HMAC SOUND CONDITION. PROVIDE EXPANSION JOINT AND DOWELS WHERE ING CURB TO NEW CURB.				
3.	A CURB L THE CUR	aydown I B.	S REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS				
4.	UNLESS (SIDEWAL AND LAP	DCCURRING K BY EXPO PING NEW I	G AT AN EXPANSION JOINT, MAKE CONNECTION BETWEEN NEW AND EXISTING SING AND CLEANING A ONE-FOOT LENGTH OF WELDED WIRE REINFORCEMENT REINFORCEMENT ONTO THIS LENGTH.				
5.	CONCRE "A" (5 SAC OTHERW PAVEMEN	TE FOR SIT CK, 3000 PS SE NOTED IT STRUCT	E WORK, OTHER THAN CONCRETE PAVEMENT AND STRUCTURES, TO BE CLASS 51 @ 28-DAYS) AND ALL REINFORCING STEEL TO BE ASTM A615 60, UNLESS . REFER TO GEOTECHNICAL REPORT AND ARCHITECTURAL DRAWINGS FOR URAL SPECIFICATIONS.				
6.	TREE SU LOCATIO FROM WH THE ACC	RVEY, CON N OF TREE IAT IS DEP JRACY OF	TOURS, AND BENCHMARK INFORMATION SUPPLIED BY OTHERS. ACTUAL S AND ELEVATION OF NATURAL GROUND ON THE PROJECT SITE MAY VARY ICTED ON THE PLAN SHEETS. JAB ENGINEERING, LLC IS NOT RESPONSIBLE FOR THE INFORMATION REGARDING SURVEYS OR BENCHMARK LOCATIONS.				
7.	BENCHM	ARKS ARE					
о. 9.			L REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS SITE FOR				
	SUBSURF	ACE INFOR	RMATION REGARDING THIS PROJECT. AT ITS EXPENSE THE CONTRACTOR IS IAKE ADDITIONAL SUBSURFACE INVESTIGATIONS.				

THE APPROPRIATE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE. TEXAS ONE CALL

- PEDERNALES ELECTRIC COOP SUDDENLINK CITY OF GEORGETOWN
- ANY DISCREPANCIES.
- SEDIMENTATION CONTROLS MAY BE REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
- INVESTIGATION.

CONSTRUCTION SEQUENCING:

- PROTECTION PLAN.
- BEGIN SITE CLEARING/DEMOLITION.
- INSTALL UTILITY IMPROVEMENTS.
- CONSTRUCT BUILDING FOUNDATIONS.
- CONSTRUCT ALL-WEATHER DRIVING SURFACE.
- CONSTRUCT BUILDING(S).
- COMPLETE GRADING, DRAINAGE AND PAVING.
- . HYDROMULCH OR SOD ALL DISTURBED AREAS AND CLEAN UP SITE.
- SUBSTANTIAL CONFORMANCE TO THE PLANS.

EMPORARY E&S NOTES:

- CONTROL DETAILS.
- OBTAINED FROM ADJACENT PROPERTY OWNERS.
- REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
- PROTECTION BEFORE OR DURING CONSTRUCTION.

PERMANENT EROSION AND SEDIMENTATION NOTES:

- EROSION CONTROL MATTING IS REQUIRED ON ALL DISTURBED AREA THAT HAVE A FINISHED GRADE IN EXCESS OF 3:1.
- EXISTED PRIOR TO CONSTRUCTION) SHALL HAVE A MINIMUM OF THREE (3) INCHES OF TOPSOIL PLACED PRIOR TO REVEGETATION.
- READILY ABLE TO SUPPORT THE GROWTH OF PLANTING, SEEDING AND SODDING, AS ACCEPTED BY THE CITY.

DISTURBED BY CONSTRUCTION AS DIRECTED BY THE LANDSCAPE ARCHITECT.

- AND THE AREA SHALL BE RE- SEEDED IN ACCORDANCE WITH 2, BELOW.
- DISTURBED BY CONSTRUCTION.
- ANNUAL RYE, IF REQUIRED.
- POUNDS PER 1000 SF.
- WATER TRUCK, AS NEEDED.
- E. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
- LARGER THAN 16 SQUARE FEET EXIST.

DESCRIPTION MATERIAL BONDED FIBER 80% ORGANIC 10 MATRIX (BFM) DEFIBRATED FIBE

TACKIFIER

FIBER REINFORCED 65% ORGANIC MATRIX (BFM)

DEFIBRATED FIBE 25% REINFORCIN FIBERS OR LESS 10% TACKIFIER

0. UTILITY RELOCATIONS REQUIRED BY CONSTRUCTION SHALL BE PERFORMED BY THE APPROXIMATE UTILITY COMPANY. ANY RELOCATIONS OR TEMPORARY BRACING NOT DEEMED NECESSARY BY THE ENGINEER, BUT DESIRED FOR CONVENIENCE BY THE CONTRACTOR, SHALL BE PERFORMED BY

1-800-245-4545 512-219-2602 877-694-9474 512-930-2572

CONTRACTOR TO FIELD VERIFY LOCATION AND FLOWLINES OF EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITY. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF

PUMPING OF STORMWATER FROM EXCAVATIONS IS PROHIBITED UNLESS THE STORMWATER IS DISCHARGED TO ENCOURAGE SHEET/OVERLAND FLOW. ADDITIONAL EROSION AND

33. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT IN TOTAL AREA, BLOWS AIR FROM WITHIN THE SUBSTRATE, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY CONTACT A CITY OF GEORGETOWN INSPECTOR FOR FURTHER

INSTALL CONSTRUCTION FENCING, STABILIZED CONSTRUCTION ENTRANCE, EROSION CONTROLS AND TREE PROTECTION FENCING PER APPROVED EROSION AND SEDIMENTATION CONTROL/TREE

THE CONTRACTOR SHALL ARRANGE AND COORDINATE ACCEPTABLE MEETING TIMES FOR AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE OWNER, PROJECT ENGINEER, RELEVANT CONTRACTORS, RELEVANT UTILITY REPRESENTATIVES, AND THE CITY ENGINEER/INSPECTOR.

ROUGH GRADE SITE AND PONDS IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

. FINAL CLEARING OF EROSION AND SEDIMENTATION CONTROLS AND STORM DRAIN STRUCTURES. CITY VISITS SITE AND ISSUES CERTIFICATE OF ACCEPTANCE ONLY IF ALL CONSTRUCTION IS IN

THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION). SEE CONSTRUCTION DETAILS SHEET FOR EROSION/SEDIMENTATION

THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL/TREE PROTECTION PLAN. NO EROSION CONTROLS SHALL BE PLACED BEYOND THE PROPERTY LINES OF THE SITE UNLESS WRITTEN PERMISSION HAS BEEN

THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE

ANY DIRT, MUD, ROCKS, DEBRIS, ETC., THAT IS SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREET SHALL BE CLEANED UP IMMEDIATELY.

THE CODE ENFORCEMENT OFFICER, CITY ENGINEER OR DESIGNATED CITY INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION/SEDIMENTATION CONTROLS OR TREE

ALL DISTURBED AREAS ON THE ENTIRE PROJECT (SUCH AS AREAS THAT HAVE BEEN DRIVEN ON, GRADED, USED FOR STORAGE OF ANYTHING AND ARE NOT IN THE EXACT CONDITION THAT

TOPSOIL SHALL BE CLEAN, FRIABLE, FERTILE SOIL WITH A RELATIVELY HIGH EROSION RESISTANCE, FREE OF OBJECTIONABLE MATERIALS INCLUDING ROOTS AND ROCKS LARGER THAN ONE (1) INCH. TOPSOIL SHALL NOT CONTAIN CALICHE OR LIMESTONE. TOPSOIL SHALL BE

THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS

PERMANENT VEGETATIVE STABILIZATION: (OR AS SPECIFIED BY THE LANDSCAPE PLANS):

FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE- HALF (1/2) INCH

FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL.

A. BERMUDA SOD 5' OUTSIDE THE BUILDINGS AND BERMUDA HYDROMULCH ALL AREAS

B. BIO-SWALE AREAS SHALL BE A NATIVE SEED BIO-SWALE MIX OR AN OVERSEED WITH

C. FERTILIZER SHALL BE WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2

D. IF NO PERMENANT IRRIGATION IS ANTICIPATED. WATERING WILL BE PERFORMED BY A

F. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN TO AT LEAST 1 1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

% ERS	LONGEVITY 6 MONTHS	TYPICAL APPLICATIONS ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	APPLICATION RATES 2500 TO 4000 LBS PER ACRE (SEE MANUFACTURES RECOMMENDATIONS)
ERS IG	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3000 TO 41500 LBS PER ACRE (SEE MANUFACTURES RECOMMENDATIONS)

ELECTRIC NOTES:

- 1. ELECTRIC PROVIDER HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS ON THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. ELECTRIC PROVIDER WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CITY REQUIREMENTS.
- 2. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE ELECTRIC PROVIDER WITH ANY EASEMENT AND/OR ACCESS REQUIRED. IN ADDITION TO THOSE INDICATED. FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES.

- 3. THE OWNER SHALL BE RESPONSIBLE FOR ANY INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION. THE OWNER SHALL BE RESPONSIBLE FOR ANY TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. ALL ELECTRIC WORK SHALL ALSO BE INCLUDED WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.
- 4. THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS. ELECTRIC PROVIDER REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCE WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD LINES AND EQUIPMENT. ELECTRIC PROVIDER WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCE WILL BE CHARGED TO THE OWNER.

FIRE DEPARTMENT NOTES:

- 1. APPROVAL OF THIS SITE PLAN DOES NOT IMPLY APPROVAL TO INSTALL UNDERGROUND FIRE LINES. PRIOR TO INSTALLATION OF UNDERGROUND FIRE LINES, A SEPARATE PERMIT SHALL BE SUBMITTED, UNDER GROUND FIRE LINE SUPPLY.
- 2. PROTECTION WILL BE PROVIDED IN ACCORDANCE WITH THE CITY OF GEORGETOWN REQUIREMENTS WHEN REQUIRED. BACKFLOW PROTECTION WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE UTILITY DRAWINGS.
- 3. ALL PRIVATE FIRE LINES AND WHAT THEY PROVIDE SERVICE TO WILL BE INSTALLED IN ACCORDANCE WITH NFPA 24 INSTILLATION OF PRIVATE SERVICE MAINS AND THEIR APPURTENANCES.
- 4. ALL TEES, PLUGS, CAPS, BENDS, REDUCERS, VALVES SHALL BE RESTRAINED AGAINST MOVEMENT. THRUST BLOCKING AND JOINT RESTRAINED WILL BE INSTALLED IN ACCORDANCE WITH NFPA 24.
- 5. ALL UNDERGROUND SHALL REMAIN UNCOVERED UNTIL A VISUAL INSPECTION IS CONDUCTED BY THE GEORGETOWN FIRE MARSHAL'S OFFICE (FMO). ALL JOINT RESTRAINTS AND THRUST BLOCKING SHALL BE UNCOVERED FOR VISUAL INSPECTION.
- 6. ALL UNDERGROUND SHALL BE FLUSHED PER THE REQUIREMENTS OF NFPA STANDARD 24 AND WITNESSED BY GEORGETOWN FMO.
- 7. ALL UNDERGROUND SHALL PASS A HYDROSTATIC TEST WITNESSED BY GEORGETOWN FMO. ALL JOINTS SHALL BE UNCOVERED FOR HYDROSTATIC TESTING. ALL PIPING AND ATTACHMENTS SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE TESTED AT 200 PSI. OR 50 PSI MORE THAN THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE + OR - 5 PSI FOR 2 HOURS.
- 8. FENCES, LANDSCAPING, AND OTHER ITEMS WILL NOT BE INSTALLED WITHIN 3 FT, AND WHERE THEY WILL OBSTRUCT THE VISIBILITY OR ACCESS TO HYDRANTS, OR REMOTE FDCS.
- 9. LICENSE REQUIREMENTS OF EITHER RME-U OR G. WHEN CONNECTING BY UNDERGROUND TO THE WATER PURVEYOR'S MAIN FROM THE POINT OF CONNECTION OR VALVE WHERE THE PRIMARY PURPOSE OF WATER IS FOR FIRE PROTECTION SPRINKLER SYSTEM.
- 10. A SEPARATE PERMIT IS REQUIRED FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.

WATER AND WASTEWATER UTILITY NOTES:

- 1. THE CITY OF GEORGETOWN IS THE WATER AND WASTEWATER SERVICE PROVIDER FOR THIS DEVELOPMENT. A PRECONSTRUCTION MEETING WITH THE WATER AND WASTEWATER SERVICE PROVIDER SHALL BE HELD PRIOR TO COMMENCEMENT OF CONSTRUCTION TO SCHEDULE INSPECTION OF INSTALLATION OF WATER/WASTEWATER FACILITIES. WATER FACILITIES WILL BE INSPECTED UP TO, AND INCLUDING, THE WATER METER AND/OR FIRE HYDRANTS. THE CONTACT NUMBER FOR THE CITY OF GEORGETOWN IS (512) 930-2572.
- 2. THE WATER AND WASTEWATER SERVICE PROVIDER STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL GOVERN MATERIAL AND METHODS USED TO DO THIS WORK
- 3. THE WATER AND WASTEWATER SERVICE PROVIDER SHALL BE CONTACTED AT LEAST 48 HOURS BEFORE CONNECTING TO EXISTING WATER AND WASTEWATER FACILITIES.
- 4. CONTRACTOR SHALL CONTACT THE WATER AND WASTEWATER SERVICE PROVIDER FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. IN ADVANCE OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.
- NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND/OR WASTEWATER SERVICES.
- 6. THE SEPARATION DISTANCE BETWEEN WATER MAINS, WASTEWATER MAINS, AND OTHER UTILITIES SHALL COMPLY WITH TCEQ RULES OR HAVE A VARIANCE APPROVED BY TCEQ BEFORE SUBMITTING PIPING ASSIGNMENTS TO THE WATER AND WASTEWATER SERVICE PROVIDER.
- 7. ALL MATERIAL TESTS, INCLUDING SOIL DENSITY TESTS AND RELATED SOIL ANALYSIS, SHALL BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY FUNDED BY THE DEVELOPER IN ACCORDANCE WITH WATER AND WASTEWATER SERVICE PROVIDER STANDARDS.
- PRESSURE TAPS SHALL BE IN ACCORDANCE WITH WATER AND WASTEWATER SERVICE PROVIDER STANDARDS. CONTRACTOR SHALL PERFORM ALL WORK AND SHALL FURNISH ALL MATERIALS NEEDED TO MAKE THE CONNECTION. CONTRACTOR SHALL SCHEDULE ALL SUCH CONNECTIONS IN ADVANCE AND SUCH SCHEDULE MUST BE APPROVED BY THE WATER AND WASTEWATER SERVICE PROVIDER BEFORE BEGINNING THE WORK. AT LEAST 48 HOURS NOTICE SHALL BE GIVEN TO THE WATER AND WASTEWATER SERVICE PROVIDER PRIOR TO MAKING THE CONNECTION, AND A REPRESENTATIVE FROM THE WATER AND WASTEWATER SERVICE PROVIDER SHALL BE PRESENT WHEN THE CONNECTION IS MADE. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED, UNLESS MADE BY USE OF AN APPROVED FULL CIRCLE-GASKETED TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES 24 HOURS PRIOR TO MAKING THE WET TAP.
- 9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH WATER AND WASTEWATER SERVICE PROVIDER STANDARDS.
- 10. FIRE HYDRANT SHALL BE SET IN ACCORDANCE WITH WATER AND WASTEWATER SERVICE PROVIDER STANDARDS AND SHALL BE APPROVED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE PARTY PRIOR TO INSTALLATION.
- 11. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH WATER AND WASTEWATER SERVICE PROVIDER STANDARDS.
- 12. GRAVITY SANITARY SEWER MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE WATER AND WASTEWATER SERVICE PROVIDER STANDARDS.
- 13. CONTRACTOR SHALL HAVE ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS IN PLACE PRIOR TO COMMENCING WATER/WASTEWATER FACILITY CONSTRUCTION.

	CITY OF GEORGETOWN GENERAL NOTES	App.		
1.	THESE CONSTRUCTION PLANS WERE PREPARED, SEALED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.			
2.	THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT OF THE CITY.			
3.	THE SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.			
4.	WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.	sions		
5. 6	WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS.	Revis		
7.	WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TESTED AND MANDREL TESTED BY THE			
8.	WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY THE CONTRACTOR	Date		
9.	ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS. WASTEWATER MAINS SHALL BE CAMERA TESTED BY THE CONTRACTOR AND SUBMITTED TO	No.		
10.	THE CITY ON DVD FORMAT PRIOR TO PAVING THE STREETS. PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY THE CONTRACTOR TO 200 PSI FOR 2	ပ		ε
11.	HOURS. PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN	g, LI	e	8633 g.co
12	TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS.	erinç	Driv 21	(p) aben
12.	AT 150 PSI FOR 4 HOURS.	jinec	() iams 12-1;	wn, 414 n@j
ı <i>3</i> .	ALL BLINDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.	Eng	4076 Willi ite 2	geto 779-7 bara
14. 15.	LONG FIRE HYDRANT LEADS SHALL BE RESTRAINED. ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE	JAB	(F-1/ 4500 Su	Geor 512-7 josh.
16.	CITY STANDARDS AND SPECIFICATIONS. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF THE TCEQ AND THE			
17	CITY. FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TXDOT TYPE & GRADE 1			
18.	HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED			
19.	ALL SIDEWALK RAMPS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.			
20.	A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. THIS BOND SHALL BE ESTABLISHED FOR 1 YEAR IN THE AMOUNT OF 25% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT.			
2	THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE ON MYLAR OR ON TIFF OR PDF (300P DPI). IF A DISK IS SUBMITTED, A BOND SET SHALL BE INCLUDED WITH THE DISK.		RANCH	NTERA WAY NN, TEXAS 78626
			GOLF	100 CA GEORGETO
			NOTES	
			GENERAL	
		Allo * 5 PROSE	OSHUA A. E 109242	OT 23 SARAN BARAN BARAN BARAN BARAN BARAN BARAN BARAN BARAN BARAN
		Projec Issuec Drawn Check	t No.: 210 d: 01/ By: JAB red By: JAB C.1:	010 05/2023 3 3 3
		Sh	eet <u>13</u> 0 2021-27-S	WP

	Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes
	Edwards Aquifer Protection Program Construction Notes - Legal Disclaimer
The fo Direct comp provid comm conne	following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive ctor (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve pliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations iding for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the mission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically nected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC,
Chapa Failur violati subje	oters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Ire to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any tion is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be ect to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC,
Chapi	oters 213 and 217, or any other TCEQ applicable regulation
1.	A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include: - the name of the approved project; - the activity start date; and - the contact information of the prime contractor.
2.	All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the 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(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
4.	No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
5.	Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
6.	Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
7.	Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.
8.	Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
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 owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
10.	If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14 th day of inactivity. If activity will resume prior to the 21 st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14 th day, stabilization measures shall be initiated as soon as possible prior to the soon as possible.
11.	 The following records shall be maintained and made available to the TCEQ upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.
12.	The holder of any approved Edward Aquifer protection plan must notify the appropriate 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 ability of the plan to prevent pollution of the Edwards Aquifer;
	C. any development of land previously identified as undeveloped in the original water pollution abatement plan.
Aus 121(Aus Pho Fax	stin Regional Office 00 Park 35 Circle, Building A stin, Texas 78753-1808 one (512) 339-2929 c (512) 339-3795
San 1425 San Pho Fax	n Antonio Regional Office 250 Judson Road n Antonio, Texas 78233-4480 one (210) 490-3096 < (210) 545-4329
THE TO	ESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED THE CONTRACTOR AND ALL SUBCONTRACTORS.
TCE	EQ-0592 (Rev. July 15, 2015)

I AN	DSCA	PE NOTES.
1	Comp	ete all landscape planting and related earthwork including all products, equipment and labor, for the landscape areas shown on
י. כ	the dra	awing and described in the specifications.
3.	Inform	ation provided on this plan is general in nature. Dimensions, locations, and areas are approximate and should be field verified prior
4.	Quant	ities shown for plant materials are approximate. Actual installed quantities of plant materials may vary from the plan and should be
-	contra	ctor should be brought to the attention of the landscape architect prior to installation.
э.	quality	ong, the contractor acknowledges that hershe has satisfied nimsel/hersen as to the nature and location of the work and to the of surface and subsurface materials or obstacles insofar as this data is reasonably ascertainable from an inspection of the site.
	Any fa estima	ilure by the contractor to acquaint himself/herself with the available information will not relieve him/her from responsibility for ting properly the difficulty or cost of successfully performing the work as described.
6. 7.	Installa Unless	ation of all landscaping must be coordinated with the installation of related irrigation, site work, and grading. s specifically noted, install all massed planting utilizing equilateral triangular spacing.
8. 9.	Evenly Substi	r apply 3" of mulch to all continuous planting beds. Mulch will be provided and installed by the contractor. tutions of plant species, sizes, or other specified materials will not be allowed without prior approval by the project landscape
10.	archite Plant r	ect. naterial a n d layout must be approved by the project landscape architect prior to installation.
11.	All ide Tags a	ntification tags provided by growers and placed on trees and shrubs are to remain on the plants through the punch-list inspection. are to be removed prior to final acceptance, or upon request of the project landscape architect.
12.	Seed	nix/solid sod will be applied to all construction-damaged ground surfaces not otherwise planted. Contractor shall review related
13	actual	areas of seeding required, including areas disturbed by utility extensions.
14.	All pla	nting beds indicated will be irrigated with an underground automatic irrigation irrigation contractor is to be a state of Texas licensed
15	irrigati	n, and is to follow an FOEQ codes and regulations. Contractor is responsible for providing as-built drawings and specifications for on system including pipe sizes and locations.
10.	sufficie	ently soak the soil to a depth of six inches. The irrigation shall occur at ten-day intervals during the first two months. Rainfall
40	grown	at least 1-1/2 inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.
16.	weeds	ar maintenance is required or all landscape areas and plant materials in a vigorous and nealiny condition, free from diseases, pest , and litter. This maintenance shall include weeding, watering, fertilization, pruning, mowing , edging, mulching or other needed
	archite	nance, in accordance with generally accepted norticultural practices until the project has been accepted by the project landscape ect.
17.	The ov areas.	vners of the landscaped property, or the manager or agent of the owner, shall be responsible for the maintenance of all landscape Said areas shall be maintained so as to present a healthy, neat and orderly appearance at all times and shall be kept free of
	refuse contin	and debris. All planting beds shall be provided with a readily available water supply and watered as necessary to ensure Jous healthy growth a n d development. Maintenance shall include the replacement of all dead plant material if that material was
18.	used t All par	o meet the requirements of the ordinance. king lot landscape islands will have a 6 " crown above the top of curb.
LAN	USCA	
1.	Lands landso	cape contractors are to bid on one-year of maintenance for the landscape in addition to the bid proposal for installation. The ape maintenance should be a separate line item from the landscape installation bid proposal.
2.	Contra	ctors are to adhere to the landscape maintenance specifications when preparing the landscape maintenance bid proposal.
LAN	DSCA	PE MAINTENANCE SPECIFICATIONS:
The p	propert	/'s landscaping shall be maintained in first class condition at all times. The quality of the landscape maintenance should meet the ormally provided by landscape companies in Georgetown, It will at all times have a part clean, beauthy, and manicured
appe	arance	Contractor shall provide for fifty-two visits per year.
	T	
1.	тип А.	areas Mowing and edging of all turf areas shall be performed at least once per week. January through December.
	B.	Perennial rye grass over-seeding shall be separate and must be approved by management prior to over-seeding. Over-seeding
	0	shall be done in a manner and at a rate to insure a lush, thick consistent winter turf.
	С. D	I rimming and edging of turf areas to be performed at each visit. All turf areas are to be fertilized a minimum of four times per year with a high quality, slow release fertilizer from a reputable
	5.	manufacturer.
	E.	Contractor shall apply appropriate fungicides as necessary and pre-emergent herbicide two times per year and post-emergent herbicide at the time deemed most efficient and favorable by contractor.
	F.	Turf to be treated as often as necessary with appropriate insecticide to control normal soil pests.
	G.	Treat fire ants in all turf areas as necessary.
	Н.	Raking to be performed as needed to maintain appearance.
	Ι.	De-thatch and aerate turt once during the year in conjunction with rye overseeding. If owner opts to not perform rye overseed, de-thatching and aerating to be performed in early spring.
	J.	Bag all areas within 45 feet of buildings, driveways, and sidewalks.
	Chr	he ground cover hade and annuale
	A.	To be maintained weed free, as needed using appropriate herbicides and manual weeding. Use a minimum of two pre-emergent
		applications and manually weed each visit.
	B.	To be fertilized four times per year with a balanced high quality, slow release fertilizer, appropriate to the shrubs on the project.
	C.	Shrubbery to be hand trimmed as specified to maintain a manicured appearance or as otherwise requested by owner. Use only skilled personnel with significant experience in class a properties. No shearing, all to be done with selective hand pruning to keep
	П	plant within bounds but to maintain a natural shape and appearance.
	E.	To be sprayed with appropriate insecticides and fungicides as necessary.
	F.	Annuals to be changed out four times per year using four (4) inch pots and fertilized at each change. Monitor and apply
	Δ	fungicides and insecticides as necessary to insure maximum vigor and
	A. G.	Appearance.
		becomes so excessive as to be detrimental to plant health, rake out and dispose of excess quantities of the oldest material.
	Н. 1	All traffic and directional signage to be kept free and clear from all bushes/shrubs, etc.
III.	r. Land	Iscape trees (4" caliper or less)
	A.	To be lightly pruned as necessary (at least once a month during growing season).
	В.	To be pruned and shaped once during winter months. Prune to class I standards. Notify management prior to and immediately following pruning activity. Pruning to be done by gualified tree care firm subject to management approach.
	C.	Deep root fertilize all landscape trees one time per year. Submit information on materials, application methods and applicator
	-	qualification one week prior to performing work.
IV	D. Laro	An usinc and directional signage to be kept free of tree limbs and branches. e trees (greater than 4" caliper)
	A.	Keep trees free of vines at all times.
	В.	Contractor shall at all times be on the lookout for insect and disease infestations and other tree damage such as lightning or
		taken.
V.	Deb	is and litter
	A. P	Normal trash and litter will be removed from all lawn and landscaped areas weekly.
	ы. С.	Remove debris from pots/planters on sidewalks.
VI.	Pave	ad areas
	Α.	At parking lot perimeters and paving joints, weeds and grasses are to be controlled with contact herbicide sprays and manual weeding as required.
	В.	All debris resulting from any and all landscape work shall be cleaned up immediately.
VII.	Irriga	ation
	Α.	Contractor shall be responsible for maintaining and operating all irrigation systems at the property except as may be otherwise noted.
	В.	Irrigation systems must be inspected monthly and a report must be submitted to management. Management must approve
		repairs greater than \$250.00.
	C.	Contractor will ensure that watering cycles are in compliance with any city guidelines as a result of water rationing or water conservation. Any fees or penalties incurred by violation of Ordinances will be billed to contractor.
	D.	All heads and nozzles broken by landscape maintenance operations will be repaired or replaced at contractor expense.
\ <i>n</i>	E.	All nozzles will be cleaned monthly if necessary and all heads will be adjusted as needed.
vill.	Gen ⊿	erai Contractor shall provide adequate supervision to assure that all work will be done in accordance with this agreement and
	А.	generally accepted good practice. A weekly visit by a qualified supervisor is a minimum requirement. Adequate time shall be
	P	allowed for a thorough and complete examination of the entire property.
	В.	contractor shall replace at contractor s expense any plant material that dies due to damage by lawn maintenance, equipment or contractor's negligence.
	C.	All work shall be performed by contractor's employees; no work shall be performed by Subcontractors without written consent of management.
	D.	All employees will wear uniforms and provide a neat appearance and professional behavior at all times.
	E.	Crew members will observe all OSHA regulations. All equipment will be properly maintained and kept in a safe operating
	F	condution. All debris resulting from any and all landscape work shall be immediately cleaned up and removed from site. Use of an on-site
		dumpster is prohibited.
	~	Additional projects landscape ungrades, etc. Will be negotiated as needed

H. If there are pots or sidewalk planters at property, contractor shall maintain irrigation or hand water as needed. Contractor to maintain plants/annuals in pots/containers in accordance with all specs noted above.

1 SHADE TREE PLANTING

VARIES

***** Texas 81

			d
2	LEGEND:		Ap
) FR	PROPERTY LINE		
	LOT LINE		
ES. WILL THE	EASEMENT LINE		
	EXISTING EDGE OF PAVEMENT		
	EXISTING OVERHEAD ELECTRIC LINE	· · ·	<u>م</u>
	PROPOSED FIRE LANE		vision
	PROPOSED SCREEN FENCE		Re
	LIMITS OF CONSTRUCTION	<u> </u>	fe
	ACCESSIBLE ROUTE		
	EXISTING HERITAGE TREE DRIP LINE	()	° Z
			(

★ Texas 81

ATTACHMENT G MAINTENANCE PLAN AND SCHEDULE FOR BMPs

PROJECT	NAME:
ADDRESS	:
CITY, STA	TE:

Golf Ranch	
100 Cantera Way	- () Alexandre ()4444
Georgetown, TX	

BATCH DETENTION BASIN

- Inspections: Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.
- Mowing. The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching
 mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently
 if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. Litter and
 Debris Removal. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections.
 Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure.
 The outlet should be checked for possible clogging or obstructions and any debris removed.
- Erosion control. The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections. Nuisance Control. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).
- Structural Repairs and Replacement. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.
- Sediment Removal. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can
 detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate
 near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when
 sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care
 should be taken not to compromise the basin lining during maintenance.
- Logic Controller. The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: Mailing Address: City, State: Telephone:	The Golf Ranch LLC 100 Cantera Way Georgetown, TX (512) 863-4573		Zip: <u>78628</u> Fax:
Signature of Respo	onsible Party Jacobe	offene	Date 10-18-2
Engineer: Firm: TBPE Firm No.: Mailing Address: City, State: Telephone:	Joshua A. Baran, P.E. JAB Engineering, LLC F-14076 4500 Williams Drive, Ste. 212-121 Georgetown, TX 78633 (512) 779-7414		JOSHUA A. BARAN JOSHUA A. BARAN 109242 CENSED ONAL ENGINE

ATTACHMENT I

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

The proposed development does not increases the peak discharge of the 2, 10, 25, and 100-year events, as the development is existing. The discharge will be directed to a batch detention pond and outfall to the adjoining property.

VII. Agent Authorization Form

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

Loralee St.John	
	Print Name
Managing Member	,
Title - Ow	ner/President/Other
ofThe Golf Ranch LLC	,
Corporation/F	² artnership/Entity Name
have authorized <u>Joshua A. Baran, P.E</u> Print Nam	e of Agent/Engineer
of JAB Engineering, LL Prin	C. t 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.

plicant's Signatu

Date

THE STATE OF Texas §

County of Williamsons

BEFORE ME, the undersigned authority, on this day personally appeared <u>David Immenhauser</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 Kan day of October,_____.

Michelle Baran Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 02-21-2022

VIII. Application Fee Form

Application Fee Form

Texas Commission on Environme Name of Proposed Regulated Ent Regulated Entity Location: <u>100 Ca</u> Name of Customer: <u>The Golf Rame</u> Contact Person: <u>Loralee St. John</u> Customer Reference Number (if i Regulated Entity Reference Numb Austin Regional Office (3373)	ental Quality ity: <u>Golf Ranch</u> <u>intera Way, Georgetow</u> <u>ch, LLC</u> Phor ssued):CN per (if issued):RN	r <u>n, TX 78626</u> ne: <u>512-863-4573</u> -	
Hays San Antonio Regional Office (336	Travis	W	illiamson
Bexar Comal	Medina	Uv []	valde
Application fees must be paid by Commission on Environmental C form must be submitted with yo	check, certified check, o Quality. Your canceled o ur fee payment. This p	or money order, payab check will serve as you bayment is being submi	le to the Texas r receipt. This itted to:
 Austin Regional Office Mailed to: TCEQ - Cashier Revenues Section Mail Code 214 San Antonio Regional Office Overnight Delivery to: TCEQ - Cashier 12100 Park 35 Circle Building A, 3rd Floor 			
P.O. Box 13088 Austin, TX 78711-3088 Site Location (Check All That App	/ (bly):	Austin, TX 78753 512)239-0357	
Recharge Zone	Contributing Zone	Transi	tion Zone
Type of Pla	ท	Size	Fee Due
Water Pollution Abatement Plan, Plan: One Single Family Residenti	Contributing Zone al Dwelling	Acres	\$
Water Pollution Abatement Plan, Plan: Multiple Single Family Resid	Contributing Zone lential and Parks	4.26 Acres	\$ 4,000
Water Pollution Abatement Plan, Plan: Non-residential	Contributing Zone	Δcres	\$
Sewage Collection System		L.F.	\$
Lift Stations without sewer lines		Acres	\$
Underground or Aboveground Sto	orage Tank Facility	Tanks	\$
Piping System(s)(only)		Each	\$
Exception		Each	\$
Extension of Time		Each	\$
12			

Signature:

Date: 10/21/2021

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	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional,	< 1	\$3,000
multi-family residential, schools, and other sites	1 < 5	\$4,000
where regulated activities will occur)	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000
Organized Sowage Collection Systems and	Modifications	

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests					
Project	Fee				
Exception Request	\$500				
Extension of Time Requests					
Project	Fee				

IX. Core Data Form

TCEQ Core Data Form

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)							
New Customer Update to Customer Information Change in Regulated Entity Ownership Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)							
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).							
6. Customer Legal Name (If an individual, pri	int last name first: eg: Doe, John)		If new Customer, e	enter pre	evious Customer	below:	
The Golf Ranch, LLC							
7. TX SOS/CPA Filing Number 0801109915	/CPA Filing Number 8. TX State Tax ID (11 digits) 15 32039308518			9. Federal Tax ID 10. (9 digits)		umber <i>(if</i>	
11. Type of Customer: 🛛 Corpora	tion	🗌 Individu	ual	Partne	ership: 🔲 Gener	al 🗌 Limited	
Government: 🗌 City 🗌 County 🗋 Federal 🗌	Local 🔲 State 🗌 Other	Sole Pr	oprietorship	🗌 Otl	her:		
12. Number of Employees			13. Independer	ntly Ow	ned and Opera	ated?	
⊠ 0-20 □ 21-100 □ 101-250 □ 251-	500 🔲 501 and higher		X Yes	No			
14. Customer Role (Proposed or Actual) – as i	it relates to the Regulated Entity liste	d on this form. P	Please check one of	the follo	owing		
Owner Operator Occupational Licensee Responsible Pa	Owner & Operator rty VCP/BSA Applicant		Other:				
100 Cantera Way 15. Mailing							
Address							
City Georgetown State TX ZIP			IP 78628 ZIP + 4				
16. Country Mailing Information (if outside	16. Country Mailing Information (if outside USA)17. E-Mail						
			1				
18. Telephone Number 19. Extension or Cod			20. Fax N	umber	(if applicable)		

(152)863-4573
---	-----	-----------

() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)										
New Regulated Entity Dpdate to Regulated Entity Name Dpdate to Regulated Entity Information										
The Regulated Entity Nam as Inc, LP, or LLC).	ne submitte	d may be updat	ted, in order to me	et TCEQ Co	ore Da	ta Stan	dards (ro	emoval of oi	rganizatior	al endings such
22. Regulated Entity Nam	e (Enter nam	e of the site where	e the regulated actio	n is taking pl	ace.)					
Golf Ranch										
23. Street Address of the Regulated Entity:	100 Cantera	a Way								
<u>(No PO Boxes)</u>	City	Georgetown	State	ТХ	ZIF	D	78628		ZIP + 4	
24. County	Williamson	1								
		If no Stree	et Address is provi	ded, fi elds	25-28	are rec	quired.			
25. Description to										
Physical Location:										
26. Nearest City							State		Nea	rest ZIP Code
Georgetown							ТХ		7862	28
Latitude/Longitude are re used to supply coordinate	equired and es where no	may be added ne have been p	/updated to meet rovided or to gain	TCEQ Core accuracy).	Data :	Standa	rds. (Geo	ocoding of th	ne Physical	Address may be
27. Latitude (N) In Decim	al:	30.633599		28.	Longit	tude (W	/) In Dec	imal:	-97.7616	41
Degrees	Minutes		Seconds	Degr	ees		٦	vlinutes		Seconds
30		38	0.93			97		45		41.54
29. Primary SIC Code	30.	Secondary SIC (Code	31. Prima	ary NA	AICS Cod	de	32. Seco	ndary NAI	CS Code
(4 digits)	(4 d	igits)		(១ ០០ ០ ០០០	115)			(5 or 6 dig	gits)	
5941	030	0		459110						
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)										
Golf Pro Shop										
34. Mailing	100 Cantera Way									
Address:				1	_		1			1
	City	Georgetown	State	ТХ		ZIP	78628		ZIP + 4	
35. E-Mail Address:	golf	ranchshop@veriz	on.net			_				
36. Telephone Number			37. Extension or	Code		38. Fa	ax Numb	er <i>(if applical</i>	ble)	
(512) 863-4573	() -									

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 OSSF	Petroleum Storage Tank	D PWS
Sludge	Storm Water	🔲 Title V Air	Tires	Used Oil
Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	Joshua A. Baran, P.E.		41. Title:	Owner's Representative		
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512)779-7414			() -	josh.baran@jabeng.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:	JAB Engineering, LLC	Job Title:	Owner's Representative for Golf Ranch		
Name (In Print):	Joshua A. Baran, P.E.			Phone:	(512)779-7414
Signature:	John			Date:	5/6/2023
				•	·