Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

- Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.
 - To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.
- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.
 - An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.
- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Elsewhere Garden Bar & Kitchen					2. Regulated Entity No.: 11761375					
3. Customer Name: Elsewhere Hospitality, LLC				4. Customer No.: 606153575						
5. Project Type: (Please circle/check one)	New		Modif	fication	1	Exter	sion	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)	Residen	tial	Non-r	residen	ıtial	8. Site		e (acres):	4.32	
9. Application Fee:	\$650.00)	10. P	10. Permanent BMP(s):			s):	N/A		
11. SCS (Linear Ft.):	432.80	·	12. AST/UST (No. T			o. Tanks):		N/A		
13. County:	Bexar	·	14. Watershed:			Upp		Upper San Ant	Upper San Antonio	

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%2oGWCD%2omap.pdf

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

Austin Region						
County:	Hays	Travis	Williamson			
Original (1 req.)	_	_	_			
Region (1 req.)	_	_	_			
County(ies)	_	_	_			
Groundwater Conservation District(s)	Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek	Barton Springs/ Edwards Aquifer	NA			
City(ies) Jurisdiction	AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorenceGeorgetownJerrellLeanderLiberty HillPflugervilleRound Rock			

San Antonio Region						
County:	Bexar	Comal	Kinney	Medina	Uvalde	
Original (1 req.)	_x_	_	_	_	_	
Region (1 req.)	_x_	_			_	
County(ies)	_X_	_	_			
Groundwater Conservation District(s)	_x_ Edwards Aquifer Authority _x_Trinity-Glen Rose	Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde	
City(ies) Jurisdiction	Castle HillsFair Oaks RanchHelotesHill Country VillageHollywood Park _x_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.					
Terrin Fuhrmann Terrin Fuhrman					
Print Name of Customer/Authorized Agent					
Int	7-19-23				
Signature of Customer/Authorized Agent	Date / 10 20				

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



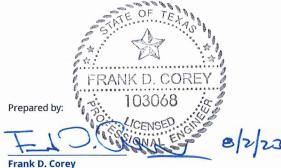
Sewage Collection System

August 2, 2023

Elsewhere Garden Bar & Kitchen

Prepared for:

Elsewhere Garden Bar & Kitchen 4513 North Loop 1604 West, San Antonio, Texas 78249



TX Professional Engineer License No. 103068 **Colliers Engineering & Design**

3421 Paesanos Pkwy, Ste. 200 San Antonio Texas 78231 US Main: 877 627 3772 Colliersengineering.com

Project No.1082-01-02



August 7, 2023

TCEQ Region 13 14250 Judson Road San Antonio, TX, 78233

Re:

Elsewhere Garden Bar & Kitchen
Organized Sewage Collection System

To Whom It May Concern:

Please find attached the "Elsewhere Garden Bar & Kitchen", Sewage Collection System Application. This application has been prepared to be consistent with the Texas Commission on Environmental Quality 30 TAC 213, 30 TAC 217, and its current policies for development over the Edwards Aquifer Recharge Zone.

This Sewage Collection System Application is for 432.80 L.F. of 2" force main. Please review the SCS report for completeness and compliance with the applicable regulations for development over the Recharge Zone of the Edwards Aquifer. Upon acceptance, we request that written approval be provided to our office.

We appreciate your time and consideration in this matter. Should additional information be required, please call our office.

Sincerely,

Colliers Engineering & Design, Inc.

Frank D. Corey, P.E.

Senior Project Manager



Table of Contents

GENERAL INFORMATION	SECTION 1
GENERAL INFORMATION FORM	TCEQ-0587
Road Map	Attachment A
USGS/EARZ Exhibit	Attachment E
Project Description	Attachment C
GEOLOGIC ASSESSMENT	SECTION 2
GEOLOGIC ASSESSMENT FORM	TCEQ-0585
Geologic Assessment Table	Attachment A
Stratigraphic Column	Attachment E
Narrative Description of Site Geology	Attachment C
Site Geologic Map	Attachment D
References	
ORGANIZED SEWAGE COLLECTION SYSTEM PLAN	SECTION 3
ORGANIZED SEWAGE COLLECTION SYSTEM APPLICATION	TCEQ-0582
Engineering Design Report	
Justification and Calculations for Deviation in Straight Alignment Without Manholes	Attachment E
Justification for Variance from Manhole Spacing	
Calculations for Slopes for Flows Greater Than 10.0 Feet per Second Site Plan, Final Plan, o	and Profile Sheets
	Attachment D
LIFT STATION/ FORCE MAIN SYSTEM APPLICATION	SECTION 4
LIFT STATION/ FORCE MAIN COLLECTION SYSTEM APPLICATION	TCEQ-0602
Engineering Design Report Site Plan, Final Plan, and Profile Sheets	Attachment A
TEMPORARY STORMWATER SECTION	SECTION 5
Temporary Stormwater Section	TCEQ-0624
Spill Response Actions	Attachment A
Potential Sources of Contamination	Attachment E
Sequence of Major Activities	Attachment C
Temporary Best Management Practices and Measures	Attachment D
Request to Temporarily Seal a Feature (if requested)	Attachment E
Structural Practices	Attachment F
Drainage Area Map	Attachment G
Temporary Sediment Pond(s) Plans and Calculations	Attachment H
Inspection and Maintenance for BMPs	Attachment i
Schedule of Interim and Permanent Soil	Attachment J
ADDITIONAL FORMS	SECTION 6
AGENT AUTHORIZATION FORM	TCEQ-0599
APPLICATION FEE FORM	TCEQ-0574
Check Payable to the "Texas Commission on Environmental Quality"	
Core Data Form	TCEQ-10400
EXHIBITS	Section 7
UTILITY PLAN	Ехнівіт 1
Existing & Proposed Condition Drainage Map	
PECORDED WARRANTY DEED	EVIJIBIT 2



SECTION 1
GENERAL INFORMATION

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: Frank D. Corey, PE Date: 7/13/2023

Signature of Customer/Agent:

Project Information

1.	Regulated	Entity	Name:	Elsew	here	Garden	Bar	&	Kitcher	1
		•								_

2. County: Bexar

- 3. Stream Basin: Upper San Antonio Watershed
- 4. Groundwater Conservation District (If applicable): Trinity Glen Rose GCD and Edwards **Aquifer Authority**

5.	Edwards Aquifer Zone:	
	Recharge Zone Transition Zone	
6.	Plan Type:	
	WPAP SCS	☐ Modification ☐ AST

	UST UST	Exception Request
7.	Customer (Applicant):	
	Contact Person: Terrin Fuhrmann Entity: Elsewhere Hospitality, LLC Mailing Address: 110 N. Manton Ln. City, State: San Antonio, TX Telephone: 210-393-0511 Email Address: terrinfuhrmann@yahoo.com	Zip: <u>78213</u> FAX:
8.	Agent/Representative (If any):	
	Contact Person: Frank D. Corey, PE Entity: Colliers Engineering & Design Mailing Address: 3421 Paesanos Pkwy, Suite 200 City, State: San Antonio, TX Telephone: 726-223-4992 Email Address: frank.corey@collierseng.com	Zip: <u>78231-4406</u> FAX:
9.	Project Location:	
10.	 ☑ The project site is located inside the city limits ☑ The project site is located outside the city limit jurisdiction) of ☑ The project site is not located within any city's ☑ The location of the project site is described bel detail and clarity so that the TCEQ's Regional strength 	s but inside the ETJ (extra-territorial limits or ETJ. ow. The description provides sufficient
	boundaries for a field investigation.	
	From the TCEQ office take Judson Rd. North ur about 11 miles. The site is located North of NW Military.	
11.	Attachment A – Road Map. A road map showing project site is attached. The project location are the map.	_
12.	Attachment B - USGS / Edwards Recharge Zon USGS Quadrangle Map (Scale: 1" = 2000') of th The map(s) clearly show:	• • • • • • • • • • • • • • • • • • • •
	 ☑ Project site boundaries. ☑ USGS Quadrangle Name(s). ☑ Boundaries of the Recharge Zone (and Trange) ☑ Drainage path from the project site to the Identical Project site to the Identical Project Site (and Trange) 	
13.	The TCEQ must be able to inspect the project Sufficient survey staking is provided on the pro	

	boundaries and alignment of the regulated activities and the geologic or manmade tures noted in the Geologic Assessment.
⊠ Sur	vey staking will be completed by this date: Completed
nar	achment C – Project Description. Attached at the end of this form is a detailed rative description of the proposed project. The project description is consistent oughout the application and contains, at a minimum, the following details:
	Area of the site Offsite areas Impervious cover Permanent BMP(s) Proposed site use Site history Previous development Area(s) to be demolished
15. Existing	g project site conditions are noted below:
	Existing commercial site Existing industrial site Existing residential site Existing paved and/or unpaved roads Undeveloped (Cleared) Undeveloped (Undisturbed/Uncleared) Other:
Prohib	ited Activities
	n aware that the following activities are prohibited on the Recharge Zone and are not posed 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.
	n aware that the following activities are prohibited on the Transition Zone and are proposed for this project:

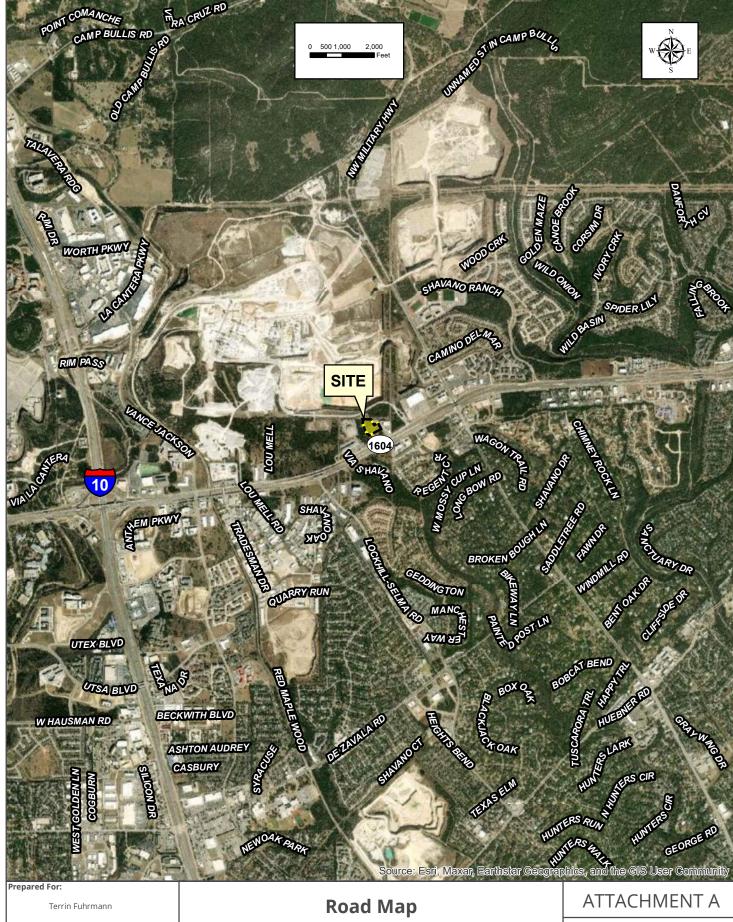
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in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

Administrative Information

18. The	e 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 regiona 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.



ROAD MAP



Prepared By:

San Antonio Office 3421 Paesanos Pkwy San Antonio, TX T: 877.627.3772 www.colliersengineering.com

Colliers
Engineering & Design

Road Map Elsewhere Garden Bar & Kitchen

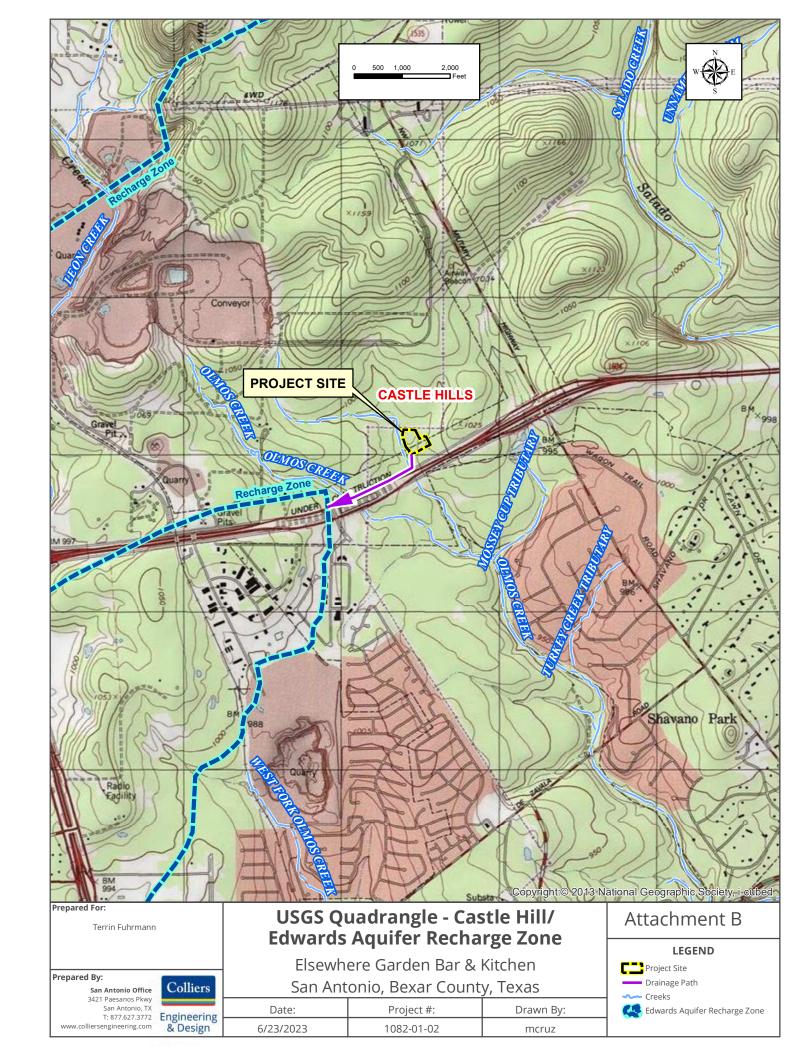
San Antonio, Bexar County, Texas

Date:	Project #:	Drawn By:
5/19/2023	1082-01-02	mcruz

LEGENDSite



USGS/EARZ MAP





PROJECT DESCRIPTION

The Elsewhere Garden Bar & Kitchen is an undeveloped tract that lies within the City of San Antonio, TX, and is located within the Edwards Aquifer Recharge Zone and the Upper San Antonio Watershed. Project wastewater will be disposed of to the existing Dos Rios Wastewater Treatment Plant. This SCS project will serve a future restaurant and bar. The property is not located within the 100-year floodplain as per the Flood Emergency Management Agency (FEMA) Flood Insurance Map (FIRM) #48029C0230G dated September 29, 2010.

The regulated activity involved with this permit consists of the installation of a 2" HDPE force main and lift station. The proposed sewer system will convey 66 EDUs. The proposed force main will connect to the existing 8" sanitary sewer manhole (SAWS Job No. 09-1567) located on Lot 11, Block 1 of The Ridge (East) 2 Plat. The wastewater will be treated by the Dos Rios Wastewater Treatment Plant.

The 2" force main will consist of 432.80 L.F of HDPE. Temporary BMP's will be implemented for this project to prevent erosion and sedimentation until completion of construction. All improved areas that do not have impervious cover will be stabilized with either vegetation or landscaping when construction is complete and prior to removal of any temporary BMPs.

There will not be any storage of regulated quantities of hazardous materials. Potable water will be supplied by San Antonio Water Systems (SAWS). Wastewater will also be collected and treated by SAWS.



SECTION 2
GEOLOGIC ASSESSMENT

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: Roman C. Pineda,	Telephone: <u>(210) 979-8444</u>
<u>P.G.</u>	Fax: <u>(210) 979-8441</u>
Date: <u>7/28/2023</u>	
Representing: <u>KFW Engineers, TBPE Firm #9513</u> (N registration number)	lame of Company and TBPG or TBPE
Regulated Entity Name: Elsewhere Garden Bar & I	7-28-2023 Roman C. Pineda Geology 10083
1. Date(s) Geologic Assessment was performed: N	November 22, 2022
2. Type of Project:	
WPAPSCSLocation of Project:	☐ AST ☐ UST
Recharge Zone Transition Zone	

Contributing Zone within the Transition Zone

4.			ologic Assessmentable) is attached.		Complete	d Geol	ogic Asses	sment Table
5.	Hydrolog 55, Appe	ic Soil Gro ndix A, Soi	oject site is summ ups* (Urban Hydr I Conservation Sel ow each soil type o	ology forvice, 19	or Small W 986). If the	atershe ere is m	eds, Techn nore than	ical Release No. one soil type on
	ble 1 - Soil Uaracteristics	=			Soil Na	ime	Group*	Thickness(feet)
1	Soil Name Crawford, stony and Bexar soils, 0 to 5 percent slopes (Cb)	Group*	Thickness(feet) 0-3		A. B. C. D.	Soils h rate w Soils h infiltre wette Soils h rate w Soils h infiltre wette	naving a having a maving a mation rate d. daving a slaving a slaving a vertion rate dation rate d.	when thoroughly ow infiltration oughly wetted. ery slow when thoroughly
6.	members top of the	, and thicl	atigraphic Columic knesses is attache ohic column. Othe lumn.	d. The c	utcroppin	g unit,	if present	, should be at the
7.	including potential	any featu for fluid n	e Geology . A narra res identified in th novement to the E s is attached.	e Geol	ogic Assess	sment 7	rable, a di	scussion of the
8.	· 		e Geologic Map(s Plan. The minimu	-	_	-	must be t	he same scale as
	Site Geol	ogic Map S	n Scale: 1" = <u>30</u> ' Scale: 1" = <u>30</u> ' e (if more than 1 so	oil type): 1" = <u>N/A</u>	<u>.</u> '		
9.	Method of co	ollecting p	ositional data:					
	=	_	System (GPS) tech lease describe me		data colle	ction:		

$10.$ $igselow{1}{10}$ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. $igstyle igstyle igstyle$ Surface geologic units are shown and labeled on the Site Geologic Map.
12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
Geologic or manmade features were not discovered on the project site during the field investigation.
13. 🔀 The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
 ☐ There are _ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.) ☐ The wells are not in use and have been properly abandoned. ☐ The wells are not in use and will be properly abandoned. ☐ The wells are in use and comply with 16 TAC Chapter 76. ☐ There are no wells or test holes of any kind known to exist on the project site.
Administrative Todaymentics

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.

GEOL	OGIC AS	GEOLOGIC ASSESSMENT TABLE	NT TA	BLE			PRC)JEC	PROJECT NAME:	ш		Elsewhe	Elsewhere Garden Bar & Kitchen	3ar & Kitcl	ner					
	LOCATION	NC				ш	EAT	JRE C	FEATURE CHARACTERISTICS	TERI	STIC	(0			EVA	LUAT	NOI	PHYS	ICAL	EVALUATION PHYSICAL SETTING
14	18*	10.	2A	2B	3		4		9	5A	9	7	8A	88	o	-	10	£		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE	POINTS	FORMATION	DIMEN	DIMENSIONS (FEET)	ЕΤ)	TREND (DEGREES)	DOM	DENSITY A	APERTURE (FEET)	INFILE	RELATIVE INFILTRATION RATE	TOTAL	SENSI	SENSITIVITY	CATCHMENT AREA (ACRES)	r AREA	TOPOGRAPHY
						×	>	Z		10						<40	윘	6.1.0	×10	
S-1				Fe	ature lies out	side th	e SCS	50-ft er	welope. The	nerefor	e, featu	Ire was or	Feature lies outside the SCS 50-ft envelope. Therefore, feature was omitted from the SCS assessment	SCS assess	ment.					
S-2	29°35'50.9"N	98"34'18.2"W	CD	2	Fill	14	14	1.3	1	0			၁'၀	2	10	10		×		Hillside
S-3	29°35'49.6"N	98°34'19.9"W	CD	2	Fill	29	36	8	N42°W	0			0,0	2	10	9		×		Hillside
S-4	29°35'49.5"N	98*34'21.8"W	L.	20	Kep/Kdr/Kgt 495	495			N67°E	0			Я,О	22	25	25			×	Floodplain
S-5	29°35'51.5"N	98°34'16.0"W	MB	30	Kep	20			ï	0			O,C,F	15	45		45	×		Hillside
			-4																T	
																			T	
																	Ī			
																			r	
																			T	
																			H	
* DATUM	* DATUM: NAD 83																			

2A TYPE	PE TYPE	2B POINTS		
ပ	Cave	30	z	None, exposed bedrock
SC	Solution cavity	20	ပ	Coarse - cobbles, breakd
SF	Solution-enlarged fracture(s)	20	0	Loose or soft mud or soil
Œ.	Fault	20	II.	Fines, compacted clay-ric
0	Other natural bedrock features	ιΩ	>	Vegetation. Give details i
MB	Manmade feature in bedrock	30	FS	Flowstone, cements, cav
SW	Swallow hole	30	×	Other materials
N	Sinkhole	20		
CD	Non-karst closed depression	ις		12
Z	Zone, clustered or aligned features	30	Ö	Cliff. Hilltop. Hillside. Drainage

ich sediment, soil profile, gray or red colors il, organics, leaves, sticks, dark colors ainage, Floodplain, Streambed in narrative description 8A INFILLING down, sand, gravel 2 TOPOGRAPHY ve deposits

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.

Roman C. Pineda

Geology 10083

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

Date 7-28-223 Sheet _1_ of _1_

Attachment A

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

ELSEWHERE GARDEN BAR & KITCHEN

Stratigraphic Column

[Hydrogeologic subdivisions modified from Maclay and Small (1976); groups, formations, and members modified from Rose (1972); lithology modified from Dunham (1962); and porosity type modified from Choquette and Pray (1970). CU, confining unit; AQ, aquifer]

	frogeolo ubdivisio			fo	Group, rmation, member	Hydro- logic function	Thickness (feet)	Lithology	Field identification	Cavern development	Porosity/ permeability type									
SIUS	Upp	ning	Eag	le F	ord Group	CU	30 – 50	Brown, flaggy shale and argillaceous limestone	Thin flagstones; petroliferous	None	Primary porosity lost/ low permeability									
Upper Cretaceous	units		Buda Limestone		mestone	CU	40 – 50	Buff, light gray, dense mudstone	Porcelaneous limestone with calcite-filled veins	Minor surface karst	Low porosity/low permeability									
C _{PP}			Del	Rio	Clay	CU	40 – 50	Blue-green to yellow-brown clay	Fossiliferous; Ilymatogyra arietina	None	None/primary upper confining unit									
	I			orget		Karst AQ; not karst CU	2 – 20	Reddish-brown, gray to light tan marly limestone	Marker fossil; Waconella wacoensis	None	Low porosity/low permeability									
	п			a	Cyclic and marine members, undivided	AQ	80 – 90	Mudstone to packstone; miliolid grainstone; chert	Thin graded cycles; massive beds to relatively thin beds; crossbeds	Many subsurface; might be associated with earlier karst development	Laterally extensive; both fabric and not fabric/water-yielding									
Lower Cretaceous	ш			Person Formation	Leached and collapsed members, undivided	AQ	70 – 90	Crystalline limestone; mudstone to grainstone; chert; collapsed breccia	Bioturbated iron- stained beds separated by massive limestone beds; stromatolitic limestone	Extensive lateral development; large rooms	Majority not fabric/one of the most permeable									
	īV	S C C C C C C C C C C C C C C C C C C C	Edwards Group Kainer Formation	de com	arus orong	arus orong		Regional dense member	CU	20 – 24	Dense, argillaceous mudstone	Wispy iron-oxide stains	Very few; only vertical fracture enlargement	Not fabric/low permeability; vertical barrier						
	v			E	B	Edwards			Edwards	Edwards	Edwards On	Edwards Gro	Edwards G	Edwards O	Grainstone member	AQ	50 - 60	Miliolid grainstone; mudstone to wackestone; chert	White crossbedded grainstone	Few
Low	VI								Kirschberg evaporite member	AQ	50 - 60	Highly altered crystalline limestone; chalky mudstone; chert	Boxwork voids, with neospar and travertine frame	Probably extensive cave development	Majority fabric/one of the most permeable					
	VII				ainer Form	Dolomitic member	AQ	110 – 130	Mudstone to grainstone; crystalline limestone; chert	Massively bedded light gray, Toucasia abundant	Caves related to structure or bedding planes	Mostly not fabric; some bedding plane- fabric/water-yielding								
	VIII			Z	Basal nodular member	Karst AQ; not karst CU	50 – 60	Shaly, nodular limestone; mudstone and miliolid grainstone	Massive, nodular and mottled, Exogyra texana	Large lateral caves at surface; a few caves near Cibolo Creek	Fabric; stratigraphically controlled/large conduit flow at surface; no permeability in subsurface									
	Lov confi ur	ning			nember of the Rose Limestone	CU; evaporite beds AQ	350 - 500	Yellowish tan, thinly bedded limestone and marl	Stair-step topography; alternating limestone and marl	Some surface cave development	Some water production at evaporite beds/relatively impermeable									

Source: Stein and Ozuna, 1996, U.S. Geological Survey WRIR 95-4030.

ELSEWHERE GARDEN BAR & KITCHEN

Narrative Description of Site Geology

The overall potential for fluid migration to the Edwards Aquifer on the site is low to moderate. This site is located within outcrop areas of the Del Rio Clay (Kdr), Georgetown Formation (Kgt) and the cyclic and marine members of the Person Formation (Kep). Fill material has placed on a large area on the eastern half of the site. The dominant trend for the site is N60°E, based on an average of the trends of faults within the surrounding area and from published maps (Stein & Ozuna, 1995).

The Del Rio Clay is characterized by yellow-brown clay. The Georgetown Formation is characterized by gray to light tan marly limestone. The cyclic and marine members of the Person Formation are characterized by a mudstone to packstone milliolid grainstone with chert. No karst development occurs within the Del Rio Clay and Georgetown Formation. Karst development in the cyclic and marine members of the Person Formation is characterized by small sinkholes and caves formed as vertical shafts as well as lateral rooms.

Feature S-1

Feature lies outside the SCS 50-ft envelope. Therefore, feature was omitted from the assessment.

Features S-2 and S-3

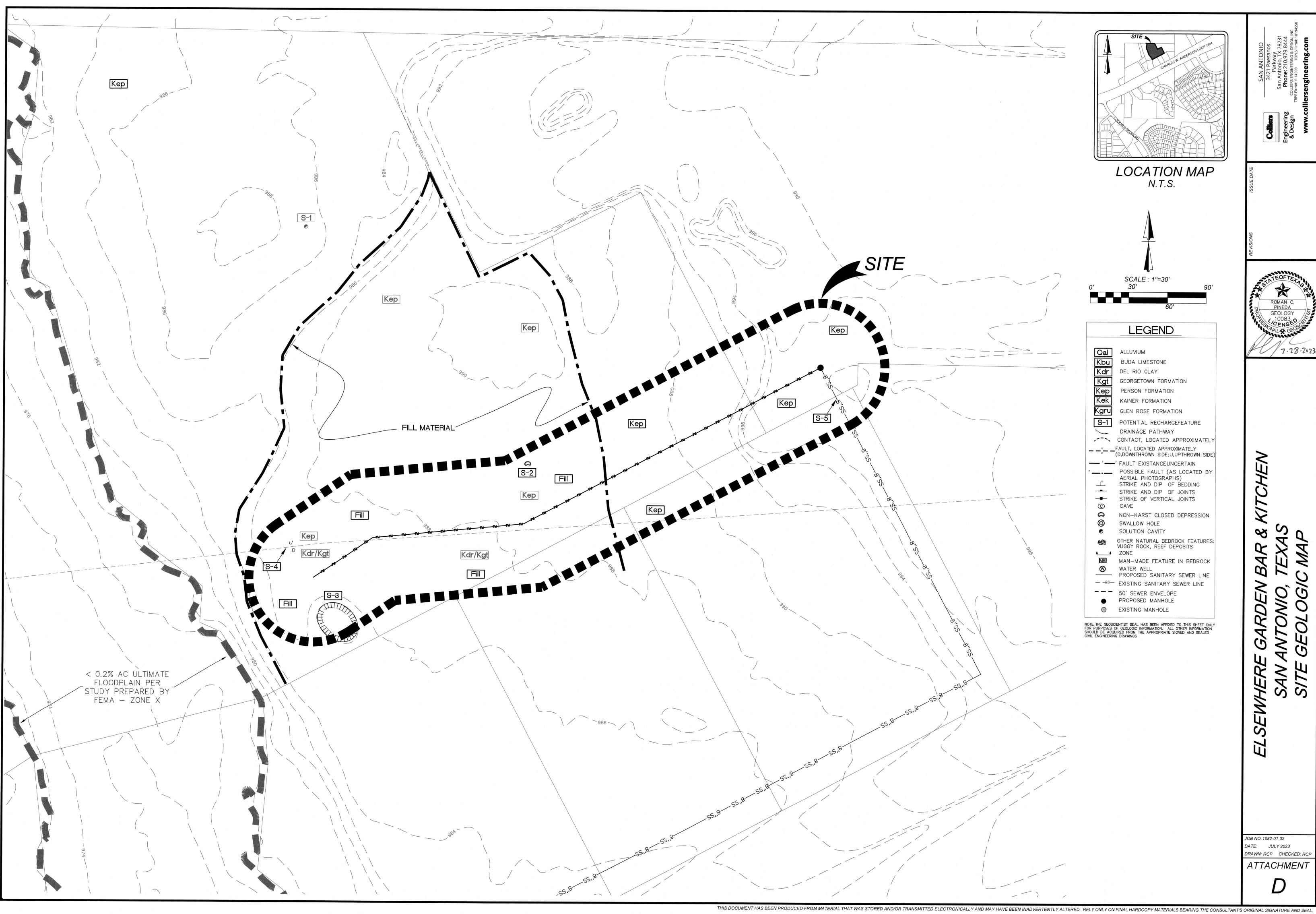
Features are non-karst closed depressions surrounding oak trees as a result of placing fill material within a large area of the site. Due to fine infilling and lack of karst origin, the probability of rapid infiltration is low.

Feature S-4

Feature is a fault mapped by field evidence and aerial photograph review. The fault juxtaposes the Person Formation with the Del Rio Clay and Georgetown Formation. Due to fine infilling and no field evidence of enhanced permeability, the probability of rapid infiltration is low.

Feature S-5

Feature is an existing sanitary sewer line that is not located beneath pavement. The sewer line has been trenched through bedrock and backfilled with a mix of fine and coarse material that may be more permeable than surrounding undisturbed areas. Therefore, the probability for rapid infiltration is intermediate.



JOB NO. 1082-01-02 DATE: JULY 2023 DRAWN: RCP CHECKED: RCP ATTACHMENT

ELSEWHERE GARDEN BAR & KITCHEN

References

- Arnow, Ted, 1959, <u>Groundwater Geology of Bexar County, Texas</u>: Texas Board of Water Engineers, Bulletin 5911, 62pp., 18 figs.
- Barnes, V.L., 1983, <u>Geologic Atlas of Texas</u>, <u>San Antonio Sheet</u>, Bureau of Economic Geology, The University of Texas at Austin, Texas.
- Collins, E.W., 1993, Geologic Map of the Castle Hills Quadrangle, Texas: University of Texas at Austin, Bureau of Economic Geology, Open-File Map STATEMAP Study Area 5, scale 1:24,000.
- Federal Emergency Management Agency (FEMA), September 28, 2010, Bexar County, Texas and Incorporated areas, <u>Flood Insurance Rate Map (FIRM)</u>, <u>Panel 48029C0230G</u>, FEMA, Washington, D.C.
- Maclay, R.W., and Small, T.A., 1976, <u>Progress report on the geology of the Edwards Aquifer, San Antonio Area, Texas and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks</u>: U.S. Geol. Survey open file rept., 76-627, 62 pp., 20 figs.
- Rose, P.R., 1972, Edwards Group, Surface and Subsurface, Central Texas: Bur. Econ. Geol., Rep of Invest. 74, 198 pp.
- Stein, W.G., and Ozuna, G.B., 1995, <u>Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas</u>: U.S. Geol. Survey, Water Resources Investigations 95-4030, 8 pp., 2 figs.
- Texas Natural Resource Conservation Commission, 1999, Edwards Aquifer Recharge Zone Map, Castle Hills, NE Quadrangle, TNRCC, San Antonio, Texas.
- United States Department of Agriculture, 1984, Soil Survey of Bexar County, Texas, USDA.
- United States Geologic Survey, 2988, (USGS), Castle Hills, NE Quadrangle, USGS, Denver, Colorado.
- Veni, G., 1988, <u>The Caves of Bexar County, Second Edition</u>, The Texas Memorial Museum, University of Texas, Austin, Texas.
- Veni, George, and Associates, 1994, <u>Geologic Controls in Cave Development and the Distribution of Cave Fauna in the San Antonio, Texas, Region</u>: Report for the Texas Parks and Wildlife Department and U.S. Fish and Wildlife Service, 99 pp.



SECTION 3 ORGANIZED SEWAGE COLLECTION SYSTEM

Organized Sewage Collection System Application

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(c), 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.

Regulated Entity Name: Elsewhere Hospitality, LLC

1. Attachment A – SCS Engineering Design Report. This Engineering Design Report is provided to fulfill the requirements of 30 TAC Chapter 217, including 217.10 of Subchapter A, §§217.51 – 217.70 of Subchapter C, and Subchapter D as applicable, and is required to be submitted with this SCS Application Form.

Customer Information

2. The entity and contact person responsible for providing the required engineering certification of testing for this sewage collection system upon completion (including private service connections) and every five years thereafter to the appropriate TCEQ region office pursuant to 30 TAC §213.5(c) is:

Contact Person: <u>Terrin Fuhrmann</u>
Entity: <u>Elsewhere Hospitality, LLC</u>
Mailing Address: <u>110 N. Manton Ln</u>

 City, State: San Antonio, TX
 Zip: 78213

 Telephone: 210-393-0511
 Fax: ______

Email Address: terrinfuhrmann@yahoo.com

The appropriate regional office must be informed of any changes in this information within 30 days of the change.

3. The engineer responsible for the design of this sewage collection system is:

Contact Person: Frank D. Corey

Texas Licensed Professional Engineer's Number: 103068

Entity: Colliers Engineering & Design

Mailing Address: 3421 Paesanos Pfwy, Suite 200

City, State: San Anotnio, TX Zip: 78231-4406

Telephone:726-223-4992 Fax:

Email Address:frank.corey@collierseng.com

Project Information

4.		development to be serve ance for institutional an	ed (estimated future por d commercial flows):	oulation to be served,			
	Multi-family: Commercial Industrial	Number of single-family Number of residential u m (not associated with a	ınits:				
5.	The character and vo	olume of wastewater is s	shown below:				
	100% Domestic% Industrial% Commingled Total gallons/day	d /: <u>13,180 (66 EDU x 200</u>	<u>13,180</u> gallons/d gallons/d gallons/d gal/EDU)	ay			
6.	•	-	27,580 gallons/day. Th th proposed wastewate	is will be addressed by: rand infiltration/inflow.			
7.		Pollution Abatement Plan (WPAP) is required for construction of any associated cial, industrial or residential project located on the Recharge Zone.					
	 The WPAP application for this development was approved by letter dated A copy of the approval letter is attached. The WPAP application for this development was submitted to the TCEQ on 7/7/23, but has not been approved. A WPAP application is required for an associated project, but it has not been submitted. There is no associated project requiring a WPAP application. 						
8.	Pipe description:						
Ta	ble 1 - Pipe Descri	ption					
	Pipe Diameter(Inches)	Linear Feet (1)	Pipe Material (2)	Specifications (3)			
	2	433	HDPE	ASTM D1785, 2467			

 $\textbf{Total Linear Feet:}\ \underline{433}$

- (1) Linear feet Include stub-outs and double service connections. Do not include private service laterals.
- (2) Pipe Material If PVC, state SDR value.
- (3) Specifications ASTM / ANSI / AWWA specification and class numbers should be included.

9.	(name) Treatment P	on system will convey the lant. The treatment facil		s Rios Wastewater				
	ExistingProposed							
10.	All components of the	nis sewage collection sys	tem will comply with:					
		an Antonio standard spe fications are attached.	cifications.					
11.	No force main(s)	and/or lift station(s) are	e associated with this se	wage collection system.				
		and/or lift station(s) is as Force Main System Appl		= -				
A	lignment							
12.		viations from uniform gra ith open cut construction		ction system without				
13.	There are no deviations from straight alignment in this sewage collection system without manholes.							
	without Manhol collection system allowing pipe cu For curved sewe	lustification and Calcula les. A justification for devention of the with n without manholes with rvature is attached. r lines, all curved sewer long for the wastewater co	viations from straight al n documentation from p line notes (TCEQ-0596) a	ignment in this sewage ipe manufacturer				
M	anholes and	Cleanouts						
14.	below: (Please a	an-outs exist at the end o		nese locations are listed				
Ta	ble 2 - Manholes a	nd Cleanouts		Manhole or Clean-				
	Line	Shown on Sheet	Station	out?				
	Force Main	4 Of 5	4+32.80	Existing Manhole				
		Of						
		Of						
		Of						
		Of						
		Of						

Of

			Manhole or Clean-				
Line	Shown on Sheet	Station	out?				
	Of						
	Of						
	Of						
15. Manholes are installed at all Points of Curvature and Points of Termination of a sewer line.							
16. The maximum sp greater than:	pacing between manhole	es on this project for eac	h pipe diameter is no				
Pipe Dian	neter (inches)	Max. Ma	nhole Spacing (feet)				
	5 - 15		500				
	6 - 30		800 1000				
	6 - 48 ≥54		2000				
maximum spacing greater than listed maximum spacing operate and main manhole spacing 17. All manholes will The use of pre-caspecifications and attached. Site Plan Requirements		this project (for each p justification for any vari include a letter from the that it has the capabilit ed spacing. place concrete. ed for this project. The m , showing the method o	ipe diameter used) is iance from the e entity which will y to maintain lines with				
	Items 18 - 25 must be included on the Site Plan. 18. The Site Plan must have a minimum scale of 1" = 400'.						
	Site Plan Scale: $1'' = 30'$.						
19. The Site Plan mu manholes with s overlain by topo feet and showing	The Site Plan must include the sewage collection system general layout, including manholes with station numbers, and sewer pipe stub outs (if any). Site plan must be overlain by topographic contour lines, using a contour interval of not greater than ten feet and showing the area within both the five-year floodplain and the 100-year floodplain of any drainage way.						
	ıll lateral stub-outs are sh	nown and laheled					
=	outs will be installed duri		his sewer collection				

21. Location of existing and prop	posed water lines:					
The entire water distributed If not shown on the Site sewer systems.	tion system for this project is sh Plan, a Utility Plan is provided sh nes associated with this project.					
22. 100-year floodplain:						
floodplain, either natura lined channels construct After construction is com have water-tight manhol	•	not include streets or concrete- n the 100-year floodplain will the table below and are shown				
Line	Sheet	Station				
	of	to				
	of	to				
of to						
	of to					
floodplain, either natura lined channels construct After construction is comencased in concrete or construction and lined channels construct	nplete, all sections located within apped with concrete. These loca d labeled on the Site Plan. (Do r	not include streets or concrete- n the 5-year floodplain will be ations are listed in the table				
Table 4 - 5-Year Floodplain Line	Sheet	Station				
Line	of	to				
	of	to				
	of	to				
	of	to				
 24. Legal boundaries of the s 25. The <i>final plans and technology</i> sheet of the construction 						

Texas Licensed Professional Engineer responsible for the design on each sheet.

feet of ure a ance
tion nce
are not es will ed in neans of

Line	Manhole	Station	Sheet					
28. Drop manholes:								
Sewer lines which 24 inches above	p manholes associated whenter new or existing rethe manhole invert are life sheets. These lines m	manholes or "manhole s isted in the table below	and labeled on the					
Table 7 - Drop Manho								
Line	Manhole	Station	Sheet					
29. Sewer line stub-outs	(For proposed extension	ns):						
☐ The placement and markings of all sewer line stub-outs are shown and labeled.☐ No sewer line stub-outs are to be installed during the construction of this sewage collection system.								
30. Lateral stub-outs (Fo	or proposed private servi	ce connections):						
_ = '	nd markings of all latera outs are to be installed du							
31. Minimum flow veloc	city (From Appendix A)							
	are flowing full; all slopes feet per second for this	= -	ce flows equal to or					
32. Maximum flow velo	city/slopes (From Appen	dix A)						
less than or equal Attachment D – Assuming pipes	are flowing full, all slopes al to 10 feet per second f Calculations for Slopes f are flowing full, some slo These locations are liste	for this system/line. For Flows Greater Than in personal produce flows which	10.0 Feet per Second. h are greater than 10					

Table 8 - Flows Greater Than 10 Feet per Second

Line	Profile Sheet	Station to Station	FPS	% Slope	Erosion/Shock Protection

33. Assuming pipes are flowing full, where flows are ≥ 10 feet per second, the provisions noted below have been made to protect against pipe displacement by erosion and/or shock unde 30 TAC §217.53(I)(2)(B).	
 □ Concrete encasement shown on appropriate Plan and Profile sheets for the locations listed in the table above. □ Steel-reinforced, anchored concrete baffles/retards placed every 50 feet shown on appropriate Plan and Profile sheets for the locations listed in the table above. □ N/A 	
Administrative Information	
34. The final plans and technical specifications are submitted for TCEQ review. Each sheet of the construction plans and specifications are dated, signed, and sealed by the Texas	

Licensed Professional Engineer responsible for the design on each sheet. 35. Standard details are shown on the detail sheets, which are dated, signed, and sealed by the Texas Licensed Professional Engineer, as listed in the table below:

Table 9 - Standard Details

Standard Details	Shown on Sheet
Lateral stub-out marking [Required]	of
Manhole, showing inverts comply with 30 TAC §217.55(I)(2) [Required]	of
Alternate method of joining lateral to existing SCS line for potential future connections [Required]	of
Typical trench cross-sections [Required]	of
Bolted manholes [Required]	of
Sewer Service lateral standard details [Required]	of
Clean-out at end of line [Required, if used]	of
Baffles or concrete encasement for shock/erosion protection [Required, if flow velocity of any section of pipe >10 fps]	of
Detail showing Wastewater Line/Water Line Crossing [Required, if crossings are proposed]	of
Mandrel detail or specifications showing compliance with 30 TAC §217.57(b) and (c) [Required, if Flexible Pipe is used]	of

Standard Details	Shown on Sheet
Drop manholes [Required, if a pipe entering a manhole is more than 24 inches above manhole invert]	of

- 36. All organized sewage collection system general construction notes (TCEQ-0596) are included on the construction plans for this sewage collection system.
- 37. All proposed sewer lines will be sufficiently surveyed/staked to allow an assessment prior to TCEQ executive director approval. If the alignments of the proposed sewer lines are not walkable on that date, the application will be deemed incomplete and returned.
 - Survey staking was completed on this date: <u>08/11/23</u>
- 38. 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.
- 39. Any modification of this SCS application will require TCEQ approval, prior to construction, and may require submission of a revised application, with appropriate fees.

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 **Organized Sewage Collection System Application** is hereby submitted for TCEQ review and executive director approval. The system was designed in accordance with the requirements of 30 TAC §213.5(c) and 30 TAC §217 and prepared by:

Print Name of Licensed Professional Engineer: Frank D. Corey, P.E.

Date: <u>08/09/23</u>

Place engineer's seal here:

Signature of Licensed Professional Engineer:

FRANK D. COREY

103068

103068

103068

Appendix A-Flow Velocity Table

Flow Velocity (Flowing Full) All gravity sewer lines on the Edwards Aquifer Recharge Zone shall be designed and constructed with hydraulic slopes sufficient to give a velocity when flowing full of not less than 2.0 feet per second, and not greater than 10 feet per second. The grades shown in the following table are based on Manning's formula and an n factor of 0.013 and shall be the minimum and maximum acceptable slopes unless provisions are made otherwise.

Table 10 - Slope Velocity

Pipe Diameter(Inches)	% Slope required for minimum flow velocity of 2.0 fps	% Slope which produces flow velocity of 10.0 fps			
6	0.50	12.35			
8	0.33	8.40			
10	0.25	6.23			
12	0.20	4.88			
15	0.15	3.62			
18	0.11	2.83			
21	0.09	2.30			
24	0.08	1.93			
27	0.06	1.65			
30	0.055	1.43			
33	0.05	1.26			
36	0.045	1.12			
39	0.04	1.01			
>39	*	*			

^{*}For lines larger than 39 inches in diameter, the slope may be determined by Manning's formula (as shown below) to maintain a minimum velocity greater than 2.0 feet per second when flowing full and a maximum velocity less than 10 feet per second when flowing full.

$$v = \frac{1.49}{n} \times R_h^{0.67} \times \sqrt{S}$$

Figure 1 - Manning's Formula

v = velocity (ft/sec)
n = Manning's roughness coefficient
(0.013)
Rh = hydraulic radius (ft)
S = slope (ft/ft)



SCS Engineering Design Report



Justification and Calculations for Deviation in Straight Alignment without Manholes



Justification for Variance from Manhole Spacing



Explanation of Slopes for Flows Greater than 10.0 FPS



SECTION 4 LIFT STATION/ FORCE MAIN SYSTEM

Lift Station/Force Main System Application

Texas Commission on Environmental Quality

for Regulated Activities On the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(c)(3)(B)and(c), 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.

Regulated Entity Name: Elsewhere Garden Bar & Kitchen

Customer Information

(If different than customer information provided on core data form)

1. The person(s) responsible for providing the engineering certification to the TCEQ pursuant to 30 TAC §213.5(f)(2)(C) during construction and 30 TAC §213.5 (c)(3)(D) upon completion of construction is:

Contact Person: <u>Terrin</u> Fuhrmann Entity: <u>Elsew</u>here Hospitality, LLC Mailing Address: 110 N. Manton Ln.

Email Address: terrinfuhrmann@yahoo.com

2. The engineer responsible for the design of this lift station and force main:

Contact Person: Adan Rangel

Entity: BGE, Inc.

Mailing Address: 101 W Louis Henna Blvd Ste 200
City, State: Austin, TX Zip: 78728
Telephone: (512) 806-0285 Fax: _____

Email Address: arangel@bgeinc.com

Texas Licensed Professional Engineer's Serial Number: 139563

Project Information

3.	This project is for the construction or replacement of:
	Lift Station only.

Table 1 - Geologic or Manmade Features

Line	Station to Station	Type of Feature			
	to				
2" FORCEMAIN	0+00 ^{to} 0+10.00	Non-Karst closed depression			
2" FORCEMAIN	1+90.00 to 2+00.00	Non- Karst closed depression			
2" FORCEMAIN	0+00 to 1+75.00	Fault			
	to				

	of	
Line	Sheet	Station to Station
Table 2 - 5-Year Floodplain		
are listed in the tabl	pe encased in concrete or capped e below and are shown and labele Increte-lined channels constructe	ed on the Site Plan. (Do not
	complete, all sections of the force	
floodplain, either na concrete-lined chan	complete, no part of this project turally occurring or manmade. (I nels constructed above sewer line	Do not include streets or es.)
material) sources(s): Flood Map N 12. 5-year floodplain:	undaries are based on the following Insurance Rate map for Bexar Count Io. 48029C0245G Eff. 06/12/2023	ty, Panel 245 Community
floodplain is shown X No part of the project	and labeled. ct site is located within the 100-ye	ear floodplain.
Some part(s) of the	project site is located within the 1	LOO-year floodplain. The
11. 100-year floodplain bounda	ries	
Finished topographic co and are not shown.	ntours will not differ from the exi	isting topographic configuration
	ntours are shown and labeled. Toust not be greater than 5 feet).	he contour interval is 1
	ntours are shown and labeled. Th nust not be greater than 5 feet).	ne contour interval is
		1

Line	Sheet	Station to Station
	of	to

13. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
If applicable, this must agree with Item No. 15 on the Geologic Assessment Form. 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 plugged. The wells are not in use and will be properly plugged. The wells are in use and comply with 16 TAC Chapter 76.
\overline{X} There are no wells or test holes of any kind known to exist on the project site.
14. X Legal boundaries of the site are shown.

Plan and Profile Sheets

The construction drawings and technical specifications will not be considered for review unless they are the **final plans and technical specifications** which will be used by the contractor for bidding and construction.

Items 15 – 18 must be included on the Plan and Profile sheets.

- 15. \boxed{X} The equipment installation construction plans must have a minimum scale of 1" = 10'. Plan sheet scale: 1" = 30 '.
- 16. X Locations, descriptions and elevations of all required equipment and piping for the lift station and force main are shown and labeled.
- 17. X Air Release/Vacuum Valves will be provided at all peaks in elevation of the proposed force main. These locations are listed in the table below and labeled on the appropriate plan and profile sheets.

Table 3 - Air Release/Vacuum Valves

Line	Station	Sheet
		of

- 18. X The **final plans and technical specifications** are submitted for the TCEQ's review. Each sheet of the construction plans and specifications are dated, signed, and sealed by the Texas Licensed Professional Engineer responsible for the design on each sheet.
- 19. X Attachment A Engineering Design Report. An engineering design report with the following required items is attached:
 - X The report is dated, signed, and sealed by a Texas Licensed Professional Engineer.
 - \overline{X} Calculations for sizing system.
 - X Pump head calculations, including, but not limited to, system head and pump capacity curves, head loss calculations, and minimum and maximum static head C values for normal and peak operational conditions.
 - X 100-year and 25-year flood considerations.
 - \overline{X} Total lift station pumping capacity with the largest pump out of service.
 - X Type of pumps, including standby units.
 - X Type of pump controllers, including standby air supply for bubbler controllers, as applicable.

X Pump cycle time.

Type of wet well ventilation; include number of air changes for mechanical ventilation.

X Minimum and maximum flow velocities for the force main.

X Lift station security.

X Lift station emergency provisions and reliability.

Administrative Information

- 20. X Upon completion of the wet well excavation, a geologist must certify that the excavation was inspected for the presence of sensitive features and submit the signed, sealed, and dated certification to the appropriate regional office.
- 21. X The TCEQ Lift Stations and Force Mains General Construction Notes (TCEQ-0591) are included on the General Notes Sheet of the Final Construction Plans for this lift station and/or force main system.
- 22. X 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.
- 23. Any modification of this lift station/force main system application will require TCEQ approval, prior to construction, and may require submission of a revised application, with appropriate fees.

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 **Lift Station/Force Main System Application** is hereby submitted for TCEQ review and executive director approval. The system was designed in accordance with the requirements of 30 TAC §213.5(c)(3)(C) and 30 TAC Chapter 217, and prepared by:

Print Name of Licensed Professional Engineer: Adan Rangel, P.E.

Place engineer's seal here:

Date: 7/21/2023

Signature of Licensed Professional Engineer:



Engineering Design Report for the:

Elsewhere Garden Bar & Kitchen Force Main and Grinder Pump Station

Prepared For:

Elsewhere Garden Bar & Kitchen
110 N. Manton Lane
San Antonio, TX 78213



Prepared By:
BGE, Inc.
101 W Louis Henna Blvd Ste 200
Austin, TX 78728
Texas Registered Engineering Firm # 1046

Table of Contents

Table of Contents	1
PROJECT BACKGROUND	2
PROJECT AREA	2
FORCE MAIN SYSTEM ALIGNMENT	2
DEVELOPMENT OF WASTEWATER FLOWS	2
1. Peak Dry Weather Flow (PDWF)	3
2. Peak Wet Weather Flow (PWWF)	3
GRINDER PUMP STATION DESIGN ANALYSIS	3
1. Elsewhere Garden Bar & Kitchen Grinder Station Wet Well Capacity	3
2. Selection of Pumps	4
APPENDIX A: WET WELL ANALYSIS	5
APPENDIX B: PUMPS, IMPELLER, & MOTOR	9



PROJECT BACKGROUND

Brown and Gay Engineering, Inc. (BGE) was contracted by Colliers Engineering & Design for the proposed Elsewhere Garden Bar & Kitchen Grinder Pump Station and Force Main design. The grinder pump station will follow the required design criteria, specifications, and will be in accordance with both the San Antonio Water System (SAWS) and the Texas Commission of Environmental Quality (TCEQ). The grinder pump station will serve only one (1) connection.

PROJECT AREA

The proposed Elsewhere Garden Bar & Kitchen Grinder Pump Station is to be located at the South corner of the kitchen. According to Flood Insurance Rate Map (FIRM) for Bexar County, Panel 245 community map No. 48029C0245G Federal Emergency Management Agency (FEMA), this project is not within the 100-year floodplain, nor is it in the 25-year floodplain.

FORCE MAIN SYSTEM ALIGNMENT

The Elsewhere Garden Bar & Kitchen wastewater collection system, designed by Colliers Engineering & Design, will collect and deliver wastewater flows to the proposed grinder pump station site. BGE has coordinated with Colliers Engineering & Design, the design engineer for the gravity main, to size the grinder pump station pump and piping. The 2" HDPE force main will transport the accounted flows to a proposed gravity collection system. The force main terminates at a proposed SAWS manhole located east of Elsewhere Garden Bar & Kitchen.

DEVELOPMENT OF WASTEWATER FLOWS

The Elsewhere Garden Bar & Kitchen Grinder Station's projected wastewater flows were determined based on SAWS and TCEQ Design Criteria. The average sewer flows were estimated using the SAWS Infrastructure Planning Equivalent Dwelling Unit (EDU) Calculation Sheet. A proposed average wastewater design value of 13,180 gpd was calculated using 20 gal/seat for restaurant use and 659 total occupants. An Infiltration/Inflow design (I/I) value of 300 gpd/acre is used for the development of the overall grinder pump station capacity. Each of the calculations shown below were used to develop the proposed flow conditions for the design of the grinder pump station.



1. Peak Dry Weather Flow (PDWF)

A Peak Dry Weather Flow (PDWF) of 36.6 gpm (14,400 gpd) was determined by multiplying the average wastewater value by a factor of 4. The PDWF is used to calculate the Peak Wet Weather Flow, which in turn is used to determine the grinder pump station capacity.

2. Peak Wet Weather Flow (PWWF)

A Peak Wet Weather Flow (PWWF) of 37 gpm (53,280 gpd) was calculated by adding the PDWF with I/I. The formula provided below was used to calculate the PWWF:

The PWWF is used to determine the grinder pump station design capacity. The overall capacity of the grinder pump station will be designed to handle the maximum wet weather for the contributing areas.

GRINDER PUMP STATION DESIGN ANALYSIS

The Elsewhere Garden Bar & Kitchen Grinder Station has been designed based on the Texas Administrative Code, Chapter 217 – Design Criteria for Domestic Wastewater Systems (TAC 217.61 (i)), as well as SAWS Design Criteria. However, based on TAC 217.61 (i), the grinder pumps in this project are not subject to the requirements of subchapter C.

The design of the grinder station has been broken down into the three main components: wet well sizing, force main design, and pump sizing and selection.

1. Elsewhere Garden Bar & Kitchen Grinder Station Wet Well Capacity
A peak wet weather flow of 37 gpm (53,280 gpd) was calculated and used for the
proposed grinder pump station wet well design. The total dynamic head (TDH) produced



by the proposed force main is approximately 33 feet. The TDH is determined using the total static head combined with head contributing from friction and minor losses, (based on the number and types of bends, fittings, valves, etc.) that develop within the pipeline. The force main is proposed to consist of a 2-inch main constructed out of HDPE pipe with a force main pressure rating of 200 psi.

The wet well design is based on a duplex station layout with one duty pump installed and one pump on standby. The force main velocity approximately 4.11 fps with one pump running. To summarize, the wet well design includes one 48-inch diameter fiberglass basin with 12-feet of total storage depth. Appendix A of the report provides the full design calculations of the wet well for the Elsewhere Garden Bar & Kitchen Grinder Pump Station.

2. Selection of Pumps

Based on the TDH calculations, the selected pump for the project is a LSG200-Series pump. The grinder station will require that one (1) pump to be installed providing a total firm pumping capacity of 39 gpm.

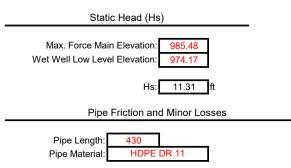
The selected pump will also meet the required force main head conditions. At 39 gpm, the TDH is 35.15 feet. Appendix B provides additional detail on the pump selection.



APPENDIX A: WET WELL ANALYSIS



Elsewhere Garden Bar & Kitchen Grinder Pump & Force Main Design - Pump Requirements



	Pipe Information										
Pipe I.D. Area											
Pipe Size	(in.)	(in ²)	Area (ft ²)								
2	1.917	2.886	0.020								

 $\begin{aligned} \textbf{Pipe Friction} &= [(10.44) \times (L) \times (Q^{1.85})]/[(C^{1.85}) \times (d^{4.8655})] \\ &\textit{Hazen Williams Equation} \end{aligned}$

Minor Losses = $K \times (V^2/(2 \times g))$ g = 32.2

Force Main Minor Losses

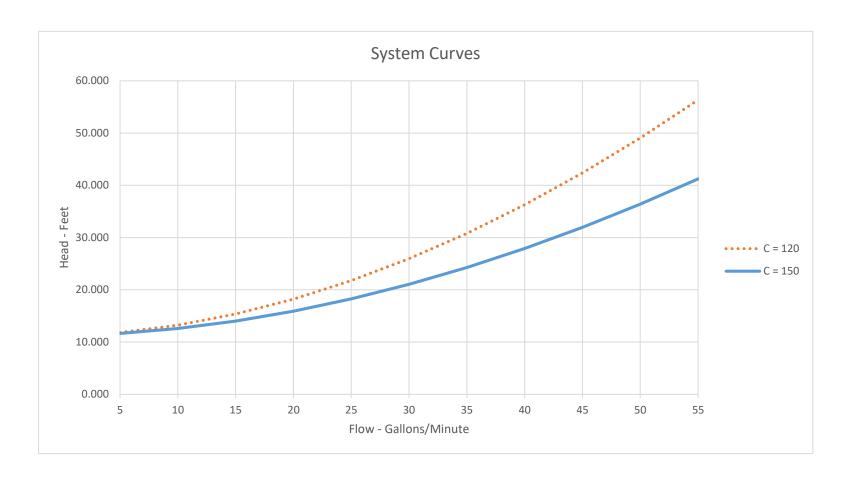
Description Number K Total K
2" - 45° Bend 2 0.3 0.60

Total K
0.60

Pipe Information (HDPE DR 11)

C=		C=	150									
Q	Velocity	Pipe	Minor Losses	Total Losses			Q	Velocity	Pipe Friction	Minor Losses	Total Losses	
(gpm)	(fps)	Friction (ft)		(ft)	TDH (ft)		(gpm)	(fps)	(ft)	(ft)	(ft)	TDH (ft)
5	0.56	0.53	0.00	0.53	11.84		5	0.56	0.35	0.00	0.35	11.66
10	1.11	1.91	0.01	1.92	13.23		10	1.11	1.26	0.01	1.27	12.58
15	1.67	4.04	0.03	4.07	15.38		15	1.67	2.67	0.03	2.70	14.01
20	2.22	6.88	0.05	6.92	18.23		20	2.22	4.55	0.05	4.60	15.91
25	2.78	10.39	0.07	10.47	21.78		25	2.78	6.88	0.07	6.95	18.26
30	3.33	14.56	0.10	14.67	25.98		30	3.33	9.64	0.10	9.74	21.05
35	3.89	19.37	0.14	19.51	30.82		35	3.89	12.82	0.14	12.96	24.27
37	4.11	21.47	0.16	21.62	32.93	*design	37	4.11	14.21	0.16	14.36	25.67
39	4.34	23.66	0.18	23.84	35.15	*pump	39	4.34	15.66	0.18	15.83	27.14
45	5.00	30.83	0.23	31.07	42.38		45	5.00	20.41	0.23	20.64	31.95
50	5.56	37.47	0.29	37.76	49.07		50	5.56	24.80	0.29	25.08	36.39
						-						

Elsewhere Garden Bar & Kitchen Grinder Pump & Force Main Design - System Curves



ELSEWHERE BAR & KITCHEN DUPLEX GRINDER STATION

PUMP CYCLE CALCULATOR

INPUT DATA

Wet Well Diameter (in)
Pump Down Distance (in)
Working Volume (gal)
Average Pump Flow (gpm)
Surcharge Volume (if applicable*)
Lift Station Inflow Rate (gpm)

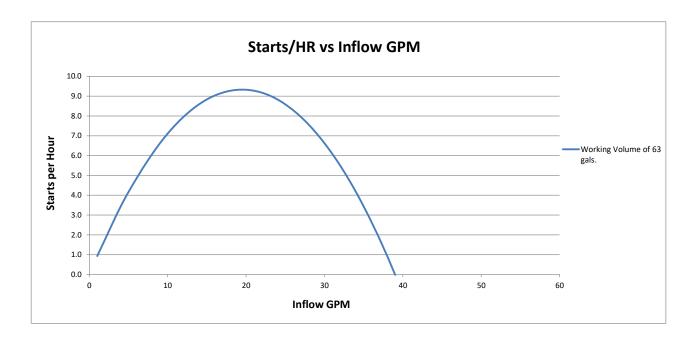
48 8 63 39 0 1 5 10 15 20 25 30 35 40 45 50

CALCULATED RESULTS @ ABOVE INFLOW GPM

Working Volume Fill Time (Storage Time) (min)
Pump Run Time without Inflow (min)
Pump Run Time with Inflow (min)
Pump Run Time + Refill Time (Cycle Time) (min)
Starts / HR with Inflow

62.7	12.5	6.3	4.2	3.1	2.5	2.1	1.8	1.6	1.4	1.3
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1.6	1.8	2.2	2.6	3.3	4.5	7.0	15.7	-62.7	-10.4	-5.7
64.3	14.4	8.4	6.8	6.4	7.0	9.1	17.5	-61.1	-9.1	-4.4
0.9	4.2	7.1	8.8	9.3	8.6	6.6	3.4	-1.0	-6.6	-13.5

 $^{^{}st}$ If a surcharge volume is entered, it will be added to Pump Down Volume and included in all calculations.



Conclusion:

If the OFF float and LEAD float are spaced 8 inches apart, the pump cycle will be 9.3 starts per hour at worst case inflow rate.

The submersible pump manufacturer will allow around 10 starts per hour maximum for a pump this size for proper heat dissapation.

APPENDIX B: PUMPS, IMPELLER, & MOTOR



LSG200-SERIES

Omnivore® Grinders





2 hp 1-1/4" Discharge

Features

- Patented V-Slice® Cutter Technology
- One-piece uni-body casting
- Stainless-steel impeller
- Quick-connect power cord
- Internal or external capacitor models available
- 300 Series SS rotor shaft











LSG200-Series

Liberty Pumps LSG200-Series Grinder Pumps meet the demanding needs of commercial and residential sewage applications where difficult solids handling ability is crucial. The LSG200-Series features a superior cutting system made of hardened 440 stainless steel – Rockwell C 58, for shearing solids into small particles prior to being passed to the discharge by the impeller under high pressure. Applications include individual or groups of homes, motels, schools, shopping centers, lakefront developments and systems requiring high pressure sewage pumping.

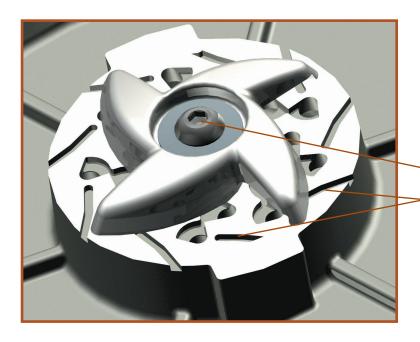


Features

- 2 hp, heavy-duty motor oil-filled, thermally protected
- Upper and lower ball bearings
- One-piece uni-body cast iron housing
- 300 Series SS rotor shaft
- 316 Stainless-steel impeller
- Dual seals Upper seal is unitized graphite impregnated silicon carbide. Lower seal is Viton™ double-lip. (Lower seal ensures that all debris is kept away from upper seal)
- Motor windings insulated to Class B (130°C)
- Advanced V-Slice® Cutter Technology made of hardened 440 stainless steel – Rockwell C 58

- Horizontal 1-1/4" FNPT discharge
- Back vanes on impeller and spiraled bottom plate for superior solids clearing
- Stainless-steel fasteners
- Clog-free volute design
- Designed for maximum heat dissipation and cool motor operating temperatures
- Solid state starting circuit no mechanical relay coil
- Quick-connect 25' power cord (standard)
- Piggyback plug with wide-angle float switch (on automatic model) eliminates need for expensive panel

Viton is a trademark of The Chemours Company FC, LLC.



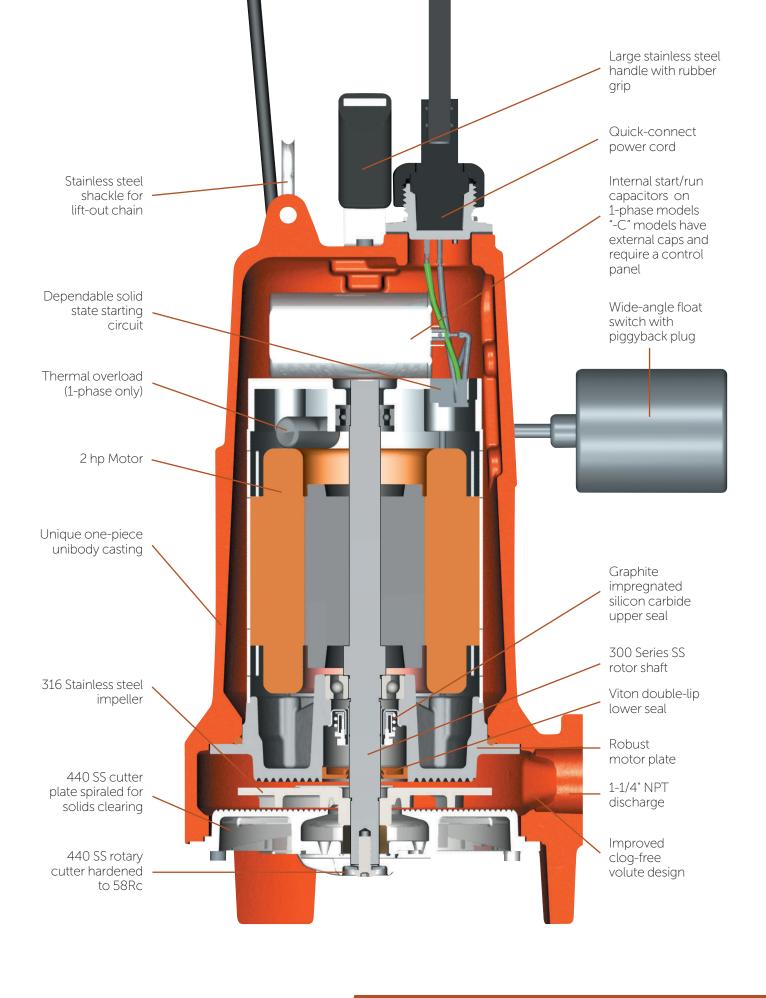
V-Slice® Cutter Technology

Superior cutting system provides improved shredding performance over radial cutters. V-pattern provides up to 108 alternated cuts per revolution. Entire cutting system made of 440 stainless steel hardened to 58Rc.

Recessed cutter bolt eliminates wadding

Exclusion cleanout slots and back relief clears debris from under cutter

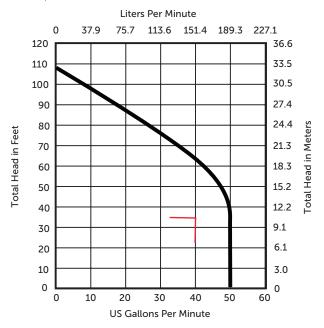
Patent: See www.LibertyPumps.com/patents



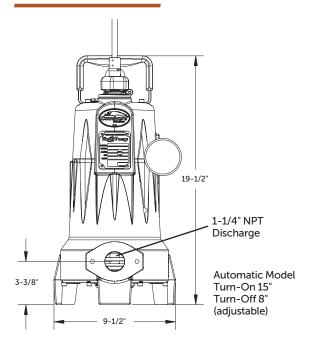
LSG200-Series

Performance Curve

60 Hz, 3450 RPM



Dimensional Data



Models

MODEL	НР	VOLTS	PH	HZ	AMPS	LOCKED ROTOR AMPS	DISCHARGE	FLOAT SWITCH	WEIGHT IN LBS
LSG202A	2	208/230	1	60	15	53	1-1/4"	Yes	86
LSG202A-5-Y	2	208/230	1	60	15	53	1-1/4"	Yes	86
LSG202M	2	208/230	1	60	15	53	1-1/4"	No	84
LSG202M-C	2	208/230	1	60	15	53	1-1/4"	No	91
LSG203M	2	208/230	3	60	10.6	62	1-1/4"	No	84
LSG204M	2	440-480	3	60	5.3	31	1-1/4"	No	84
LSG205M	2	575	3	60	4.9	24	1-1/4"	No	84

 $¹⁻phase\ models\ are\ thermally\ protected.\ 3-phase\ models\ require\ a\ properly\ sized\ control\ panel.\ Maximum\ intermittent\ fluid\ temperature\ 140°F.$

LSG202M and LSG202A feature internal capacitors and do not require a separate control panel for operation. LSG202M-C features external capacitors, requiring a panel with appropriately sized start and run capacitors.

Options for LSG202M-C: External Cap Grinder

MODEL	DESCRIPTION
K001316	Start/Run Capacitor Kit for retrofit in existing panels
SXHC24=3-3	Simplex NEMA 4X Panel with start/run capacitors
AE24HC=3-3	Duplex NEMA 4X Panel with start/run capacitors

For complete panel specifications, see SX or AE-series literature. 25' cord standard on all models. LSG202M-C features 35' cord standard. Y-cord models have a 50' cord.

GR20 Guide Rail Base

(GR20 option sold separately)



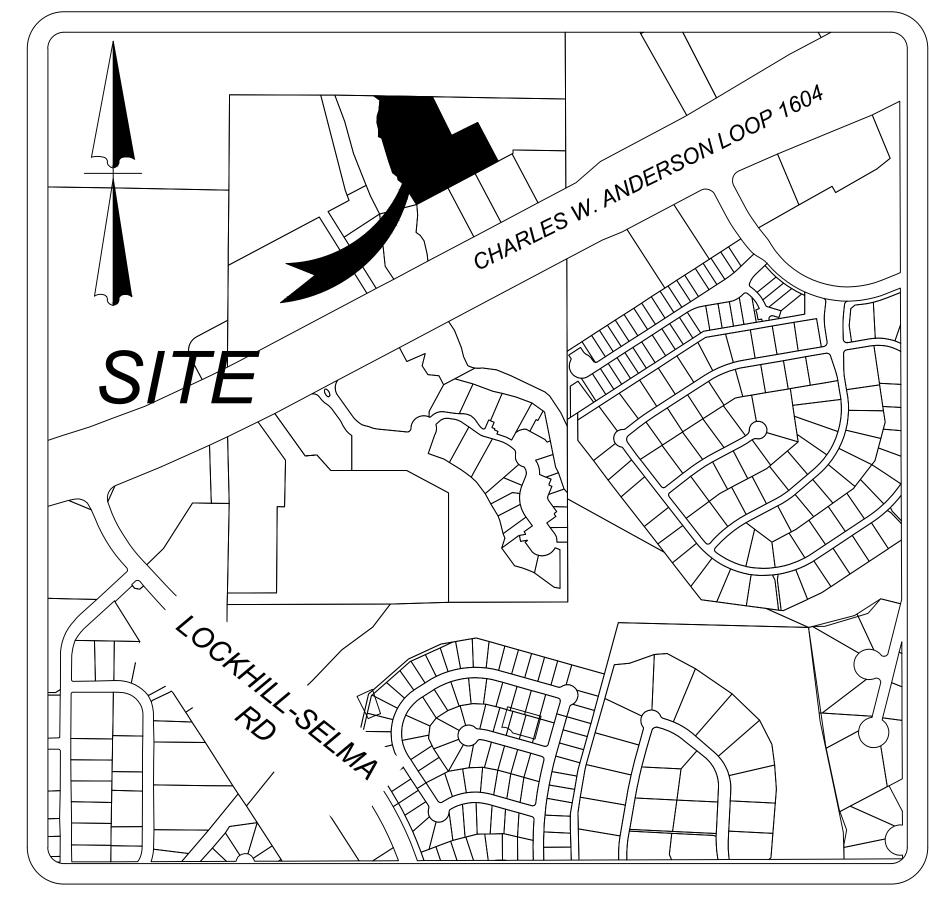




- Cast iron construction
- Single 1-1/4" guide rail pipe design
- Auto alignment feature
- GR20 works only with LSG-Series pumps
- Upper rail support bracket

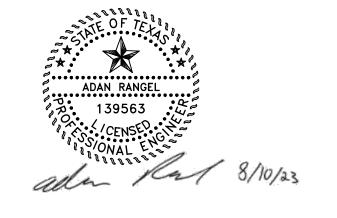
^{*}Models with "Y" suffix feature 50' integrated Y-cord with float switch and bare leads.

ELSEWHERE GARDEN BAR & KITCHEN (GRINDER PUMP STATION AND FORCE MAIN) SAN ANTONIO, TX 78249



LOCATION MAP N.T.S.

INDEX			
Sheet	Number	Sheet Title	
	1	COVER SHEET	
	2	GENERAL NOTES (1 OF 2)	
	3	GENERAL NOTES (2 OF 2)	
	4	GRINDER PUMP STATION PLAN	
	5	DETAILS	





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ORGANIZED SEWAGE COLLECTION SYSTEM (SCS) GENERAL CONSTRUCTION NOTES

- 1. THIS ORGANIZED SEWAGE COLLECTION SYSTEM MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) EDWARDS AQUIFER RULES 30 TEXAS ADMINISTRATIVE CODE (TAC) §\$213.5(C) AND 217.51 217.70 AND 30 TAC CHAPTER 217, SUBCHAPTER D, AND THE LOCAL GOVERNMENT STANDARD SPECIFICATIONS.
- 2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROPOSED REGULATED PROJECT MUST BE PROVIDED WITH COPIES OF THE SEWAGE COLLECTION SYSTEM PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS MUST BE REQUIRED TO KEEP ON—SITE COPIES OF THE PLAN AND THE APPROVAL LETTER.
- 3. NO LATER THAN 48 HOURS PRIOR TO COMMENCING ANY REGULATED ACTIVITY, THE APPLICANT OR HIS AGENT MUST NOTIFY THE PRECEDING TCEQ REGIONAL OFFICE, IN WRITING, OF THE DATE ON WHICH THE REGULATED ACTIVITY WILL BEGIN.
- 4. ANY MODIFICATION TO THE ACTIVITIES DESCRIBED IN THE REFERENCED SCS APPLICATION FOLLOWING THE DATE OF APPROVAL MAY REQUIRE THE SUBMITTAL OF AN SCS APPLICATION TO MODIFY THIS APPROVAL, INCLUDING THE PAYMENT OF APPROPRIATE FEES AND ALL INFORMATION NECESSARY FOR ITS REVIEW AND APPROVAL.
- 5. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION, MUST BE MAINTAINED DURING CONSTRUCTION, AND MUST BE REMOVED WHEN SUFFICIENT VEGETATION IS ESTABLISHED TO CONTROL THE EROSION AND SEDIMENTATION AND THE CONSTRUCTION AREA IS STABILIZED.
- 6. THE SEWER LINE TRENCH DETAILS SHOWING THE CROSS SECTION WITH THE DIMENSIONS, PIPE PLACEMENT, AND BACKFILL INSTRUCTIONS ARE INCLUDED ON PLAN SHEET 21 OF 30 OF THESE PLANS. ALL SEWER PIPES JOINTS MUST MEET THE REQUIREMENTS IN 30 TAC §§217.53(C) AND 217.65.
- 7. GRAVITY LINES MUST HAVE A SDR 35 OR LESS. PRESSURIZED SEWER SYSTEMS MUST HAVE PIPE WITH A MINIMUM WORKING PRESSURE RATING OF 150 PSI.
- 8. THE ASTM, ANSI, OR AWWA SPECIFICATION NUMBERS FOR THE PIPE(S) AND JOINTS ARE ASTM D3261, F714, D1785, D2466, D2665, C443, C478, C497
- 9. THE PIPE MATERIAL, THE PRESSURE CLASSES, AND THE SDR AND/OR DR DESIGNATIONS ARE HDPE/PVC/CONCRETE, 160PSI/166PSI/(n/a), DR11/SCH40//CLASS III
- 10. IF ANY SENSITIVE FEATURES ARE DISCOVERED DURING THE WASTEWATER LINE TRENCHING ACTIVITIES, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPLICANT MUST IMMEDIATELY NOTIFY THE APPROPRIATE REGIONAL OFFICE OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY OF THE FEATURE DISCOVERED. A GEOLOGIST'S ASSESSMENT OF THE LOCATION AND EXTENT OF THE FEATURE DISCOVERED MUST BE REPORTED TO THAT REGIONAL OFFICE IN WRITING WITHIN TWO WORKING DAYS. THE APPLICANT MUST SUBMIT A PLAN FOR ENSURING THE STRUCTURAL INTEGRITY OF THE SEWER LINE OR FOR MODIFYING THE PROPOSED COLLECTION SYSTEM ALIGNMENT AROUND THE FEATURE. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY WHILE MAINTAINING THE STRUCTURAL INTEGRITY OF THE LINE.
- 11. SEWER LINES LOCATED WITHIN OR CROSSING THE 5-YEAR FLOODPLAIN OF A DRAINAGE WAY WILL BE PROTECTED FROM INUNDATION AND STREAM VELOCITIES WHICH COULD CAUSE EROSION AND SCOURING OF BACKFILL. THE TRENCH MUST BE CAPPED WITH CONCRETE TO PREVENT SCOURING OF BACKFILL, OR THE SEWER LINES MUST BE ENCASED IN CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM THICKNESS OF SIX (6) INCHES.
- 12. BLASTING PROCEDURES FOR PROTECTION OF EXISTING SEWER LINES AND OTHER UTILITIES WILL BE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION CRITERIA. SAND IS NOT ALLOWED AS BEDDING OR BACKFILL IN TRENCHES THAT HAVE BEEN BLASTED. IF ANY EXISTING SEWER LINES ARE DAMAGED, THE LINES MUST BE REPAIRED AND RETESTED.
- 13. ALL MANHOLES CONSTRUCTED OR REHABILITATED ON THIS PROJECT MUST HAVE WATERTIGHT SIZE ON SIZE RESILIENT CONNECTORS ALLOWING FOR DIFFERENTIAL SETTLEMENT. IF MANHOLES ARE CONSTRUCTED WITHIN THE 100—YEAR FLOODPLAIN, THE COVER MUST HAVE A GASKET AND BE BOLTED TO THE RING. WHERE GASKETED MANHOLE COVERS ARE REQUIRED FOR MORE THAN THREE MANHOLES IN SEQUENCE OR FOR MORE THAN 1500 FEET, ALTERNATE MEANS OF VENTING WILL BE PROVIDED. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF THE MANHOLE.

THE DIAMETER OF THE MANHOLES MUST BE A MINIMUM OF FOUR FEET AND THE MANHOLE FOR ENTRY MUST HAVE A MINIMUM CLEAR OPENING DIAMETER OF 30 INCHES. THESE DIMENSIONS AND OTHER DETAILS SHOWING COMPLIANCE WITH THE COMMISSION'S RULES CONCERNING MANHOLES AND SEWER LINE/MANHOLE INVERTS DESCRIBED IN 30 TAC §217.55 ARE INCLUDED ON PLAN SHEET 22 OF 30.

IT IS SUGGESTED THAT ENTRANCE INTO MANHOLES IN EXCESS OF FOUR FEET DEEP BE ACCOMPLISHED BY MEANS OF A PORTABLE LADDER. THE INCLUSION OF STEPS IN A MANHOLE IS PROHIBITED.

- 11. WHERE WATER LINES AND NEW SEWER LINE ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) (PIPE DESIGN) AND 30 TAC §290.44(E) (WATER DISTRIBUTION).
- 12. WHERE SEWERS LINES DEVIATE FROM STRAIGHT ALIGNMENT AND UNIFORM GRADE ALL CURVATURE OF SEWER PIPE MUST BE ACHIEVED BY THE PROCEDURE RECOMMENDED BY THE PIPE MANUFACTURER

SPECIFIC CARE MUST BE TAKEN TO ENSURE THAT THE JOINT IS PLACED IN THE CENTER OF THE TRENCH AND PROPERLY BEDDED IN ACCORDANCE WITH 30 TAC §217.54.

13. NEW SEWAGE COLLECTION SYSTEM LINES MUST BE CONSTRUCTED WITH STUB OUTS FOR THE CONNECTION OF ANTICIPATED EXTENSIONS. THE LOCATION OF SUCH STUB OUTS MUST BE MARKED ON THE GROUND SUCH THAT THEIR LOCATION CAN BE EASILY DETERMINED AT THE TIME OF CONNECTION OF THE EXTENSIONS. SUCH STUB OUTS MUST BE MANUFACTURED WYES OR TEES THAT ARE COMPATIBLE IN SIZE AND MATERIAL WITH BOTH THE SEWER LINE AND THE EXTENSION. AT THE TIME OF ORIGINAL CONSTRUCTION, NEW STUB—OUTS MUST BE CONSTRUCTED SUFFICIENTLY TO EXTEND BEYOND THE END OF THE STREET PAVEMENT. ALL STUB—OUTS MUST BE SEALED WITH A MANUFACTURED CAP TO PREVENT LEAKAGE. EXTENSIONS THAT WERE NOT ANTICIPATED AT THE TIME OF ORIGINAL CONSTRUCTION OR THAT ARE TO BE CONNECTED TO AN EXISTING SEWER LINE NOT FURNISHED WITH STUB OUTS MUST BE CONNECTED USING A MANUFACTURED SADDLE AND IN ACCORDANCE WITH ACCEPTED PLUMBING TECHNIQUES.

IF NO STUB—OUT IS PRESENT AN ALTERNATE METHOD OF JOINING LATERALS IS SHOWN IN THE DETAIL ON PLAN SHEET 22 OF 30. (FOR POTENTIAL FUTURE LATERALS).

THE PRIVATE SERVICE LATERAL STUB-OUTS MUST BE INSTALLED AS SHOWN ON THE PLAN AND PROFILE SHEETS ON PLAN SHEET 19 OF 20 AND MARKED AFTER BACKFILLING AS SHOWN IN THE DETAIL ON PLAN SHEET 18 OF 20.

- 14. TRENCHING, BEDDING AND BACKFILL MUST CONFORM WITH 30 TAC \$217.54. THE BEDDING AND BACKFILL FOR FLEXIBLE PIPE MUST COMPLY WITH THE STANDARDS OF ASTM D-2321, CLASSES IA, IB, II OR III. RIGID PIPE BEDDING MUST COMPLY WITH THE REQUIREMENTS OF ASTM C 12 (ANSI A 106.2) CLASSES A, B OR C.
- 15. SEWER LINES MUST BE TESTED FROM MANHOLE TO MANHOLE. WHEN A NEW SEWER LINE IS CONNECTED TO AN EXISTING STUB OR CLEAN—OUT, IT MUST BE TESTED FROM EXISTING MANHOLE TO NEW MANHOLE. IF A STUB OR CLEAN—OUT IS USED AT THE END OF THE PROPOSED SEWER LINE, NO PRIVATE SERVICE ATTACHMENTS MAY BE CONNECTED BETWEEN THE LAST MANHOLE AND THE CLEANOUT UNLESS IT CAN BE CERTIFIED AS CONFORMING WITH THE PROVISIONS OF 30 TAC §213.5(C)(3)(E).
- 16. ALL SEWER LINES MUST BE TESTED IN ACCORDANCE WITH 30 TAC §217.57. THE ENGINEER MUST RETAIN COPIES OF ALL TEST RESULTS WHICH MUST BE MADE AVAILABLE TO THE EXECUTIVE DIRECTOR UPON REQUEST. THE ENGINEER MUST CERTIFY IN WRITING THAT ALL WASTEWATER LINES HAVE PASSED ALL REQUIRED TESTING TO THE APPROPRIATE REGIONAL OFFICE WITHIN 30 DAYS OF

TEST COMPLETION AND PRIOR TO USE OF THE NEW COLLECTION SYSTEM. TESTING METHOD WILL

(a) FOR A COLLECTION SYSTEM PIPE THAT WILL TRANSPORT WASTEWATER BY GRAVITY FLOW, THE DESIGN MUST SPECIFY AN INFILTRATION AND EXFILTRATION TEST OR A LOW—PRESSURE AIR TEST. A TEST MUST CONFORM TO THE FOLLOWING REQUIREMENTS:

(1) LOW PRESSURE AIR TEST.

(A) A LOW PRESSURE AIR TEST MUST FOLLOW THE PROCEDURES DESCRIBED IN AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C-828, ASTM C-924, OR ASTM F-1417 OR OTHER PROCEDURE APPROVED BY THE EXECUTIVE DIRECTOR, EXCEPT AS TO TESTING TIMES AS REQUIRED IN TABLE C.3 IN SUBPARAGRAPH (C) OF THIS PARAGRAPH OR EQUATION C.3 IN SUBPARAGRAPH (B)(II) OF THIS PARAGRAPH.

(B) FOR SECTIONS OF COLLECTION SYSTEM PIPE LESS THAN 36 INCH AVERAGE INSIDE DIAMETER, THE FOLLOWING PROCEDURE MUST APPLY, UNLESS A PIPE IS TO BE TESTED AS REQUIRED BY PARAGRAPH (2) OF THIS SUBSECTION.

(I) A PIPE MUST BE PRESSURIZED TO 3.5 POUNDS PER SQUARE INCH (PSI) GREATER THAN THE PRESSURE EXERTED BY GROUNDWATER ABOVE THE PIPE.

(II) ONCE THE PRESSURE IS STABILIZED, THE MINIMUM TIME ALLOWABLE FOR THE PRESSURE TO DROP FROM 3.5 PSI GAUGE TO 2.5 PSI GAUGE IS

EQUATION C.3

 $T = \frac{0.085 \times D \times K}{O}$

COMPUTED FROM THE FOLLOWING EQUATION:

T = TIME FOR PRESSURE TO DROP 1.0 POUND PER SQUARE INCH GAUGE IN SECONDS

K = 0.000419 X D X L, BUT NOT LESS THAN 1.0

D = AVERAGE INSIDE PIPE DIAMETER IN INCHES

L = LENGTH OF LINE OF SAME SIZE BEING TESTED, IN FEET Q = RATE OF LOSS, 0.0015 CUBIC FEET PER MINUTE PER SQUARE FOOT INTERNAL SURFACE

(C) SINCE A K VALUE OF LESS THAN 1.0 MAY NOT BE USED, THE MINIMUM TESTING TIME FOR EACH PIPE DIAMETER IS SHOWN IN THE FOLLOWING TABLE C.3:

PIPE DIAMETER	MINIMUM TIME	MAXIMUM LENGTH FOR MINIMUM TIME	TIME FOR LONGER LENGTH
6	340	398	0.855
8	454	298	1.520
6	567	239	2.374
12	680	199	3.419
15	850	159	5.342
18	1020	133	7.693
21	1190	114	10.471
24	1360	100	13.676
27	1530	88	17.309
30	1700	80	21.369
33	1870	72	25.856

(D) AN OWNER MAY STOP A TEST IF NO PRESSURE LOSS HAS OCCURRED DURING THE FIRST 5% OF THE CALCULATED TESTING TIME.

(E) IF ANY PRESSURE LOSS OR LEAKAGE HAS OCCURRED DURING THE FIRST 25% OF A TESTING PERIOD, THEN THE TEST MUST CONTINUE FOR THE ENTIRE TEST DURATION AS OUTLINED ABOVE OR UNTIL FAILURE.

(F) WASTEWATER COLLECTION SYSTEM PIPES WITH A 27 INCH OR LARGER AVERAGE INSIDE DIAMETER MAY BE AIR TESTED AT EACH JOINT INSTEAD OF FOLLOWING THE PROCEDURE OUTLINED IN THIS SECTION.

(G) A TESTING PROCEDURE FOR PIPE WITH AN INSIDE DIAMETER GREATER THAN 33 INCHES MUST BE APPROVED BY THE EXECUTIVE DIRECTOR.

(2) INFILTRATION/EXFILTRATION TEST.

(A) THE TOTAL EXFILTRATION, AS DETERMINED BY A HYDROSTATIC HEAD TEST, MUST NOT EXCEED 50 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF 2.0 FEET ABOVE THE CROWN OF A PIPE AT AN UPSTREAM MANHOLE.

(B) AN OWNER SHALL USE AN INFILTRATION TEST IN LIEU OF AN EXFILTRATION TEST WHEN PIPES ARE INSTALLED BELOW THE GROUNDWATER LEVEL.

(C) THE TOTAL EXFILTRATION, AS DETERMINED BY A HYDROSTATIC HEAD TEST, MUST NOT EXCEED 50 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF TWO FEET ABOVE THE CROWN OF A PIPE AT AN UPSTREAM MANHOLE, OR AT LEAST TWO FEET ABOVE EXISTING GROUNDWATER LEVEL, WHICHEVER IS GREATER.

(D) FOR CONSTRUCTION WITHIN A 25-YEAR FLOOD PLAIN, THE INFILTRATION OR EXFILTRATION MUST NOT EXCEED 10 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT THE SAME MINIMUM TEST HEAD AS IN SUBPARGRAPH (C) OF THIS PARAGRAPH.

(E) IF THE QUANTITY OF INFILTRATION OR EXFILTRATION EXCEEDS THE MAXIMUM QUANTITY SPECIFIED, AN OWNER SHALL UNDERTAKE REMEDIAL ACTION IN ORDER TO REDUCE THE INFILTRATION OR EXFILTRATION TO AN AMOUNT WITHIN THE LIMITS SPECIFIED. AN OWNER SHALL RETEST A PIPE FOLLOWING A REMEDIATION ACTION.

(b) IF A GRAVITY COLLECTION PIPE IS COMPOSED OF FLEXIBLE PIPE, DEFLECTION TESTING IS ALSO REQUIRED. THE FOLLOWING PROCEDURES MUST BE FOLLOWED:

(1) FOR A COLLECTION PIPE WITH INSIDE DIAMETER LESS THAN 27 INCHES, DEFLECTION MEASUREMENT REQUIRES A RIGID MANDREL.

(A) MANDREL SIZING.

(I) A RIGID MANDREL MUST HAVE AN OUTSIDE DIAMETER (OD) NOT LESS
THAN 95% OF THE BASE INSIDE DIAMETER (ID) OR AVERAGE ID OF A PIPE,

WATER WORKS ASSOCIATION, UNI—BELL, OR AMERICAN NATIONAL STANDARDS INSTITUTE, OR ANY RELATED APPENDIX.

(II) IF A MANDREL SIZING DIAMETER IS NOT SPECIFIED IN THE APPROPRIATE STANDARD, THE MANDREL MUST HAVE AN OD EQUAL TO 95% OF THE ID OF A PIPE. IN THIS CASE, THE ID OF THE PIPE, FOR THE PURPOSE OF DETERMINING THE OD OF THE MANDREL, MUST EQUAL BE THE AVERAGE OUTSIDE DIAMETER MINUS TWO MINIMUM WALL THICKNESSES FOR OD

CONTROLLED PIPE AND THE AVERAGE INSIDE DIAMETER FOR ID CONTROLLED

AS SPECIFIED IN THE APPROPRIATE STANDARD BY THE ASTMS, AMERICAN

(III) ALL DIMENSIONS MUST MEET THE APPROPRIATE STANDARD.

(B) MANDREL DESIGN.

(I) A RIGID MANDREL MUST BE CONSTRUCTED OF A METAL OR A RIGID PLASTIC MATERIAL THAT CAN WITHSTAND 200 PSI WITHOUT BEING DEFORMED.

(II) A MANDREL MUST HAVE NINE OR MORE ODD NUMBER OF RUNNERS OR

LECC

(III) A BARREL SECTION LENGTH MUST EQUAL AT LEAST 75% OF THE INSIDE DIAMETER OF A PIPE.

(IV) EACH SIZE MANDREL MUST USE A SEPARATE PROVING RING.

(C) METHOD OPTIONS.

(I) AN ADJUSTABLE OR FLEXIBLE MANDREL IS PROHIBITED.(II) A TEST MAY NOT USE TELEVISION INSPECTION AS A SUBSTITUTE FOR A DEFLECTION TEST.

(III) IF REQUESTED, THE EXECUTIVE DIRECTOR MAY APPROVE THE USE OF A DEFLECTOMETER OR A MANDREL WITH REMOVABLE LEGS OR RUNNERS ON A CASE—BY—CASE BASIS.

(2) FOR A GRAVITY COLLECTION SYSTEM PIPE WITH AN INSIDE DIAMETER 27 INCHES AND GREATER, OTHER TEST METHODS MAY BE USED TO DETERMINE VERTICAL DEFLECTION.

(3) A DEFLECTION TEST METHOD MUST BE ACCURATE TO WITHIN PLUS OR MINUS 0.2% DEFLECTION.

(4) AN OWNER SHALL NOT CONDUCT A DEFLECTION TEST UNTIL AT LEAST 30 DAYS AFTER THE FINAL BACKFILL.

(5) GRAVITY COLLECTION SYSTEM PIPE DEFLECTION MUST NOT EXCEED FIVE PERCENT (5%).(6) IF A PIPE SECTION FAILS A DEFLECTION TEST, THE CONTRACTOR SHALL CORRECT THE PROBLEM AND CONDUCT A SECOND TEST AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.

17. ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 30 TAC \$217.58.

(a) ALL MANHOLES MUST PASS A LEAKAGE TEST.
 (b) AN OWNER SHALL TEST EACH MANHOLE (AFTER ASSEMBLY AND BACKFILLING) FOR LEAKAGE, SEPARATE AND INDEPENDENT OF THE COLLECTION SYSTEM PIPES, BY
HYDROSTATIC EXFILTRATION TESTING, VACUUM TESTING, OR OTHER METHOD APPROVED BY THE EXECUTIVE DIRECTOR.

(1) HYDROSTATIC TESTING.
(A) THE MAXIMUM LEAKAGE FOR HYDROSTATIC TESTING OR ANY ALTERNATIVE TEST METHODS IS 0.025 GALLONS PER FOOT DIAMETER PER FOOT OF MANHOLE

DÉPTH PER HOUR. (B) TO PERFORM A HYDROSTATIC EXFILTRATION TEST, AN OWNER SHALL SEAL ALL WASTEWATER PIPES COMING INTO A MANHOLE WITH AN INTERNAL PIPE PLUG,

(B) TO PERFORM A HYDROSTATIC EXFILTRATION TEST, AN OWNER SHALL SEAL ALL WASTEWATER PIPES COMING INTO A MANHOLE WITH AN INTERNAL PIPE PLUG FILL THE MANHOLE WITH WATER, AND MAINTAIN THE TEST FOR AT LEAST ONE HOUR.

(C) A TEST FOR CONCRETE MANHOLES MAY USE A 24-HOUR WETTING PERIOD BEFORE TESTING TO ALLOW SATURATION OF THE CONCRETE (2) VACUUM TESTING.

(2) VACOUM TESTING.

(A) TO PERFORM A VACUUM TEST, AN OWNER SHALL PLUG ALL LIFT HOLES AND EXTERIOR JOINTS WITH A NON—SHRINK GROUT AND PLUG ALL PIPES
ENTERING A MANHOLE.

(B) NO GROUT MUST BE PLACED IN HORIZONTAL JOINTS BEFORE TESTING.

(C) STUB-OUTS, MANHOLE BOOTS, AND PIPE PLUGS MUST BE SECURED TO PREVENT MOVEMENT WHILE A VACUUM IS DRAWN.

(D) AN OWNER SHALL USE A MINIMUM 60 INCH/LB TORQUE WRENCH TO TIGHTEN THE EXTERNAL CLAMPS THAT SECURE A TEST COVER TO THE TOP OF A MANHOLE.

(E) A TEST HEAD MUST BE PLACED AT THE INSIDE OF THE TOP OF A CONE SECTION, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

(F) THERE MUST BE A VACUUM OF 10 INCHES OF MERCURY INSIDE A MANHOLE TO PERFORM A VALID TEST. (G) A TEST DOES NOT BEGIN UNTIL AFTER THE VACUUM PUMP IS OFF.

(H) A MANHOLE PASSES THE TEST IF AFTER 2.0 MINUTES AND WITH ALL VALVES CLOSED, THE VACUUM IS AT LEAST 9.0 INCHES OF MERCURY.

18. ALL PRIVATE SERVICE LATERALS MUST BE INSPECTED AND CERTIFIED IN ACCORDANCE WITH 30 TAC \\$213.5(C)(3)(I). AFTER INSTALLATION OF AND, PRIOR TO COVERING AND CONNECTING A PRIVATE SERVICE LATERAL TO AN EXISTING ORGANIZED SEWAGE COLLECTION SYSTEM, A TEXAS LICENSED PROFESSIONAL ENGINEER, TEXAS REGISTERED SANITARIAN, OR APPROPRIATE CITY INSPECTOR MUST VISUALLY INSPECT THE PRIVATE SERVICE LATERAL AND THE CONNECTION TO THE SEWAGE COLLECTION SYSTEM, AND CERTIFY THAT IT IS CONSTRUCTED IN CONFORMITY WITH THE APPLICABLE PROVISIONS OF THIS SECTION. THE OWNER OF THE COLLECTION SYSTEM MUST MAINTAIN SUCH CERTIFICATIONS FOR FIVE YEARS AND FORWARD COPIES TO THE APPROPRIATE REGIONAL OFFICE UPON REQUEST. CONNECTIONS MAY ONLY BE MADE TO AN APPROVED SEWAGE COLLECTION SYSTEM.

ELSEWHERE GARDEN BAR & KITCHEN GRINDER PUMP & FORCE MAIN

DATE: 07/27/2023
DESIGNED BY: AR
DRAWN BY: JKQ
REVIEWED BY: TJS
REVISED:

REVISED: REVISED:

SHEET TITLE
GENERAL
NOTES
(1 OF 2)

SHEET NUMBER

8/10/23

BGE, Inc. 101 W. Louis Henna Blvd. Ste. 400

Austin, TX 78728

Tel: 512-879-0400 • www.bgeinc.com

TBPE Registration No. F-1046

ADAN RANGEL

139563

CENSED OF

SHEET 2 OF 5

- 1. THIS LIFT STATION AND/OR FORCE MAIN MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) EDWARDS AQUIFER RULES 30 TEXAS ADMINISTRATIVE CODE (TAC) §213.5(C), THE DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS 30 TAC CHAPTER 217, AND ANY LOCAL GOVERNMENT STANDARD SPECIFICATIONS.
- ANY MODIFICATION TO THE ACTIVITIES DESCRIBED IN THE REFERENCED LIFT STATION/FORCE MAIN SYSTEM APPLICATION FOLLOWING THE DATE OF APPROVAL MAY REQUIRE THE SUBMITTAL OF A LIFT STATION/FORCÉ MAIN SYSTEM APPLICATION TO MODIFY THIS APPROVAL, INCLUDING THE PAYMENT OF APPROPRIATE FEES AND ALL INFORMATION NECESSARY FOR ITS REVIEW AND APPROVAL.
- PRIOR TO COMMENCING ANY REGULATED ACTIVITY, THE APPLICANT OR HIS AGENT MUST NOTIFY THE PRECEDING TCEQ REGIONAL OFFICE, IN WRITING, OF THE DATE ON WHICH THE REGULATED ACTIVITY WILL BEGIN.
- 4. UPON COMPLETION OF THE WET WELL EXCAVATION, A GEOLOGIST MUST CERTIFY THAT THE EXCAVATION HAS BEEN INSPECTED FOR THE PRESENCE OF SENSITIVE FEATURES AND THE CERTIFICATION MUST BE SUBMITTED TO THE APPROPRIATE REGIONAL OFFICE. FURTHER ACTIVITIES MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY FROM THE LIFT STATION. CONSTRUCTION MAY CONTINUE IF THE GEOLOGIST CERTIFIES THAT NO SENSITIVE FEATURE OR FEATURES ARE
- 5. IF ANY SENSITIVE FEATURES ARE DISCOVERED DURING THE WASTEWATER LINE TRENCHING ACTIVITIES, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPLICANT MUST IMMEDIATELY NOTIFY THE APPROPRIATE REGIONAL OFFICE OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY OF THE FEATURE DISCOVERY. A GEOLOGIST'S ASSESSMENT OF THE LOCATION AND EXTENT OF THE FEATURE DISCOVERED MUST BE REPORTED TO THAT REGIONAL OFFICE IN WRITING WITHIN TWO WORKING DAYS. THE APPLICANT MUST SUBMIT A PLAN FOR ENSURING THE STRUCTURAL INTEGRITY OF THE SEWER LINE OR FOR MODIFYING THE PROPOSED COLLECTION SYSTEM ALIGNMENT AROUND THE FEATURE. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY WHILE MAINTAINING THE STRUCTURAL INTEGRITY OF THE LINE.
- 6. LIFT STATIONS SHALL BE DESIGNED TO WITHSTAND AND OPERATE DURING A 100-YEAR FLOOD EVENT AND SHALL BE ACCESSIBLE DURING A 25-YEAR FLOOD. ALL LIFT STATIONS SHALL BE INTRUDER-RESISTANT WITH A CONTROLLED ACCESS.
- 7. DRY WELL SUMP PUMPS: (a) A DRY WELL MUST USE DUAL SUMP PUMPS, EACH WITH A MINIMUM CAPACITY OF 1,000 GALLONS PER HOUR AND
- CAPABLE OF HANDLING THE VOLUME OF LIQUID GENERATED DURING PEAK
- (b) A PUMP MUST HAVE A SUBMERSIBLE MOTOR AND WATERTIGHT WIRING. (c) A DRY WELL FLOOR MUST SLOPE TOWARD A SUMP SIZED FOR PROPER DRAINAGE.
- (d) THE MINIMUM SUMP DEPTH IS 6.0 INCHES AND MUST PREVENT STANDING WATER ON A DRY WELL
- NORMAL OPERATION. (e) A SUMP PUMP MUST OPERATE AUTOMATICALLY BY USE OF A FLOAT SWITCH OR OTHER LEVEL-DETECTING DEVICE.
- (f) A SUMP PUMP MUST USE SEPARATE PIPES CAPABLE OF DISCHARGING MORE THAN THE MAXIMUM LIQUID LEVEL OF AN
- ASSOCIATED WET WELL. (g) A SUMP PUMP OUTLET PIPE MUST BE AT LEAST 1.5 INCHES IN DIAMETER AND HAVE AT LEAST TWO CHECK VALVES IN
- 8. PUMP CONTROLS. (a) A LIFT STATION PUMP MUST OPERATE AUTOMATICALLY, BASED ON THE WATER LEVEL IN A WET WELL.
- (b) THE LOCATION OF A WET WELL LEVEL MECHANISM MUST ENSURE THAT THE MECHANISM IS CURRENTS, RAGS, GREASE, OR OTHER FLOATING MATERIALS.
- (c) A LEVEL MECHANISM MUST BE ACCESSIBLE WITHOUT ENTERING THE WET WELL. (d) WET WELL CONTROLS WITH A BUBBLER SYSTEM REQUIRE DUAL AIR SUPPLY AND DUAL CONTROLS.
- (e) MOTOR CONTROL CENTERS MUST BE MOUNTED AT LEAST 4.0 INCHES ABOVE GRADE TO PREVENT WATER INTRUSION AND CORROSION FROM STANDING WATER IN THE ENCLOSURE.
- (f) ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS IN A WET WELL OR A DRY WELL MUST MEET NATIONAL PREVENTION ASSOCIATION 70 NATIONAL ELECTRIC CODE EXPLOSION PREVENTION REQUIREMENTS, UNLESS CONTINUOUS VENTILATION IS PROVIDED.
- (a) A WET WELL MUST BE ENCLOSED BY WATERTIGHT AND GAS TIGHT WALLS.
- (b) A PENETRATION THROUGH A WALL OF A WET WELL MUST BE GAS TIGHT.
- (c) A WET WELL MUST NOT CONTAIN EQUIPMENT REQUIRING REGULAR OR ROUTINE INSPECTION OR UNLESS INSPECTION AND MAINTENANCE CAN BE DONE WITHOUT STAFF ENTERING THE WET WELL.
- (d) A GRAVITY PIPE DISCHARGING TO A WET WELL MUST BE LOCATED SO THAT THE INVERT ELEVATION IS ABOVE THE LIQUID LEVEL OF A PUMP'S "ON" SETTING.
- (e) GATE VALVES AND CHECK VALVES ARE PROHIBITED IN A WET WELL.
- (f) GATE VALVES AND CHECK VALVES MAY BE LOCATED IN A VALVE VAULT NEXT TO A WET WELL OR IN A DRY WELL.
- (g) PUMP CYCLE TIME, BASED ON PEAK FLOW, MUST EQUAL OR EXCEED THOSE IN THE FOLLOWING TABLE:

PUMP HORSEPOWER	MINIMUM CYCLE TIMES (MIN)
< 50	6
50 - 100	10
> 100	15

PUMP HORSEPOWER MINIMUM CYCLE TIMES (MINUTES) < 50 6 50-100 10 > 100 15 (h) AN EVALUATION OF MINIMUM WET WELL VOLUME REQUIRES THE FOLLOWING FORMULA:

$$V = \frac{T \times Q}{4 \times 7.48}$$

- V = ACTIVE VOLUME (CUBIC FEET)Q = PUMP CAPACITY (GALLONS PER MINUTE)
- T = CYCLE TIME (MINUTES)
- 7.48 = CONVERSION FACTOR (GALLONS/CUBIC FOOT)
- (a) A WET WELL FLOOR MUST HAVE A SMOOTH FINISH AND MINIMUM SLOPE OF 10% TO A PUMP (b) A WET WELL DESIGN MUST PREVENT DEPOSITION OF SOLIDS UNDER NORMAL OPERATING CONDITIONS.
- (c) A LIFT STATION WITH GREATER THAN 5.0 MILLION GALLONS PER DAY FIRM PUMPING CAPACITY MUST HAVE ANTI-VORTEX BAFFLING.
- 11. DRY WELL ACCESS.

10. WET WELL SLOPES.

- (a) AN UNDERGROUND DRY WELL MUST BE ACCESSIBLE.
- (b) A STAIRWAY IN A DRY WELL MUST USE NON-SLIP STEPS AND CONFORM TO OCCUPATIONAL SAFETY ADMINISTRATION REGULATIONS WITH RESPECT TO RISE AND RUN.

INTAKE.

- (c) A LADDER IN A DRY WELL MUST MADE OF NON-CONDUCTIVE MATERIAL AND RATED FOR THE LOAD NECESSARY FOR STAFF AND EQUIPMENT TO DESCEND AND ASCEND.
- 12. VENTILATION SHALL BE PROVIDED FOR LIFT STATIONS, INCLUDING BOTH WET AND DRY WELLS.
- 13. HOISTING EQUIPMENT. A LIFT STATION MUST HAVE PERMANENT HOISTING EQUIPMENT OR BE ACCESSIBLE TO PORTABLE HOISTING EQUIPMENT FOR REMOVAL OF PUMPS, MOTORS, VALVES, PIPES, AND OTHER SIMILAR EQUIPMENT.
- 14. A FLOOR DRAIN FROM A VALVE VAULT TO A WET WELL MUST PREVENT GAS FROM ENTERING A VALVE VAULT BY INCLUDING FLAP VALVES, "P" TRAPS, SUBMERGED OUTLETS, OR A COMBINATION OF THESE DEVICES.
- (a) GENERAL REQUIREMENTS. A RAW WASTEWATER PUMP, WITH THE EXCEPTION OF A GRINDER PUMP,
 - (1) BE DESIGNED TO PREVENT CLOGGING; (2) BE CAPABLE OF PASSING A SPHERE OF 2.5 INCHES IN DIAMETER OR GREATER; AND
- (3) HAVE GREATER THAN 3.0 INCH DIAMETER SUCTION AND DISCHARGE OPENINGS. (b) SUBMERSIBLE AND NON-SUBMERSIBLE PUMPS.
- (1) A NON-SUBMERSIBLE PUMP MUST HAVE INSPECTION AND CLEANOUT PLATES ON BOTH THE SUCTION
- AND DISCHARGE SIDES OF EACH PUMPING UNIT THAT FACILITATE LOCATING AND REMOVING BLOCKAGE—CAUSING MATERIALS, UNLESS THE PUMP DESIGN ACCOMMODATES EASY REMOVAL OF THE ROTATION ELEMENTS.
 - (2) A PUMP SUPPORT MUST PREVENT MOVEMENT AND VIBRATION DURING OPERATION.
 - (1) A SUBMERSIBLE PUMP MUST USE A RAIL-TYPE PUMP SUPPORT SYSTEM WITH
 - MANUFACTURER-APPROVED MECHANISMS DESIGNED TO ALLOW PERSONNEL TO REMOVE AND REPLACE ANY SINGLE PUMP WITHOUT ENTERING OR DEWATERING THE WET WELL. (2) SUBMERSIBLE PUMP RAILS AND LIFTING CHAINS MUST BE CONSTRUCTED OF A MATERIAL THAT PERFORMS TO AT LEAST THE STANDARD OF SERIES 300 STAINLESS STEEL.
- (c) LIFT STATION PUMPING CAPACITY. THE FIRM PUMPING CAPACITY OF A LIFT STATION MUST HANDLE THE EXPECTED PEAK
- FLOW. (d) PUMP HEAD CALCULATIONS.
 - (1) AN OWNER SHALL SELECT A PUMP BASED UPON ANALYSIS OF THE SYSTEM HEAD AND PUMP CAPACITY OTHER PUMPS AS THE TOTAL CURVES THAT DETERMINE THE PUMPING CAPACITIES ALONE AND WITH PUMPED THROUGH A FORCE MAIN. DYNAMIC-HEAD INCREASES DUE TO ADDITIONAL FLOWS
 - (2) THE PIPE HEAD LOSS CALCULATIONS, USING THE HYDRAULIC INSTITUTE STANDARDS, PERTAINING TO HEAD LOSSES THROUGH PIPES, VALVES, AND FITTINGS, MUST BE INCLUDED IN THE REPORT. (3) THE SELECTED FRICTION COEFFICIENT (HAZEN-WILLIAMS "C" VALUE) USED IN FRICTION HEAD LOSS CALCULATIONS MUST BE BASED ON THE PIPE MATERIAL SELECTED.

- (4) FOR A LIFT STATION WITH MORE THAN TWO PUMPS, A FORCE MAIN IN EXCESS OF ONE-HALF PUMPING CAPACITY OF 100 GALLONS PER MINUTE OR GREATER, SYSTEM CURVES MUST BE PROVIDED FOR BOTH THE NORMAL AND PEAK OPERATING CONDITIONS AT C VALUES FOR PROPOSED AND EXISTING PIPE.
- (1) A LIFT STATION OR A TRANSFER PUMPING STATION LOCATED AT OR DISCHARGING DIRECTLY TO A WASTEWATER TREATMENT SYSTEM MUST HAVE A PEAK PUMP CAPACITY EQUAL TO OR LESS THAN THE PEAK DESIGN FLOW, UNLESS EQUALIZATION IS PROVIDED.
- (2) A WASTEWATER TREATMENT SYSTEM WITH A PEAK FLOW THAT IS GREATER THAN 300,000 GALLON PER DAY MUST USE THREE OR MORE PUMPS, UNLESS DUPLEX, AUTOMATICALLY CONTROLLED, VARIABLE CAPACITY PUMPS ARE PROVIDED.

SEPARATE

- (1) A SELF-PRIMING PUMP MUST BE CAPABLE OF PRIMING WITHOUT RELIANCE UPON A PRIMING SYSTEM, AN INTERNAL FLAP VALVE, OR ANY EXTERNAL MEANS FOR PRIMING.
- (2) A SELF-PRIMING PUMP MUST USE A SUCTION PIPE VELOCITY AT LEAST 3.0 FEET PER SECOND BUT NOT MORE THAN 7.0 FEET PER SECOND, AND MUST INCORPORATE ITS OWN SUCTION PIPE.
- (3) A SELF-PRIMING PUMP MUST VENT AIR BACK INTO THE WET WELL DURING PRIMING. (g) VACUUM—PRIMING PUMPS.
- (1) A VACUUM-PRIMED PUMP MUST BE CAPABLE OF PRIMING BY USING A SEPARATE PRIMING WASTEWATER PUMP SYSTEM WITH A DEDICATED VACUUM PUMP FOR EACH MAIN (2) A VACUUM-PRIMING PUMP MUST USE A SUCTION PIPE VELOCITY AT LEAST 3.0 FEET PER SECOND BU
- LESS THAN 7.0 FEET PER SECOND AND MUST HAVE ITS OWN SUCTION PIPE. (f) VERTICAL POSITIONING OF PUMPS. A RAW WASTEWATER PUMP MUST HAVE POSITIVE STATIC SUCTION HEAD DURING NORMAL ON-OFF CYCLING, EXCEPT A SUBMERSIBLE PUMP WITH "NO SUCTION" PIPES, A VACUUM-PRIMED PUMP OR A SELF-PRIMING UNIT CAPABLE OF SATISFACTORY OPERATION UNDER ANY NEGATIVE SUCTION HEAD ANTICIPATED
- FOR THE LIFT STATION. (g) INDIVIDUAL GRINDER PUMPS. A GRINDER PUMP SERVING ONLY ONE RESIDENTIAL OR COMMERCIAL STRUCTURE THAT IS
- PRIVATELY OWNED, MAINTAINED, AND OPERATED IS NOT SUBJECT TO THE RULES OF THIS CHAPTER. (h) PUMP FOR LOW-FLOW LIFT STATION. A PUMP USED FOR A LIFT STATION WITH A PEAK FLOW OF LESS THAN 120 GALLONS PER MINUTE MUST BE SUBMERSIBLE AND INCLUDE A GRINDER.

GENERATOR.

- HORIZONTAL PUMP SUCTIONS. (1) EACH PUMP MUST HAVE A SEPARATE SUCTION PIPE THAT USES AN ECCENTRIC REDUCER.
- (2) PIPES IN A WET WELL MUST HAVE A TURNDOWN TYPE FLARED INTAKE
- (1) THE DISCHARGE SIDE OF EACH PUMP FOLLOWED BY A FULL-CLOSING ISOLATION VALVE MUST A CHECK VALVE. (A) A CHECK VALVE MUST BE A SWING TYPE VALVE WITH AN EXTERNAL LEVER. (B) A VALVE MUST INCLUDE A POSITION INDICATOR TO SHOW ITS OPEN AND CLOSED POSITIONS. UNLESS A FULL-CLOSING VALVE IS A RISING-STEM GATE VALVE. (2) A GRINDER PUMP INSTALLATION MAY USE A RUBBER-BALL CHECK VALVE OR A SWING-TYPE
- (3) A BUTTERFLY VALVE, TILTING-DISC CHECK VALVE, OR ANY OTHER VALVE USING A TILTING-DISC IN A FLOW PIPE IS PROHIBITED
- (1) A LIFT STATION PIPE MUST HAVE FLANGED OR FLEXIBLE CONNECTIONS TO ALLOW FOR REMOVAL OF PUMPS AND VALVES WITHOUT INTERRUPTION OF THE LIFT STATION OPERATIONS.
- (2) WALL PENETRATIONS MUST ALLOW FOR PIPE FLEXURE WHILE EXCLUDING EXFILTRATION OR INFILTRATION. (3) PIPE SUCTION VELOCITIES MUST BE AT LEAST 3.0 FEET PER SECOND BUT NOT MORE THAN 7.0 FEET
- 17. EMERGENCY PROVISIONS FOR LIFT STATIONS. (a) A COLLECTION SYSTEM LIFT STATION MUST BE EQUIPPED WITH A TESTED QUICK-CONNECT MECHANISM OR A TRANSFER SWITCH PROPERLY SIZED TO CONNECT TO A PORTABLE GENERATOR, IF NOT EQUIPPED WITH AN ONSITE
- (b) LIFT STATIONS MUST INCLUDE AN AUDIOVISUAL ALARM SYSTEM AND THE SYSTEM MUST TRANSMIT ALL CONDITIONS THROUGH USE OF AN AUTO-DIALER SYSTEM, SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM OR TELEMETERING SYSTEM CONNECTED TO A CONTINUOUSLY MONITORED
- (c) AN ALARM SYSTEM MUST SELF-ACTIVATE FOR A POWER OUTAGE, PUMP FAILURE, OR A HIGH WET WELL WATER LEVEL. (d) A LIFT STATION CONSTRUCTED TO PUMP RAW WASTEWATER MUST HAVE SERVICE RELIABILITY BASED
 - THE RETENTION CAPACITY IN A LIFT STATION'S WET WELL AND INCOMING GRAVITY OR ANY MUST PREVENT DISCHARGES OF UNTREATED WASTEWATER AT THE LIFT STATION UPSTREAM FOR A PERIOD OF TIME EQUAL TO THE LONGEST ELECTRICAL OUTAGE RECORDED DURING THE PAST 24 MONTHS, BUT NOT LESS THAN 20 FOR CALCULATION PURPOSES, THE OUTAGE PERIOD BEGINS WHEN A LIFT STATION
- FINISHED ITS LAST NORMAL CYCLE, EXCLUDING A STANDBY PUMP. (2) ON-SITE GENERATORS. A LIFT STATION MAY BE PROVIDED EMERGENCY POWER BY ON-SITE, AUTOMATIC ELECTRICAL GENERATORS SIZED TO OPERATE THE LIFT STATION AT ITS FIRM PUMPING CAPACITY OR AT
- THE AVERAGE DAILY FLOW, IF THE PEAK FLOW CAN BE STORED IN THE COLLECTION SYSTEM. (3) PORTABLE GENERATORS AND PUMPS. (A) A LIFT STATION MAY USE PORTABLE GENERATORS AND PUMPS TO GUARANTEE THE REPORT INCLUDES:
- (i) THE STORAGE LOCATION OF EACH GENERATOR AND PUMP; (ii) THE AMOUNT OF TIME THAT WILL BE NEEDED TO TRANSPORT EACH GENERATOR OR PUMP TO A LIFT STATION; (iii) THE NUMBER OF LIFT STATIONS FOR WHICH EACH GENERATOR OR PUMP IS
- DEDICATED AS A BACKUP; AND (iv) THE TYPE OF ROUTINE MAINTENANCE AND UPKEEP PLANNED FOR EACH PORTABLE GÈNERATOR AND PUMP TO ENSURE THAT THEY WILL BE OPERATIONAL WHEN NEEDED.
- AN OPERATOR THAT IS KNOWLEDGEABLE IN OPERATION OF THE PORTABLE GENERATORS AND PUMPS SHALL BE ON CALL 24 HOURS PER DAY EVERY DAY. THE SIZE OF A PORTABLE GENERATOR MUST HANDLE THE FIRM PUMPING CAPACITY OF THE LIFT
- (e) SPILL CONTAINMENT STRUCTURES. (1) THE USE OF A SPILL CONTAINMENT STRUCTURE AS A SOLE MEANS OF PROVIDING SERVICE RELIABILITY
- (2) A LIFT STATION MAY USE A SPILL CONTAINMENT STRUCTURE IN ADDITION TO ONE OF THE SERVICE RELIABILITY OPTIONS DETAILED IN THIS IN SUBSECTION (A) OF THIS SECTION.
- (3) THE REPORT MUST INCLUDE A DETAILED MANAGEMENT PLAN FOR CLEANING AND MAINTAINING EACH SPILL CONTAINMENT STRUCTURE. (4) A SPILL CONTAINMENT STRUCTURE MUST HAVE A LOCKED GATE AND BE SURROUNDED AN INTRUDER RESISTANT FENCE THAT IS 6.0 FEET HIGH CHAIN LINK, MASONRY, OR BOARD FENCE WITH AT LEAST THREE OR BOARD FENCE WITH AT LEAST STRANDS OF BARBED WIRE OR 8.0 FEET HIGH CHAIN LINK, MASONRY,
- ONE STRAND OF BARBED WIRE. (f) A LIFT STATION MUST BE FULLY ACCESSIBLE DURING A 25-YEAR 24-HOUR RAINFALL EVENT.
- (q) LIFT STATION SYSTEM CONTROLS MUST PREVENT OVER-PUMPING UPON RESUMPTION OF NORMAL POWER AFTER A POWER FAILURE. BACKUP OR STANDBY UNITS MUST BE ELECTRICALLY INTERLOCKED TO PREVENT OPERATION AT THE SAME TIME THAT OTHER LIFT STATIONS PUMPS ARE OPERATING ONLY ON THE RESUMPTION OF NORMAL POWER AFTER A POWER

Texas Commission on Environmental Quality Lift Station and Force Main Edwards Aquifer Protection Program Construction Notes:

THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY BE REQUIRED TO ACHIEVE COMPLIANCE WITH TCEQ REGULATIONS FOUND IN TITLE 30, TEXAS ADMINISTRATIVE CODE (TAC), CHAPTERS 213 AND 217, AS WELL AS LOCAL ORDINANCES AND REGULATIONS PROVIDING FOR THE PROTECTION OF WATER QUALITY. ADDITIONALLY, NOTHING CONTAINED THE FOLLOWING/LISTED "CONSTRUCTION NOTES" RESTRICTS THE POWERS OF THE ED, THE COMMISSION OR ANY OTHER GOVERNMENTAL ENTITY TO PREVENT, CORRECT, OR CURTAIL ACTIVITIES THAT RESULT OR MAY RESULT IN POLLUTION OF THE EDWARDS AQUIFER OR HYDROLOGICALLY CONNECTED SURFACE WATERS. THE HOLDERS OF ANY EDWARDS AQUIFER PROTECTION PLAN CONTAINING "CONSTRUCTION NOTES" IS STILL RESPONSIBLE FOR COMPLIANCE WITH TITLE 30, TAC, CHAPTERS 213 OR ANY OTHER APPLICABLE TCEQ REGULATION, AS WELL AS CONDITIONS OF AN EDWARDS AQUIFER PROTECTION PLAN THROUGH ALL PHASES OF PLAN IMPLEMENTATION. FAILURE 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 VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC \$213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT 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, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION.

- 1. THIS LIFT STATION AND/OR FORCE MAIN MUST BE CONSTRUCTED IN ACCORDANCE WITH 30 TEXAS ADMINISTRATIVE CODE (TAC) §213.5(C), THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) EDWARDS AQUIFER RULES, AND ANY LOCAL GOVERNMENT STANDARD SPECIFICATIONS.
- 2. ANY MODIFICATION TO THE ACTIVITIES DESCRIBED IN THE REFERENCED LIFT STATION/FORCE MAIN (LSFM) SYSTEM APPLICATION FOLLOWING THE DATE OF APPROVAL MAY REQUIRE THE SUBMITTAL OF A LSFM SYSTEM APPLICATION TO MODIFY THIS APPROVAL, INCLUDING THE PAYMENT OF APPROPRIATE FEES AND ALL INFORMATION NECESSARY FOR ITS REVIEW AND APPROVAL.

- 3. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE PRESIDING 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.
- 4. UPON COMPLETION OF ANY LIFT STATION EXCAVATION, A GEOLOGIST MUST CERTIFY THAT THE EXCAVATION HAS BEEN INSPECTED FOR THE PRESENCE OF SENSITIVE FEATURES. THE CERTIFICATION MUST BE SIGNED, SEALED, AND DATED BY THE GEOLOGIST PREPARING THE CERTIFICATION. CERTIFICATION THAT THE EXCAVATION HAS BEEN INSPECTED MUST BE SUBMITTED TO THE
 - IF SENSITIVE FEATURE(S) ARE IDENTIFIED, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY AND MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY
- CONSTRUCTION MAY CONTINUE IF THE GEOLOGIST CERTIFIES THAT NO SENSITIVE FEATURE OR FEATURES WERE PRESENT.
- 5. IF ANY SENSITIVE FEATURES ARE DISCOVERED DURING THE WASTEWATER LINE TRENCHING ACTIVITIES, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPLICANT MUST IMMEDIATELY NOTIFY THE APPROPRIATE REGIONAL OFFICE OF THE TCEQ OF THE FEATURE DISCOVERY. A GEOLOGIST'S ASSESSMENT OF THE LOCATION AND EXTENT OF THE FEATURE DISCOVERED MUST BE REPORTED TO THAT REGIONAL OFFICE IN WRITING WITHIN TWO WORKING DAYS. THI APPLICANT MUST SUBMIT A PLAN FOR ENSURING THE STRUCTURAL INTEGRITY OF THE SEWER LINE OR FOR MODIFYING THI PROPOSED COLLECTION SYSTEM ALIGNMENT AROUND THE FEATURE. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY WHILE MAINTAINING THE STRUCTURAL INTEGRITY OF THE LINE.
- 6. ALL FORCE MAIN LINES MUST BE TESTED IN ACCORDANCE WITH 30 TAC \$217.68. TESTING METHOD WILL BE: - A PRESSURE TEST MUST USE 50 POUNDS PER SQUARE INCH ABOVE THE NORMAL OPERATING
 - A TEMPORARY VALVE FOR PRESSURE TESTING MAY BE INSTALLED NEAR THE DISCHARGE POINT OF A
 - FORCE MAIN AND REMOVED AFTER A TEST IS SUCCESSFULLY COMPLETED
 - A PUMP ISOLATION VALVE MAY BE USED AS AN OPPOSITE TERMINATION POINT. - A TEST MUST INVOLVE FILLING A FORCE MAIN WITH WATER.
 - A PIPE MUST HOLD THE DESIGNATED TEST PRESSURE FOR A MINIMUM OF 4.0 HOURS
 - THE LEAKAGE RATE MUST NOT EXCEED 10.0 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER
- Texas Commission on Environmental Quality Water Pollution Abatement Plan Edwards Aguifer Protection Program Construction Notes:
- 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 TOEQ 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
- 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 DRAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHAR 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 IH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS 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;

WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:

- 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
- A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT

A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS

- 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
- C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT

ADAN RANGEL 139563 CENSE SYONAL + 8/10/23

BGE, Inc.

101 W. Louis Henna Blvd. Ste. 400 Austin, TX 78728 Tel: 512-879-0400 • www.bgeinc.com TBPE Registration No. F-1046

Д (7)

DATE: 07/27/2023 DESIGNED BY: AR DRAWN BY: JKQ REVIEWED BY: TJS **REVISED:** REVISED:

REVISED:

SHEET TITLE GENERA (2 OF 2)

SHEET NUMBER

SHEET 5 OF

NOTES:

- CONTRACTOR SHALL CALL "ONE CALL" 1-800-545-6005 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT-OF-WAY.
- 2. THE CONTRACTOR IS REQUIRED TO RESTORE ALL DISTURBED AREAS AS THE WORK PROGRESSES.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK IN THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC AND GAS UTILITIES THEMSELVES. ALL OVERHEAD AND UNDERGROUND ELECTRICAL AND GAS OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN , FROM ANY INTERFERENCE WITH ELECTRIC AND GAS LINES OR FROM DAMAGING, DIGGING, UNCOVERING OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES BGE. AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.
- 4. ALL RESPONSIBILITY FOR THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF SAN ANTONIO MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- 5. TRENCHES AREAS IN PAVEMENT SHALL BE COVERED WITH STEEL PLATING TO MAINTAIN ACCESS FOR VEHICULAR TRAFFIC. WHERE OUTSIDE OF PAVEMENT, FILL TRENCHES WITH SPOILS AT THE END OF EACH WORK SHIFT.
- 6. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
- 7. LIMITS OF TEMPORARY STAGING, STORAGE AND SPOIL AREAS SHALL BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE LOCATION OF THESE SITES SHALL BE MOVED PERIODICALLY IN ORDER TO FOLLOW THE CONSTRUCTION ROUTE. TRAFFIC CONTROL, FENCING AND EROSION/SEDIMENTATION CONTROL MEASURES SHALL BE PLACED AT EACH SITE.
- 8. SILT FENCE SHALL BE SITUATED SO THAT THE ENDS ARE ARCHED AND POINTED UPSTREAM.
- 9. SILT FENCE AND MULCHING SOCK SHOWN AS CONTINUOUS, CONTRACTOR TO ALLOW FOR DRIVEWAY, WALKWAY, ETC., WHEN NECESSARY.
- 10. CONTRACTOR SHALL PROVIDE SOIL RETENTION MATTING AT ALL DISTURBED AREAS WITH SLOPE 3:1 OR GREATER AND AT ALL IMPACTED DRAINAGE DITCHES. CONTRACTOR MAY PROVIDE SOIL RETENTION MATTING AT OTHER AREAS TO EXPEDITE RESTORATION EFFORTS.
- 11. ANY AREA OUTSIDE THE LIMITS OF CONSTRUCTION OR ACCESS SHOWN ON THE PLANS THAT IS DISTURBED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR SHALL BE IMMEDIATELY RESTORED. ANY ADDITIONAL RESTORATION OR MAINTENANCE SHALL BE AT NO EXPENSE TO THE OWNER.
- 12. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TRAP, OR REVEGETATION MATTING.
- 13. CONTRACTOR SHALL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS DAILY.
- 14. NO TREES OR LANDSCAPING ARE TO BE REMOVED.
- 15. TREE SURVEY WAS PERFORMED BY KFW ENGINEERS & DESIGN.
- 16. TOPOGRAPHICAL AND PLANIMETRIC INFORMATION BASED ON INFORMATION PROVIDED BY KFW ENGINEERS & DESIGN.
- 17. LOCATION OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES IS APPROXIMATE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES. ANY EXISTING PAVEMENT, CURB, SIDEWALKS, DRAINAGE STRUCTURES, OR OTHER IMPROVEMENTS WHICH ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
- 18. THE COST OF ALL FITTINGS, INCLUDING THOSE NOT SHOWN, SHALL BE SUBSIDIARY TO THE COST OF THE PIPE.

INSTALLATION:

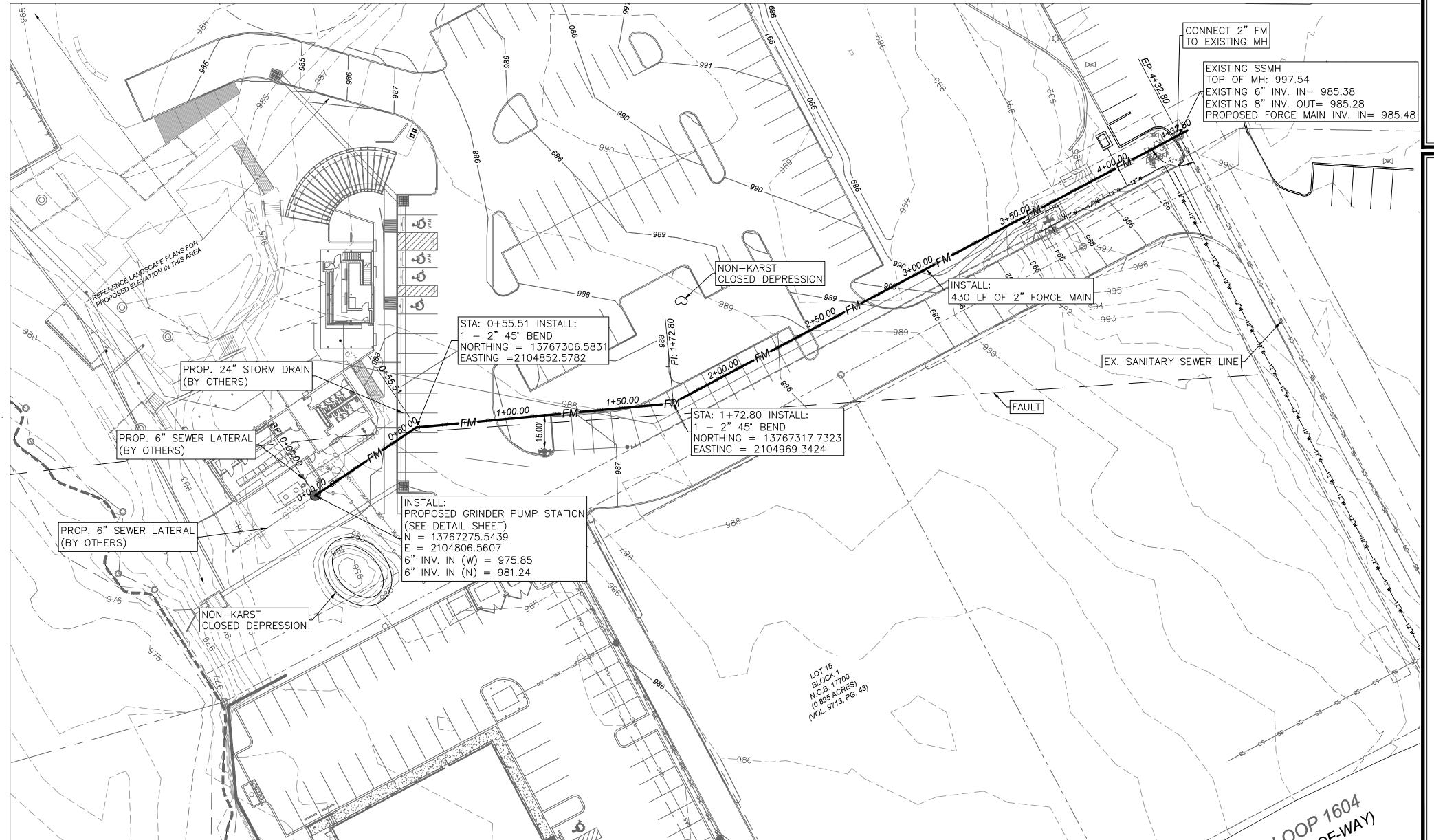
- 1. FORCE MAIN TO BE PLACED AT A MINIMUM DEPTH OF 4 FEET.
- 2. ALL HORIZONTAL AND VERTICAL FORCE MAIN BENDS, VALVES, TEES, AND REDUCERS SHALL BE MECHANICALLY RETRAINED TO THE PIPE USING MEGA-LUG OR APPROVED EQUAL.
- 3. ALL VALVES, MANHOLES, LIDS, ETC. IN PAVEMENT AREAS SHALL BE ADJUSTED TO FINISHED GRADE.

WATERLINE CROSSING:

- 1. WHERE THE MINIMUM 9 FOOT SEPARATION DISTANCE BETWEEN SEWER LINES AND WATER LINES CANNOT BE MAINTAINED, THE INSTALLATION OF SEWER LINES SHALL BE IN STRICT ACCORDANCE WITH TCEQ RULES (30 TAC 217.53), SDR 26 ASTM 150 PSI OR CONCRETE ENCASEMENT DUCT IRON.
- 2. CONTRACTOR TO MAINTAIN A MINIMUM 1' VERTICAL SEPARATION FROM WATERLINES AT CROSSINGS.

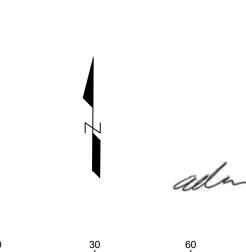
PIPE MATERIAL:

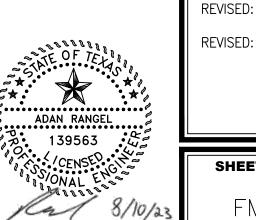
1. FORCE MAIN LINE SHALL BE HDPE DR 11, 200 PSI PRESSURE RATING.



<u>LEGEND</u>

---- FLOODZONE





BGE, Inc. 101 W. Louis Henna Blvd. Ste. 400 Austin, TX 78728

Tel: 512-879-0400 • www.bgeinc.com TBPE Registration No. F-1046

REVISED:

REVISED:

DATE: 07/27/2023 DESIGNED BY: AR DRAWN BY: JKQ REVIEWED BY: TJS

 \overline{O}

0

ЛP

5

Д

GRINDI

B

X

Щ

K

HE

Щ S

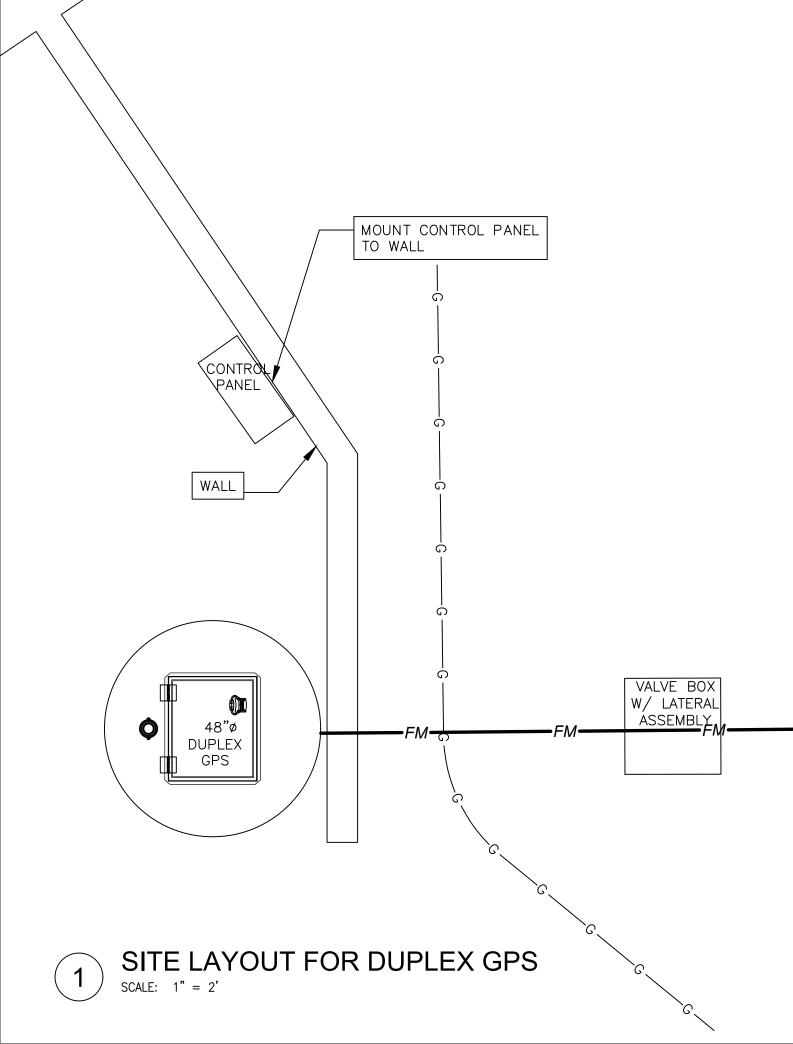
П

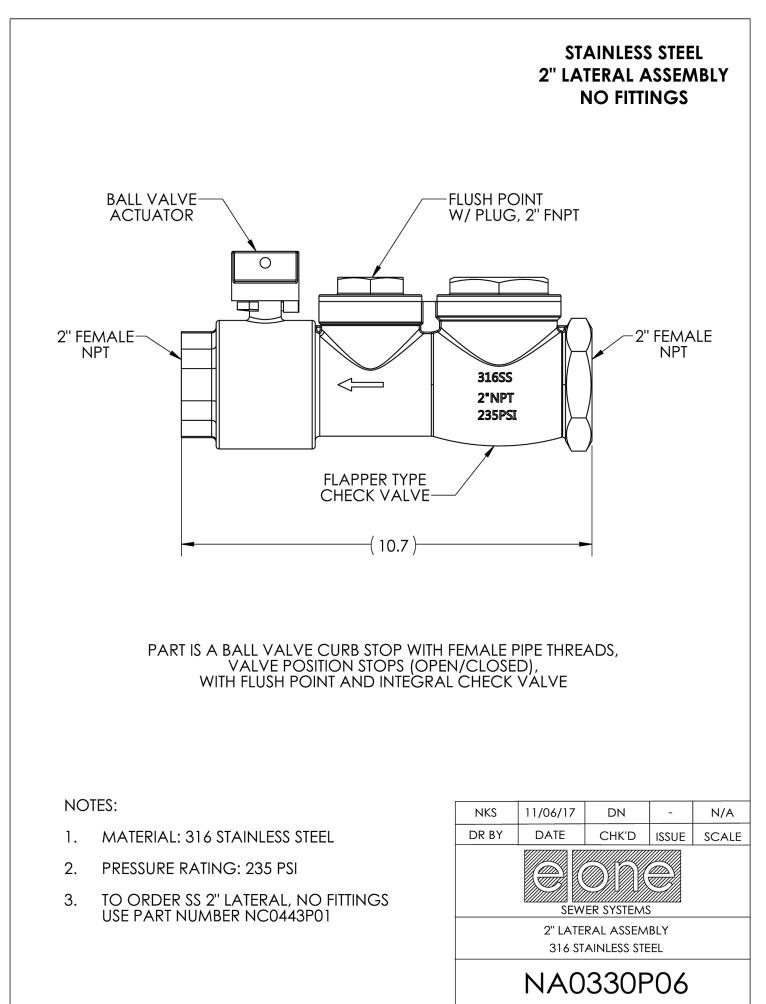
SHEET TITLE FM-1

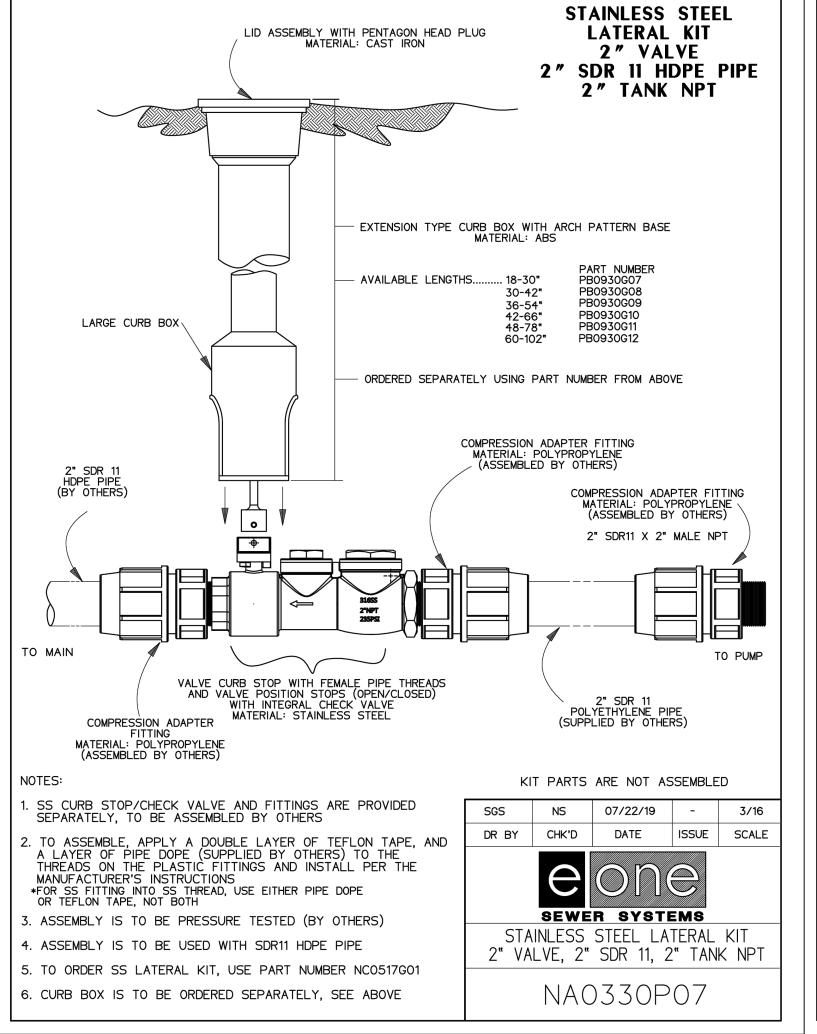
SHEET NUMBER

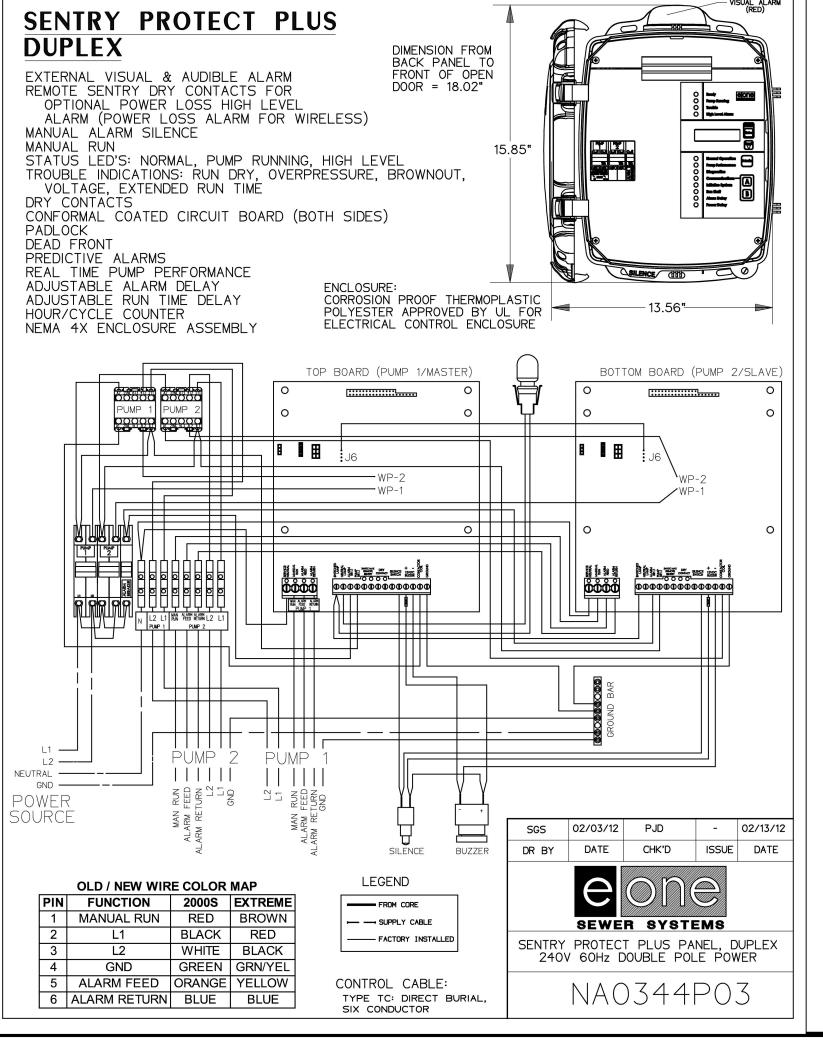
SHEET 4 OF 5

PROP FORCE MAIN -----W ------ EXIST WATER LINE ----XXX---- EXIST CONTOUR











1. FLOW BASED ON 659 TOTAL OCCUPANTS.

2. 37 GPM, TDH OF 33'

3. PUMPS TO BE 2HP, LSG200-SERIES LIBERTY PUMP.

4. DIMENSIONS AND DETAILS BASED UPON E-ONE GRINDER PUMP AND SMITH PUMP COMPANY MODELS. IF OTHER GRINDER PUMP IS APPROVED, FOLLOW MANUFACTURER'S DETAILS AND REQUIREMENTS.

SENTRY PROTECT PLUS DUPLEX NOTES:

1. CONTRACTOR TO COORDINATE WITH MANUFACTURER & ENGINEERING PRIOR TO VENT INSTALLATION

2. CONTRACTOR TO VERIFY STATION OVERALL DEPTH WITH MANUFACTURER & ENGINEER PRIOR TO CONSTRUCTION

3. SEE ELSEWHERE GARDEN BAR & KITCHEN GRADING PLAN, BY KFW ENGINEERS & DESIGN, FOR PROPOSED SITE GRADES.

> Ŷ 0 B **JP** ட R N \simeq (1)

DATE: 07/27/2023

DESIGNED BY: AR

DRAWN BY: JKQ REVIEWED BY: TJS REVISED: REVISED: REVISED:

SHEET TITLE 8/10/23

SHEET NUMBER BGE, Inc.

TBPE Registration No. F-1046

101 W. Louis Henna Blvd. Ste. 400 SHEET 5 OF 5 Austin, TX 78728 Tel: 512-879-0400 • www.bgeinc.com





SECTION 5 TEMPORARY STORMWATER

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: Frank D. Corey, PE

Date: <u>06/22/23</u>

Signature of Customer/Agent:

Regulated Entity Name: Elsewhere Garden Bar & Kitchen

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.
	igtimes 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.
S	equence 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

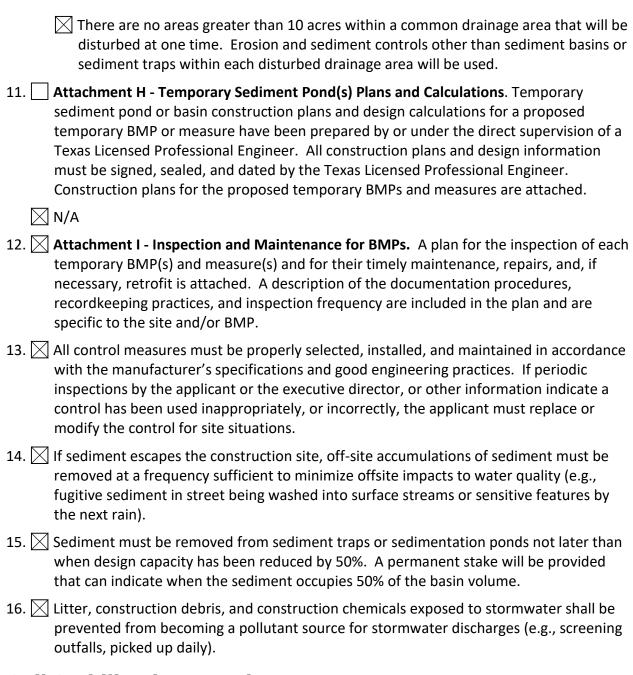
Temporary Best Management Practices (TBMPs)

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.

receive discharges from disturbed areas of the project: Upper San Antonio Watershed

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

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



Soil Stabilization Practices

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

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

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

Administrative Information

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



SPILL RESPONSE ACTIONS

If there is an accidental spill on site, the contractor shall respond with appropriate action. The contractor will be required to contact the owner and in turn the owner will contact the TCEQ in the event of a spill on site. In addition to the following guidance, reference the latest version of TCEQ's Technical Guidance Manual (TGM) RG-348 Section 1.4.16.

General Measures

- 1. To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- 2. Store hazardous materials and wastes in covered containers and protect from vandalism.
- 3. Place a stockpile of spill cleanup materials where it will be readily accessible.
- 4. Train employees in spill prevention and cleanup.
- 5. Designate responsible individuals to oversee and enforce control measures.
- 6. Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise clean-up activities.
- 7. Do not bury or wash spills with water.
- 8. Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- 9. Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- 10. Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- 11. Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- 12. Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

- 1. Clean up leaks and spills immediately.
- 2. Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.



3. Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. Specific spill response procedures are outlined below for each spill category (Minor – Hazardous).

Minor Spills

- 1. Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- 2. Use absorbent materials on small spills rather than hosing down or burying the spill.
- 3. Absorbent materials should be promptly removed and disposed of properly.
- 4. Follow the practice below for a minor spill:
 - Contain the spread of the spill.
 - Recover spilled materials.
 - Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

- 1. Contain spread of the spill.
- 2. Notify the project foreman immediately.
- 3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- 4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- 5. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- 1. Notify the TCEQ by telephone as soon as possible and within 24 hours at (512)339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- 2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- 3. Notification should first be made by telephone and followed up with a written report.



- 4. The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- 5. Other agencies which may need to be consulted include, but not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

Vehicle and Equipment Maintenance

- 1. If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- 2. Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- 3. Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- 4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- 5. Place drip pans or absorbent materials under paving equipment when not in use.
- 6. Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- 7. Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- 8. Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- 9. Store cracked batteries in a non- leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- 1. If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- 2. Discourage "topping off" of fuel tanks.
- 3. Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.



Potential Sources of Contamination

Potential Source: Oil, grease, fuel, and hydraulic fluid contamination from construction equipment and vehicle dripping.

Preventative Measures: Vehicle maintenance when possible will be performed within the construction staging area or a local maintenance shop.

Potential Source: Miscellaneous trash and litter from construction workers and material wrappings.

Preventative Measures: Trash containers will be placed throughout the site to encourage proper disposal of trash.

Potential Source: Silt leaving the site.

Preventative Measures: Contractor will install all temporary best management practices prior to start of construction including the stabilized construction entrance to prevent tracking onto adjoining streets.

Potential Source: Construction Debris.

Preventative Measures: Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis.

Potential Source: Soil and Mud from Construction Vehicle tires as they leave the site.

Preventative Measures: A stabilized construction exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.

Potential Source: Sediment from soil, sand, gravel and excavated materials stock piled on site.

Preventative Measures: Silt fence shall be installed on the down gradient side of the stock piled materials. Reinforced rock berms shall be installed at all downstream discharge locations.

Potential Source: Portable toilet spill.

Preventative Measures: Toilets on the site will be emptied on a regular basis by the contracted toilet company.



Sequence of Major Activities

Intended Schedule or Sequence of Major Activities:

- 1. Installation of temporary BMPs (±0.50 acres).
- 2. Site clearing activities and sanitary sewer main installation (± 0.50 acres).
- 3. Trenching and installation of private sanitary sewer system (± 0.50 acres).
- 4. Backfilling of trench (± 0.50 acres).
- 5. Site cleanup and removal of temporary BMPs (± 0.50 acres).



TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

- **A:** A small amount of up-gradient runoff currently flows across the project area from Lot 10 and 15. The proposed development on the project site will not change the drainage pattern of the existing condition. Therefore, additional Temporary Best Management Practices and Measures to prevent pollution of surface and ground water will not be required.
 - Perimeter swales, dikes and slope drains will not be required due to no amount of storm water originating up-gradient from the site. Existing trees and vegetation will be protected to help maintain a stable ground surface and prevent loss of valuable topsoil. Stabilizing measures will be applied, to the maximum extent practicable, after the removal of any vegetative cover and/or altering the soil structure by clearing, grading, and compacting.
- **B:** The BMPs for this project are designed to allow water to pass through after sedimentation has occurred. Existing flow patterns will be maintained to any naturally-occurring sensitive features that are discovered during construction.
- **C:** As identified in the Geologic Assessment three (4) features were found within the boundaries of the project. The identified feature was not considered natural and sensitive, therefore, Temporary Best Management Practices and Measures to prevent pollutants from entering sensitive features will not be required at this time. The temporary on-site Temporary Best Management Practices and Measures will be used to treat stormwater runoff before it leaves the project and prevent pollutants from entering into surface streams or any sensitive features off-site.
- **D:** According to the Geologic Assessment three (3) naturally occurring geologic features were identified during the geologic assessment. The identified feature was not considered sensitive, therefore, Temporary Best Management Practices and Measures used for maintaining flow to naturally –occurring sensitive features identified in the geologic assessment will not be required. The owner, geologist and engineer of record shall be notified immediately if any naturally-occurring sensitive features identified in either an executive director review, or during excavation, blasting, or construction. A Solution Feature Discovery Notification Form will then be submitted to the Texas Commission of Environmental Quality for review.

Feature Discovery Notification Form will then be submitted to the Texas Commission of Environmental Quality for review.



REQUEST TO TEMPORARILY SEAL A FEATURE

There will be no temporary sealing of any naturally occurring features on site.



Structural Practices

Structural practices will be installed to prevent pollution caused by contaminated storm water runoff discharge from exposed areas of the site. Perimeter swales, dikes and slope drains used to divert flows away from exposed soils will not be required due to the small amount of storm water that originates up-gradient from the site. All structural practices will be installed prior to the removal of any vegetative cover and/or altering the soil structure by clearing, grading, and compacting. The location of all structural practices for the subject site is shown on the WPAP Site Plan (*Exhibit 1*). The following describes the structural practices used.

Concrete Washout Areas

The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.

The following steps will help reduce storm water pollution from concrete wastes:

- 1. Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- 2. Avoid mixing excess amounts of fresh concrete.
- 3. Perform washout of concrete trucks in designated areas only.
- 4. Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- 5. Do not allow excess concrete to be dumped onsite, except in designated areas.

For onsite washout:

- 1. Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- 2. Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

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.



Silt Fence

A silt fence is a barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. When properly used, silt fences can be highly effective at controlling sediment from disturbed areas. They cause runoff to pond, allowing heavier solids to settle out. If not properly installed, silt fences are not likely to be effective.

The purpose of a silt fence is to intercept and detain water-borne sediment from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. If concentrated flow occurs after installation, corrective action must be taken such as placing a rock berm in the areas of concentrated flow.

Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

Materials:

- 1. Silt fence material should be polypropylene, polyethylene or polyamide woven or nonwoven fabric. The fabric width should be 36 inches, with a minimum unit weight of 4.5 oz/yd, mullen burst strength exceeding 190 lb/in2, ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
- 2. Fence posts should be made of hot rolled steel, at least 4 feet long with Tee or Ybar cross section, surface painted or galvanized, minimum nominal weight 1.25 lb/ft, and Brindell hardness exceeding 140.
- 3. Woven wire backing to support the fabric should be galvanized 2" x 4" welded wire, 12 gauge minimum.

Installation:

- 1. Steel posts, which support the silt fence, should be installed on a slight angle toward the anticipated runoff source. Post must be embedded a minimum of 1-foot deep and spaced not more than 8 feet on center. Where water concentrates, the maximum spacing should be 6 feet.
- 2. Lay out fencing down-slope of disturbed area, following the contour as closely as possible. The fence should be sited so that the maximum drainage area is ¼ acre/100 feet of fence.
- 3. The toe of the silt fence should be trenched in with a spade or mechanical trencher, so that the down-slope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g., pavement or rock outcrop), weight fabric flap with 3 inches of pea gravel on uphill side to prevent flow from seeping under fence.
- 4. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.



- 5. Silt fence should be securely fastened to each steel support post or to woven wire, which is in turn attached to the steel fence post. There should be a 3-foot overlap, securely fastened where ends of fabric meet.
- 6. Silt fence should be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

Common Trouble Points:

- 1. Fence not installed along the contour causing water to concentrate and flow over the fence.
- 2. Fabric not seated securely to ground (runoff passing under fence)
- 3. Fence not installed perpendicular to flow line (runoff escaping around sides)
- 4. Fence treating too large an area, or excessive channel flow (runoff overtops or collapses fence)

Temporary Construction Entrance/Exit

The purpose of a temporary gravel construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A stabilized construction entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk, or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress.

Excessive amounts of mud can also present a safety hazard to roadway users. To minimize the amount of sediment loss to nearby roads, access to the construction site should be limited to as few points as possible and vegetation around the perimeter should be protected were access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

Materials:

- 1. The aggregate should consist of 4 to 8 inch washed stone over a stable foundation as specified in the plan.
- 2. The aggregate should be placed with a minimum thickness of 8 inches.
- 3. The geotextile fabric should be designed specifically for use as a soil filtration media with an approximate weight of 6 oz/yd2, a mullen burst rating of 140 lb/in2, and an equivalent opening size greater than a number 50 sieve.
- 4. If a washing facility is required, a level area with a minimum of 4 inch diameter washed stone or commercial rack should be included in the plans. Divert wastewater to a sediment trap or basin.

Installation: (North Carolina, 1993)

1. Avoid curves on public roads and steep slopes. Remove vegetation and other objectionable material from the foundation area. Grade crown foundation for positive drainage.



- 2. The minimum width of the entrance/exit should be 12 feet or the full width of exit roadway, whichever is greater.
- 3. The construction entrance should be at least 50 feet long.
- 4. If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 (H:V) side slopes, across the foundation approximately 15 feet from the entrance to divert runoff away from the public road.
- 5. Place geotextile fabric and grade foundation to improve stability, especially where wet conditions are anticipated.
- 6. Place stone to dimensions and grade shown on plans. Leave surface smooth and slope for drainage.
- 7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.
- 8. Install pipe under pad as needed to maintain proper public road drainage.

Common trouble points:

- 1. Inadequate runoff control sediment washes onto public road.
- 2. Stone too small or geotextile fabric absent, results in muddy condition as stone is pressed into soil.
- 3. Pad too short for heavy construction traffic extend pad beyond the minimum 50 foot length as necessary.
- 4. Pad not flared sufficiently at road surface, results in mud being tracked on to road and possible damage to road edge.
- 5. Unstable foundation use geotextile fabric under pad and/or improve foundation drainage.

Inlet Protection

Storm sewers that are made operational prior to stabilization of the associated drainage areas can convey large amounts of sediment to natural drainage ways. In case of extreme sediment loading, the storm sewer itself may clog and lose a major portion of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets. The following guidelines for inlet protection are based primarily on recommendations by the Virginia Dept. of Conservation and Recreation (1992) and the North Central Texas Council of Governments (NCTCOG, 1993b).

In developments for which drainage is to be conveyed by underground storm sewers (i.e., streets with curbs and gutters), all inlets that may receive storm runoff from disturbed areas should be protected. Temporary inlet protection is a series of different measures that provide protection against silt transport or accumulation in storm sewer systems. This clogging can greatly reduce or completely stop the flow in the pipes. The different measures are used for different site conditions and inlet types.

Care should be taken when choosing a specific type of inlet protection. Field experience has shown that inlet protection that causes excessive ponding in an area of high construction activity may become so inconvenient that it is removed or bypassed, thus transmitting sediment-laden flows unchecked. In such situations, a structure with an adequate overflow mechanism should be utilized.



It should also be noted that inlet protection devices are designed to be installed on construction sites and not on streets and roads open to the public. When used on public streets these devices will cause ponding of runoff, which can cause minor flooding and can present a traffic hazard. An example of appropriate siting would be a new subdivision where the storm drain system is installed before the area is stabilized and the streets open to the general public. When construction occurs adjacent to active streets, the sediment should be controlled on site and not on public thoroughfares. Occasionally, roadwork or utility installation will occur on public roads. In these cases, inlet protection is an appropriate temporary BMP.

The following inlet protection devices are for drainage areas of one acre or less. Runoff from larger disturbed areas should be routed to a temporary sediment trap or basin. Filter barrier protection using silt fence is appropriate when the drainage area is less than one acre and the basin slope is less than five percent. This type of protection is not applicable in paved areas.

Block and gravel protection is used when flows exceed 0.5 cubic feet per second and it is necessary to allow for overtopping to prevent flooding. This form of protection is also useful for curb type inlets as it works well in paved areas.

Wire mesh and gravel protection is used when flows exceed 0.5 cubic feet per second and construction traffic may occur over the inlet. This form of protection may be used with both curb and drop inlets.

Excavated impoundment protection around a drop inlet may be used for protection against sediment entering a storm drain inlet. With this method, it is necessary to install weep holes to allow the impoundment to drain completely. If this measure is implemented, the impoundment should be sized such that the volume of excavation is 3,600 cubic feet per acre (equivalent to 1 inch of runoff) of disturbed area entering the inlet.

Materials:

- 1. Filter fabric should be a nylon reinforced polypropylene fabric which meets the following minimum criteria: Tensile Strength, 90 lbs.; Puncture Rating, 60 lbs.; Mullen Burst Rating, 280 psi; Apparent Opening Size, U.S. Sieve No. 70.
- 2. Posts for fabric should be 2" x 4" pressure treated wood stakes or galvanized steel, tubular in cross-section or they may be standard fence "T" posts.
- 3. Concrete blocks should be standard 8" x 8" x 16" concrete masonry units.
- 4. Wire mesh should be standard hardware cloth or comparable wire mesh with an opening size not to exceed 1/2 inch.

Guidelines for installation:

Silt Fence Drop Inlet Protection

- 1. Silt fence should conform to the specifications listed above and should be cut from a continuous roll to avoid joints.
- 2. For stakes, use 2 x 4-inch wood or equivalent metal with a minimum length of 3 feet.



- 3. Space stakes evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely drive them into the ground, approximately 18 inches deep.
- 4. To provide needed stability to the installation, a frame with 2 x 4- inch wood strips around the crest of the overflow area at a maximum of 1½ feet above the drop inlet crest should be provided.
- 5. Place the bottom 12 inches of the fabric in a trench and backfill the trench with 12 inches of compacted soil.
- 6. Fasten fabric securely by staples or wire to the stakes and frame. Joints must be overlapped to the next stake.
- 7. It may be necessary to build a temporary dike on the down slope side of the structure to prevent bypass flow.

If the drop inlet is above the finished grade, the grate may be completely covered with filter fabric. The fabric should be securely attached to the entire perimeter of the inlet using 1"x 2" wood strips and appropriate fasteners.

Gravel and Wire Mesh Drop Inlet Sediment Filter

- 1. Wire mesh should be laid over the drop inlet so that the wire extends a minimum of 1 foot beyond each side of the inlet structure. Wire mesh with 1/2-inch openings should be used. If more than one strip of mesh is necessary, the strips should be overlapped.
- 2. Coarse aggregate should be placed over the wire mesh. The depth of stone should be at least 12 inches over the entire inlet opening. The stone should extend beyond the inlet opening at least 18 inches on all sides.
- 3. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the inlet, cleaned and/or replaced.

Note: This filtering device has no overflow mechanism; therefore, ponding is likely especially if sediment is not removed regularly. This type of device should never be used where overflow may endanger an exposed fill slope. Consideration should also be given to the possible effects of ponding on traffic movement, nearby structures, working areas, adjacent property, etc.

Block and Gravel Drop Inlet Sediment Filter

- 1. Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4-inch, 8-inch and 12- inch wide blocks. The barrier of blocks should be between 12 and 24 inches high.
- 2. Wire mesh should be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Wire mesh with 1/2-inch openings should be used.
- 3. Stone should be piled against the wire to the top of the block barrier.
- 4. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and replaced.



Block and Gravel Curb Inlet Sediment Filter

- 1. Two concrete blocks should be placed on their sides abutting the curb at either side of the inlet opening.
- 2. A 2"X4" stud should be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
- 3. Concrete blocks should be placed on their sides across the front of the inlet and abutting the spacer blocks.
- 4. Wire mesh should be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Wire mesh with 1/2-inch openings should be used.
- 5. Coarse aggregate should be piled against the wire to the top of the barrier.
- 6. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and/or replaced.

Excavated Drop Inlet Sediment Trap

- 1. The excavated trap should be sized to provide a minimum storage capacity calculated at 3,600 cubic feet per acre of drainage area. A trap should be no less than 1-foot nor more than 2 feet deep measured from the top of the inlet structure. Side slopes should not be steeper than 2:1.
- 2. The slope of the basin may vary to fit the drainage area and terrain. Observations must be made to check trap efficiency and modifications should be made as necessary to ensure satisfactory trapping of sediment. Where an inlet is located so as to receive concentrated flows, such as in a highway median, it is recommended that the basin have a rectangular shape in a 2:1 (length/width) ratio, with the length oriented in the direction of the flow.
- 3. Sediment should be removed and the trap restored to its original dimensions when the sediment has accumulated to one- half the design depth of the trap. Removed sediment should be deposited in a suitable area and in a manner such that it will not erode.

Curb Inlet Protection with 2-inch x 4-inch Wooden Weir

- 1. Attach a continuous piece of wire mesh (30-inch minimum width x inlet throat length plus 4 feet) to the 2-inch x 4-inch wooden weir (with a total length of throat length plus 2 feet). Wood should be "construction grade" lumber.
- 2. Place a piece of approved filter cloth of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2- inch x 4- inch weir.
- 3. Securely nail the 2-inch x 4-inch weir to the 9-inch long vertical spacers which are to be located between the weir and inlet face at a maximum 6- foot spacing.
- 4. Place the assembly against the inlet throat and nail 2-foot (minimum) lengths of 2-inch x 4- inch board to the top of the weir at spacer locations. These 2- inch x 4-inch anchors should extend across the inlet tops and be held in place by sandbags or alternate weight.
- 5. The assembly should be placed so that the end spacers are a minimum 1 foot beyond both ends of the throat opening.



- 6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place coarse aggregate over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- 7. This type of protection should be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- 8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

Bagged Gravel Inlet Filter

Sandbags filled with pea gravel can also be used to construct a sediment barrier around curb and drain inlets. The sandbags should be filled with washed pea gravel and stacked to form a continuous barrier about 1 foot high around the inlets. The bags should be tightly abutted against each other to prevent runoff from flowing between the bags.

Common Trouble Points:

- 1. Gaps between the inlet protection and the curb (flows bypass around side of filter).
- 2. Filter fabric skirt not anchored to pavement (flows pass under filter).



DRAINAGE AREA MAP

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. The Existing and Proposed Drainage Area Maps are provided at the end of this report in Exhibit 2.



Temporary Sediment Pond(s) Plans And Calculations

The proposed development will not disturb areas over 10 acres. Therefore, temporary sediment pond(s) plans and calculations will not be required.



INSPECTION AND MAINTENANCE FOR BMP'S

MAINTENANCE

All temporary and permanent erosion and sediment control BMPs will be maintained and repaired as needed to assure continued performance of their intended function. All maintenance and repair of BMPs will be conducted in accordance with manufacturers' specifications.

All temporary erosion and sediment control BMPs will be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment will be removed or stabilized on site. Disturbed soil areas resulting from removal of BMPs or vegetation will be permanently stabilized as soon as possible.

Erosion and sediment controls are designed to prevent soil erosion and sediment migration offsite, to the extent practicable, which may result from construction activity. This design considers local topography, soil type, and rainfall.

Control measures must be installed and maintained according to the manufacturer's specifications. If periodic inspections or other information indicates a control has been used inappropriately, or incorrectly, the permitee must replace or modify the control for site situations.

Sediment must be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%.

If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts, and whenever feasible, prior to the next rain event.

The controls must be installed, maintained, and operated in a manner that will limit, to the extent practicable, offsite transport of litter, construction debris, and construction materials.

INSPECTIONS

An inspection will be performed by the qualified personnel, as designated by the permitee, on a weekly basis and after any rainfall event. An inspection and maintenance report shall be made per inspection. An inspection form has been included in this report. Based on the inspection results, the controls shall be corrected before the next scheduled inspection.

A log of inspection results will be maintained on-site and will include the name of the inspector, date, major observations, and necessary corrective measures. Reports of maintenance and inspection activities will be maintained on-site, in conformance with the TPDES permit conditions. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the WPAP. This report must be signed by the responsible party.

Major observations shall, at a minimum, include the following:

• The locations of discharges of sediment or other pollutants from the site;



- Locations of BMPs that need to be maintained;
- Locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and
- Location where additional BMPs are needed.

All needed repairs or modifications will be reported to the contractors to permit the timely implementation of required actions. Necessary repairs of modifications will be implemented within seven days of inspection. The SWPPP will be modified within seven days to reflect any modifications to measures as a result of inspection.

The SWPPP must be amended whenever there is a change in design, construction, operation or maintenance that has a significant effect on the discharge of pollutants to the waters of the United States that was not addressed in the SWPPP.

The SWPPP must be amended when inspections or investigations by site operations, local, state or federal officials indicate that the SWPPP is proving ineffective in eliminating or significantly minimizing pollutants from the construction site or otherwise is not achieving the general objectives of controlling pollutants in storm water discharges associated with construction activity.



INSPECTION FORM

Project Name:				
Owner (s)/Operator (s):				
Permit Numbers(s):	BLE	CE	CORRECTION	
Inspection Date:	NOT APPLICABLE	IN COMPLIANCE	NEEDS CORF	
RECORD KEEPING	_ <	1	_	
SWP3 Current				
NOI and Permit Posted				
BEST MANAGEMENT PRACTICES (BMPs)				
Vegetative Buffers				
Soil Covering(Including mulch and temporary vegetation)				
Outlet Protection				
Sediment Control Basins				
Silt Fence				
Stabilized Entrances/Exits				
Construction Staging Areas				
Inlet Protection				
Gravel Filter Bags				
Vegetated Filter Strip				
Concrete Truck Washout Pit				
Trash Receptacles				
General Site Cleanliness				



Other				
Other				
Other				
MAJOR OBSERVATIONS				
CERTIFICATION				
"I certify under penalty of law that this document and all attachments accordance with a system designed to assure that qualified personne submitted. Based on my inquiry of the person or persons who mana for gathering the information, the information submitted is, to the best complete. I am aware there are significant penalties for submitting fairmprisonment for knowing violations."	el p ige t st of	rope the s my	rly g syste knov	gather and evaluate the information em, or those persons directly responsible wledge and belief, true, accurate, and
"I further certify I am an authorized signatory in accordance with the	prov	visio	ns o	of 30 TAC §305.128."
INSPECTOR NAME/SIGNATURE:				DATE:
(Inspector must attach a brief summary of qualifications to this report	t.)			
OWNER NAME/SIGNATURE: DATE:				



SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION

Construction practices shall disturb the minimal amount of existing ground cover as required for land clearing, grading, and construction activity for the shortest amount of time possible to minimize the potential of erosion and sedimentation from the site. Existing vegetation shall be maintained and left in place until it is necessary to disturb for construction activity. For this project the following stabilization practices will be implemented:

- Hydraulic Mulch and Seeding: Disturbed areas subject to erosion shall be stabilized with hydraulic mulch and/or seeded and watered to provide interim stabilization. For areas that are not to be sodded as per the project landscaping plan, a minimum of 85% vegetative cover will be established to provide permanent stabilization.
- 2. Sodding and Wood Mulch: As per the project landscaping plan, Sodding and wood mulch will be applied to landscaped areas to provide permanent stabilization prior to project completion.

Records of the following shall be maintained by the permitee in the attached Project Timeline:

- a) The dates when major grading activities occur;
- b) The dates when construction activities temporarily or permanently cease on a portion of the site;
- c) The dates when stabilization measures are initiated.

Stabilization measures must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in the following, must be initiated no more that fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased:

Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practical.

Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of the site. In arid areas (areas with an average rainfall of 0-10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practical.



PROJECT TIMELINE

	· · · · · · · · · · · · · · · · · · ·
	DATES WHEN MAJOR GRADING ACTIVITIES OCCUR
Date	Construction Activity
	DATES WHEN CONSTRUCTION ACTIVITIES
	TEMPORARILY OR PERMANENTLY CEASE
Date	Construction Activity
	DATES WHEN STABILIZATION MEASURES ARE INITIATED
Date	Stabilization Activity



SECTION 6 ADDITIONAL FORMS

Owner Authorization Form

Texas Commission on Environmental Quality

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

Land Owner Authorization

ı, of	
Land Owner Signatory Name	Land Owner Name (Legal Entity or Individual)
am the owner of the property located at	
Legal description of the	property referenced in the application
	$\S213.4(c)(2)$ and $\S213.4(d)(1)$ or $\S213.23(c)(2)$ and n application, signatory authority, and proof of authorized
I do hereby authorize	
Applicant	t Name (Legal Entity or Individual)
to conduct	
Description of t	the proposed regulated activities
at	<u>.</u>
Precise location of	f the authorized regulated activities
Land Owner Acknowledger	nent
I understand that	

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

Land Owner Name (Legal Entity or Individual)

Land Owner Signature

Land Owner Signature THE STATE OF § Texas County of § Beyac BEFORE ME, the undersigned authority, on this day personally appeared Time Files 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 day of June NOTARY PUBLIC Comm. Expires 08-10-2028 Notary ID 131879245 Typed or Printed Name of Notary Notary ID 131879245 Notary ID 131879245
Attached: (Mark all that apply) Lease Agreement Signed Contract Deed Recorded Easement Other legally binding document

Applicant Acknowledgement

Nolon Ellic		Elsewhere Hospitality, LLC
I, Nolan Ellis Applicant Signatory Name	of	Applicant Name (Legal Entity or Individual)
acknowledge that Ridge East, LL	С	
Land O	wner Name (Lega	l Entity or Individual)
has provided Elsewhere Hospita	lity, LLC	
Applic	cant Name (Legal	Entity or Individual)
with the right to possess and contro	I the property ref	erenced in the Edwards Aquifer protection plan.
I understand that Elsewhere Hos	pitality, LLC	
		al Entity or Individual)
is contractually responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation. I further understand that failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.		
Applicant Signature		
KNOWN TO THE TO BE THE DEISON WITE	oc Hallic is sasse.	bersonally appeared No lan Ellis wibed to the foregoing instrument, and
acknowledged to me that (s)he executed GIVEN under my hand and seal of o	cuted same for th	e purpose and consideration therein expressed.
	^^^^	Gabriella Lozano
GABRIELLA L. Notary Public. State My Comm. Exp. 0 ID No. 13333	9-16-2025 8	Typed or Printed Name of Notary MY COMMISSION EXPIRES: 09/16/2025

Application Fee Form

Texas Commission on Environmental Quality Name of Proposed Regulated Entity: Elsewhere Garden Bar & Kitchen Regulated Entity Location: 4513 North Loop 1604 West, San Antonio, TX 78249 Name of Customer: Elsewhere Hospitality, LLC Contact Person: Terrin Fuhrmann Phone: 210-393-0511 Customer Reference Number (if issued):CN 11761375 Regulated Entity Reference Number (if issued):RN 606153575 **Austin Regional Office (3373)** Havs Travis Williamson San Antonio Regional Office (3362) Medina Uvalde Comal Kinney Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: Austin Regional Office San Antonio Regional Office Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier **Revenues Section** 12100 Park 35 Circle Mail Code 214 Building A, 3rd Floor

Site Location (Check All That Apply):

Austin, TX 78711-3088

P.O. Box 13088

Recharge Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone		
Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone		
Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone		
Plan: Non-residential	Acres	\$
Sewage Collection System	432.80 L.F.	\$ 650.00
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$

Contributing Zone

Austin, TX 78753 (512)239-0357

Signature:

Each

Each

Each

Transition Zone

Piping System(s)(only)

Extension of Time

Exception

Date:	

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for	Submissi	on (If other is checked	l please descri	be in space provide	d.)							
New Pern	nit, Registra	ation or Authorization	(Core Data Fo	rm should be submi	itted witi	h the prog	ram application.)					
Renewal	(Core Data I	Form should be submi	tted with the i	renewal form)			Other					
2. Customer Reference Number (if issued)				Follow this link to	ow this link to search 3. Regulated			ference	Number (if i	issued)		
				for CN or RN num								
CN 6061535	75		Central Registi	<u>ry**</u>	RN 1	RN 111761375						
SECTION	N II:	Customer	Inform	mation		\ <u></u>						
4. General Cu	4. General Customer Information 5. Effective Date for Customer In							уууу)				
New Custor	mer		pdate to Cust	omer Information		Char	nge in Regulated Ent	ity Own	ership			
☐Change in Le	egal Name (Verifiable with the Te	xas Secretary	of State or Texas Co	mptrolle	r of Public	Accounts)					
The Custome	r Name su	ıbmitted here may	be updated	automatically ba	sed on	what is c	urrent and active	with th	ne Texas Seci	retary of State		
(SOS) or Texa	s Comptro	oller of Public Accou	ınts (CPA).									
6. Customer	Legal Nam	e (If an individual, pri	nt last name f	ïrst: eg: Doe, John)			If new Customer,	enter pre	evious Custom	er below:		
7. TX SOS/CP	A Filing Nu	umber	8. TX State	e Tax ID (11 digits)			9. Federal Tax ID		10. DUNS Number (if applicable)			
							(9 digits)		иррпсиые)			
11. Type of C	ustomer:	☐ Corpora	tion			Individ] Individual Partnership: ☐ General ☐			neral 🔀 Limited		
		County Federal	Local Stat	e 🗌 Other		Sole P	Sole Proprietorship Other:					
12. Number of	of Employe	ees					13. Independer	ntly Ow	ned and Ope	erated?		
0-20	21-100	101-250 251-	500 🗌 50:	1 and higher			☐ Yes	☐ No				
14. Customer	Role (Prop	posed or Actual) – as i	t relates to th	e Regulated Entity l	isted on	this form.	Please check one of	the follo	owing			
Owner		☐ Operator	o	wner & Operator								
Occupation	al Licensee	Responsible Pa	rty 🗌	VCP/BSA Applicant	t		Other:					
15. Mailing												
Address:	City			State		ZIP			ZIP + 4			
	City			June					211 1 4			
16. Country N	Mailing Inf	formation (if outside	USA)		17.	E-Mail A	ddress (if applicabl	e)				
18. Telephon	e Number	•		19. Extension or	Code		20. Fax N	umber	(if applicable)			

TCEQ-10400 (11/22) Page 1 of 3

SECTION III:	Regula	ated En	tity	<u>Inform</u>	natio	<u>n</u>				
21. General Regulated En	tity Informa	ntion (If 'New Re	gulate	ed Entity" is select	ted, a ne	v permit applic	ation is	also required.)		
New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information										
The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).										
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)										
Elsewhere Garden Bar & Kitchen										
23. Street Address of the Regulated Entity:										
(No PO Boxes)	City San Anotnio			State	TX	ZIP	7825	57	ZIP + 4	
24. County	Bexar									
		If no Stre	eet Ad	ldress is provid	ed, field	ls 25-28 are r	equired	l .		
25. Description to										
Physical Location:	Approx. 0.5	3 miles SW of N	Loop 1	.604 W and NW I	Military F	lwy intersectio	n			
26. Nearest City							State	•	Nea	rest ZIP Code
San Antonio							TX		7825	7
Latitude/Longitude are re used to supply coordinate	-	-	-				ards. (0	Geocoding of th	ne Physical	Address may be
27. Latitude (N) In Decima		29.597722				3. Longitude (W/\ In D	ecimal:	-98.57258	24
, ,		23.337722		1.			vv , iii b		-98.37238	
Degrees	Minutes	25	Seco		De	egrees		Minutes		Seconds
29		35		51.7792		-98		34		21.3024
29. Primary SIC Code	30.	Secondary SIC	Code	!		nary NAICS C	ode	32. Seco	ndary NAIC	CS Code
(4 digits)	(4 d	igits)			(5 or 6	digits)		(5 or 6 dig	gits)	
5812	581	3			722410			722513		
33. What is the Primary E	Business of t	his entity? ([Do not	repeat the SIC or	NAICS d	escription.)				
Commercial site: Beer Garde	n and Kitchen	1								
34. Mailing										
Address:										
	City			State		ZIP			ZIP + 4	
35. E-Mail Address:					1					1
36. Telephone Number			37.	. Extension or (Code	38.	Fax Nui	mber (if applical	ble)	

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.

(210) 393-0511

TCEQ-10400 (11/22) Page 2 of 3

☐ Dam Safety	Districts	☑ Edwards Aquifer	Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	New Source Review Air	OSSF	Petroleum Storage Tank	□ PWS
Sludge	Storm Water	☐ Title V Air	Tires	Used Oil
☐ Voluntary Cleanup	Wastewater	☐ Wastewater Agriculture	☐ Water Rights	Other:
SECTION IV: Pr	enarer Inf	ormation		

40. Name:	Frank D. Corey,	PE		41. Title:	Senior Project Manager			
42. Telephone Number 43. Ext./Code			44. Fax Number	45. E-Mail Address				
(726) 223-4992			() -	frank.corey@	Ocollierseng.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:	Elsewhere hospitality llc	(Owner		
Name (In Print):	Terrin Fuhrmann	Phone:	(210) 393- 0511		
Signature:	Int			Date:	6-13-23

TCEQ-10400 (11/22) Page 3 of 3



SECTION 7 EXHIBITS



EXHIBIT 1 UTILITY PLAN

COORDINATION NOTE:

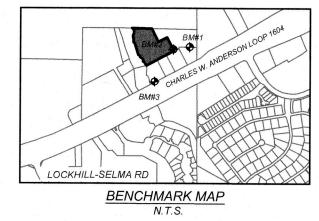
1. CONTACT SPECTRUM TO COORDINATE CABLE TV SERVICE. (210)-244-0500.

2. CONFIRM REQUIREMENTS FOR CONDUIT SIZES FOR PRIMARY AND SECONDARY ELECTRICAL SERVICES AND COORDINATE WITH CPS (CITY PUBLIC SERVICE) FOR INSPECTIONS. (210) 353-2256.

3. CONTACT AT&T TO COORDINATE TELEPHONE SERVICE. 1-800-449-7928. 4. CONTRACTOR TO COORDINATE WITH CPS (CITY PUBLIC SERVICE) TO PLAN GAS SERVICES. (210) 353-2256.

5. CONTRACTOR TO COORDINATE WITH SAWS (SAN ANTONIO WATER SYSTEMS) TO PLAN WATER AND SANITARY SEWER SERVICES. (210)

6. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.



BENCHMARKS

NORTHING - 13767438.57 EASTING - 2105383.024 ELEV. - 1000.16 NORTHING - 13767397.90 EASTING - 2105147.457 ELEV. - 997.23' NORTHING - 13766951.83 EASTING - 2104915.73 ELEV. - 980.15'

EXISTING UTILITY NOTE:

THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC. SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT

TRENCH EXCAVATION SAFETY PROTECTION NOTE:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

EASEMENT LEGEND

15' IRREVOCABLE INGRESS / EGRESS EASEMENT

(VOL. 9696, PG. 197, O.P.R.)

VARIABLE WIDTH IRREVOCABLE INGRESS / EGRESS, ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION & DRAINAGE EASEMENT (VOL. 9696, PG. 197, O.P.R.)

28' ELECTRIC, GAS, TELEPHONE & CABLE TELEVISION EASEMENT (VOL. 9713, PG. 42, D.P.R.)

VARIABLE WIDTH IRREVOCABLE INGRESS / EGRESS EASEMENT (VOL. 9713, PG. 42, D.P.R.)

8 16' SEWER EASEMENT

7 16' WATER EASEMENT

5 12' PRIVATE DRAINAGE

25' X 25' SANITARY SEWER 6 EASEMENT (VOL. 14658, PG.

EASEMENT

EXISTING UTILITY NOTES:

1. THIS UTILITY PLAN HAS BEEN PREPARED TO THE BEST OF OUR ABILITY USING THE DATA AVAILABLE. EXISTING UTILITY DATA SHOWN ON THIS LAYOUT WAS OBTAINED FROM A SURVEY OF THE VISIBLE FEATURES AT THE SITE AND PUBLIC RECORD MAPS OBTAINED FROM UTILITY COMPANIES.

2. IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE NOTIFIED TO LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION. (SEE COORDINATION NOTES ON THIS

3. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED UNDERGROUND UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND EXPOSING CONFLICTS PRIOR TO CONSTRUCTION.

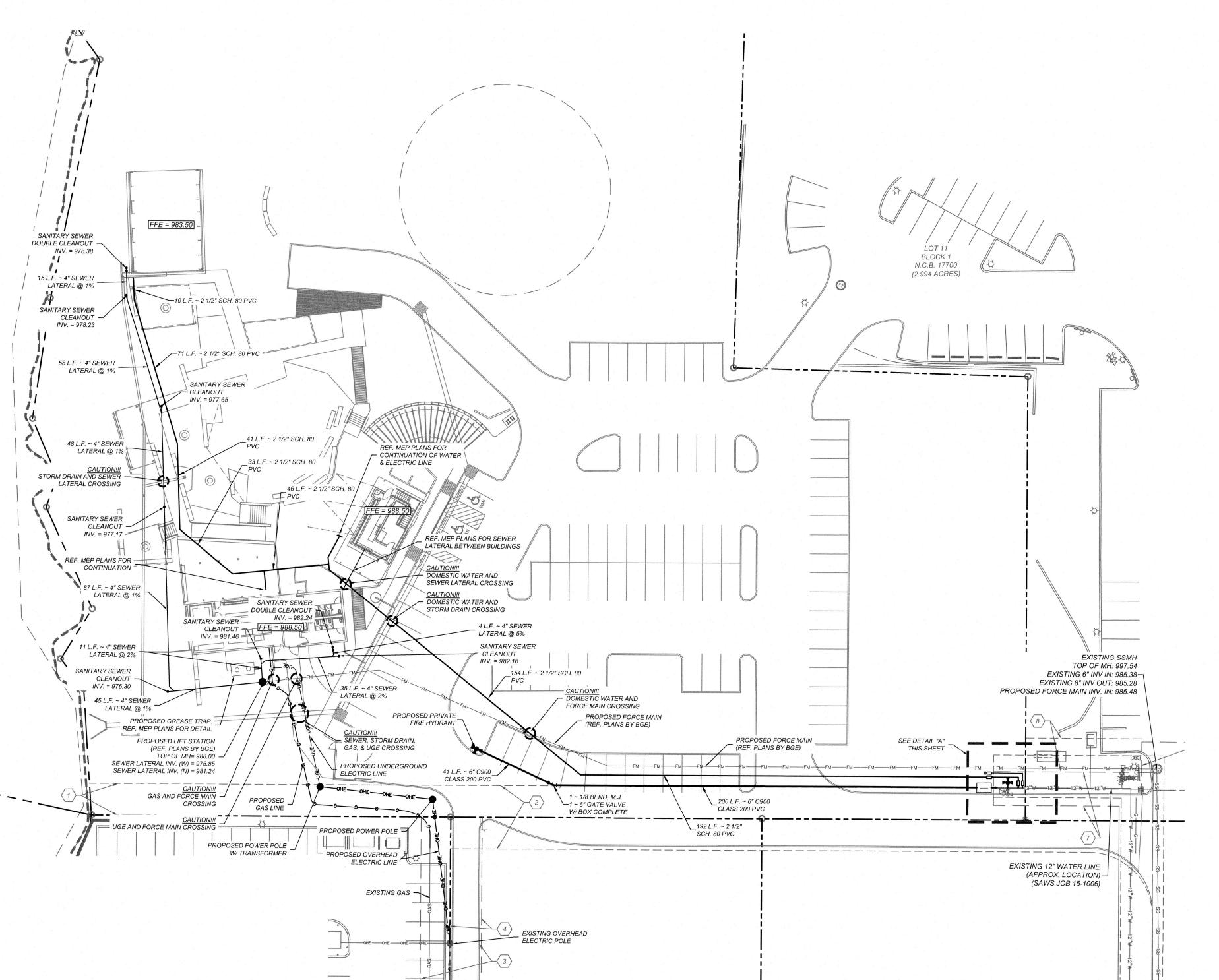
4. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT.

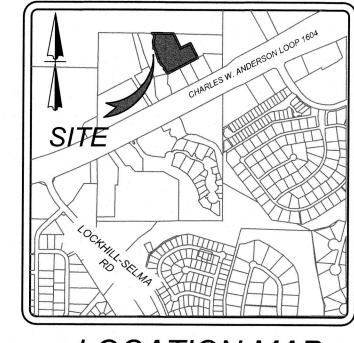
COMPACTION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAWS INSPECTOR/TEST ADMINISTRATOR, PER EACH 12 INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. PERMITS AND/OR WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

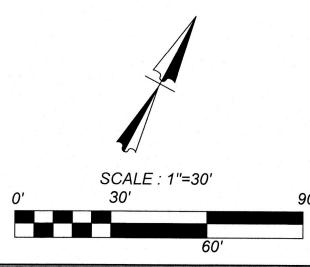
NOTE: FOR PARKING LOT LIGHTING REFERENCE SITE LIGHTING PLANS (BY OTHERS).

XISTING WATER MAIN NOTE NATER MAIN LOCATION AND DEPTH MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT.

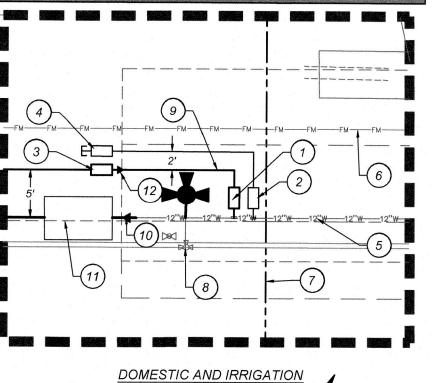




LOCATION MAP



LEGEND PROPERTY LINE - - -EXISTING 12" WATER LINE - W W W EXISTING FIRE HYDRANT EXISTING OVERHEAD ELECTRIC ---OHE ----OHE ----OHE ----LINE AND POLE EXISTING SANITARY SEWER LINE —8"SS —8"SS —8"SS —8"SS — EXISTING GAS LINE PROPOSED UNDERGROUND ELECTRIC LINE PROPOSED GAS LINE PROPOSED 2" DOMESTIC ----1-1/2" DW -----WATER LINE PROPOSED 12" WATER LINE PROPOSED 8" SANITARY SEWER LINE —8"SS —8"SS —8"SS —8"SS — EXISTING FIRE HYDRANT UTILITY CROSSING



DOMESTIC, IRRIGATION AND SEWER UTILITY KEYED NOTES

CONNECTION DETAIL "A"

(1) 2" COPPER PIPE-CUT AS REQUIRED 2" WATER METER STANDARD METER BOX

INSTALL IRRIGATION WATER SERVICE: 12" X 3/4" TAP SADDLE (2) 3/4" COPPER PIPE-CUT AS REQUIRED 3/4" WATER METER

STANDARD METER BOX 3 2 1/2" DOMESTIC R/P BACKFLOW PREVENTER

3/4" IRRIGATION DCVA BACKFLOW

REFERENCE IRRIGATION PLANS FOR CONTINUATION OF IRRIGATION LINES 5 EXISTING 12" WATER LINE (APPROXIMATE LOCATION)

(SAWS JOB #15-1006) 6 PROPOSED FORCE MAIN (BY OTHERS)

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

(7) PROPERTY LINE

8 EXISTING FIRE HYDRANT TO BE RELOCATED AS SHOWN

9) 15 L.F. ~ 2" SCH. 80 PVC PIPE

REMOVE EXISTING 12" CAP 12" X 6" REDUCER

PROPOSED DOUBLE CHECK DETECTOR ASSEMBLY

(12) 2 1/2" X 2" REDUCER

JOB NO. 1082-01-02 DATE: DECEMBER 2022 DRAWN: SR CHECKED: FC

SHEET NUMBER:

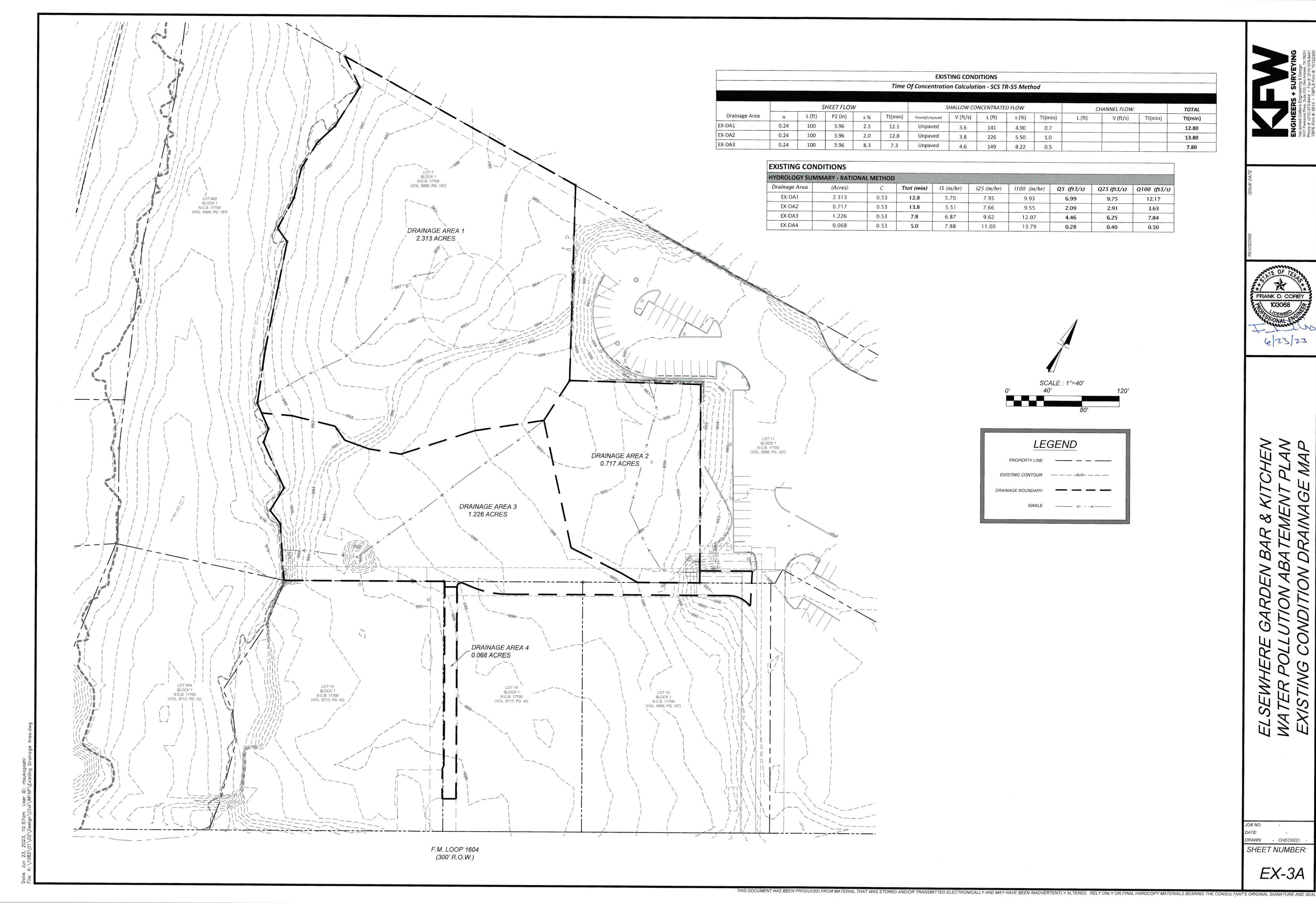
8/9/23

४

7



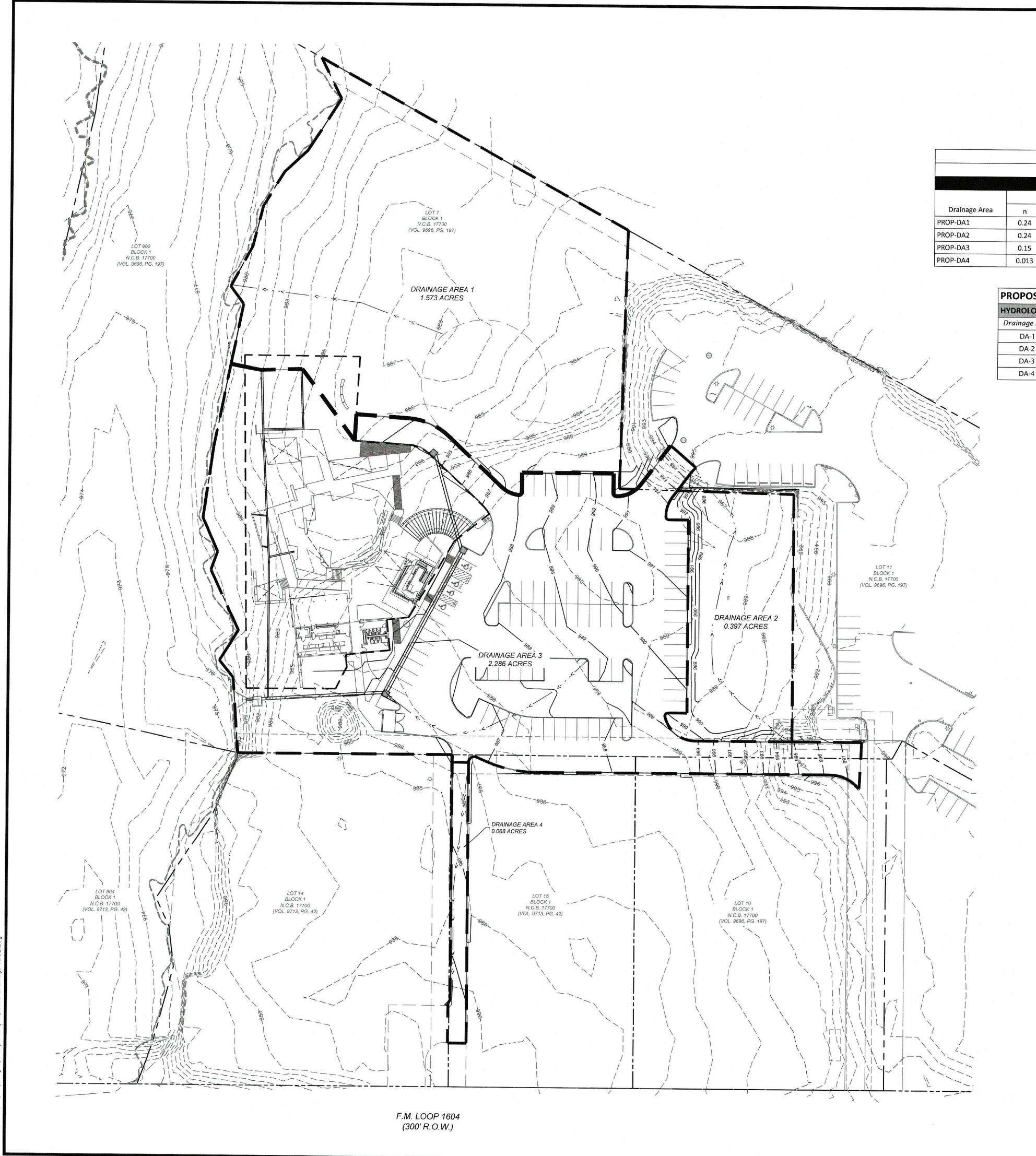
EXHIBIT 2 EXISTING & PROPOSED CONDITION DRAINAGE MAP



JOB NO.

SHEET NUMBER:

EX-3A



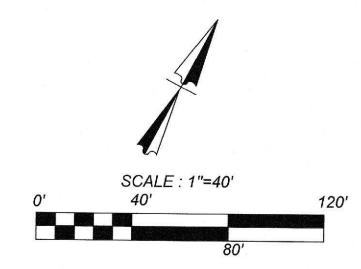


Time Of Concentration	Calculation	- SCS	TR-55	Meth
			ACTOR DE LA CONTRACTOR DE	

	SHEET FLOW					SHALLOW CONCENTRATED FLOW					CHANNEL FLOW			TOTAL	
Drainage Area	n	L (ft)	P2 (in)	s %	Tt(min)	Paved/Unpaved	V (ft/s)	L (ft)	s (%)	Tt(min)	L (ft)	V (ft/s)	Tt(min)	Tt(min)	
PROP-DA1	0.24	100	3.96	3.5	10.3	Unpaved	4.4	72	7.30	0.3				10.60	
PROP-DA2	0.24	100	3.96	8.5	7.2	Unpaved	2.0	132	1.50	1.1				8.30	
PROP-DA3	0.15	71	3.96	1.8	7.0	Paved	2.5	118	1.50	0.8	114	6	0	7.80	
PROP-DA4	0.013	100	3.96	1.1	5.0	Paved	2.1	98	1.10	0.8				5.80	

DDODOCED	ALLI TIRARTE CONDITIONS	
PROPUSED	ULTIMATE CONDITIONS	

NOT OSED/ GET INVALE CONDITIONS									
HYDROLOGY SUN	MARY - RATIO	ONAL METH	OD						
Drainage Area	(Acres)	С	Ttot (min)	15 (in/hr)	125 (in/hr)	1100 (in/hr)	Q5 (ft3/s)	Q25 (ft3/s)	Q100 (ft3/s)
DA-1	1.573	0.53	10.6	6.17	8.63	10.80	5.14	7.19	9.00
DA-2	0.397	0.53	8.3	6.73	9.43	11.83	1.42	1.98	2.49
DA-3	2.286	0.96	7.8	6.87	9.62	12.07	15.08	21.11	26.49
DA-4	0.068	0.96	5.8	7.54	10.54	13.22	0.49	0.69	0.86



LEGEND						
PROPERTY LINE						
EXISTING CONTOUR	——————————————————————————————————————					
PROPOSED CONTOUR	718					
DRAINAGE BOUNDARY						
SWALE						

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

NGINEERS + SURVEYING
s joined Colliers Engineering & Design
11 Paesanos Pkwy, Suite 200, San Antonio, TX 78231

FRANK D. COREY

103068

SONAL

123 -3

6 23 23

ELSEWHERE GARDEN BAR & KITCHEN WATER POLLUTION ABATEMENT PLAN PROPOSED CONDITION DRAINAGE MAP

JOB NO. DATE: DRAWN: -

DRAWN: - CHECKED: SHEET NUMBER:

EX-3B



EXHIBIT 3 RECORDED WARRANTY DEED

Doc# 20220031102 02/07/2022 1:11PM Page 1 of 7 Lucy Adame-Clark, Bexar County Clerk

Capital Title

GF# 11- 631358-00

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVERS LICENSE NUMBER.

SPECIAL WARRANTY DEED

Date:

February 2, 2022

Grantor:

SA Land Holdings, LP, a Texas limited partnership

Grantor's Mailing Address (including county):

c/o SA Land Holdings GP, LLC

5 Four Coins Drive

Canonsburg, Washington County, PA 15317

Grantee:

The Ridge East, LLC,

a Texas limited liability company

Grantee's Mailing Address (including county):

6222 West IH-10

San Antonio, Bexar County, Texas 78201

Consideration:

Ten Dollars (\$10.00) and other valuable consideration

Property (including any improvements):

Tract One: Lots 7 and 902, Block 1, New City Block 17700, The Ridge East 2, an Addition to the City of San Antonio, Bexar County, Texas, according to the Map or Plat thereof recorded in Volume 9696, Pages 197-198, Deed and Plat Records of Bexar County, Texas.

Tract Two (Easement Estate): Easement Estate(s) created by that certain Declaration of Reciprocal Easements with Related Covenants, Conditions and Restrictions, dated August 10, 2009, and recorded on or about August 14, 2009, in Volume 14129, Page 1584, Official Public Records of Bexar County, Texas, as amended by that certain First Amendment to the Declaration of Reciprocal Easements with Related Covenants, Conditions and Restrictions, dated March 24, 2016, and recorded on or about March 29, 2016, in Volume 17768, Page 2034, Official Public Records of Bexar County, Texas, and Second Amendment to the Declaration of Reciprocal Easements with Related Covenants, Conditions and Restrictions, dated January 16, 2017, and recorded on or about January 18, 2017, in Volume 18313, Page 1931, Official Public Records of Bexar County, Texas.

Reservations from Conveyance and Warranty:

None.

Exceptions to Conveyance and Warranty:

All of the permitted exceptions described on Exhibit "A," attached hereto and incorporated herein by reference.

Grantor, for the consideration and subject to the reservations from and exceptions to conveyance and warranty, grants, sells and conveys unto Grantee, Tract One of the Property, together with all and singular the rights and appurtenances thereto in any way belonging, TO HAVE AND TO HOLD it to Grantee, and Grantee's successors or assigns forever. Grantor binds Grantor and Grantor's successors to WARRANT AND FOREVER DEFEND all and singular Tract One of the Property to Grantee, Grantee's heirs, executors, administrators, successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty, when the claim is by, through, or under Grantor, but not otherwise.

For the same consideration, subject to the reservations from and exceptions to conveyance and warranty, Grantor has GRANTED, BARGAINED, SOLD, and CONVEYED, and by these presents does GRANT, BARGAIN, SELL, and CONVEY unto Grantee, without warranty, express or implied, all right, title and interest of Grantor, *if any*, in and to: (1) all strips and gores, if any, between the Property and any abutting properties; (2) all roads, alleys, rights-of-way, easements, streets and ways adjacent to or serving the Property, and rights of ingress and egress thereto; and (3) Tract Two described above. All warranties that arise by common law as well as the warranties in Section 5.023 of the Texas Property Code (or its successor) are excluded.

BY ACCEPTANCE OF THIS SPECIAL WARRANTY DEED, GRANTEE ACCEPTS THE PROPERTY "AS IS" AND "WHERE IS", WITH ALL FAULTS, AND GRANTEE AGREES THAT, EXCEPT FOR THE WARRANTIES OF TITLE TO BE CONTAINED IN THIS DEED AND THE LIMITED EXPRESS WRITTEN REPRESENTATIONS CONTAINED IN THAT CERTAIN COMMERCIAL CONTRACT - UNIMPROVED PROPERTY, DATED THE 13TH DAY OF OCTOBER, 2021, AND AS AMENDED BY THAT CERTAIN FIRST AMENDMENT DATED THE 25TH DAY OF OCTOBER, 2021 (COLLECTIVELY THE "AGREEMENT"), NEITHER GRANTOR NOR ANY OF GRANTOR'S PARTNERS OR ANY OF THEIR RESPECTIVE OFFICERS, MEMBERS, MANAGERS, DIRECTORS, REPRESENTATIVES, BROKERS, ATTORNEYS AND/OR AGENTS (COLLECTIVELY THE "GRANTOR RELATED PARTIES") HAVE MADE OR GIVEN ANY WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND WHATSOEVER, REGARDING ANY MATTER RELATING TO THE AGREEMENT OR THE PROPERTY, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. GRANTEE SPECIFICALLY AGREES AND ACKNOWLEDGES THAT EXCEPT AS SET FORTH IN THE AGREEMENT, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES (i) OF HABITABILITY, MERCHANTABILITY, SUITABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, (ii) REGARDING THE PRESENT OR FUTURE VALUE, PROFITABILITY, PERFORMANCE OR PRODUCTIVITY OF THE PROPERTY, (iii) REGARDING THE PAST OR PRESENT COMPLIANCE BY GRANTOR OF LAWS RELATED TO LAND USE, ENVIRONMENTAL MATTERS, POLLUTION, PRESENCE OF ASBESTOS OR LEAD BASED PAINT AT THE PROPERTY, OR ANY LAWS PERTAINING TO THE HANDLING, GENERATING, TREATING, STORING, TRANSPORTING, OR DISPOSING, OR THE PRESENCE OR ABSENCE ON THE PROPERTY OF HAZARDOUS OR TOXIC WASTE OR SUBSTANCES AS SUCH TERMS ARE DEFINED IN FEDERAL, STATE AND LOCAL LAWS, (iv) THE DECLARATION FILED OR RECORD AND RESTRICTING THE PROPERTY, ANY OTHER RESTRICTIVE COVENANTS OR ANY EASEMENTS OF ANY KIND OR (v) THE EXTENT OR ABILITY OF GRANTEE TO DEVELOP THE FLOOD PLAIN ON THE PROPERTY OR ANY OTHER PART OF THE PROPERTY. GRANTEE SPECIFICALLY AFFIRMS AND ACKNOWLEDGES THAT, EXCEPT FOR THE WARRANTIES OF TITLE CONTAINED IN THIS DEED AND THE LIMITED EXPRESS WRITTEN REPRESENTATIONS

CONTAINED IN THE AGREEMENT, GRANTEE IS RELYING EXCLUSIVELY UPON ITS OWN JUDGMENT IN ACQUIRING THE PROPERTY.

Taxes having been prorated at Closing, all real property taxes and assessments as to the Property for the current year and subsequent years are the responsibility of Grantee and are assumed by Grantee. When the context requires, singular nouns and pronouns include the plural.

GRANTOR:

SA LAND HOLDINGS, LP,

a Texas limited partnership

By:

SA Land Holdings GP, LLC,

a Texas limited liability company

its general partner

By:

Richard Erenberg, Manager

STATE OF PENNSYLVANIA

§ §

COUNTY OF WASHINGTON

§ §

BEFORE ME, the undersigned authority, on this day personally appeared Richard M. Erenberg, Manager of SA Land Holdings GP, LLC, a Texas limited liability company, the general partner of SA Land Holdings, L.P., a Texas limited partnership, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes therein expressed on behalf of said limited partnership.

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this 1st day of 4ebruary,

Notary Public, State of Pennsylvania

Commonwealth of Penneylvania - Notary Seal Christine Pituch, Notary Public Washington County

My commission expires January 22, 2026 Commission number 1281340

Member, Pennsylvania Association of Notaries

[additional signature on the following page]

GRANTEE:

THE RIDGE EAST, LLC,

a Texas limited liability company

Name:

Its: Manager

STATE OF TEXAS

888

COUNTY OF BEXAR

undersigned the authority, this day personally , Manager, of The Ridge East, LLC, a Texas limited liability company, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes therein expressed on behalf of said limited liability

GIVEN UNDER MY HAND AND SEAL OF OFFICE on this 2 day of 16 million

2022.

Notary Public State of Texas ID # 1256759 My Comm. Expires 04-28-2022

Notary Public, State of

16973.0306 SA Land Holdings/RIDGE EAST/Closing Docs/SWD (orig).docx

EXHIBIT "A"

- 1. Standby fees, taxes and assessments by any taxing authority for the year 2022 and subsequent years, not yet due and payable.
- 2. The following restrictive covenants of record itemized below:

Volume 9696, Pages 197-198, Deed and Plat Records, Bexar County, Texas; and Volume 9251, Page 2299, Volume 11918, Page 1379, Volume 14129, Page 1584, Volume 17768, Page 2034, Volume 18313, Page 1931, and Volume 18540, Page 1931, Real Property Records, Bexar County, Texas.

- 3. Any discrepancies, conflicts, or shortages in area or boundary lines, or any encroachments or protrusions, or any overlapping of improvements (if any aré in existence.)
- 4. All leases, grants, exceptions or reservations of coal, lignite, oil, gas and other minerals, together with all a. rights, privileges and immunities relating thereto, appearing in the Public Records
- 5. The following easement(s) and/or building line(s) affecting the subject property as shown on Map or Plat recorded in Volume 9696, Pages 197-198, Deed and Plat Records, Bexar County, Texas:
 - 50 foot radius solution feature buffer easement, as to Lot 7.
 - 12 foot private drainage easement, as to Lot 7.

Fence encroaches upon 12 foot private drainage easement, as to Lot 7.

- 15 foot irrevocable ingress/egress easement, as to Lot 7.
- 12 foot water easement, as to Lot 7.

Variable width irrevocable ingress/egress, electric, gas, telephone, cable TV and drainage easement, as to Lot 7.

- 15 foot water easement, as to Lot 7.
- 30 foot irrevocable ingress/egress easement, as to Lot 7.
- FEMA Flood Zone X, as to Lot 7.
- Variable width drainage easement, as to Lot 902.
- FEMA Flood Zone AE, as to Lot 902.
- 6. Terms, conditions and regulations regarding subject property being within the Edwards Recharge Zone and this development being subject to that certain Chapter 34, Article VI, Division 6 of the San Antonio city code entitled Aquifer Recharge Zone and Watershed Protection, as set forth in plat notation on plat recorded in Volume 9696, Pages 197-198, Deed and Plat Records, Bexar County, Texas.
- 7. Terms, conditions, regulations and provisions of the Edwards Aquifer Protection Plan, as disclosed by Affidavit executed by Richard M. Erenberg, Principal, Design Investors, L.P., filed February 6, 2009, recorded in Volume 13847, Page 2158, Real Property Records, Bexar County, Texas.

- 8. Terms and conditions as set forth in Partial Assignment of Sanitary Sewer and Water Capacity, dated effective August 11, 2009, filed August 14, 2009, recorded in Volume 14129, Page 1611, Real Property Records, Bexar County, Texas.
- 9. Terms and conditions as set forth in Utility Service Agreement, by and between the San Antonio Water and SA Land Holdings, LP, dated effective March 30, 2015, filed April 2, 2015, recorded in Volume 17164, Page 1698, Real Property Records, Bexar County, Texas.
- 10. Easement as created in instrument executed by SA Land Holdings, LP, a Texas limited partnership to Southwestern Bell Telephone Company, a Delaware corporation, dated May 24, 2016, filed June 14, 2016, recorded in Volume 17909, Page 1476, Real Property Records, Bexar County, Texas, as to Lot 7.
- 11. Terms, conditions and stipulations as set forth in Sign Easement and Maintenance Agreement, dated effective October 1, 2017, recoded in Volume 18793, Page 1158, Real Property Records, Bexar County, Texas, as to Lot 7.
- 12. Terms, conditions and stipulations as set forth in Sign Master Plan for The Ridge, dated February 12, 2018, filed March 14, 2018, recorded in Volume 19035, Page 1308, Real Property Records, Bexar County, Texas, as to Lot 7.

File Information

eFILED IN THE OFFICIAL PUBLIC eRECORDS OF BEXAR COUNTY LUCY ADAME-CLARK, BEXAR COUNTY CLERK

Document Number: 20220031102

Recorded Date: February 07, 2022

Recorded Time: 1:11 PM

Total Pages: 7

Total Fees: \$46.00

** THIS PAGE IS PART OF THE DOCUMENT **

** Do Not Remove **

Any provision herein which restricts the sale or use of the described real property because of race is invalid and unenforceable under Federal law

STATE OF TEXAS, COUNTY OF BEXAR

I hereby Certify that this instrument was eFILED in File Number Sequence on this date and at the time stamped hereon by me and was duly eRECORDED in the Official Public Record of Bexar County, Texas on: 2/7/2022 1:11 PM

Lucy Adame-Clark Bexar County Clerk



Colliers Engineering & Design is a trusted provider of multi-discipline engineering, design and consulting services providing customized solutions for public and private clients through a network of offices nationwide.

For a full listing of our office locations, please visit colliersengineering.com

1 877 627 3772









