WATER POLLUTION ABATEMENT PLAN

ALAMO CITY STORM SOCCER CLUB

PREPARED FOR:
ALAMO CITY STORM SOCCER CLUB
204 W. SPECHT ROAD
SAN ANTONIO, TX 78260

MARCH 2024

March 7, 2024

Texas Commission on Environmental Quality - Region 13
Edwards Aquifer Protection Program
14250 Judson Road
San Antonio, Texas 78233-4480

Re: Alamo City Storm Soccer Club
Water Pollution Abatement Plan Application

To Whom It May Concern:

Please find attached one (1) original and five (5) copies of the Alamo City Storm Soccer Club Water Pollution Abatement Plan Application. This application has been prepared to be consistent with the Texas Commission on Environmental Quality (30 TAC 213) and its current policies for development over the Edwards Aquifer Recharge Zone.

This Water Pollution Abatement Plan applies to an area of **36.13** acres identified as the limits of the project site. Please review the plan information for the items it is intended to address, and, if acceptable, provide written approval of said plan so that construction may begin at the earliest opportunity.

The appropriate review fee in the amount of $6,500 is included herein. If you should have any questions regarding the contained information, please do not hesitate to contact our office.

Sincerely,

Sean McFarland

Sean McFarland, P.E.
Project Manager

ALAMO CITY STORM SOCCER CLUB

WATER POLLUTION ABATEMENT PLAN

03/07/2024

PREPARED FOR:

ALAMO CITY STORM SOCCER CLUB
204 SPECHT ROAD
SAN ANTONIO, TX 78260

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

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

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

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Alamo City Storm Soccer Club						**2. Regulated Entity No.: 111723730**			
3. Customer Name: Alamo City Storm Soccer Club						**4. Customer No.:** 606173722			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**			36.13
9. Application Fee:	$6,500		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			0			
13. County:	BEXAR		**14. Watershed:**			Cibolo Creek # 1908 - San Antonio River			

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	___	___
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round 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)	___ Edwards Aquifer Authority X Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park 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. Sean McFarland, PE
Print Name of Customer/Authorized Agent Sean McFarland 03/07/2024
Signature of Customer/Authorized Agent Date

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

ALAMO CITY STORM SOCCER CLUB

GENERAL INFORMATION SECTION

CUDE ENGINEERS
SAN ANTONIO | AUSTIN

4122 POND HILL ROAD, STE 101
SAN ANTONIO, TEXAS 78231

PHONE: (210) 681-2951
CUDEENGINEERS.COM

TBPE NO. 455
TBPLS NO. 10048500

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: Sean McFarland, PE

Date: 3/07/24

Signature of Customer/Agent:

Sean McFarland

Project Information

1. Regulated Entity Name: Alamo City Storm Soccer Club
2. County: Bexar
3. Stream Basin: Cibolo Creek #1908 - San Antonio River Basin
4. Groundwater Conservation District (If applicable): Trinity Glen Rose
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☒ WPAP
   ☐ SCS
   ☐ Modification
   ☐ AST
   ☐ UST
   ☐ Exception Request

7. Customer (Applicant):

   Contact Person: Clarence Franke
   Entity: Alamo City Storm Soccer Club
   Mailing Address: 2552 Boardwalk St.
   City, State: San Antonio, TX Zip: 78217
   Telephone: 210-481-5808 FAX: NA
   Email Address: gm@sacitysc.com

8. Agent/Representative (If any):

   Contact Person: Sean McFarland
   Entity: Cude Engineers
   Mailing Address: 4122 Pond Hill Rd. Ste. 101
   City, State: San Antonio, TX Zip: 78231
   Telephone: 210-681-2951 FAX: N/A
   Email Address: smcfarland@cudeengineers.com

9. Project Location:

   ☐ The project site is located inside the city limits of _____.
   ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of City of San Antonio.
   ☐ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

    The project is located at 204 W. Specht Rd, San Antonio, TX 78260, Latitude: 29.727609° N / Longitude: -98.498653°W.

11. ☒ **Attachment A – Road Map**. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

    ☒ Project site boundaries.
    ☒ USGS Quadrangle Name(s).
    ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
    ☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned**. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☐ Survey staking will be completed by this date: _____

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

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

15. Existing project site conditions are noted below:

    ☒ Existing commercial site
    ☐ Existing industrial site
    ☐ Existing residential site
    ☒ Existing paved and/or unpaved roads
    ☐ Undeveloped (Cleared)
    ☐ Undeveloped (Undisturbed/Uncleared)
    ☒ Other: Soccer Fields

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

    (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);

    (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

    (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;

    (4) The use of sewage holding tanks as parts of organized collection systems; and

    (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

    (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

    (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

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

Administrative Information

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

☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
☐ A request for an extension to a previously approved plan.

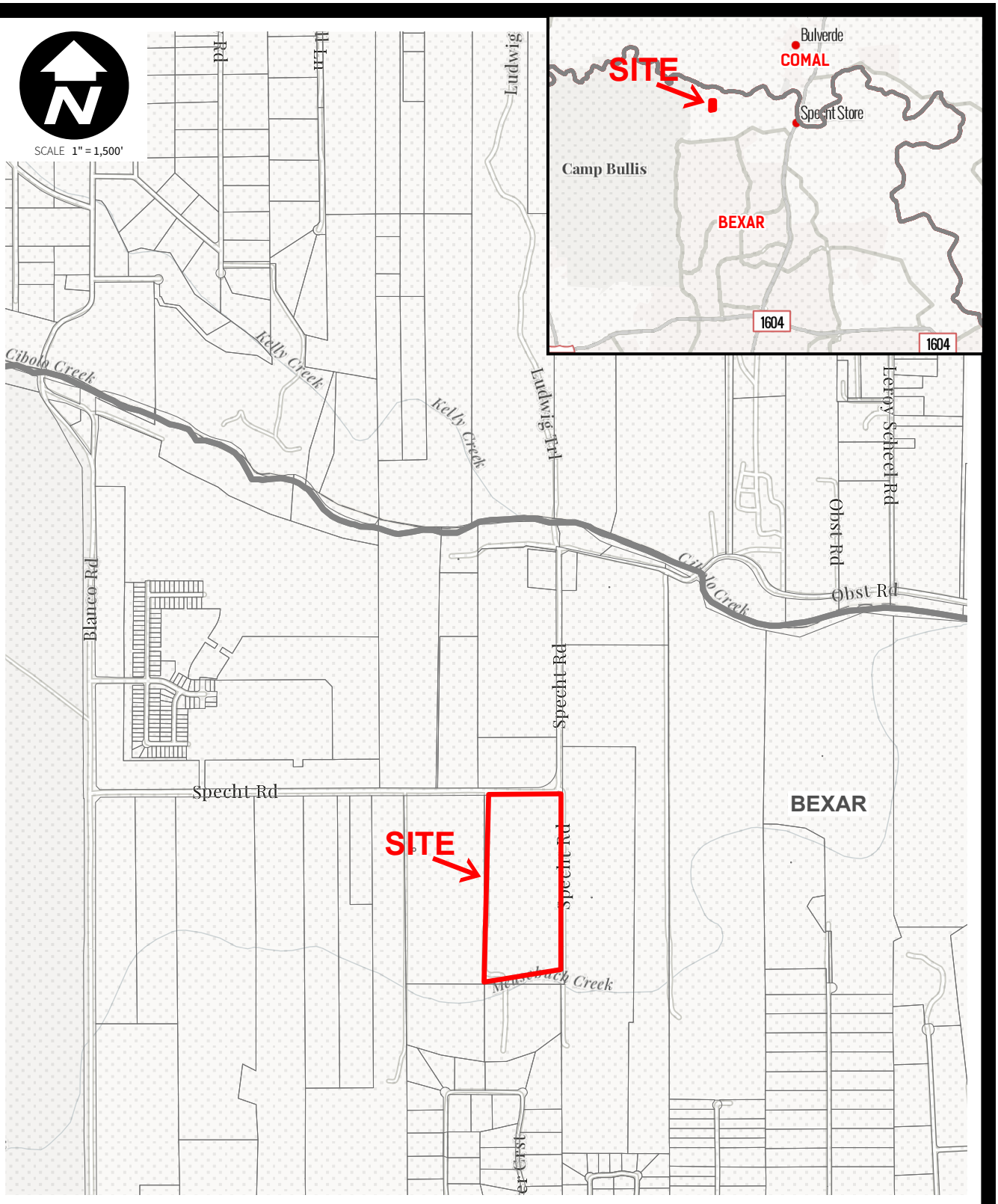
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

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

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

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

ATTACHMENT A
Road Map



CUDE ENGINEERS
4122 POND HILL RD. • SUITE 101
SAN ANTONIO, TX 78231
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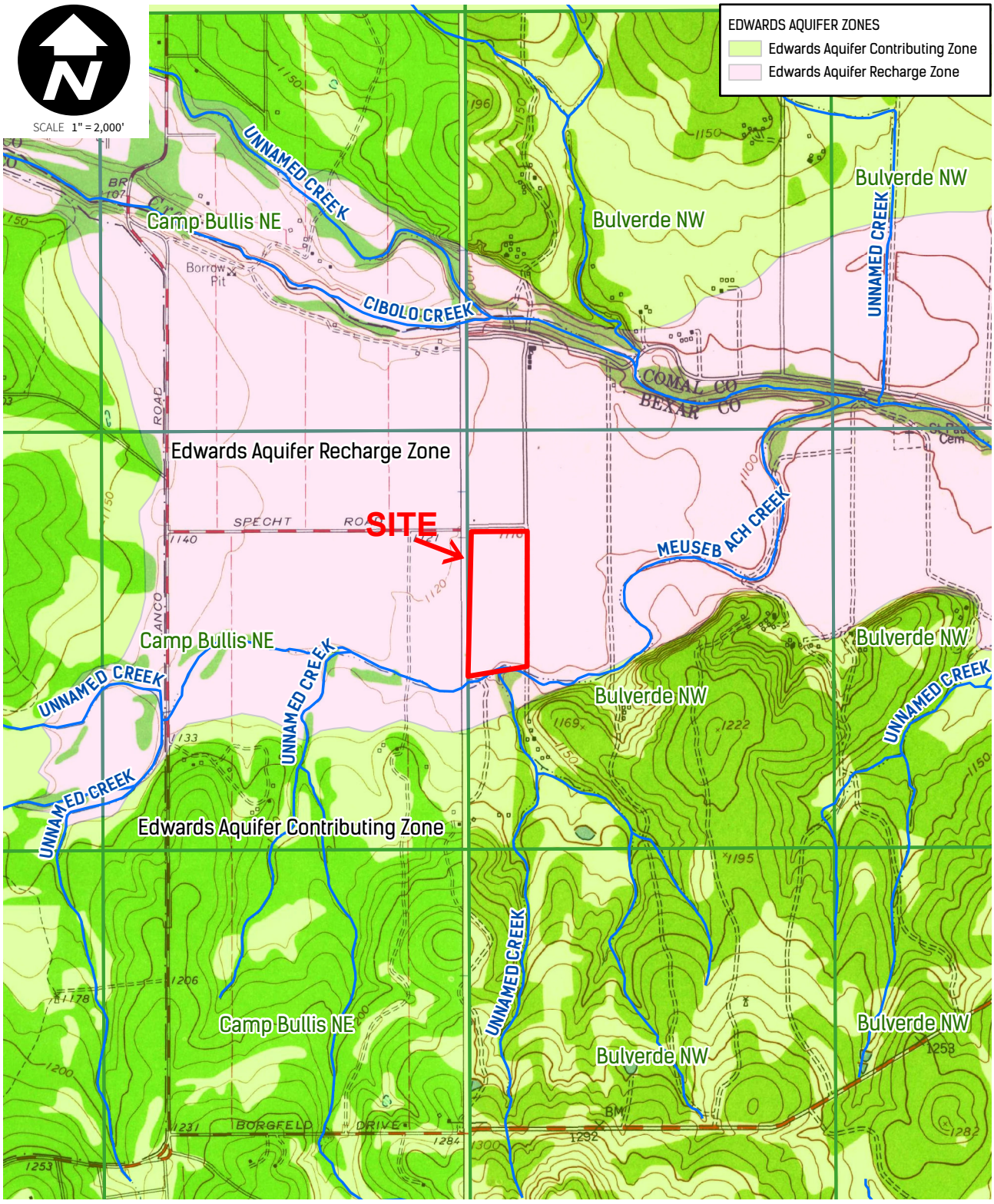
SBE CERTIFIED FIRM I TBPE No. 455 I
TBPLS No. 10048500

ALAMO CITY STORM SOCCER CLUB

LOCATION MAP

DATE: 3/5/2024 **JOB NO.:** # 04335.000

ATTACHMENT B
USGS/Edwards Recharge Zone Map



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TBPLS No. 10048500

ALAMO CITY STORM SOCCER CLUB

U.S.G.S. - EDWARDS AQUIFER RECHARGE ZONE

DATE: 3/5/2024 **JOB NO.:** # 04335.000

ATTACHMENT C

PROJECT DESCRIPTION

The site currently operates as a soccer club consisting of soccer fields and various amenities. The project scope of work consists of the installation of two prebuilt 672 square foot public restroom facilities, installation of an approved OSSF with spray irrigation, connections to existing underground utilities and resodding of the soccer fields (25.77 acres of soil disturbance). There will be no grading or fill activities. There will be a slight increase in impervious cover (1,600 sf), drainage patterns will not be altered. Construction activities will occur within the total area of soil disturbance for this project which is 25.81 acres of the 36.13-acre property.

ALAMO CITY STORM SOCCER CLUB

GEOLOGIC ASSESSMENT SECTION

CUDE ENGINEERS
SAN ANTONIO | AUSTIN

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SAN ANTONIO, TEXAS 78231

PHONE: (210) 681-2951
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TBPE NO. 455
TBPLS NO. 10048500

GEOLOGIC ASSESSMENT (WPAP)

ALAMO CITY STORM SOCCER CLUB
204 SPECHT ROAD
SAN ANTONIO, TEXAS

FROST GEOSCIENCES, INC. PROJECT NO.: FGS-E24104
MARCH 7, 2024

Prepared exclusively for

Alamo City Storm SC
2552 Boardwalk Street
San Antonio, Texas 78217

Frost GeoSciences
Geotechnical ▪ Construction Materials
Geologic ▪ Environmental

Frost GeoSciences
Geotechnical ▪ Construction Materials
Geologic ▪ Environmental

Frost Geosciences, Inc.
13406 Western Oak
Helotes, Texas 78023
Office (210)-372-1315
Fax (210)-372-1318
www.frostgeosciences.com
TBPE Firm Registration # F-9227
TBPG Firm Registration # 50040

March 7, 2024

Alamo City Storm SC
2552 Boardwalk Street
San Antonio, Texas 78217

Attn: Mr. Clarence Franke

SUBJECT:
Geologic Assessment (WPAP)
for the Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
204 Specht Road
San Antonio, Texas
FGS Project Nº FGS-E24104

Dear Mr. Clarence Franke:

Frost GeoSciences, Inc., (FGS) is pleased to submit the enclosed Geologic Assessment completed for the above referenced project site as it relates to 30 TAC §213.5(b)(3), effective June 1, 1999. Our investigation was conducted, and this report was prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04).

If you have any questions regarding this report, or if Frost GeoSciences, Inc. may be of additional assistance to you on this project, please feel free to call our office. It has been a pleasure to work with you and we wish to thank you for the opportunity to be of service to you on this project. We look forward to being of continued service.

We appreciate the opportunity to perform these services for Alamo City Storm SC. Please contact the undersigned if you have questions regarding this report.

Respectfully submitted,
Frost GeoSciences, Inc.

Chris Wickman, P.G.
Senior Geologist

Copies Submitted: Mr. Clarence Franke; Alamo City Storm SC; (1) PDF Copy.
Cude Engineers; (1) PDF Copy

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Figure 10: 2023 Aerial Photograph with PRFs, 1 inch = 200 feet

APPENDIX B - SITE PHOTOGRAPHS

APPENDIX C - GEOLOGIC MAP

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

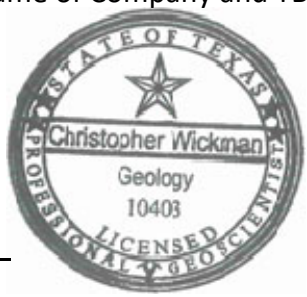
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Chris Wickman, P.G. Telephone: (210) 372-1315

Date: March 7, 2024 Fax: (210) 372-1318

Representing: Frost GeoSciences, Inc. #50040 (Name of Company and TBPG or TBPE registration number)

Signature of the Geologist:



Regulated Entity Name: Alamo City Storm Soccer Club (RN111723730)

Project Information

1. Date(s) Geologic Assessment was performed: February 26, 2024
2. Type of Project:

   ☒ WPAP ☐ AST
   ☐ SCS ☐ UST
3. Location of Project:

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

4. ☒ **Attachment A - Geologic Assessment Table**. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Lewisville	B	0 to 2
Trinity	D	0 to 2

Soil Group Definitions (Abbreviated)

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

6. ☒ **Attachment B – Stratigraphic Column**. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.

7. ☒ **Attachment C – Site Geology**. A narrative description of the site-specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☒ **Attachment D – Site Geologic Map(s)**. The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1”: 400'

   Applicant's Site Plan Scale: 1" = 100'
   Site Geologic Map Scale: 1" = 100'
   Site Soils Map Scale (if more than 1 soil type): 1" = 500'

9. Method of collecting positional data:

   ☒ Global Positioning System (GPS) technology.
   ☒ Other method(s). Please describe method of data collection: 2023 Aerial Photography

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

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

    ☐ Geologic or manmade features were not discovered on the project site during the field investigation.

13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☒ There are 5 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

    ☐ The wells are not in use and have been properly abandoned.
    ☐ The wells are not in use and will be properly abandoned.
    ☒ The wells are in use and comply with 16 TAC Chapter 76.

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

Administrative Information

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

STRATIGRAPHIC COLUMN

EXPLANATION OF HYDROSTRATIGRAPHIC UNITS

Group or Formation	Formal and informal member		Hydrologic unit or Informal hydrostratigraphic unit
Taylor Group (Pecan Gap)		Kpg	Upper Confining Unit (UCU)
Austin Group		Ka	
Eagle Ford Group		Kef	
Buda Limestone		Kb	
Del Rio Clay		Kdr	
Georgetown Formation		Kg	I
Person Formation	Cyclic and marine, undivided	Kpcm	II
	Leached and collapsed	Kplc	III
	Regional dense member	Kprd	IV
Kainer Formation	Grainstone	Kkg	V
	Kirschberg evaporite	Kkke	VI
	Dolomitic	Kkd	VII
	Basal nodular	Kkbn	VIII
Glen Rose Limestone	Upper Glen Rose Limestone	Kgrc	Cavernous
		Kgrcb	Camp Bullis
		Kgrue	Upper evaporite
		Kgruf (Kgrf)	Fossiliferous Upper
		Kgrlf (Kgrf)	Fossiliferous Lower
		Kgrle	Lower evaporite
	Lower Glen Rose Limestone	Kgrb	Bulverde
		Kgrlb	Little Blanco
		Kgrts	Twin Sisters
		Kgrd	Doeppenschmidt
		Kgrr	Rust
		Kgrhc	Honey Creek
Pearsall Formation	Hensell Sand	Kheh	Hensell
	Cow Creek Limestone	Kcccc	Cow Creek
	Hammett Shale	Khah	Hammett

Frost GeoSciences

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: Alamo City Storm Soccer Club | **PROJECT NUMBER:** FGS-E24104

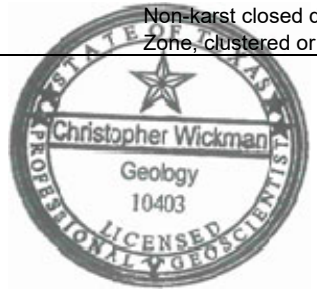
LOCATION			FEATURE CHARACTERISTICS												EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z		10						<40	>40	<1.6	>1.6	
S-1	29° 43' 48.74"	-98° 29' 52.00"	MB	30	Kgrlb	0.5	0.5	?	-	-	-	-	X	5	35	35		YES		HILLSIDE
S-2	29° 43' 49.30"	-98° 29' 55.64"	MB	30	Kgrlb	0.5	0.5	?	-	-	-	-	X	5	35	35		YES		HILLSIDE
S-3	29° 43' 42.75"	-98° 29' 58.92"	MB	30	Kgrlb	0.1	0.1	1	-	-	-	-	X	5	35	35		YES		HILLSIDE
S-4	29° 43' 27.31"	-98° 29' 52.45"	F	20	Kgrlb/Kgrlf	-	-	-	-	-	-	-	F	10	30	30		YES		HILLSIDE
S-5	29° 43' 34.62"	-98° 29' 55.79"	CD	5	Kgrlf	1	0.75	2	-	-	-	-	F	15	20	20		YES		HILLSIDE
S-6	29° 43' 35.69"	-98° 29' 55.82"	CD	5	Kgrlf	0.5	0.5	2	-	-	-	-	F	15	20	20		YES		HILLSIDE
S-7	29° 43' 40.26"	-98° 29' 51.93"	MB	30	Kgrlb	0.5	0.5	?	-	-	-	-	X	5	35	35		YES		HILLSIDE
S-8	29° 43' 43.08"	-98° 29' 51.88"	MB	30	Kgrlb	0.5	0.5	?	-	-	-	-	X	5	35	35		YES		HILLSIDE
S-9	29° 43' 45.84"	-98° 29' 51.94"	MB	30	Kgrlb	0.5	0.5	?	-	-	-	-	X	5	35	35		YES		HILLSIDE

Datum: NAD 83

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

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

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Floodplain, Streambed



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

Chris Wickman, P.G.

Date: March 7, 2024

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

Sheet 1 of 1

LOCATION

The project site is an approximately 30-acre tract of land located along the south side of Specht Road approximately ¾ miles east of the intersection of Blanco Road and West Specht Road in San Antonio, Texas. The address of the project site is reported as 204 Specht Road. An overall view of the area is shown on copies of the site plan, a street map, the U.S.G.S. Topographic Map, the TCEQ website: Edwards Aquifer Viewer – https://tceq.maps.arcgis.com/apps/webappviewer/index.html Map, the FEMA Flood Map, the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, the Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, two 2023 aerial photographs at a scale of 1"=500' and 1"=200', and a NRCS Web Soil Survey aerial photograph at a scale of 1"=500'. These maps are included as Figures 1 through 10 in Appendix A.

METHODOLOGY

The Geologic Assessment was performed by Chris Wickman, P.G., Senior Geologist and Ethan Levine with Frost GeoSciences, Inc. Mr. Wickman is a Licensed Professional Geoscientist in the State of Texas (License # 10403).

Frost GeoSciences, Inc. researched the geology of the area east of the intersection of Blanco Road and West Specht Road. The research included, but was not limited to, the Bureau of Economic Geology Geologic Atlas of Texas, San Antonio Sheet, FEMA Flood maps, Edwards Aquifer Recharge Zone Maps, U.S.G.S. 7.5 Minute Quadrangle Maps, the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, the Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, the U.S.G.S. Water-Resources Investigations Report 95-4030, and the NRCS Web Soil Survey website as well as the U.S.D.A. Soil Survey of Bexar County, Texas.

After reviewing the available information, a field investigation was performed to identify any geologic or man-made Potential Recharge Features (PRFs). A transect spacing of approximately 50 feet, or less depending on vegetation thickness, was used to inspect the project area. A 2023 aerial photograph, in conjunction with a hand-held Garmin GPS 73 Global Positioning System with an Estimated Potential Error ranging from 8 to 12 feet, was used to navigate around the property and identify the locations of PRFs, as recommended in the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04). The locations of any PRFs noted in the field were marked with blue and white flagging. The flagging is numbered with the same potential recharge feature I.D. # that is used on the Site Geologic Map. The Site Geologic Map, indicating the limits of the project site, and the locations of PRFs and rock outcrops noted on the project site, is included in Appendix C at the end of this report. A copy of a 2023 Aerial Photograph at an approximate scale of 1" =200' indicating the limits of the project site, and the locations of PRFs and rock outcrops noted on the project site, is included on Figure 10 in Appendix A. The Geologic Assessment Form TCEQ-0585, (Rev. 2-11-15), Stratigraphic Column, and the Geologic Assessment Table have been filled with the appropriate information for this project site and are included on pages 1 through 5.

RESEARCH & OBSERVATIONS

7.5 Minute Quadrangle Map Review

According to the U.S.G.S. 7.5 Minute Quadrangle Map, Bulverde, Texas (1988), the elevation across the project site ranges from 1110 to 1114 feet above mean sea level. The project site has a total relief of approximately 4 feet. Runoff from the project site flows to the south into Meusebach Creek. West Specht Road is located along the northern boundary. The project site is depicted as nearly level undeveloped land. A copy of the U.S.G.S. 7.5 Minute Quadrangle Map indicating the location of the project site is included on Figure 3 in Appendix A.

Bexar County Watersheds Map

According to the Bexar County Watersheds Map (2003), the project site is located within the Cibolo Creek Watershed Area. A copy of the Bexar County Watersheds Map indicating the location of the project site is included on Figure 4 in Appendix A.

Recharge/Transition Zone

According to the E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map, Bulverde, Texas (2014), and the TCEQ website: Edwards Aquifer Viewer – https://tceq.maps.arcgis.com/apps/webappviewer/index.html, the project site is located within the Recharge Zone of the Edwards Aquifer. A copy of the TCEQ website: Edwards Aquifer Viewer Map indicating the location of the project site is included on Figure 5 in Appendix A.

100-Year Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel Numbers 48029C0110G and 48029C0130G, dated September 29, 2010, were reviewed to determine if the project site is located in areas prone to flooding. A review of the above-mentioned Panel Numbers indicated that the project site is located within "Zone AE". According to the Panel Legend, Zone AE represents areas determined to be within the 100-year floodplain where base flood elevations have been determined. A copy of the above referenced FIRM panel indicating the location of the project site is included on Figure 6 in Appendix A.

Soils

According to the United States Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Bexar County (1966) and the USDA NRCS Web Soil Survey (WSS) website: https://websoilsurvey.nrcs.usda.gov, the project site is located on the Lewisville silty clay, 0 to 1 percent slopes (LvA), Lewisville silty clay, 1 to 3 percent slopes (LvB) and the Trinity clay, 0 to 1 percent slopes (Tc). A copy of the 2020 aerial photo (approximate scale: 1"=500') obtained from the Web Soil Survey (WSS) website: https://websoilsurvey.nrcs.usda.gov has been included on Figure 7 in Appendix A

- Lewisville Silty Clay, 0 to 1 percent slopes (LvA) consists of moderately deep, dark colored, nearly level alluvial soils. These soils occur mainly on terraces bordering the San Antonio and Medina Rivers and their main tributaries. The surface layer is very dark grayish brown to brown silty clay and is about 24 inches thick. It has fine subangular blocky or blocky structure and is firm and crumbly when moist. This layer contains a few fine concretions of lime carbonate. The subsurface layer is brown silty clay and is about 20 inches thick. It has fine, subangular blocky or blocky structure and is very firm but crumbly when moist. This layer is limy. The underlying material is reddish yellow silty clay. It has

weak, blocky structure, is very firm when moist, and contains large amounts of lime. Beneath this layer there may be deep beds of water rounded limestone gravel. Lewisville soils have slow or medium surface drainage and medium internal drainage. Permeability is slow to moderate. The capacity to hold water is good. Natural fertility is high. The hazard of water erosion is serious on the more sloping parts but is very slight on the nearly level areas. This soil has a USDA Texture Classification of silty clay. The Unified Classification is C. The AASHO Classification is A-6. This soil has an average permeability from 1.0 to 1.2 inches/hour.

- Lewisville silty clay, 1 to 3 percent slopes (LvB) consists of moderately deep, dark colored, nearly level alluvial soils. These soils occur mainly on terraces bordering the San Antonio and Medina Rivers and their main tributaries. The surface layer is dark grayish brown and is about 20" thick. It has fine subangular blocky or blocky structure and is firm and crumbly when moist. This layer contains a few fine concretions of lime carbonate. The subsurface layer is limey brown clay and is about 17" thick. It has fine, subangular blocky or blocky structure and is very firm but crumbly when moist. Lewisville soils have slow or medium surface drainage and medium internal drainage. Permeability is slow to moderate. The capacity to hold water is good. Natural fertility is high. The hazard of water erosion is serious on the more sloping parts but is very slight on the nearly level areas. This soil has a USDA Texture Classification of Silty Clay Loam. The Unified Classification is CL. The AASHO Classification is A-6. This soil has an average permeability from 6.0 to 20.0 inches/hour.

- Trinity clay, 0 to 1 percent slopes (Tc) occurs as small, scattered areas on narrow, low-lying terraces just above the flood plains of Salatrillo, Martinez, and Rosillo Creeks. It is mainly in the eastern and southwestern parts of the county. The areas are 200 to 1,000 feet wide and 15 to 180 acres in size. The surface layer is dark-gray clay. It is calcareous, about 50 inches thick, and slowly permeable. The subsoil is slowly permeable clay. It varies in thickness. Strata of gravel occur intermittently at a depth of 4 to 12 feet. This soil is not subject to water erosion but is flooded occasionally. Trinity soils have slow surface drainage and slow internal drainage. Permeability is slow. The capacity to hold water is good. This soil has a USDA Texture Classification of clay. The Unified Classification is CH. The AASHO Classification is A-7. This soil has an average permeability from 0.2 to 0.4 inches/hour.

Narrative Description of the Site Geology

Based on a visual inspection of the ground surface, the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be low. The locations of the PRFs are identified on the 2023 aerial photograph on Figure 10 in Appendix A, and on the project site Geologic Map provided in Appendix C. Color photos of the project site and some of the PRFs are included in Appendix B.

According to the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, the project site is located on lower fossiliferous member of the Upper Glen Rose formation (Kgrlf) and the Little Blanco member of the Lower Glen Rose formation (Kgrlb). In addition, an inferred fault was identified on the geologic map. The inferred fault was indicated crossing from west to east, through the south-central portion of the project site. The U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map identified the inferred fault as the contact

between the Little Blanco member of the lower Glen Rose limestone to the north and the lower fossiliferous member of the Upper Glen Rose limestone to the south. Due to the existing site improvements (soccer fields) and landscaping obscuring the ground surface, no evidence of the inferred fault was observed at the time of the project site reconnaissance. A copy of the U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map is included on Figure 8 in Appendix A. A copy of the Stratigraphic Column highlighting the outcropping formations is included on Page 3 of this report.

The Lower fossiliferous member of the Upper Glen Rose formation (Kgrlf) consists of alternating wackestone and packstone to miliolid grainstone and argillaceous limestone with mudstone and silty mudstone at the base. Gastropods, pectens, and pelecypods fossils are present. *Orbitolina minuta,* fossils are common. Overall thickness ranges from 80 to 150 feet.

The Little Blanco member of the Lower Glen Rose formation (Kgrlb) of mudstone, wackestone, argillaceous wackestone and boundstone. The limestone beds of this member are thicker and more resistive to erosion than the overlying and underlying units. Gastropods, pectens, and pelecypods fossils are present. *Orbitolina texana, Caprina sp, Monopluera sp* and *Toucasia sp* fossils are common. Overall thickness ranges from 30 to 4 feet.

The project site exists as a nearly level tract of land utilized as a soccer complex. Site visit photos indicating the condition of the property at the time of the on-site inspection are included in Appendix B. Overall vegetation on the project site consists of landscaped turf associated with the sports fields. The variations in the vegetative cover on the property are visible in the 2023 aerial photo on Figures 9 and 10 in Appendix A. A copy of the site layout indicating the boundary of the project site and the elevations is included on the Site Geologic Map in Appendix C of this report.

PRF #S-1 is a water-well. The water-well was located within a large well house. The well house was located adjacent to the northeastern corner of the soccer fields. The water-well appeared to be in good working order. Frost GeoSciences rates the feature as low on figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The feature scores a 35 on the sensitivity scale, column 10 of the Geologic Assessment Table included on page 5 of this report. Frost GeoSciences, Inc. does not consider the water-well to be a sensitive feature.

PRFs #S-2, #S-7, #S-8, and #S-9 are water-wells located outside and along the perimeter of the existing soccer fields. #S-2 was observed along the northern perimeter of the soccer fields and #S-7, #S-8, and #S-9 were observed along eastern perimeter. The water-wells appeared to be in good working order. Frost GeoSciences rates the features as low on figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The features score a 35 on the sensitivity scale, column 10 of the Geologic Assessment Table included on page 5 of this report. Frost GeoSciences, Inc. does not consider the water wells to be sensitive features.

PRF #S-3 was a 1-inch lavender colored PVC pipe that extended 12 to 14 inches from the ground surface. A tightfitting PVC cap was observed at the end of the pipe. The pipe may be associated with the irrigation system for the soccer fields. Frost GeoSciences, Inc. does not consider standing PVC pipe to be a sensitive feature.

PRF #S-4 is the inferred fault identified during a review of the Clarke geologic map. The U.S. Geological Survey, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map indicated inferred fault crosses the south-central portion of the project site. Due to the existing site improvements and landscaping obscuring the ground surface, no evidence of the inferred fault was observed at the time of the site reconnaissance. Based on the absence of direct visual evidence of the inferred fault, Frost GeoSciences, Inc. rates the feature as low on Figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The feature scores a 30 on the sensitivity scale, column 10 in the Geologic Assessment Table included within the Attachments at the end of this report. Frost GeoSciences, Inc. does not consider the inferred fault to be a sensitive feature.

PRFs #S-5 and #S-6 appear to be non-karst features located in a constructed grass lined drainage ditch located in the southern portion of the project site. The drainage ditch appears to allow rainwater and storm water to be channeled from the fields and into Meusebach Creek. The features were circular holes. #S-5 was 1 foot wide, ¾ of a foot long and was about 2 feet deep. The hole was entirely within soil and the bottom and walls were lined with fine soil. #S-6 was ½ foot in diameter and was about 2 feet deep. The hole was entirely within soil and similar to #S-5. The bottom and walls were lined with fine soil. Frost Geosciences does not consider the holes to be karst features. Frost GeoSciences, Inc. rates the features as low on Figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The features score a 20 on the sensitivity scale, column 10 of the Geologic Assessment Table included on page 5 of this report. Frost GeoSciences, Inc. does not consider the non-karst holes to be sensitive.

According to the site plan provided by Cude Engineers, the surveyed elevations on the project site range from 1110 to 1119 feet. According to this survey, the total relief on the project site is approximately 9 feet. A copy of the site plan indicating the boundary of the project site and the elevations is included on the Site Plan on Figure 1 in Appendix A and the Site Geologic Map in Appendix C of this report.

BEST MANAGEMENT PRACTICES

Based on a visual inspection of the ground surface, the overall potential for fluid flow from the project site into the Edwards Aquifer appears to range from low to moderate. The potential always exists to encounter solution cavities within the subsurface during excavating activities. Frost GeoSciences, Inc. is of the opinion that it is very important for construction personnel to be informed of the potential to encounter cavities in the subsurface that lack a surface expression. Construction personnel should also be informed of the proper protocol to follow in the event a karst feature is encountered during the development of the project site.

DISCLAIMER

This report has been prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04) by a Licensed Texas Professional Geoscientist. All areas of the project site were carefully inspected for features that could contribute to the recharge of the Edwards Aquifer; however, this survey cannot preclude the presence of subsurface karst features that lack surface expression. This report is not intended to be a definitive investigation of all possible geologic or karst features at this site. All conclusions, opinions, and recommendations for Best Management Practices (BMP's) in this report are based on information obtained while researching the project and on the site conditions at the time of our field investigation.

This report has been prepared for the exclusive use of Alamo City Storm SC. This report is based on available known records, a visual inspection of the project site, and the work generally accepted for a Geologic Assessment for Regulated Activities / Developments on the Edwards Aquifer Recharge / Transition Zone, relating to 30 TAC §213.5(b)(3), effective June 1, 1999.

REFERENCES

1. USGS - 7.5 Minute Topographic Quadrangle of Bulverde, Texas, 1988

2. E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map, Bulverde, Texas (2014).

3. Official Edwards Aquifer Recharge Zone Map, Bulverde, Texas, 1992

4. The Texas Commission on Environmental Quality (TCEQ) website: Edwards Aquifer Viewer – https://tceq.maps.arcgis.com/apps/webappviewer/index.html.

5. Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, United States Geological Survey.

6. Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, United States Geological Survey.

7. Collins, Edward, W., 2000, Geologic Map of the New Braunfels 30 X 60 Minute Quadrangle, Bureau of Economic Geology, The University of Texas at Austin, Texas.

8. Stein, W.G. and Ozuna, G.B., 1995, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas, U.S. Geological Survey Water Resources Investigations 95-4030.

9. Barnes, V.L., 1982, Geologic Atlas of Texas San Antonio Sheet, Bureau of Economic Geology and University of Texas at Austin, Geologic Atlas of Texas.

10. Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, Community Panel Number 48029C0110G & 48029C0130G, dated September 29, 2010

11. United States Department of Agriculture Soil Conservation Service Soil Survey of Bexar County 1966.

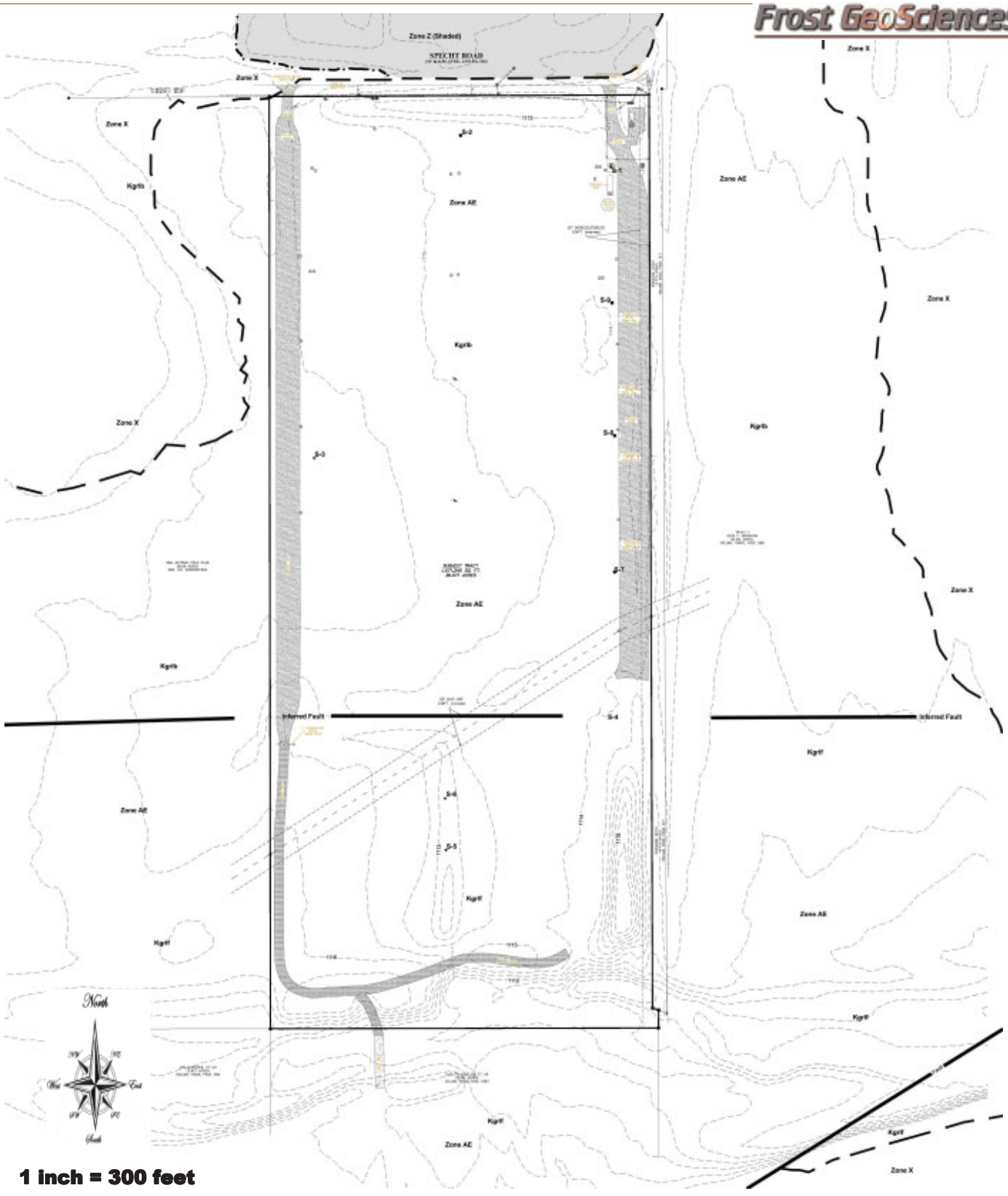
12. USDA NRCS Web Soil Survey (WSS) website: https://websoilsurvey.nrcs.usda.gov (2014)

13. TCEQ-0585-Instructions (Rev. 10-1-04), “Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zone”.

14. San Antonio Water Systems, Bexar County Watersheds Map, 2004.

APPENDIX A

SITE LOCATION FIGURES



1 inch = 300 feet

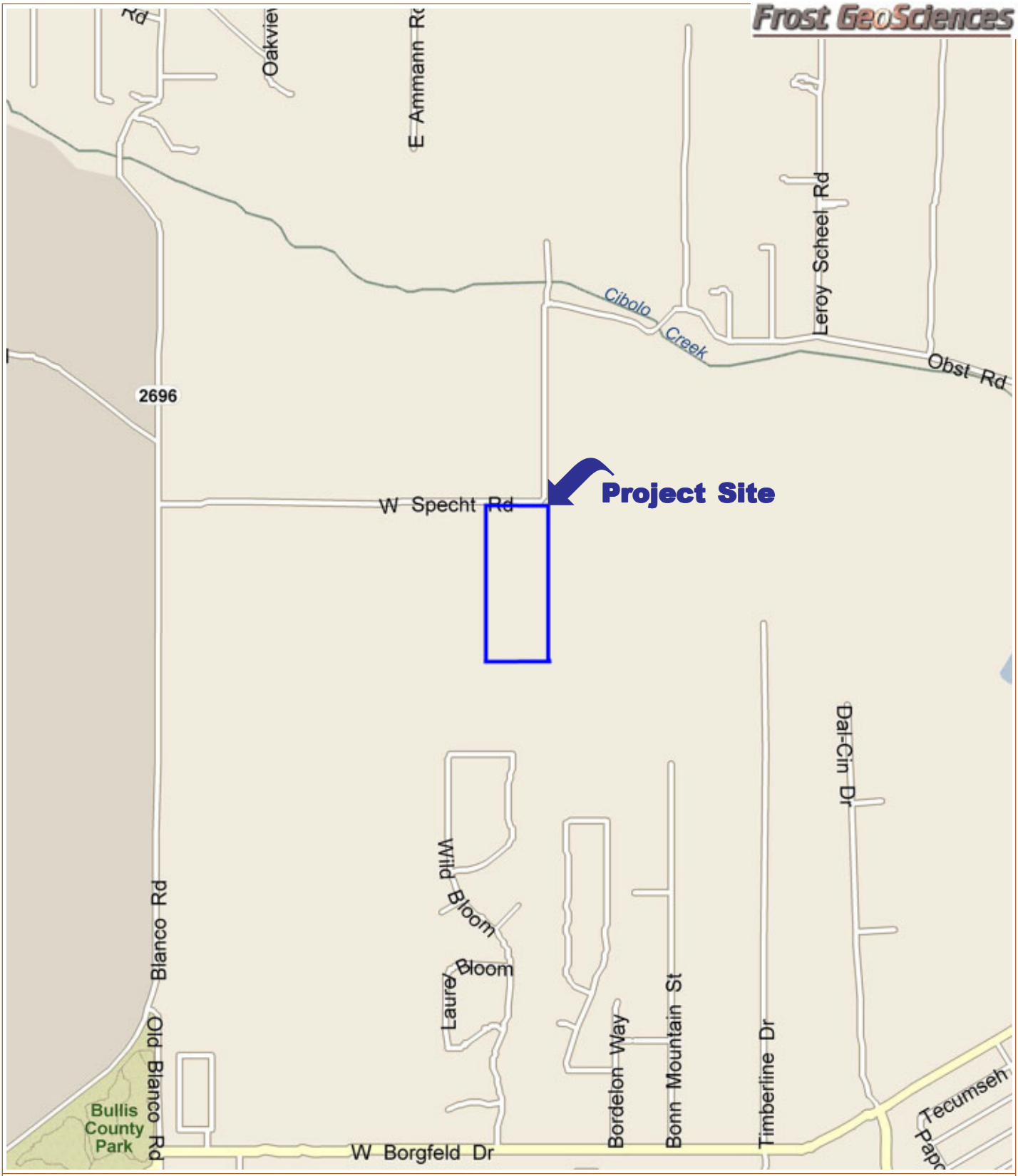
PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
Bexar County, Texas

Site Plan

PROJECT NO.: FGS-E24104

DATE: March 7, 2024



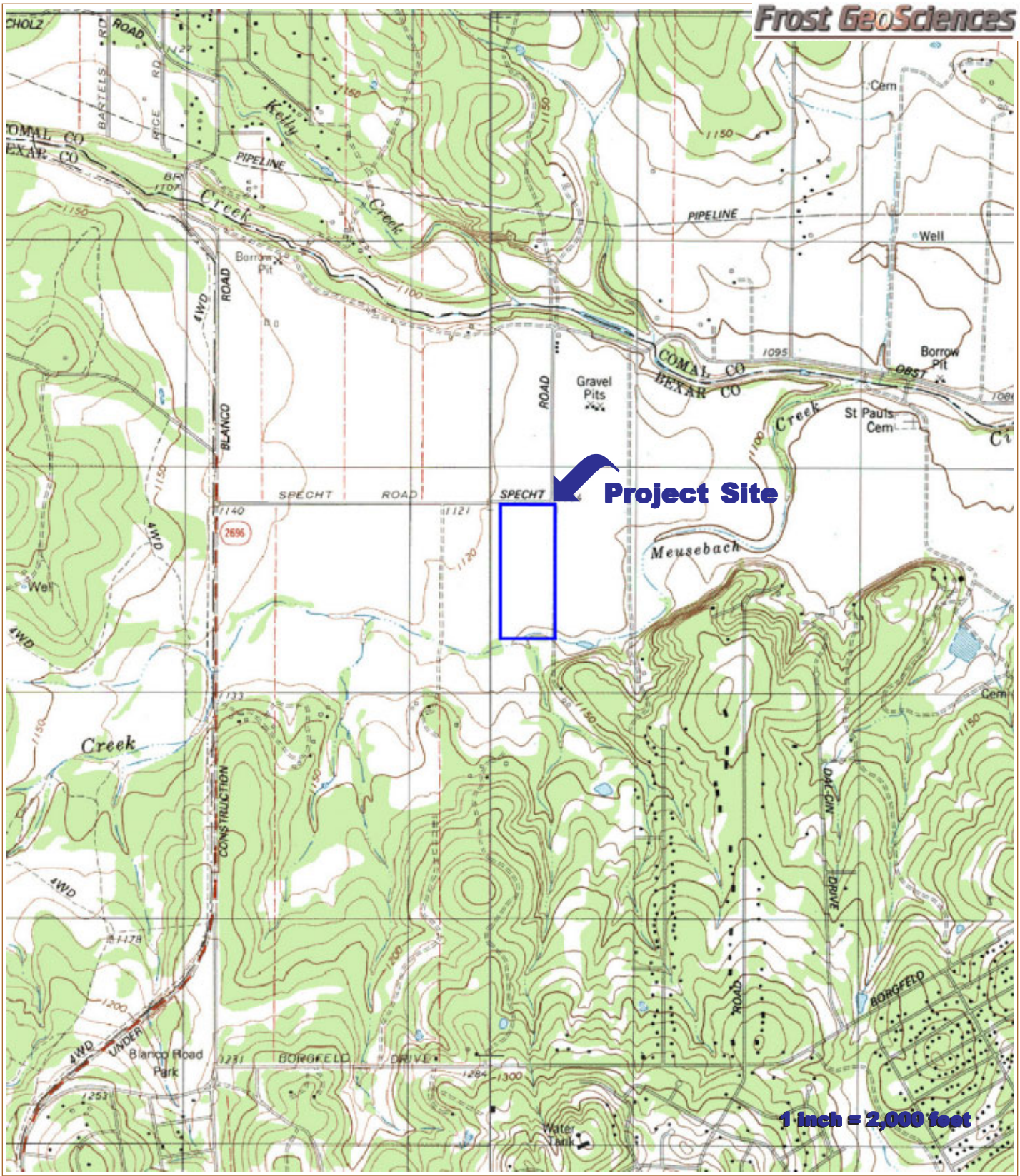
PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
Bexar County, Texas

Street Map

PROJECT NO.: FGS-E24104

DATE: March 7, 2024



PROJECT NAME:

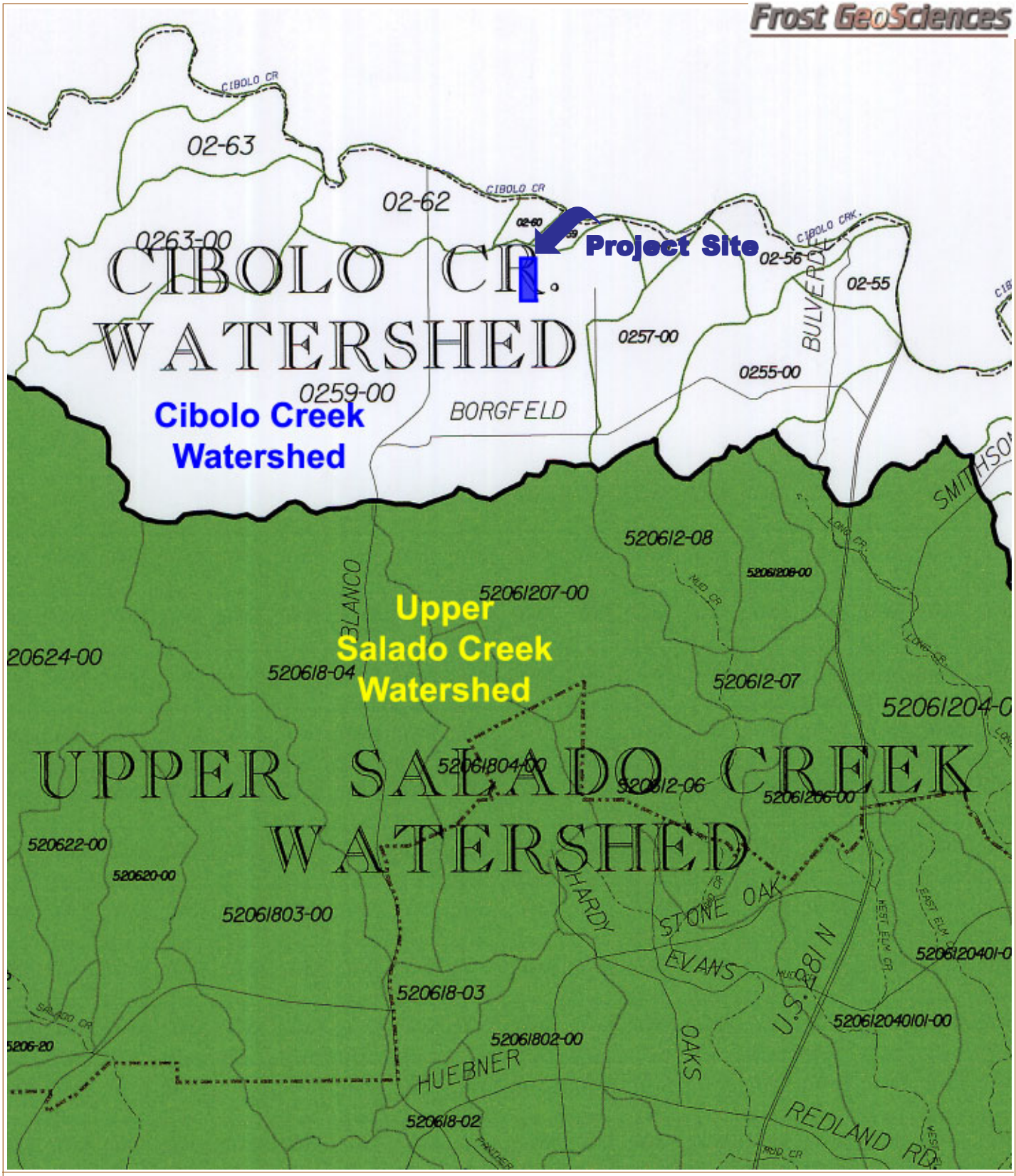
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
Bexar County, Texas

U.S.G.S. 7.5 Minute Quadrangle Map
Bulverde, Texas (1988)

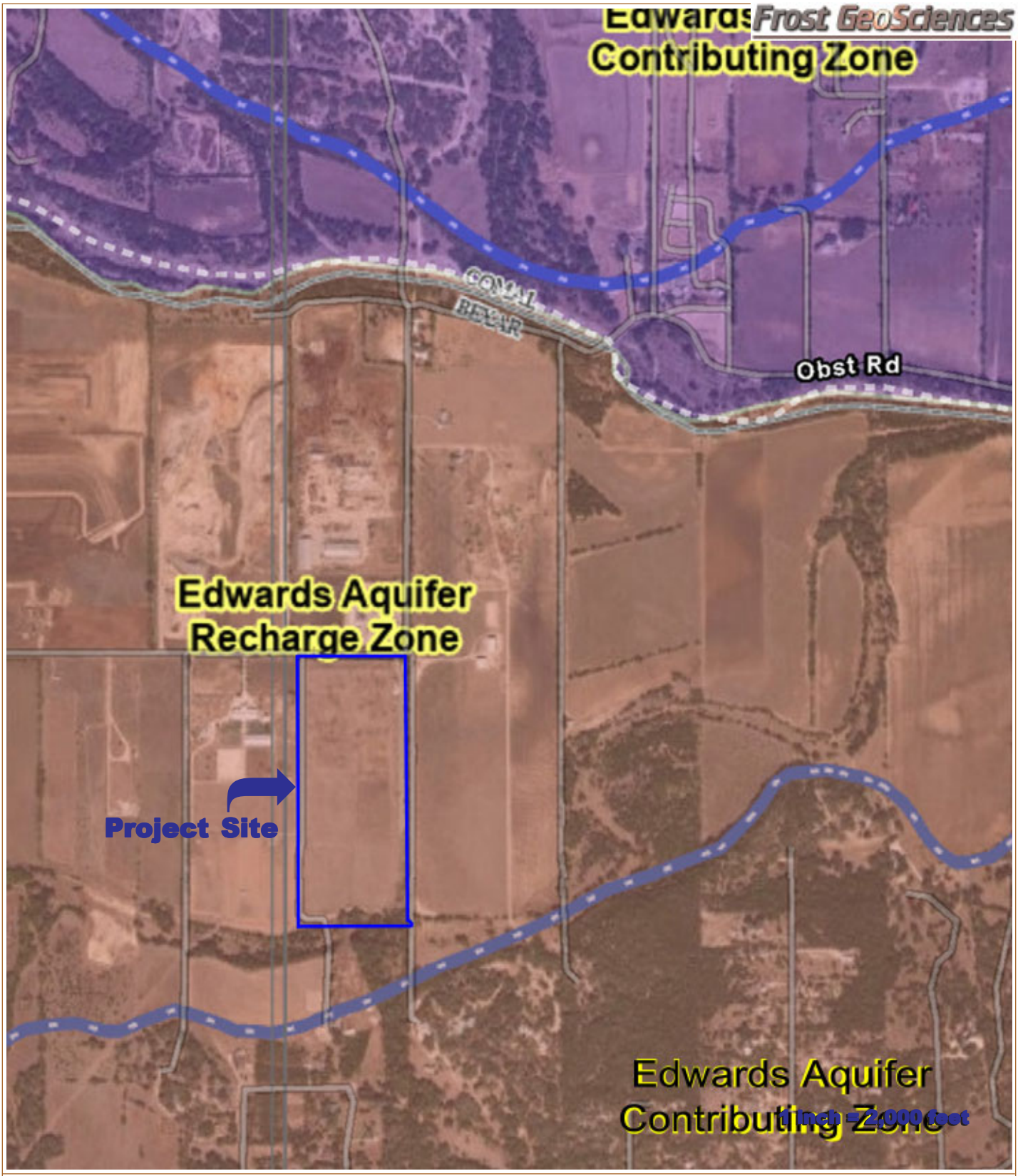
PROJECT NO.: FGS-E24104

DATE: March 7, 2024

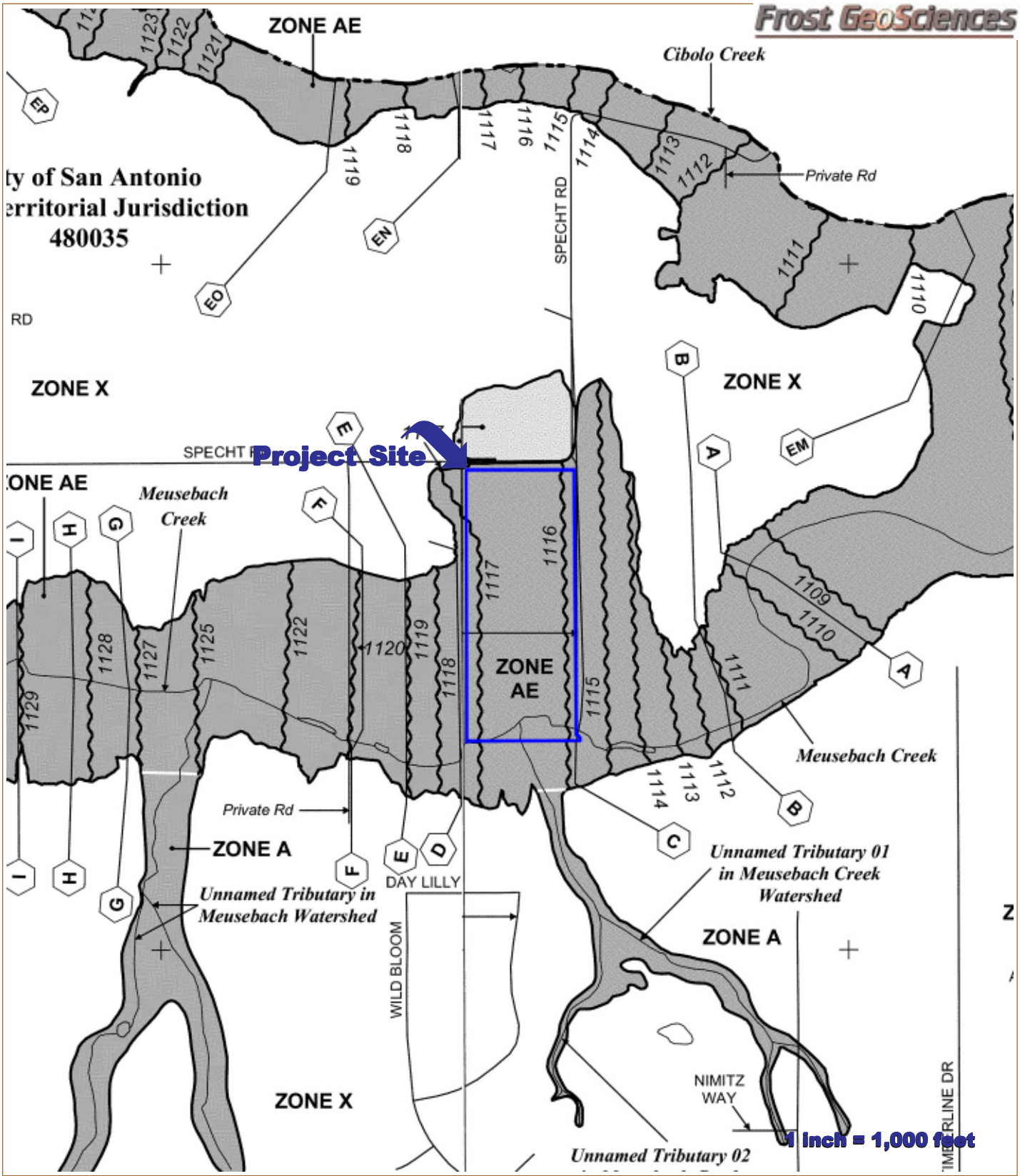
FIGURE 3



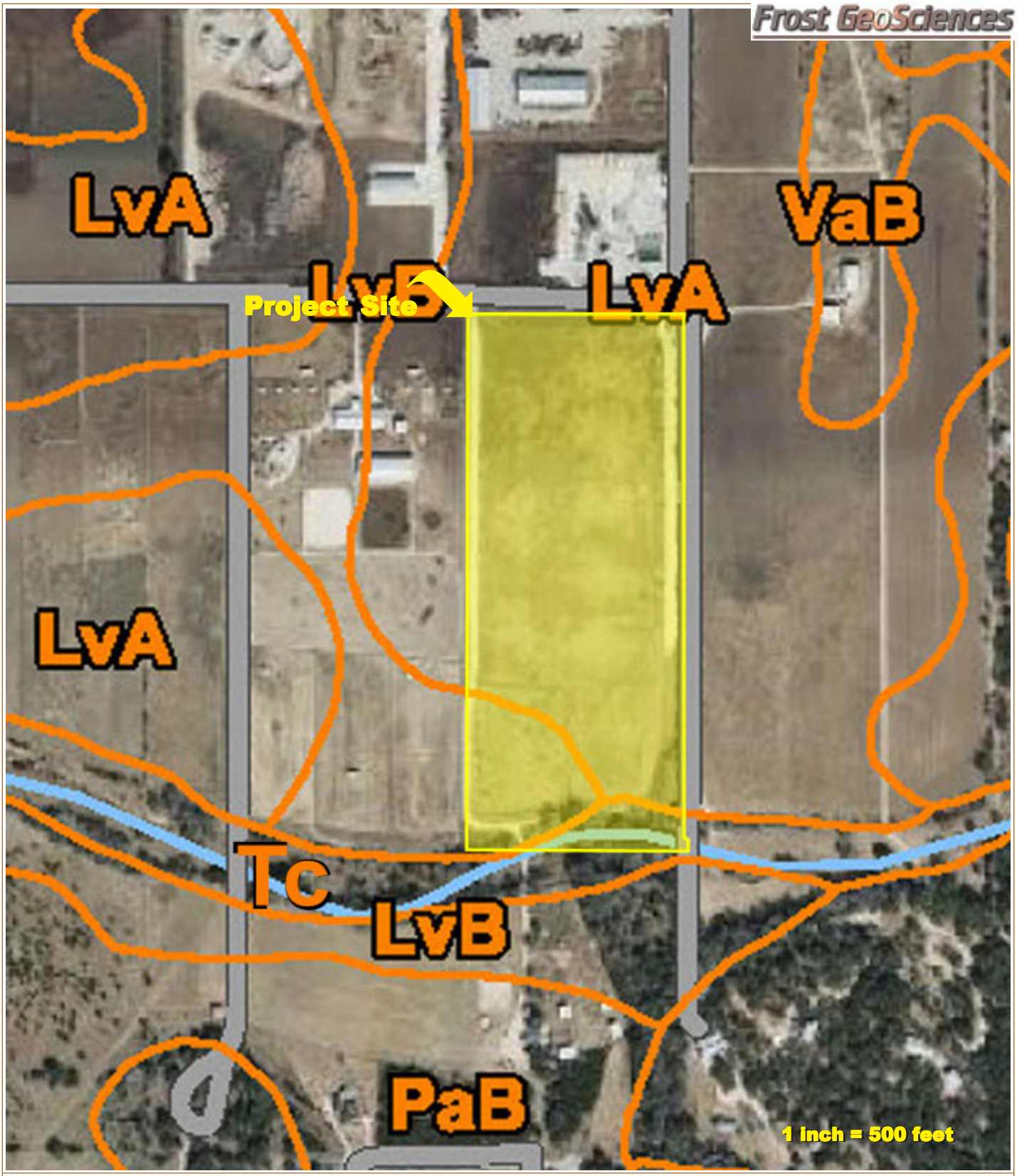
PROJECT NAME: Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Alamo City Storm Soccer Club Bexar County, Texas	Bexar County Watersheds Map San Antonio Water Systems (2004)
PROJECT NO.: FGS-E24104	**DATE:** March 7, 2024



PROJECT NAME: Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Alamo City Storm Soccer Club Bexar County, Texas	Texas Commission on Environmental Quality Edwards Aquifer Viewer TCEQ website: https://tceq.maps.arcgis.com/apps
	PROJECT NO.: FGS-E24104 / **DATE:** March 7, 2024



PROJECT NAME:	Flood Insurance Rate Map (FIRM)
Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Alamo City Storm Soccer Club Bexar County, Texas	48029C0110G and C0130G Revised: 9/29/2010 48091C0360F Revised: 9/2/2009
PROJECT NO.: FGS-E24104	DATE: March 7, 2024

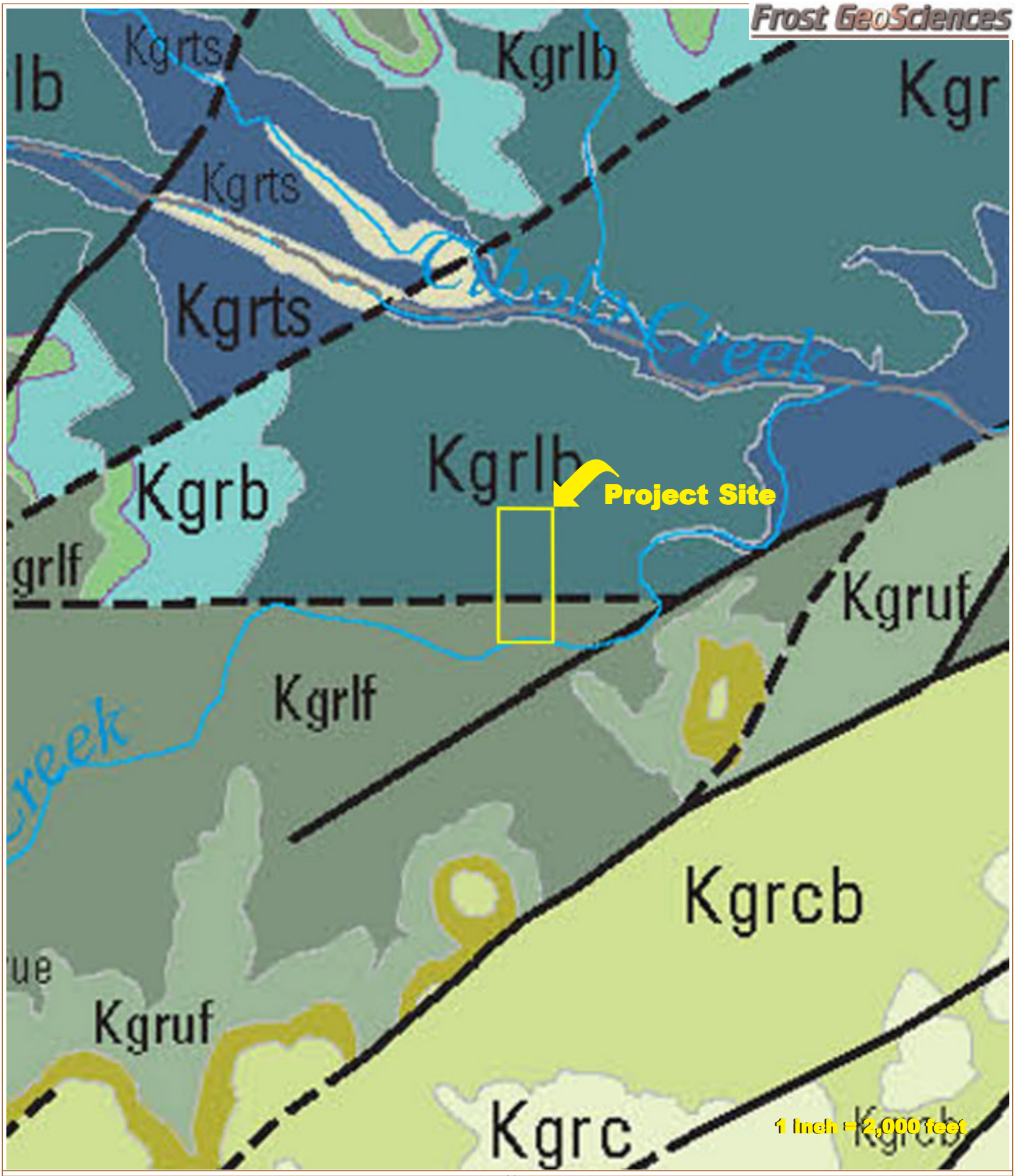


PROJECT NAME:
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
Bexar County, Texas

Soils Map
Nartional Resource Conservation Service
website: websoilsurvey.nrcs.usda.gov

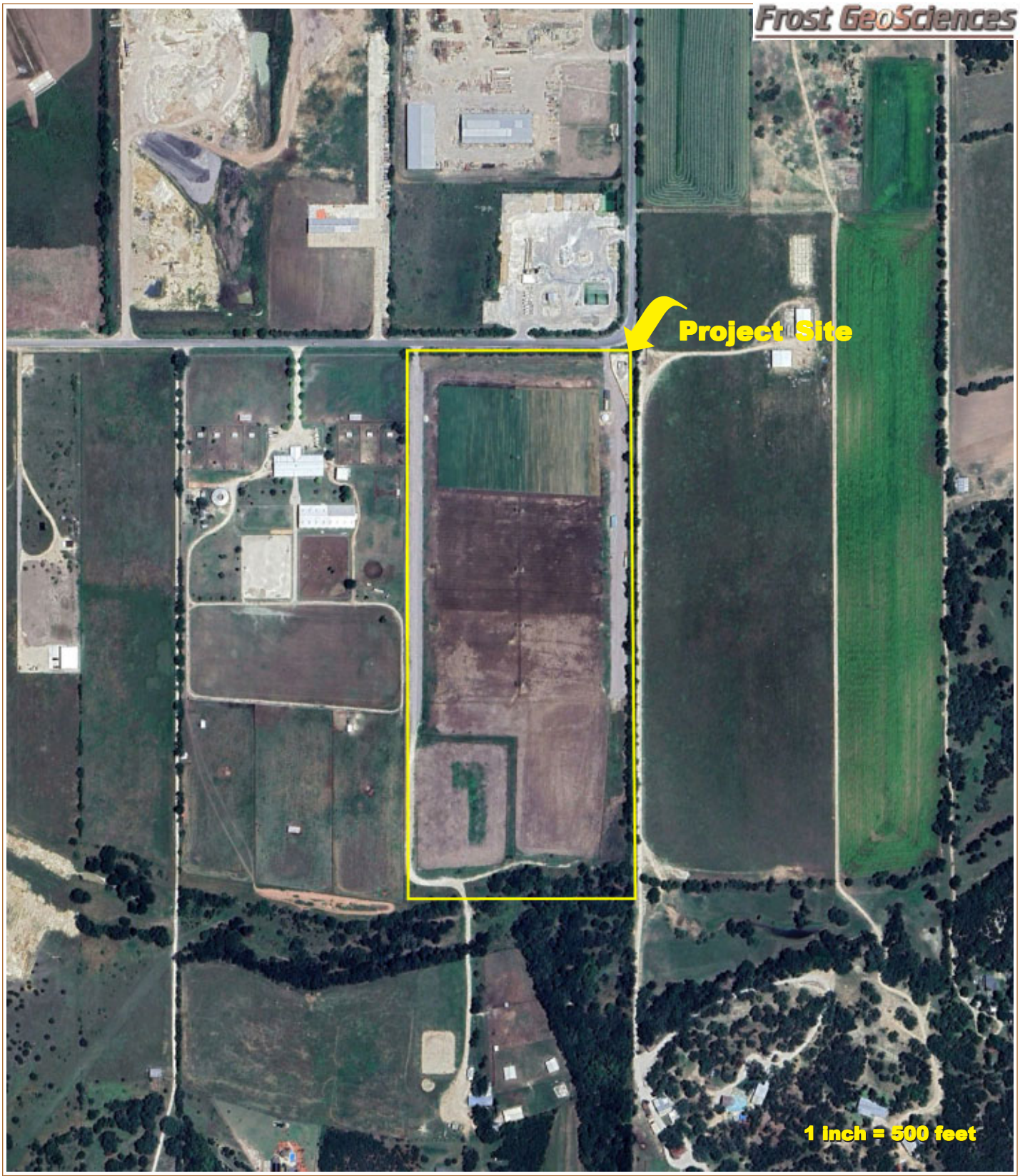
PROJECT NO.: FGS-E24104

DATE: March 7, 2024



PROJECT NAME: Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Alamo City Storm Soccer Club Bexar County, Texas	United States Geologic Survey Scientific Investigations Map 3366 Dated: 2016
	PROJECT NO.: FGS-E24104 / **DATE:** March 7, 2024

Frost GeoSciences



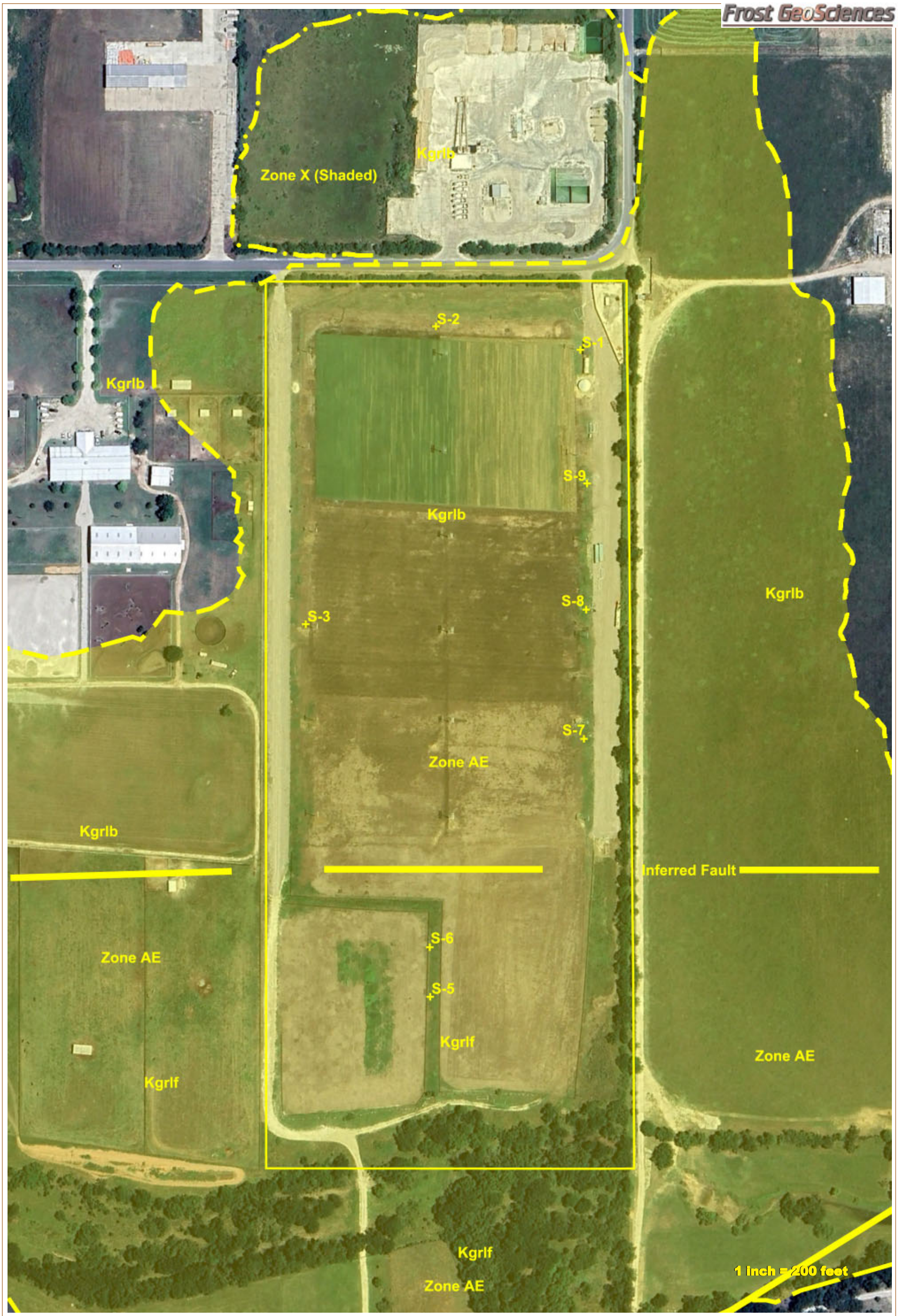
PROJECT NAME:
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
Bexar County, Texas

2023 Aerial Photograph
Google Earth

PROJECT NO.: FGS-E24104

DATE: March 7, 2024

Frost GeoSciences



PROJECT NAME:
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Alamo City Storm Soccer Club
Bexar County, Texas

2023 Aerial Photograph with PRFs
Google Earth

PROJECT NO.: FGS-E24104

DATE: March 7, 2024

APPENDIX B

SITE PHOTOGRAPHS

Photo #1 – View to the southwest across the northeastern portion of the soccer fields.

Photo #2 – View of a wellhouse/storage building observed adjacent to the northeast corner of the soccer fields.

Photo #3 – View of a water well (PRF #S-1) located withing the wellhouse/storage room.

Photo #4 – View of assorted equipment associated with the water well within the wellhouse/storage room.

	
Photo #5 – View of PRF #S-2 located in the northern portion of the project site along the northern perimeter of the soccer fields	Photo #6 – View to the south across the north-central portion of the project site.
	
Photo #7 – View to the southeast across the northwestern portion of the project site.	Photo #8 – View to the south along the gravel road located along the western side of the project site.

	
Photo #9 – View to the east across the central portion of the project site.	Photo #10 – View of PRF #S-3 observed along the western perimeter of the on-site soccer fields.
	
Photo #11 – View to the east across the southwestern portion of the project site.	Photo #12 – View to the northeast across the southwestern portion of the project site.

	
Photo #13 – View to the east across the southern portion of the project site.	Photo #14 – View to the north across the southern portion of the project site.
	
Photo #15 – View to the northwest across the southeastern portion of the project site.	Photo #16 – View to the north along the eastern site boundary from the southern corner of the project site.

Photo #17 – View to the north across the south-central portion of the project site.

Photo #18 – View of PRF #S-5 observed in the south-central portion of the project site.

Photo #19 – View of PRF #S-6 observed in the south-central portion of the project site.

Photo #20 – View to the north along the constructed drainage path in the south-central portion of the project site. PRF #S-5 and #S-6 were situated within the path.

	
Photo #21 – View of PRF #S-7 observed in the eastern portion of the project site along the eastern perimeter of the on-site soccer fields.	Photo #22 – View of the area immediately north of PRF #S-7.
	
Photo #23 – View of the area immediately west of PRF #S-7.	Photo #24 – View of the area immediately south of PRF #S-7.

	
Photo #25 – View of PRF #S-8 observed in the eastern portion of the project site along the eastern perimeter of the on-site soccer fields.	Photo #26 – View of the area immediately west of PRF #S-8.

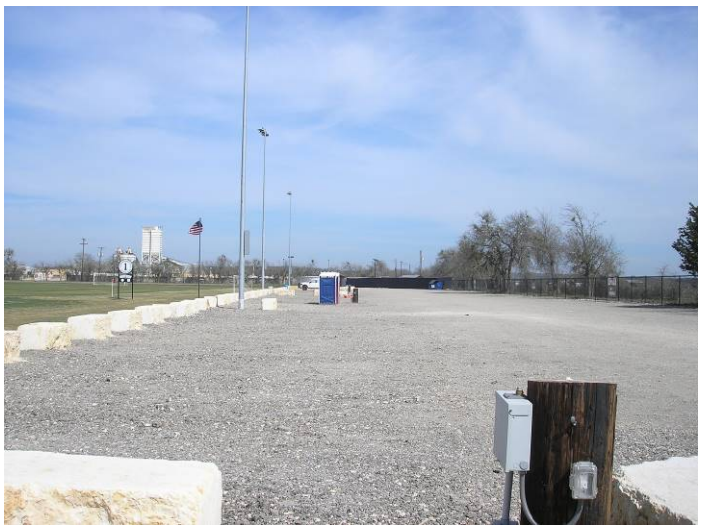
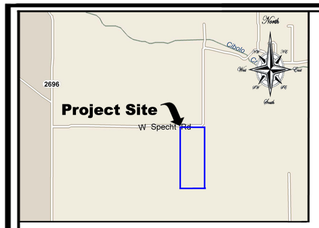



Photo #27 – View of the area immediately north of PRF #S-8.	Photo #28 – View of PRF #S-9 observed in the in the northeastern portion of the project site along the eastern perimeter of the on-site soccer fields.

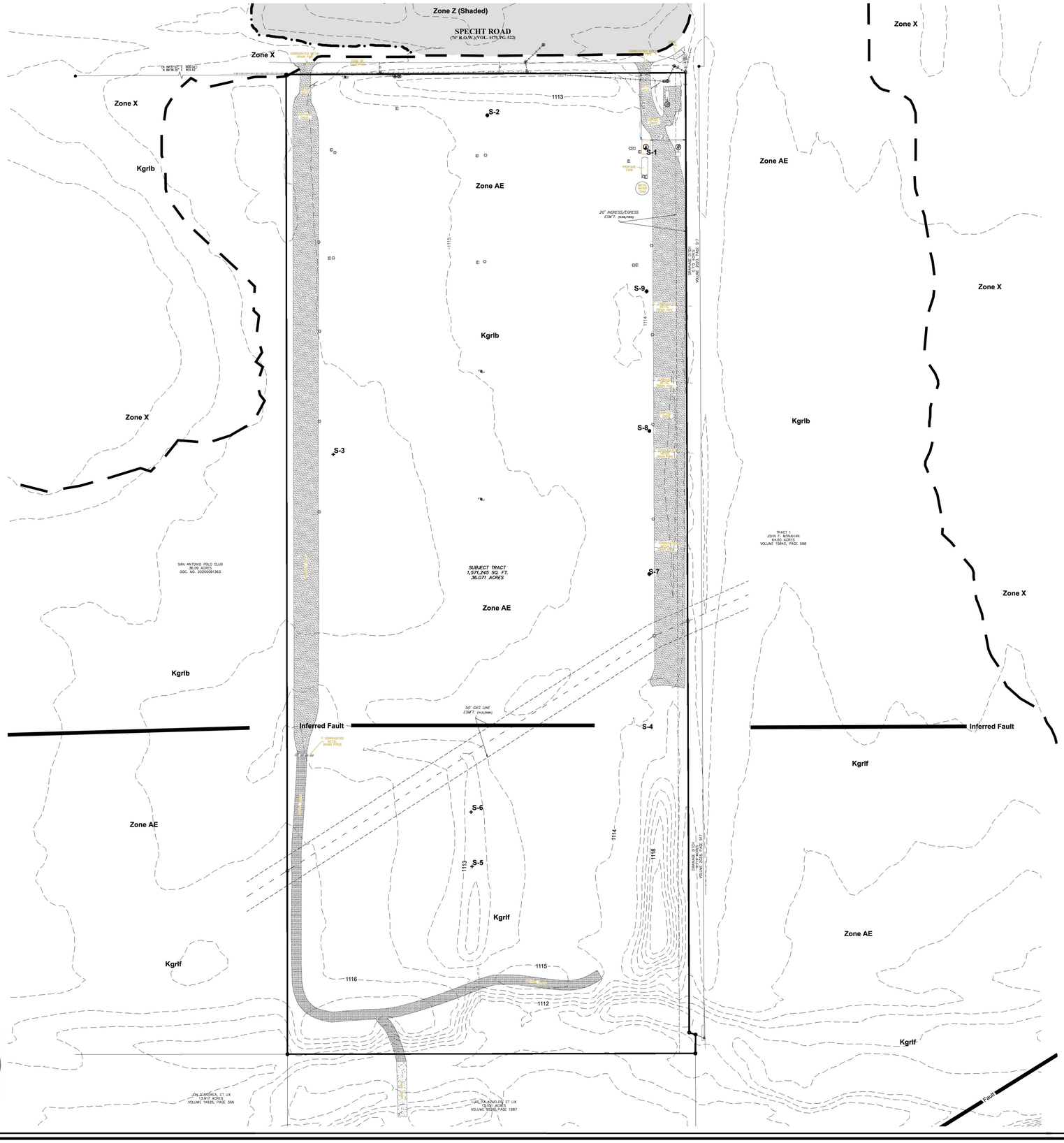
	
Photo #29 – View of the area immediately north of PRF #S-9.	Photo #30 – View of the area immediately west of PRF #S-9.

APPENDIX C

GEOLOGIC MAP



Location Map



Signature of Texas Licensed Geoscientist
Chris Wickman License No. 10403

Frost GeoSciences

Geotechnical ▪ Construction Materials
Geologic ▪ Environmental

13406 Western Oak ▪ Helotes, Texas 78023
Phone: (210) 372-1315 ▪ Fax: (210) 372-1318

Site Geologic Map

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
for the

Alamo City Storm Soccer Club
San Antonio, Texas

Frost GeoSciences, Inc. Control # FGS-E24104

Legend

Kgrlf - Lower Fossiliferous member of the Upper Glen Rose Limestone

Kgrlb - Little Blanco member of the Lower Glen Rose Limestone

S-# - Potential Recharge Feature (PRF)

- Inferred Fault
- Fault
- Zone AE Floodplain
- Zone X (Shaded) Floodplain

Floodplain Information Obtained From
FIRM: Flood Insurance Rate Map
Bexar County, Texas: Panel # 48029C0110G and 48029C0130G, Revised 9/29/10

Fault Information Obtained From:
Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet (1983)
U.S. Geological Survey, Water Resources Investigations Report 95-4030 (1995)
Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle (2000)
U.S. Geological Survey Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas (2016)

North
NW NE
West East
SW SE
South

Graphic Scale

100 0 50 100 200

(In Feet)

1 inch = 100 feet
Representative Fraction 1:120

Contour Interval - 1 foot

ALAMO CITY STORM SOCCER CLUB

APPLICATION FORMS SECTION

CUDE ENGINEERS
SAN ANTONIO | AUSTIN

4122 POND HILL ROAD, STE 101
SAN ANTONIO, TEXAS 78231

PHONE: (210) 681-2951
CUDEENGINEERS.COM

TBPE NO. 455
TBPLS NO. 10048500

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

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

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Sean McFarland, PE

Date: 03/07/24

Signature of Customer/Agent:

Sean McFarland

Regulated Entity Name: RN111723730

Regulated Entity Information

1. The type of project is:

   ☐ Residential: Number of Lots:_____
   ☐ Residential: Number of Living Unit Equivalents:_____
   ☒ Commercial
   ☐ Industrial
   ☐ Other:_____

2. Total site acreage (size of property):36.13 Ac.

3. Estimated projected population:N/A

4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	1,600	÷ 43,560 =	.0367
Parking	0	÷ 43,560 =	0
Other paved surfaces	0	÷ 43,560 =	0
Total Impervious Cover	1,600	÷ 43,560 =	.0367

Total Impervious Cover .0367 **÷ Total Acreage** 36.13 **X 100 =** .001**% Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.

6. ☐ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

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

7. Type of project:

   ☐ TXDOT road project.
   ☐ County road or roads built to county specifications.
   ☐ City thoroughfare or roads to be dedicated to a municipality.
   ☐ Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

   ☐ Concrete
   ☐ Asphaltic concrete pavement
   ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

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

10. Length of pavement area: _____ feet.

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

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

    ☐ A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

100% Domestic	1,200 Gallons/day
_____% Industrial	_____ Gallons/day
_____% Commingled	_____ Gallons/day
TOTAL gallons/day 1,200	

15. Wastewater will be disposed of by:

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

- ☒ **Attachment C - Suitability Letter from Authorized Agent**. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.
- ☐ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

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

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

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

☐ Existing.
☐ Proposed.

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = _____'.

18. 100-year floodplain boundaries:

☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
☐ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): _____

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

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

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☒ There are 5 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.
☐ The wells are not in use and will be properly abandoned.
☒ The wells are in use and comply with 16 TAC §76.

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

21. Geologic or manmade features which are on the site:

☐ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
☒ No sensitive geologic or manmade features were identified in the Geologic Assessment.
☐ **Attachment D - Exception to the Required Geologic Assessment**. A request and justification for an exception to a portion of the Geologic Assessment is attached.

22. ☐ The drainage patterns and approximate slopes anticipated after major grading activities.

23. ☒ Areas of soil disturbance and areas which will not be disturbed.

24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

25. ☐ Locations where soil stabilization practices are expected to occur.

26. ☐ Surface waters (including wetlands).

    ☒ N/A

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

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

28. ☒ Legal boundaries of the site are shown.

Administrative Information

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

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

ATTACHMENT A
Factors Affecting Water Quality

Landscaping, vehicular traffic, and various construction activities may affect the quality of storm water originating on the proposed site during and after the development process. These factors may cause small amounts of oil, grease, suspended solids, fertilizers, and pesticides to enter into the stormwater runoff. However, temporary BMPs have been designed on the basis of the Technical Guidance manual to treat the required volume of storm water runoff.

ATTACHMENT B
Volume and Character of Stormwater

Storm water runoff generated from restroom rooftops and soccer fields may be impregnated with small amounts of oil, grease, suspended solids, fertilizers and pesticides. Proposed temporary BMPs have been designed on the basis of the Technical Guidance manual to intercept runoff prior to leaving site.

This site is currently proposed to include the construction of two (2) restroom facilities and new sodding of existing soccer fields. Proposed conditions are equal to ultimate conditions. The site consists almost entirely of landscaped grass (soccer fields) and 1,600 square feet of impervious cover. A runoff coefficient of 0.44 will be used in accordance with the requirements of the Unified Development Code, for "Cultivated Grass" with slopes up to 1% and a runoff coefficient of 0.98 for impervious cover. A weighted runoff coefficient of 0.44 will be used for analysis of the ultimate analysis of the shed. The site consists of two drainage areas, proposed stormwater flows can be found on E1 "Drainage Exhibit" following this page. This hydrology was calculated using Atlas-14 rainfall data.

LEGEND

SITE BOUNDARY

DRAINAGE AREA

Tc (SHEET FLOW)

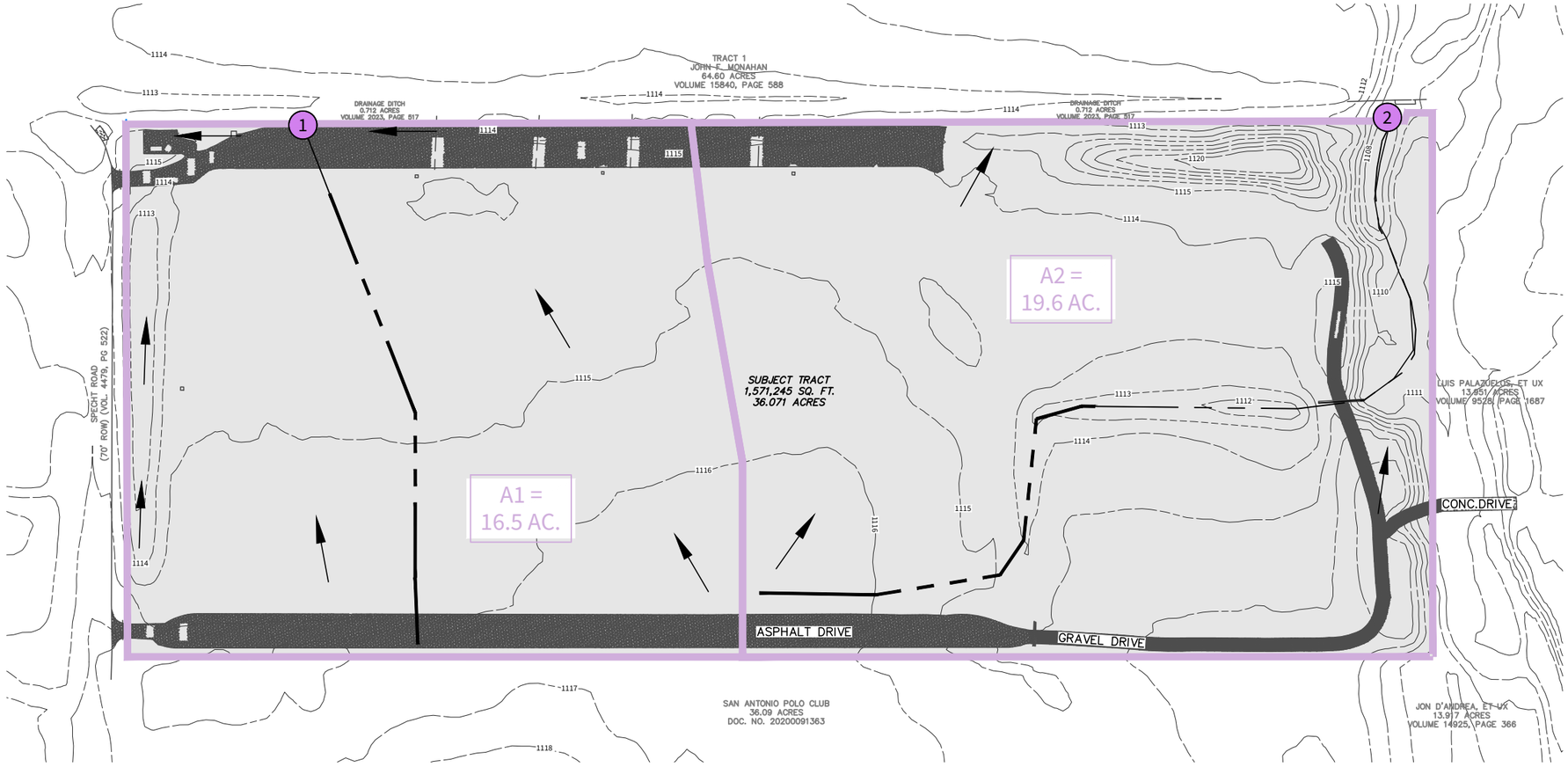
Tc (CONCENTRATED FLOW)

Tc (CHANNEL FLOW)

ACCUMULATION POINT XX

SCALE: 1"=200'

200 100 0 200



Project Name: Alamo Storm City Soccer Club
Calculation Summary for Time of Concentrations & Proposed Flow

Preci | PA1

HYDROLOGY				Sheet Flow Tc Compuations						Shallow Conc. Tc Compuations					Concentrated Tc Computations			Overall	INTENSITY			Q FLOW			
Drainage Shed	Shed Area (Ac.)	AREA OF ACCUMULATION (Ac.)	C	Length < 100'	Paved (Y or N)	Upstream Elev.	Downstream Elev	Slope	Time of Concentration	Length	Paved (Y or N)	Downstream Elev	Slope	Time of Concentration	Length	Velocity (fps)	Time of Concentration	Time of Concentration (min)	I5	I25	I100	Q5	Q25	Q100	Drainage Shed
A1	16.50	= A1	0.44	100.00	N	1116.28	1115.78	0.50%	17.00	600.00	N	1115.00	0.13%	8.53	100.00	6	0.28	25.00	4.10	5.70	7.19	29.77	41.38	52.20	A1
A2	19.60	= A2	0.44	100.00	N	1116.50	1116.25	0.25%	17.00	600.00	Y	1112.75	0.58%	6.39	875.00	6	2.43	25.00	4.10	5.70	7.19	35.36	49.16	62.01	A2

CUDEENGINEERS.COM

CUDE ENGINEERS EST. 1980

4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P: 210.681.2951 F: 210.523.7112

ALAMO CITY STORM SOCCER CLUB

DRAINAGE EXHIBIT

DATE
03/06/2024

PROJECT NO.
04435.00

DRAWN BY
JTW

CHECKED BY
SPM

CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

E1

C:_CADTemp\AcPublish_34124\DRMP.dwg 2024/03/06 11:37am jwatkins

ATTACHMENT C
Suitability Letter from Authorized Agent

Appendix E
Bexar County OSSF Permit Applications

BEXAR COUNTY
ENVIRONMENTAL SERVICES DEPARTMENT
1948 Probandt St
San Antonio, TX 78214
(210) 335-6700 (voice)
(210) 335-6713 (fax)

AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY

Permit No. SP-2023-0337

Date: 10/30/2023

Approval Date: 10/30/2023

Property Owner: ALAMO CITY STORM SOCCER CLUB
Mailing Address: 2552 BOARDWALK ST
Property Location: 204 W. SPECHT RD
Lot: 0 Block: 0

Notes:

This serves to notify all persons that the on-site sewage facility application, related technical data and appropriate fee(s) have been submitted by the above and has satisfied the design requirements of the Bexar County regulations for On-Site Sewage Facilities and 30 TAC Chapter 285. Approval is hereby granted for the construction as shown on the submitted plans. Any modifications to the design, structure, system components or changes of ownership may require a design revision and invalidate this approval. The owner must notify this office of any aforementioned changes.

You or your installer must contact Bexar County Environmental Services to arrange the required inspection(s) prior to completion. This is not a license to operate the on-site sewage facility. A license to operate the facility shall only be granted following a successful installation and inspection(s) of the system, indicating compliance with the regulations.

Approval of this authorization to construct will expire in one (1) year of the date received and is subject to the following restrictions: This does not apply when the septic system needs to be constructed as soon as possible, but within 30 days of the approval date.

_____

Designated Representative
Bexar County Environmental
Services Department

BEXAR COUNTY
ENVIRONMENTAL SERVICES DEPARTMENT
1948 Probandt St
San Antonio, TX 78214
(210) 335-6700 (voice)
(210) 335-6713 (fax)

AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY

Permit No. SP-2023-0099

Date: 10/30/2023

Approval Date: 10/30/2023

Property Owner: ALAMO CITY STORM SOCCER CLUB
Mailing Address: 2552 BOARDWALK STREET
Property Location: 204 SPECHT RD
Lot: Block:

Notes:

This serves to notify all persons that the on-site sewage facility application, related technical data and appropriate fee(s) have been submitted by the above and has satisfied the design requirements of the Bexar County regulations for On-Site Sewage Facilities and 30 TAC Chapter 285. Approval is hereby granted for the construction as shown on the submitted plans. Any modifications to the design, structure, system components or changes of ownership may require a design revision and invalidate this approval. The owner must notify this office of any aforementioned changes.

You or your installer must contact Bexar County Environmental Services to arrange the required inspection(s) prior to completion. This is not a license to operate the on-site sewage facility. A license to operate the facility shall only be granted following a successful installation and inspection(s) of the system, indicating compliance with the regulations.

Approval of this authorization to construct will expire in one (1) year of the date received and is subject to the following restrictions: This does not apply when the septic system needs to be constructed as soon as possible, but within 30 days of the approval date.

_____

Designated Representative
Bexar County Environmental
Services Department

Greg W. Johnson, P.E.

170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778

February 8, 2023

Infrastructure Services Department
Environmental Services Division
19484 Probandt
San Antonio, TX 78214

RE: SEPTIC INSTALLATION / 100 Year Floodplain Zone A
204 W SPECHT ROAD, San Antonio, Texas 78260
JUAN RIVAS SURVEY #219, A-612, CB4837
ALAMO CITY STORM SOCCER CLUB

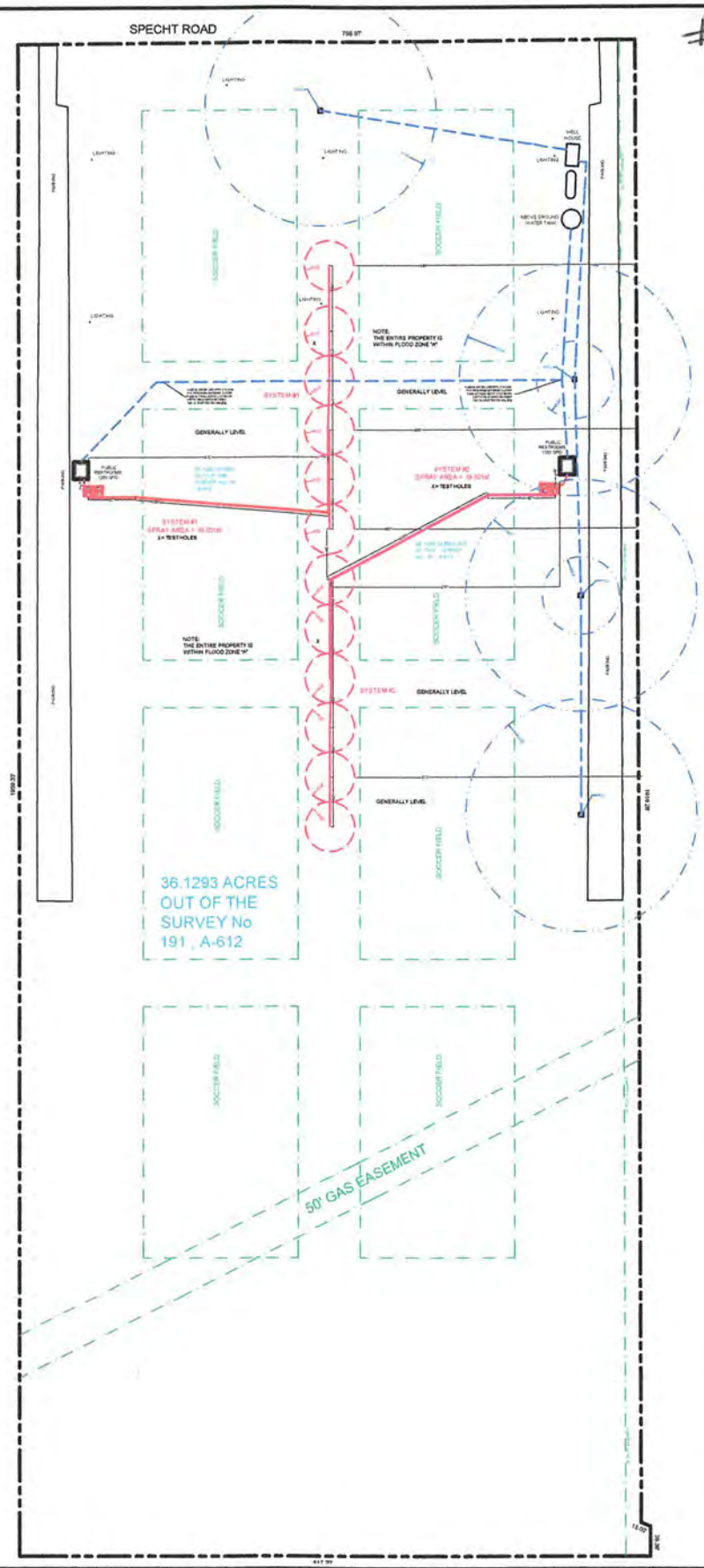
Bexar County Staff,
According to the FEMA floodplain map #48029C0345F the entire referenced property is located within the 100 year flood plain (Flood Zone A). The proposed restrooms and the proposed septic systems are within 100 year flood plain (Zone A). The property slopes less than one percent and is not in an area where seeps will occur. The system has been designed so that during a 100 year flood event, in my professional opinion, no damage will occur to the OSSF as to cause contamination to the environment or a nuisance in accordance with TAC RULE §285.31 (c)(2).

If I can be of further assistance please contact me.

Respectfully yours,

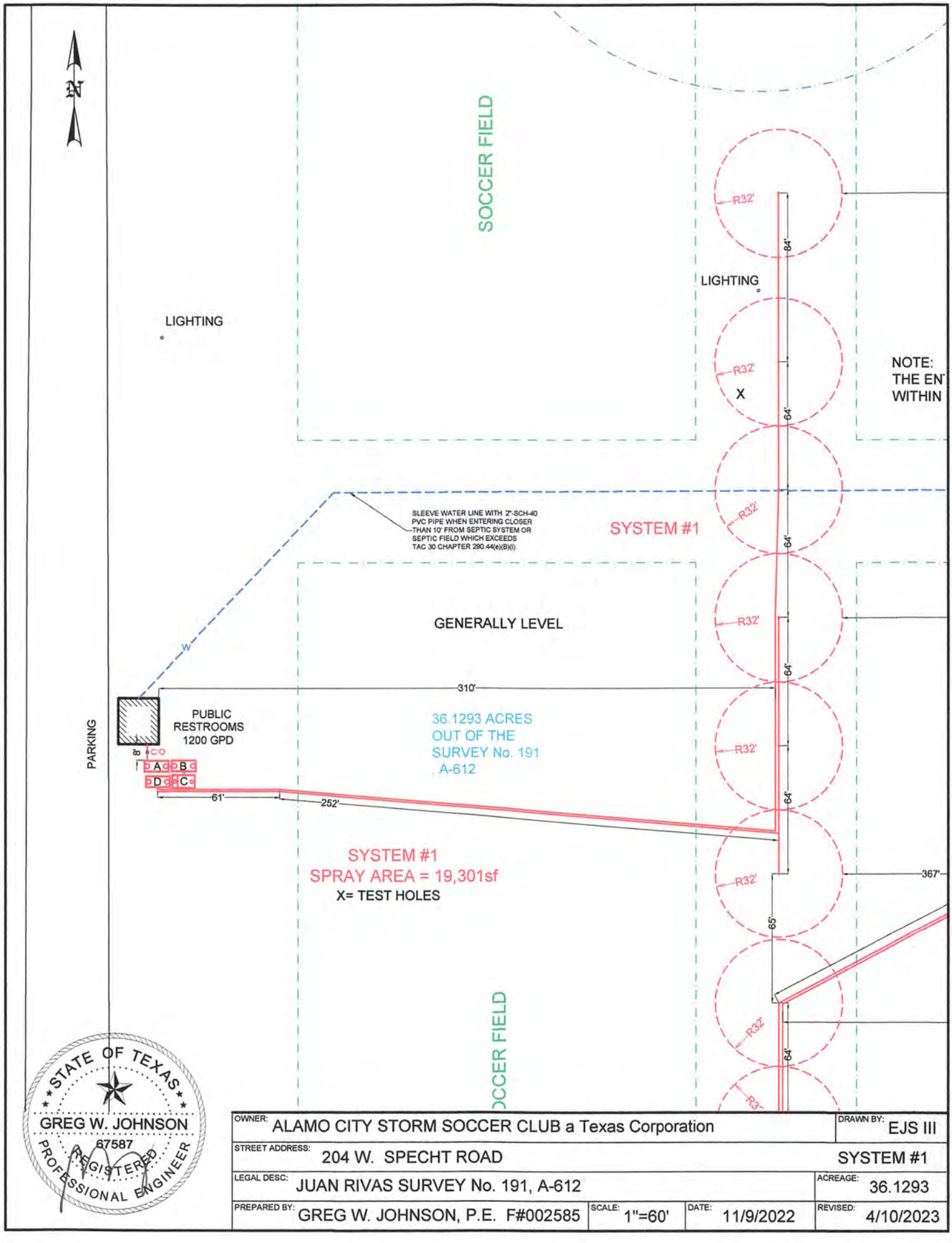
Greg W. Johnson, P.E., F#2585

#2023-0099



STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

OWNER:	ALAMO CITY STORM SOCCER CLUB a Texas Corporation			DRAWN BY:	EJS III
STREET ADDRESS:	204 W. SPECHT ROAD				
LEGAL DESC:	JUAN RIVAS SURVEY No. 191, A-612			ACREAGE:	36.1293
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE: N.T.S.	DATE: 11/9/2022	REVISED:	4/10/2023



STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

OWNER: ALAMO CITY STORM SOCCER CLUB a Texas Corporation				DRAWN BY:	EJS III
STREET ADDRESS: 204 W. SPECHT ROAD					SYSTEM #1
LEGAL DESC: JUAN RIVAS SURVEY No. 191, A-612				ACREAGE:	36.1293
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=60'	DATE: 11/9/2022		REVISED:	4/10/2023

NEW ON-SITE SEWAGE SYSTEM APPLICATION

BEXAR COUNTY
ENVIRONMENTAL SERVICES DIVISION
1948 PROBANDT STREET
SAN ANTONIO, TEXAS 78214

APPLICATION FOR PRIVATE SEWAGE FACILITY LICENSE

Application will expire in one (1) year of date received

PLEASE DO NOT WRITE IN THIS BLOCK
APPLICATION NUMBER
SP#2023-0337
Received _____ By _____ Date _____

To the Bexar County Environmental Services Division
I hereby make application for a permit to construct a private sewage system in Bexar County, Texas, as required by Bexar County regulations for on-site sewerage facilities. I understand there is a NO REFUND policy in place.

SYSTEM #2

(ALL INFORMATION BELOW MUST BE COMPLETED FOR A PERMIT OR LICENSE)

Property Owner's Name: ALAMO CITY STORM SOCCER CLUB (Last) (First) (Middle) — treys@ironsidebuilders.com (E-mail Address)

Permanent Mailing Address: 2552 BOARDWALK STREET (Number and Street) — SAN ANTONIO, TX (City, State) — 78217 (Zip Code)

Location of Job Site: 204W SPECHT ROAD (Number and Street) — CB 4837 (NCB/CB) — 261819 (B - Cad ID #)

If location in a Subdivision: Jucin Rivas S191 A-612 (Name of Subdivision) — CB 4837 (NCB/CB) — 261819 (B - Cad ID #)

Is a Driveway Permit Required? Yes _____ **No** X **Driveway Permit #?** _____ **Date of Driveway Permit Approval?** _____

WATER SUPPLY: _____

If Individual Well: Water Supply name — 480 (Depth) — 2/2003 (Date Drilled) — Address — 5" SDR21 180' (Cased & Cemented) — 8" (Size)

PROPOSED USE OF PROPERTY

TYPE OF DWELLING: Single Family ☐ Mobile Home ☐ Multi-Family ☐ Other ☑

(X) Commercial SOCCER FIELDS (Type of Business) — (No. of Persons at Location)

( ) Industrial _____ (Type of Business) — (No. of Persons at Location)

( ) Church _____ (No. of Persons at Location) — (Kitchen) — (Used Daily)

( ) School _____ (Average Daily Attendance) — (School District) — (Address)

ALL APPLICANTS please write TOTAL number of items below, and leave a blank space for "none"							
1. BEDROOMS		4. LAVATORIES	4	7. KITCHEN SINKS		10. GARBAGE DISPOSAL	
2. COMMODES	6	5. SHOWERS		8. UTILITY SINKS		11. GREASE TRAP	
3. URINALS	4	6. BATHTUBS		9. DISHWASHER		12. CLOTHES WASHER	

ENGINEER OR SANITARIAN GREG W. JOHNSON, P.E. (Name) — 830-905-2778 (Phone Number) — gregjohnsonpe@yahoo.com (E-mail address)

67587 / F#2585 (License Number) — 03/31/2023 (License Expiration Date)

AUTHORIZATION is hereby given to the Bexar County Environmental Services Division, Texas Commission on Environmental Quality and to their agents, or designees, singularly or jointly, to enter upon the above described property for the purpose of inspecting private sewage facilities. A permit to operate the Facility will be granted following a successful installation and inspection of the system, indicating compliance with "Regulations for On-Site Sewerage Facilities, Bexar County, Texas."

Constructed By: _____

Inspected By: _____

Remarks: _____

Owner Signature _____ GM

Phone No.: 210-912-1839

Date: 1-09-23

12/3/18/ACW

COUNTY OF BEXAR
BASIC DEVELOPMENT APPLICATION/ PERMIT

LOCATION OF PROPERTY: 204 W SPECHT ROAD

SUBDIVISION: JUAN RIVAS SURVEY # 191, A-612, BEING 36.1293

LOT:_____ BLOCK:_____ UNIT:_____

(If Not In A Subdivision Attach A Vicinity Map)

****

APPLICANT'S NAME: ALAMO CITY STORM SOCCER CLUB

MAILING ADDRESS:

_____

TELEPHONE NUMBER: 210-912-1839

OWNERSHIP: [ ] PRIVATE [ ] PUBLIC

****

NATURE OF PROPOSED CONSTRUCTION:

[ ] RESIDENTIAL NUMBER OF BEDROOMS _____ NUMBER OF BATHS _____

[X] NON-RESIDENTIAL* [ ] COMMERCIAL* [ ] OTHER*

* SPECIFY TYPE: RESTROOMS FOR YOUTH SOCCER

****

DESCRIPTION OF PROPOSED CONSTRUCTION:

[X] NEW CONSTRUCTION [ ] SUBSTANTIAL IMPROVEMENT

[ ] HOUSE [ ] MOBILE HOME

COST OF IMPROVEMENT: 20,000 (DOLLAR AMOUNT)

****

WARNING:

The Flood Insurance Rate Maps and other flood data used by the Flood Plain Administrator in evaluating flood hazards to proposed developments are considered reasonable and accurate for regulatory purposes and are based on the best available scientific and engineering data On rare occasions greater floods can and will occur and flood heights may be increased by man-made or natural causes This Basic Development Permit does not imply that developments outside the identified areas of special flood hazard will be free from flooding or flood damage Approval of this permit shall not create liability on the part of Bexar County, the Flood Plain Administrator or any officer or employee of Bexar County in the event flooding or flood damage does occur.

_____ 1/9/23

Signature of Applicant Date

****

FOR USE by Flood Plain Administrator

[ ] PERMIT APPLICATION APPROVED [ ] PERMIT APPLICATION DENIED

APPLICATION/PERMIT NUMBER: _____ FEE_____

_____ ____/____/____

Flood Plain Administrator or Agent: Date

INFRASTRUCTURE SERVICES DEPARTMENT
ENVIRONMENTAL SERVICES DIVISION

233 N. Pecos - La Trinidad, Suite 420
San Antonio, Texas 78207
210-335-6700 * (Fax) 210-335-6713

AFFIDAVIT
FOR CONSTRUCTION

SECTION 30:1 EXCEPTIONS

Request for an exception to Section 10.01 of the "Regulations for On-Site Sewage Facilities, Bexar County, Texas".

I, ALAMO CITY STORM SOCCER CLUB, request a release
Homeowner's Name

from the Bexar County Building Permits to the City Public Service Board for electrical connections at 7214 W SPECHT ROAD
Location

for the construction of a dwelling and/or building only. This dwelling and/or building shall not be occupied until the completion and inspection of the private sewage facility by the Bexar County Public Works Department.

However, I understand the penalty for failure to comply to be as follows:

SECTION 11:03 PENALTIES

A. Whenever it appears that a violation or threat of violation of any provision of this regulation has occurred, the Commissioners Court may institute a suit in a District Court through its own attorney for injuctive relief or civil penalties or both, as authorized in Section 21.253 and 21.254 of the Texas Water Code, which stipulates that a person who violates any provision of the Code is subject to a civil penalty of not less than $50.00 nor more than $1,000.00 for each act of violation and for each day of violation to be recovered as provided therein.

Clara GM
Signature of Property Owner

210-912-1839
Telephone

1-09-23
Date

INFRASTRUCTURE SERVICES DEPARTMENT
ENVIRONMENTAL SERVICES DIVISION
1948 PROBANDT STREET
San Antonio, Texas 78214
(210) 335-6700 Office
(210) 335-6713 Fax

FLOOD ZONE/EDWARDS AQUIFER RECHARGE ZONE CERTIFICATION

Development Location: 204 W SPECHT ROAD
JUAN RIVAS SURVEY # 191, A-612, BEING 36.1293

Application's Name: N.E.Y.S.O. of San Antonio

I, GREG W. JOHNSON, P.E. (Engineer or Sanitarian), Hereby

CERTIFY, After careful study and investigation, have determined that the above development is:

☐ Not within a flood prone area

☒ Within a flood prone area

Source of Data: 48029C0130G
(FIRM Community Panel Number)

☒ Not within the Edwards Aquifer Recharge Zone

☐ Within the Edwards Aquifer Recharge Zone

Source of Data: BULVERDE
(U.S.G.S. Quadrangle Map)

Signature: 01/09/2023
(Professional Engineer or Registered Sanitarian)

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

FIRM #2585

Greg W. Johnson, P.E.

170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778

February 8, 2023

Infrastructure Services Department
Environmental Services Division
19484 Probandt
San Antonio, TX 78214

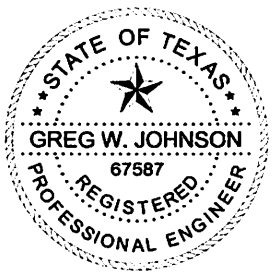
RE: SEPTIC INSTALLATION / 100 Year Floodplain Zone A
204 W SPECHT ROAD, San Antonio, Texas 78260
JUAN RIVAS SURVEY #219, A-612, CB4837
ALAMO CITY STORM SOCCER CLUB

Bexar County Staff,
According to the FEMA floodplain map #48029C0345F the entire referenced property is located within the 100 year flood plain (Flood Zone A). The proposed restrooms and the proposed septic systems are within 100 year flood plain (Zone A). The property slopes less than one percent and is not in an area where seeps will occur. The system has been designed so that during a 100 year flood event, in my professional opinion, no damage will occur to the OSSF as to cause contamination to the environment or a nuisance in accordance with TAC RULE §285.31 (c)(2).

If I can be of further assistance please contact me.

Respectfully yours,

Greg W. Johnson, P.E., F#2585



BEXAR COUNTY OSSF SITE EVALUATION FORM

Applicant/Site Information		Site Evaluator Information		
Name	ALAMO CITY STORM SOCCER CLUB a Texas Corporation	Name	GREG W. JOHNSON, P.E.	
Address	204 W. SPECHT ROAD	Address	170 HOLLOW OAK	
City, State, Zip	SAN ANTONIO, TEXAS 78260	City, State, Zip	NEW BRAUNFELS, TEXAS 78132	
Site location	36.1293 ACRES OUT OF THE JUAN RIVAS SURVEY No. 191, A-612	TCEQ or PE License No.	P.E. # 67587	Expiration Date: March 31, 2023

Soil Boring/Backhoe Pit Number _____ Surface Evaluation: X Proposed Depth Elevation:

Depth (Feet)	Soil Texture	Texture Class (1a, 1b, II, III, IV)	% Gravel (Required when Texture Class is II or III)	Observation Notes - (Restrictive Horizon, Size of Gravel, Groundwater, Mottling, Fractured Rock-, Recent Weather, etc.)
0 1 2 3 4 5 60" 6	**CLAY (SILTY)**	**IV**	**N/A**	**BROWN SILTY CLAY TO 60" WITH NO RESTRICTIVE HORIZON OBSERVED**

Soil Boring/Backhoe Pit Number: _____ Surface Evaluation: X Proposed Depth Elevation:

Depth (Feet)	Soil Texture	Texture Class (1a, 1b, II, III, IV)	% Gravel (Required when Texture Class is II or III)	Observation Notes (Restrictive Horizon, Size of Gravel, Groundwater, Mottling, Fractured Rock, Recent Weather, etc.)
1 2 3 4 5 6	**SAME**		**AS**	**ABOVE**

By my signature, I hereby certify that the information provided in this report is based on my site observations and are accurate to the best of my. ability. I understand that any misrepresentation of the information contained in Us report may be grounds to revoke or suspend my license. The site evaluation determined the site is suitable for a SPRAY IRRIGATION disposal system with AEROBIC treatment. According to Table XIII, the site is suitable/not suitable for this proposed system. A copy of Tables IX and XIII have been given to the property owner to inform them of other alternatives based upon the results of this site evaluation.

Signature: _____ TCEQ or PE license #- 67587 Date: November 9, 2022

OSSF SOIL EVALUATION REPORT INFORMATION

SYSTEM #2

Date: November 09, 2022

Applicant Information:

Name: ALAMO CITY STORM SOCCER CLUB a Texas Corporation
Address: 2552 BOARDWALK STREET
City: SAN ANTONIO State: TEXAS
Zip Code: 78217 Phone: (210) 912-1839

Site Evaluator Information:

Name: Greg W. Johnson, P.E., R.S., S.E. 11561
Address: 170 Hollow Oak
City: New Braunfels State: Texas
Zip Code: 78132 Phone & Fax (830)905-2778

Property Location:

Lot SEE BELOW Unit ___ Blk ___ Subd. ___
Street Address: 204 W. SPECHT ROAD
City: SAN ANTONIO Zip Code: 78260
Additional Info.: 36.1293 ACRES OUT OF THE JUAN RIVAS SURVEY No. 191, A-612

Installer Information:

Name: ___
Company: ___
Address: ___
City: ___ State: ___
Zip Code: ___ Phone ___

Topography: Slope within proposed disposal area: GENERALLY LEVEL %

Presence of 100 yr. Flood Zone:	YES X NO ___	
Existing or proposed water well in nearby area.	YES X NO ___	>150' (EXISTING)
Presence of adjacent ponds, streams, water impoundments	YES ___ NO X	
Presence of upper water shed	YES ___ NO X	
Organized sewage service available to lot	YES ___ NO X	NOTE: THE ENTIRE PROPERTY IS WITHIN FLOOD ZONE "A"

Design Calculations for Aerobic Treatment with Spray Irrigation:

Commercial

Q = ___ GPD PUBLIC RESTROOMS @ 1200 GPD (SEE ATTACHED WRITE UP)

Residential Water conserving fixtures to be utilized? Yes X No ___

Number of Bedrooms the septic system is sized for: ___ Total sq. ft. living area ___

Q gal/day = (Bedrooms +1) * 75 GPD - (20% reduction for water conserving fixtures)

Q = (___ +1)*75-(20%)= 1200

Trash Tank Size 1500 Gal.

SYSTEM #2

TCEQ Approved Aerobic Plant Size 1500 G.P.D.

Req'd Application Area = Q/Ri = 1200 / 0.064 = 18750 sq. ft.

Application Area Utilized = 19,301 sq. ft.

Pump Requirement 12 Gpm @ 41 Psi (Redjacket 0.5 HP 18 G.P.M. series or equivalent)

Dosing Cycle: ___ ON DEMAND or X TIMED TO DOSE IN PREDAWN HOURS

Pump Tank Size = 3000 Gal. 34.5 Gal/inch.

Reserve Requirement = 400 Gal. 1/3 day flow.

Alarms: Audible & Visual High Water Alarm & Visual Air Pump malfunction

Tablet Chlorinator

SCH-40 or SDR-26 3" or 4" sewer line to tank

Two way cleanout

Pop-up rotary sprinkler heads w/ purple non-potable lids

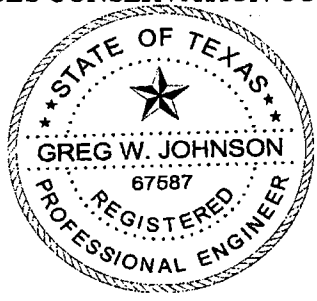
1" Sch-40 PVC discharge manifold

APPLICATION AREA SHOULD BE SEEDED AND MAINTAINED WITH VEGETATION.
EXPOSED ROCK WILL BE COVERED WITH SOIL OR MULCH.

I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS NATURAL RESOURCES CONSERVATION COMMISSION (EFFECTIVE DECEMBER 29, 2016).

GREG W. JOHNSON, P.E. 67587 - F#2585

11/9/2022
DATE



FIRM #2585

AEROBIC TREATMENT SYSTEM SYSTEM #2

DESIGNED FOR:
ALAMO CITY STORM SOCCER CLUB
2552 BOARDWALK ST
SAN ANTONIO, TX 78217

SITE DESCRIPTION:

Located in the Juan Rivas Survey #191, A-612, being 36.1293 acres at 204 W. Specht Road, two septic systems serve two public restrooms. The property has deep Type IV soils. (See OSSF Soil Evaluation Report) with native grasses throughout. An aerobic treatment plant utilizing spray irrigation was selected as the most appropriate system for the conditions on this lot.

PROPOSED SYSTEM:

Flow from each restroom through a 4inch Sch-40 PVC sewer line 1500 gallon trash tank with standard inlet and outlet tees. Flow then enters a 3000 gallon equalization tank fitted w/ dual effluent pumps. Flow is dosed every 30 minutes at a restricted rate of 5 gallons per minute for five minutes through a 2" SCH-40 PVC line to a Proflo 1500S aerobic treatment plant. Effluent will continue to a 3000 gallon pump tanks, fitted with a liquid chlorinator and dual submersible well pumps activated by mercury float switches and a dual alternating control panel with a manual reset. A high level audible and visual alarm will activate should the pump fail. Distribution from each pump is through a 1" SCH-40 manifold to three spray heads as per the attached drawing. Dual alternating controller with manual reset will alternate back and forth between the zones every thirty minutes spray time in the predawn hours. The field must continue to be maintained with vegetation. **Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.**

DESIGN SPECIFICATIONS:

Q = 1200 gpd Design Rate per septic system (up to 500 people per event per system @ 4 gpp = 2000gpd x 2 per week)
Average flow of 4000 gal/week / 7 days per week = 571 gpd average. Using 1200 gpd
Total application area: A=Q/Ra = 1200 gpd/0.064 = 18,750 req'd. (Actual 19,301 sf.)
Trash tank: 1500gal
Equalization tank: 3000 gal w/ dual effluent pumps Liberty LE50 1/2hp or equiv.
Aerobic Plant: Pro-Flo 1500S 1500 gpd Aerobic Plant
Aerobic Pump Tank size: 3000 gallon w/ dual effluent pumps and alarm
Low Angle Nozzle Size: Use K-Rain Pro2 Plus discharging 3.1 gpm @ 40 PSI & 32' spray radius.

Pump requirement: Duplex effluent - EQ tank (Liberty LE50 or equiv.)
Duplex 20 gpm @ 40 psi. (FPS E-Series 0.5 HP 20 gpm series or equiv.)
Dosing cycle: Cycle Timer is set to dose each pump in predawn hours for 32 minutes two times per pump with a battery backup.
Reserve capacity after High Level: 250 gal EQ & 327 gal Final (>4 hrs. flow)
Alarms: Audible Visual High Level in all pump tanks w/ dual alternating control panel

PIPE AND FITTINGS:
All pipes and fittings in this aerobic system shall be schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Line between flow equalization tank and aerobic tank shall be 2" SCH-40 PVC. The manifold to spray heads shall be 1" in diameter and be colored purple. Dual well pumps capable of providing at least 16 gpm @ 41 psi head, such as the FPS E-Series 0.5 HP 20 gpm , shall be utilized for pumping effluent.

FLOODPLAIN
According to the FEMA floodplain map (FIRM #48029C0130G) the referenced property is located within the 100 year flood plain, with the entire septic system within Flood Zone A. Each system has been designed so that during a 100 year flood event, in my professional opinion, no damage will occur to the OSSF as to cause contamination to the environment or a nuisance.

BUOYANCY CALCULATIONS:
1500 gallon Trash tank
Volume of Tank = H*L*W = 4.42'*13'*6.83' = 392.5 sf.
Upward Buoyancy force = 392.5sf * 8.34 #/gal*7.48gal/sf = 24,485 #
Overburden w/ 0.5' of soil = area*fill Ht*Wt of fill/cf = 13'*6.83'*0.5'*90#/cf = 3996#
Tank Weight of 1500 gal Tank= ~12,500#
Downward force & min.water & overburden=12,500#+(1500)*8.34#/gal+3996# =29,006#
Downward force > Upward Force 29,006# > 24,485# Tank will not float with 0.5' of cover

AEROBIC PLANT:
Volume of Tank = H*W*L = 6.667'*6.25'*11.46'= 477.43 cf.
Upward Buoyancy force = 477.34* 8.34 #/gal*7.48gal/sf = 29,784 #
Overburden w/ .5' of soil=area*fill Height*Wt of fill/cf = 6.25'*11.46*90#/cf *.5' = 3,223#
Tank Weight = 19,405#
Downward force min water+ Overburden = 19,405# + 2394*8.33#/gal + 3,223# = 42,570#
Downward force > Upward Force 42,570# > 29,784#
Tank will not float with 0.5' of cover

3000 gallon EQ tanks & Final Pump Tank:
3000 gallon tank
Volume of Tank = H*W*L = 6.9167'*6.167'*14.667'= 626 cf.
Upward Buoyancy force = 626* 8.34 #/gal*7.48gal/sf = 39,051 #

Overburden w/ .5' of soil = area*fill Height*Wt of fill/cf = 6.167'*14.667*90#/cf *0.5' = 4070#
Tank Weight = 33,000#
Downward force min water+ Overburden = 33,000# +345*8.33#/gal + 4070# = 39,944#
Downward force > Upward Force 39,944# > 39,051#
Tank will not float with 0.5' of cover

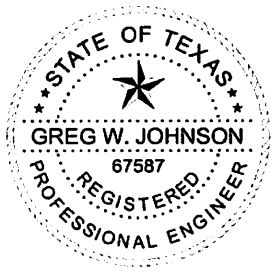
NOTES

- A continuous maintenance contract is required to be maintained on this septic system.
- Each Septic system requires periodic pumping each one to five years depending on usage.
- Construction material, specifications and all construction methods shall conform to the requirements set forth in the construction standards for on-site sewage facilities from TCEQ.
- The installer must be licensed by the State of Texas and install according to design specifications and obtain inspections by authorized agent throughout the installation process.
- All piping must be a SCH-40 PVC.
- All waterlines to be sleeved w/ SCH-40 PVC within 10' from septic system.
- Sewer lines with 5' and under driveways will be sleeved with Sch-40 PVC
- All tanks must be installed greater than five feet from any structure and be level within 1" and bedded with a minimum of 4" of sand/sandy loam free of rock.
- Risers must be installed on all tanks buried more than twelve inches.
- All septic tanks inlet and outlets must be sealed with a permanent waterproof sealant.
- A minimum of 1/4" per foot fall per foot is required on sewer line to the septic.
- Aerated tanks must be vented.
- All electrical controls must be mounted above flood elevation.

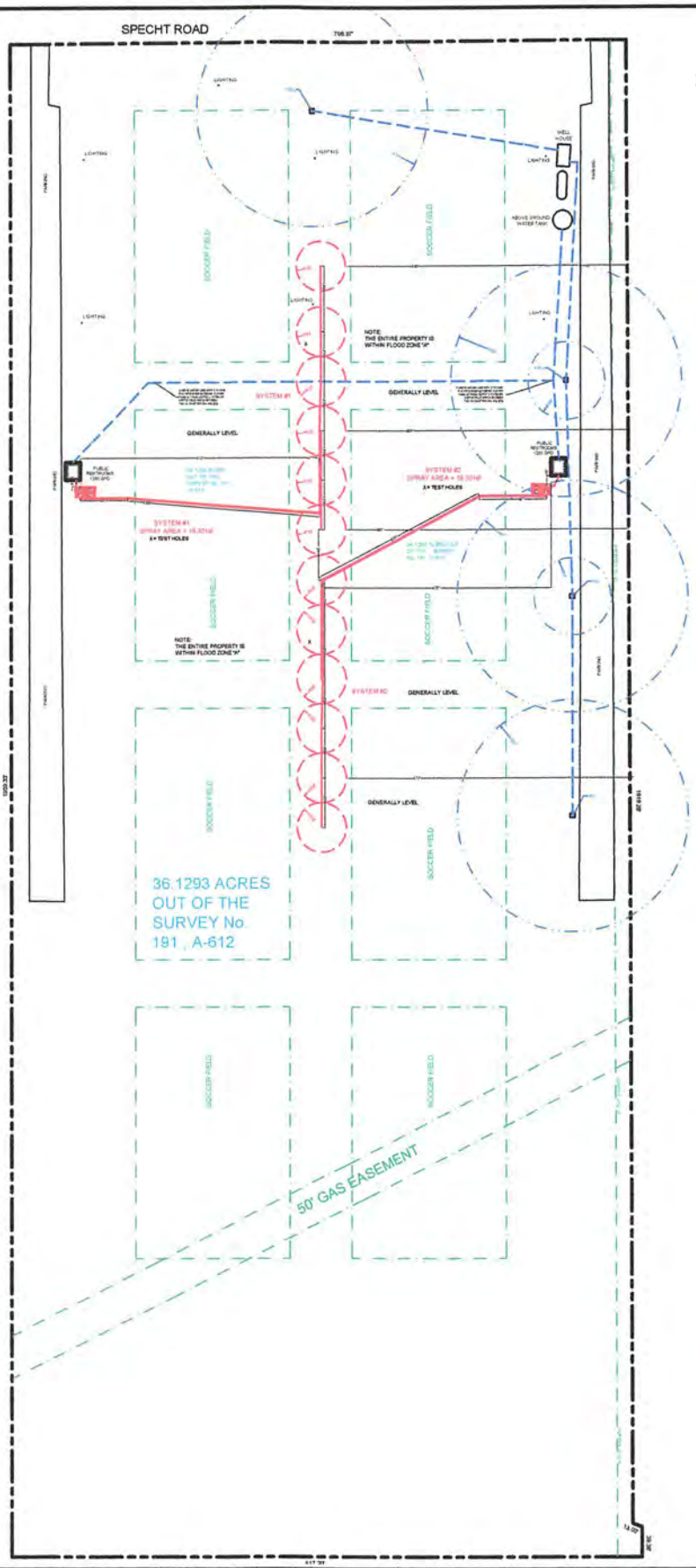
Designed in accordance with Chapter 285, Subchapter D, §285.30 & §285.40, Texas Commission of Environmental Quality (TCEQ) (Effective December 29, 2016).

1/09/2023

Greg W. Johnson P.E. No. 67587 - F# 2585
170 Hollow Oak
New Braunfels, Texas 78132 (830) 905-2778

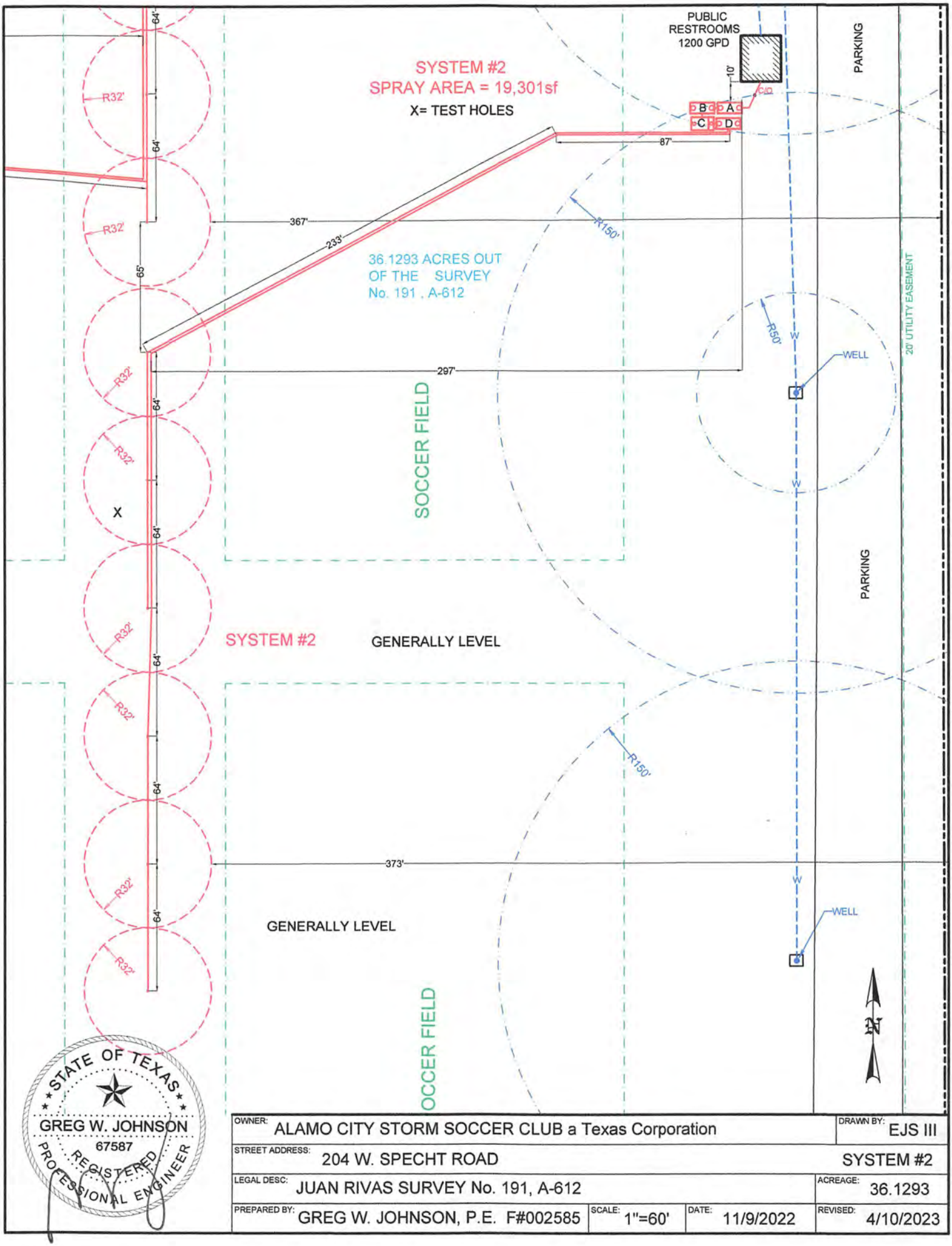


SYSTEM #2



STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

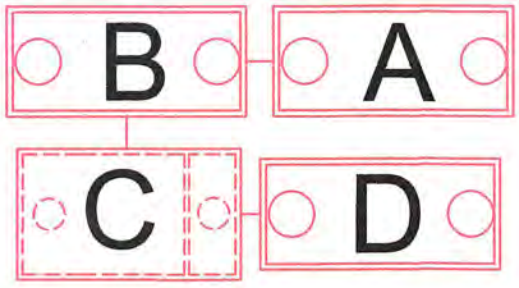
OWNER:	ALAMO CITY STORM SOCCER CLUB a Texas Corporation			DRAWN BY:	EJS III
STREET ADDRESS:	204 W. SPECHT ROAD				
LEGAL DESC:	JUAN RIVAS SURVEY No. 191, A-612			ACREAGE:	36.1293
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE: N.T.S.	DATE: 11/9/2022	REVISED:	4/10/2023



OWNER: ALAMO CITY STORM SOCCER CLUB a Texas Corporation				DRAWN BY: EJS III	
STREET ADDRESS: 204 W. SPECHT ROAD				SYSTEM #2	
LEGAL DESC: JUAN RIVAS SURVEY No. 191, A-612				ACREAGE: 36.1293	
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=60'	DATE: 11/9/2022		REVISED: 4/10/2023	

SEPTIC TANK LAYOUT:

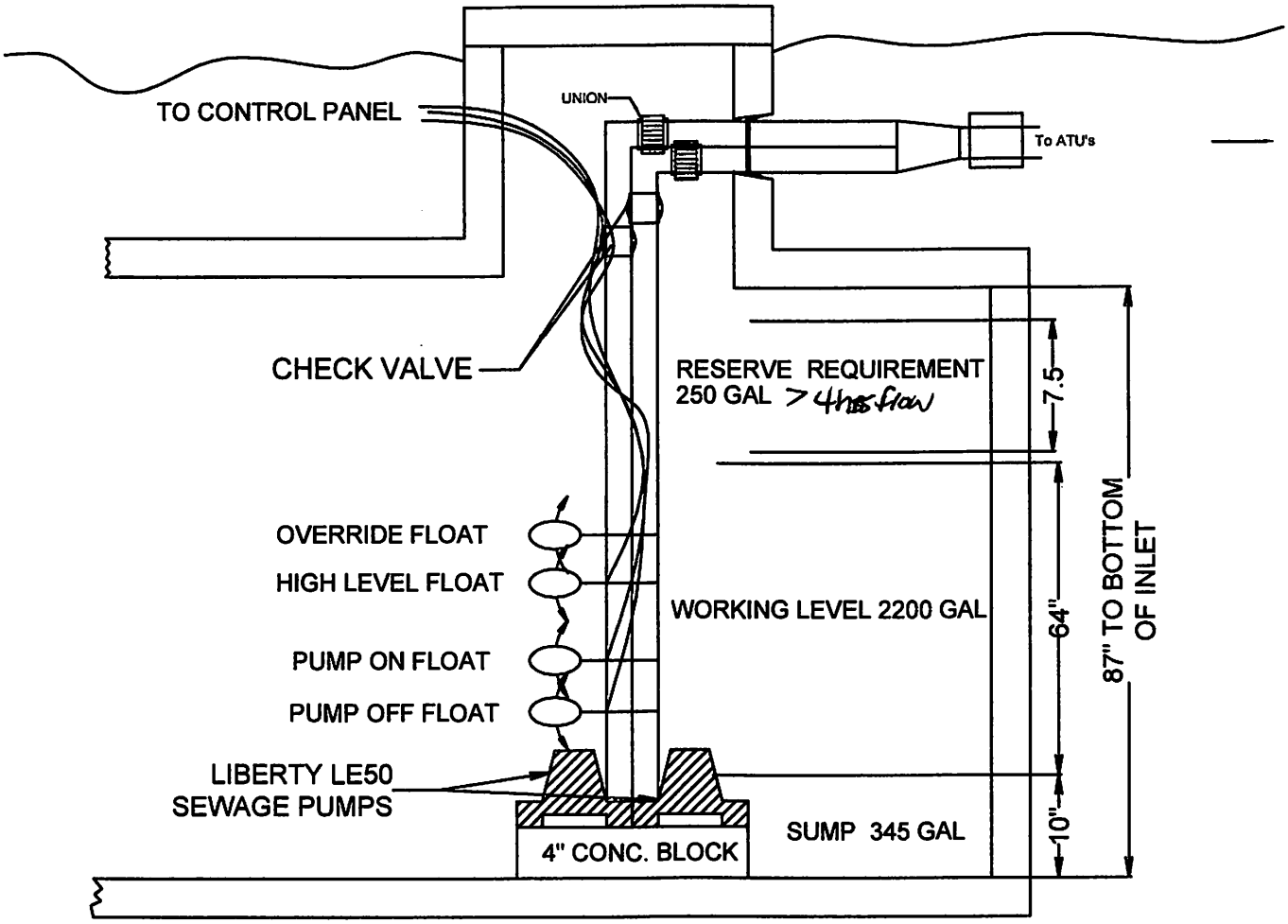
A = 1500 GAL. TRASH TANK
B = 3000 GAL. EQUALIZATION TANK
C = 1500 AEROBIC TREATMENT PLANT
D = 3000 GAL. PUMP TANK W/DUAL PUMPS



STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

OWNER: ALAMO CITY STORM SOCCER CLUB a Texas Corporation				DRAWN BY: EJS III
STREET ADDRESS: 204 W. SPECHT ROAD			SYSTEM #1 & #2 - SPEC. SHEET	
LEGAL DESC: JUAN RIVAS SURVEY No. 191, A-612				ACREAGE: 36.1293
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: N.T.S.	DATE: 11/9/2022		REVISED: 4/10/2023

ALL WIRING MUST BE IN COMPLIANCE WITH
THE MOST RECENT NATIONAL ELECTRIC CODE

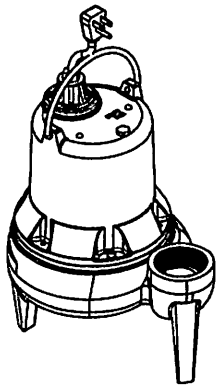


3000 GAL PUMP TANK
VOLUME = 34.5 GAL/IN

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

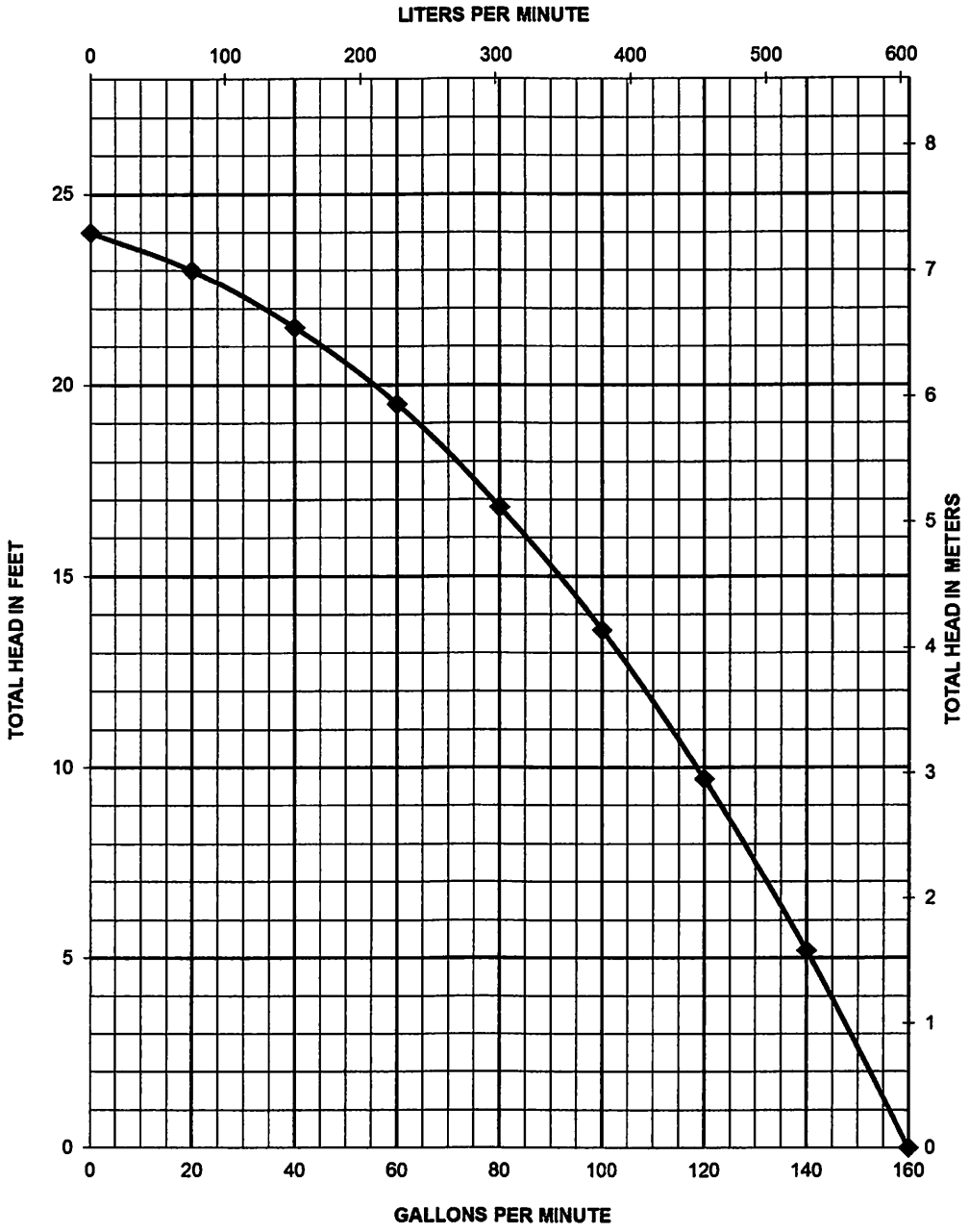
11/9/2022

Liberty Pumps®



Pump Specifications

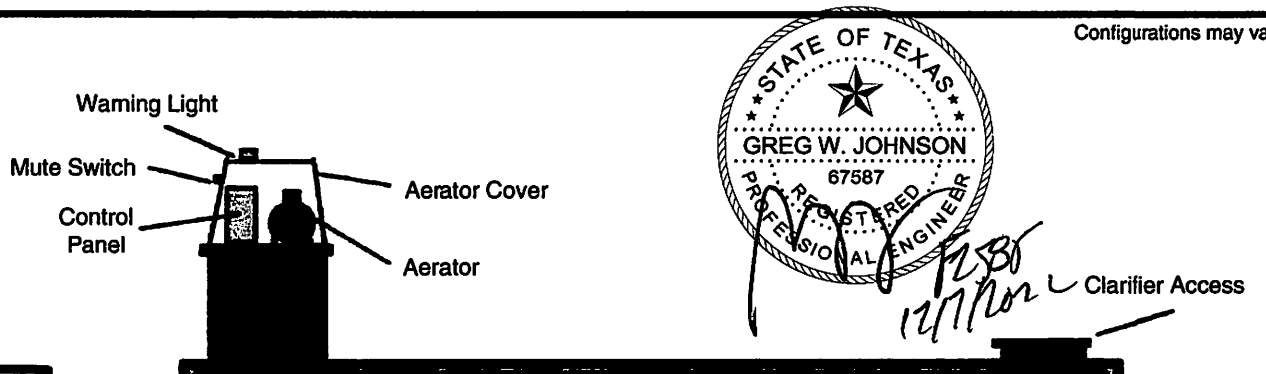
LE50 Series
½ HP Submersible Sewage Pump



Liberty Pumps

Pro Flo 1500 S System Diagram

Configurations may vary.



STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED PROFESSIONAL ENGINEER

12/7/07

1125 Gallon Pretreatment Chamber 75% to 100% Daily Hydraulic Capacity

MINIMUM DIMENSIONS

Inside Width	55"
Inside Length	90"
Water Level	55"

Minimum Length to Width Ratio: 1.5 to 1

SPECIFICATIONS

Overall Length	137½"(t) - 133½"(b)
Overall Width	75"(t) - 71"(b)
Height without Risers	80"
Exterior Wall Thickness	3"
Interior Wall Thickness	2½"
Top and Bottom Thickness	5"(t) - 3"(b)
Aeration Length	89"(t) - 87"(b)
Clarifier Length	40"(t) - 38"(b)
Water Level	65"
Air Diffuser	27¼"
Bottom of Inlet to Bottom of Tank	69"

(t) = Top Dimension - (b) = Bottom Dimension

Pro Flo 1500 S

Pretreatment Tank Sold Separately
Pump Tank Sold Separately (Not Shown)
Drawing Not to Scale All Gallonage Approximate

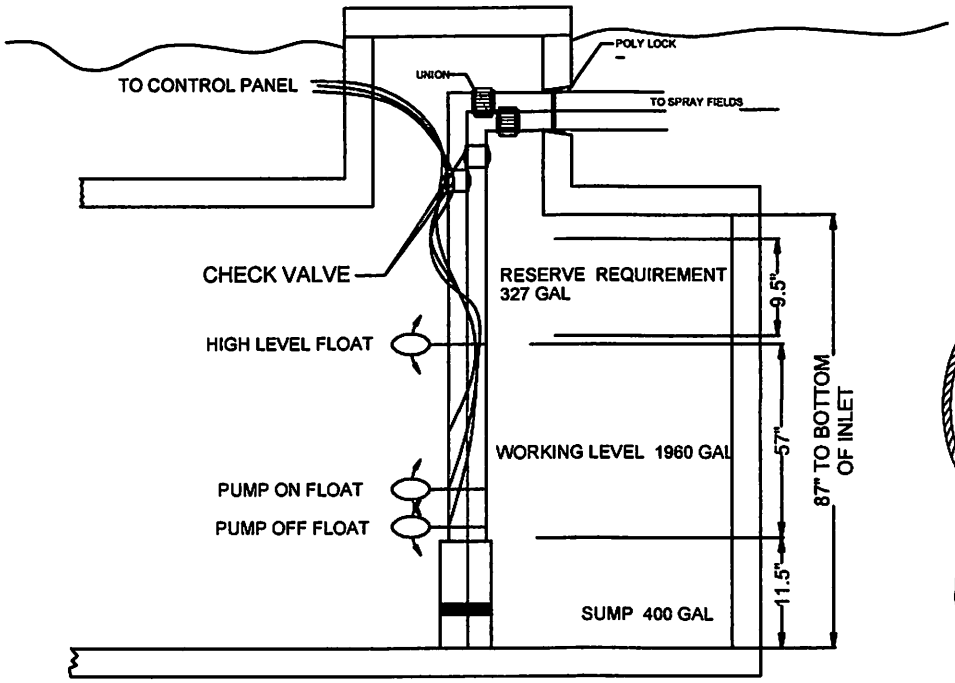
TANK NOTES:

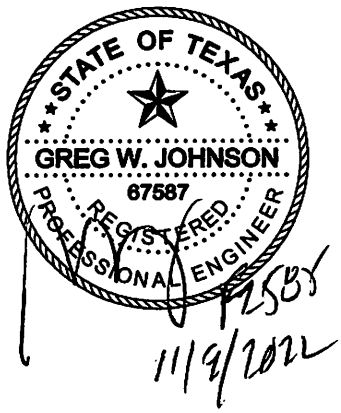
A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

Tanks must be left uncovered and full of water for inspection by the permitting authority.

Tanks must be set to allow a minimum of 1/8" per foot fall from the building

ALL WIRING MUST BE IN COMPLIANCE WITH
THE MOST RECENT NATIONAL ELECTRIC CODE





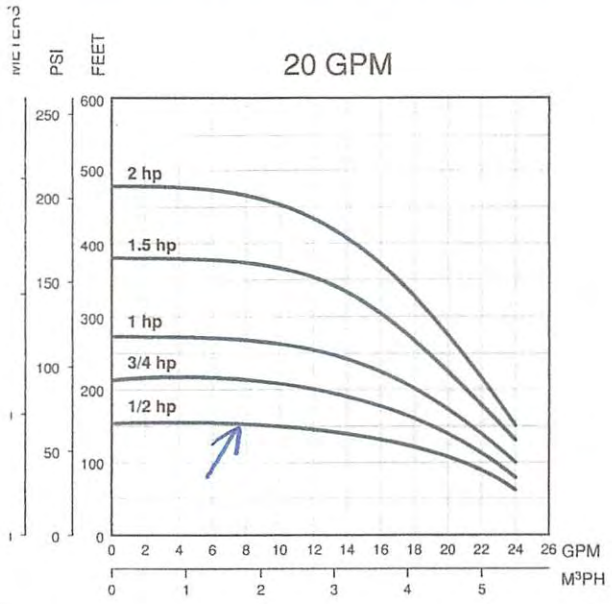
FINAL TANK 3000 GAL PUMP TANK
VOLUME = 34.5 GAL/IN

Thermoplastic Performance

LOW ANGLE NOZZLE PERFORMANCE CHART

Nozzle	PSI	Radius	GPM
#1	30	22'	1.5
	40	24'	1.7
	50	26'	1.8
	60	28'	2.0
#3	30	29'	3.0
	40	32'	3.1
	50	35'	3.5
	60	37'	3.8
#4	30	31'	3.4
	40	34'	3.9
	50	37'	4.4
	60	38'	4.7
#6	40	38'	6.5
	50	40'	7.3
	60	42'	8.0
	70	44'	8.6

KRAIN Pro_Plus



Thermoplastic Units Ordering Information

1/2 - 1.5 HP Single-Phase Units						
Order No.	Model	GPM	HP	Volt	Wire	Wt.
94741005	10FE05P4-2W115	10	1/2	115	2	24
94741010	10FE05P4-2W230	10	1/2	230	2	24
94741015	10FE07P4-2W230	10	3/4	230	2	28
94741020	10FE1P4-2W230	10	1	230	2	31
94741025	10FE15P4-2W230	10	1.5	230	2	46
94742005	20FE05P4-2W115	20	1/2	115	2	25
94742010	20FE05P4-2W230	20	1/2	230	2	25
94742015	20FE07P4-2W230	20	3/4	230	2	28
94742020	20FE1P4-2W230	20	1	230	2	31
94742025	20FE15P4-2W230	20	1.5	230	2	40

Thermoplastic 1/2 - 2 HP Pump Ends						
Order No.	Model	GPM	HP	Volt	Wire	Wt.
94751005	10FE05P4-PE	10	1/2	N/A	N/A	6
94751010	10FE07P4-PE	10	3/4	N/A	N/A	7
94751015	10FE1P4-PE	10	1	N/A	N/A	8
94751020	10FE15P4-PE	10	1.5	N/A	N/A	12
94752005	20FE05P4-PE	20	1/2	N/A	N/A	6
94752010	20FE07P4-PE	20	3/4	N/A	N/A	7
94752015	20FE1P4-PE	20	1	N/A	N/A	8
94752020	20FE15P4-PE	20	1.5	N/A	N/A	10
94752025	20FE2P4-PE	20	2	N/A	N/A	11

AFFIDAVIT TO THE PUBLIC

THE COUNTY OF BEXAR §
STATE OF TEXAS §

Before me, the undersigned authority, on this day personally appeared Clarence Franke GM who, after being by me duly sworn, upon oath state that they are the owner of record of that certain tract or parcel of land lying and being situated in Bexar County, Texas.

CERTIFICATION OF OSSF -REQUIRING MAINTENANCE

According to Texas Commission of Environmental Quality Rules for On-Site Sewage Facilities, this document is filed in the Deed Records of Bexar County, Texas.

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission of Environmental Quality (TCEQ) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the TCEQ primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The TCEQ, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the TCEQ requires a deed recording. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This deed certification is not a representation or warranty by the TCEQ of the suitability of this OSSF, nor does it constitute any guarantee by the TCEQ that the appropriate OSSF was installed.

II

2 - OSSFs requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as-

_____ UNIT/PHASE/SECTION _____ BLOCK _____ LOT _____ SUBDIVISION

IF NOT IN SUBDIVISION: 36.1293 ACREAGE JUAN RIVAS SURVEY # 191, A-612 SURVEY

The property is owned by: ALAMO CITY STORM SOCCER CLUB

These OSSF's must be covered by a continuous maintenance contract. All maintenance on these OSSF's must be performed by an approved maintenance company, and a signed maintenance contract must be submitted to Bexar County Department of Public Works within 30 days after the property has been transferred.

The owner will, upon sale or transfer of the above described property, request a transfer of the permit for the OSSF to the buyer or new owner. A copy of the planning materials for these OSSF's can be obtained from the Bexar County Department of Public Works.

WITNESS MY/OUR HAND(S) on this 9th day of January ,2023

CLARENCE FRANKE - GENERAL MANAGER

SWORN TO AND SUBSCRIBED BEFORE ME on this 9 day of January ,2023

Notary Public Signature

DAWN B ALDRETE
My Notary ID # 7376074
Expires February 6, 2023

File Information

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

Document Number:	20230015960
Recorded Date:	January 30, 2023
Recorded Time:	2:20 PM
Total Pages:	2
Total Fees:	$26.00

**** 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: 1/30/2023 2:20 PM

Lucy Adame-Clark
Lucy Adame-Clark
Bexar County Clerk

Please print this page and cut out the pocket card below.
print . . . close

PE+LS
Texas Board of Professional Engineers and Land Surveyors

Number: **67587**
Status: **ACTIVE**
Expires: **3/31/2024**

GREG WAYNE JOHNSON

TEXAS LICENSED PROFESSIONAL ENGINEER

Signature

MJ Central Texas Septic, LLC - DBA MJ SEPTIC

27552 Old Blanco Road
San Antonio, Texas 78260
(210) 875-3625
mjseptic@mjseptic.com (email)
www.mjseptic.com (website)

Residential Aerobic Maintenance Contract
Licensed by T.C.E.Q. Michael J. Long, MP 0001294

PROPERTY ADDRESS 204W SPECHT ROAD - JUAN RIVAS SURVEY #191, A-612, 36.1293 AC

TERMS OF PAYMENT: ***Payment is due in full for the maintenance contract at time of signing.*** A credit card will be required at time of booking any service for parts, repairs, cleaning/pumping, service calls, red lights, etc. unless otherwise specifically noted. MJ will not perform any repairs or pumping unless we have a credit card on file. MJ Septic no longer accepts payment onsite, whether it be a check or credit card and we no longer offer billing/invoicing for future payments; this is a strict office policy, no exceptions.

1 YEAR	2 YEAR	3 YEAR	2 YEAR INITIAL	Additional Information
$285	$530	$675	Included with Installation	Homeowner(s) are NOT required to be present at inspections. Please note, clients will receive an emailed notice 5-7 business days prior to your scheduled inspection, this is your only notification we will send. A door hanger will be left if no one is home. Inspection reports are emailed/mailed within a few business days to the email/mailing address of record, please check your spam folder. If you have not received it after 72 hours please email or call our office.

- **MAINTENANCE TIPS/SEPTIC GUIDE:** Please retain the attached Maintenance Tips/Septic Guide for future reference. Please note our business hours are Monday - Friday 8am to 5pm, should you have an emergency during non-business hours, please look this over and follow the necessary steps until you can reach us during normal business hours!
- If you are unable to reach us during business hours, you can leave a voicemail or send an email (we attempt to respond to emails during weekends and holidays as best as we can!)

Acceptance of Maintenance Contract: The above prices, specifications, and conditions are satisfactory and are hereby accepted. MJ Septic is authorized to enter property to perform routine maintenance inspections as agreed. I have read and agreed to the maintenance contract guidelines stated above and have also read and agreed to comply with the Maintenance Tips/Septic Guide. MJ Septic reserves the right to make amendments to this document at any time and the homeowner will be responsible for signing an updated version for office and county records.

Please note, clients will receive an emailed notice 5-7 business days prior to your scheduled inspection, this is your only notification we will send.
(MJ Septic will assess a $75 re inspection/missed inspection fee if we are not granted access to complete your inspection on the date assigned , aggressive dogs, etc)

Property Address: 204W SPECHT ROAD City: SAN ANTONIO, TX Zip Code: 78260

Client Name: ALAMO CITY STORM SOCCER CLUB

Contract Start Date: _____ Contract End Date: _____ Total Fee Paid: _____

Permitting Authority: BEXAR COUNTRY Subdivision Gate Code: _____ Property Gate Code: 2000

Subdivision: JUAN RIVAS SURVEY #191, A-612, Number in Household: _____ Aggressive Dogs: _____

Email Address: treys@ironsidebuilders.com Email Address: benmedellin@gmail.com

Cell Phone (his/hers): 210-912-1839 Cell Phone (his/hers): _____ Home Phone: _____

Client Approval Signature: Chris GM Date of Client Acceptance: 1-9-23

MJ Central Texas Septic, LLC Authorized Signature: Stephanie E. Perez Date of MJ Approval: _____

MJ Central Texas Septic, LLC - DBA MJ SEPTIC

27552 Old Blanco Road
San Antonio, Texas 78260
(210) 875-3625
mjseptic@mjseptic.com (email)
www.mjseptic.com (website)

Residential Aerobic Maintenance Contract
Licensed by T.C.E.Q. Michael J. Long, MP 0001294

PROPERTY ADDRESS: 204 W. SPECHT ROAD - JUAN RIVAS SURVEY #191, A-612, 36.1293 AC

The Texas Commission on Environmental Quality (TCEQ) requires all ATU's to be checked and maintained every four months for the life of the unit (*some permitting authorities may stipulate this requirement, after the first two years after installation; call your county to inquire*). Upon expiration of this contract, MJ Septic will offer a continuation of your maintenance contract to cover labor and routine maintenance/reports. Lab testing, if required, for coliform, TSS, BOD etc. are NOT included in this policy and applicable fees are the owner's responsibility. MJ Septic will inspect and service your ATU once every 4 months for the duration of your 2-year initial contract. For a new single-family dwelling, this is the date of installation, required by state guidelines dated June 13, 2001. For an existing
single-family dwelling, this is the date the notice of approval is issued by your permitting authority. The effective date of this maintenance contract shall be the date the LTO (license to operate) is issued.

MJ Septic will address all major concerns/complaints (excluding weekends & holidays) within 72 hours from the initial point of contact with the homeowner(s). Please note our business hours are Monday - Friday 8am to 5pm

- **INSPECTIONS:** an inspection every four months (three times annually) which includes inspecting/servicing the mechanical, electrical, and other applicable components to ensure proper function. The annual fee does not include any parts, cleaning/pumping, chlorine/bleach (tablets or liquid), additional service calls or additional testing that may be required by any regulating authority. If for any reason, we are unable to obtain access to your property or system to perform a service check, you may be charged a $75 service call for re-scheduling. It is very important that we always have full access to your system, including all gate codes, combination locks etc. to inspect your system.

- **SERVICE CALLS:** If a service call is required by homeowner/renter between regular inspections, a service call fee of $75 (not including parts and/or cleaning/pumping) will be assessed. We may waive this fee at our discretion. These calls include but are not limited to the following: red light alarms, high water alarms, chlorinator checks, disconnected airlines, timer adjustments, spray head adjustments and system power failure.

- **REPAIRS:** If repairs or replacement of parts are needed during routine inspection, we will attempt to contact the homeowner for approval to make onsite repairs. If we are unable to repair/replace parts onsite, the client will be notified via email and/or USPS that repairs/replacement of parts is needed. All MAJOR part replacements come with a 2-year warranty (see notes below). There will be a $75 warranty credit fee assessed on all parts. Warranted items will only be honored when a valid maintenance contract is in effect with MJ Septic. If the contract has a lapse in time, ALL WARRANTED items are VOIDED.
  For ATU's under initial installation warranty (2 years from initial installation date) if warranted items are required to be replaced within 30 days of installation, part will be replaced with no fees, after 30 days there will be a $75 warranty credit fee assessed on all parts. Warranted items will only be honored when a valid maintenance contract is in place with MJ Septic.

- **CLEANING/PUMPING:** The cleaning/pumping of your ATU is not included in your maintenance contract. We always recommend pumping between 10-12" of sludge. We determine this by gathering 3-4 different readings out of your pump tank with a sludge judge. A few other factors that *may* determine pumping is necessary even if your sludge reading is less than 10-12". **A typical/average household will need to have their system pumped every 2-5 years; this all depends on usage and will vary per household**

MJ Central Texas Septic, LLC - DBA MJ SEPTIC

27552 Old Blanco Road
San Antonio, Texas 78260
(210) 875-3625
mjseptic@mjseptic.com (email)
www.mjseptic.com (website)

Residential Aerobic Maintenance Contract
Licensed by T.C.E.Q. Michael J. Long, MP 0001294

PROPERTY ADDRESS: 204 W. SPECHT ROAD - JUAN RIVAS SURVEY #191, A-612, 36.1293 AC

- **CHLORINE SUPPLY:** ***The property owner is responsible for maintaining their own chlorine supply.*** TCEQ regulation requires proper chlorination. For liquid chlorinators, homeowners are to add 2-3 gallons of liquid chlorine/bleach per month. (if the chlorinator is completely empty, DO NOT add more than 3 ½-4 gallons of liquid chlorine/bleach at a time) For tablet chlorinators, homeowners can purchase Calcium Hypochlorite tablets typically purchased at a local Home Depot or Lowe's. ***DO NOT USE POOL TABLETS*** *(this can cause a dangerous volatile chemical reaction)*

- **TRANSFER OF MAINTENANCE CONTRACT/PROPERTY OWNERSHIP:** The fee of this maintenance contract is non-refundable, however is fully transferable to the new owner(s). If this policy is sold within the contract period, the signing party is responsible for all repairs unless the new homeowner(s) information is provided before repairs are made and the transfer contract is signed (by the new homeowner) and returned to us. The new homeowner(s) will be emailed a copy of the powerpoint orientation, if it was an MJ Septic installation, once the signed contract is received on file with our office.
  RENTAL HOMES: *The PROPERTY OWNER is responsible for all fees associated with this contract. Renters will be required to have a walk-through orientation during their first visit to ensure proper usage, etc.*

- **ALTERATIONS/MODIFICATIONS TO THE SYSTEM:** Do not allow alteration to any part of the system or sprinkler head locations. Alterations would put the system out of county/code compliance and would cause the property owner additional expense to bring the system back into compliance. Any use of another company to make repairs to the system will void any warranties and be considered as a breach of this maintenance contract. If a client chooses to purchase and use their own parts, MJ Septic will not install nor work on these parts. Adding pools, decks, sport courts, outdoor kitchens, sheds etc. without proper septic design and county permitting is not acceptable. You must have a septic designer redesign your septic system and have permitting authority's approval prior to any additions being made. MJ Septic is not liable for any fines you may incur from illegal modifications.

- **WARRANTY VIOLATIONS:** Violations of the warranty include but are not limited to the following: turning off your system at any time, disconnecting the alarm; restricting airflow to the air compressor, overloading the system above its daily rated capacity, introducing excessive amounts of harmful matter (including harsh chemicals, cleaners, antibiotics, etc.) into the system or any other harmful usage of your OSSF/ATU. Refusing to clean/pump out septic when recommended and/or replacing necessary parts as needed. Necessary treatment of ants. Homeowners must keep grass, weeds and plants trimmed and clear of tank access points, control panel, air compressor, etc. Moving sprinkler lines without proper documentation, etc. Building over septic tanks, lids, etc. Adding pools, decks, sport courts, outdoor kitchens, sheds etc. without proper septic design and county permitting is not acceptable. You must have a septic designer redesign your septic system and have permitting authority's approval prior to any additions being made. MJ Septic is not liable for any fines you may incur from illegal modifications.

Maintenance Tips/Septic Guide

27552 Old Blanco Road
San Antonio, Texas 78260
(210) 875-3625
mjseptic@mjseptic.com
www.mjseptic.com

To keep your system functioning properly, regular maintenance is required. No matter how well the system is maintained or how well your aerobic system is designed and household usage, there will be parts that need to be replaced. Some are less expensive (and more common) like diffuser bars (if required, not all brands use diffusers), filters, sprinkler heads, airline, float switches, timers, audio and visual alarms, etc. Some are more expensive like sprinkler pumps, air compressors and septic tank cleanings, etc. With owning an aerobic system, you should expect to have parts replaced and it needing to be cleaned/pumped out. The life span of each part of your system will vary depending upon how many people use your system, how much water is used, what types of food you eat, what medicines are taken, the type of cleaning chemicals being used in the household, what you flush down the commode and of course the regular life expectancy for each functioning part, etc.
Some of the items checked during routine inspections that may need to be replaced or repaired according to their life span. These items include, but are not limited to: air compressor (aerator), a/c filters, filter pads, diffuser bars, sprinkler pumps (irrigation pumps), control panels, electrical circuit boards, float switches, timers, audio alarms, visual alarms, airline, photocell, toggle switches, wires, junction boxes, risers and/or lids, sprinkler heads, chlorinators, etc.
Below are some recommendations that will help you keep maintenance costs down and will help your aerobic system function properly.

- **RED LIGHT ALARMS:** if your alarm turns on, don't be alarmed (it usually isn't an emergency) Please call our office and schedule a service call with our office. If we are closed (after hours, weekends or holidays), please leave (1) voicemail at (210) 875-3625. You may also send a text to this number. You may email us to leave a request at mjseptic@mjseptic.com if you are unable to call or text. We will make a work order for the next available business day. During this time, you as the homeowner need to reduce all non-essential water usage. Don't wait days to report red light alarms! Please note, in extreme weather conditions, excessive heavy rains can and will cause your septic alarm and sprinkler heads to discharge, this is normal, the water is being relieved from the tank. If your alarm light stays on well after the rains have ceased, please call us to get a technician out to your property.
- **POWER:** In the event of a red-light alarm or at any other time NEVER shut off the power to your system!
- **IRRIGATION SYSTEMS (lawn care) & ALTERATIONS TO THE SYSTEM:** Avoid spraying your irrigation system in the same areas as your septic spray areas. This will cause over saturation to the lawn. Homeowners, landscapers, irrigation and pool companies should NEVER replace or tamper with your aerobic system, including the spray heads. Doing so will void any warranties (if applicable) and may result in additional costs to the homeowner for necessary repairs to bring the system back into compliance. For any changes wanted or needed for swimming pools, decks, sport courts, patios or irrigation systems, it is the homeowner's responsibility to call MJ Septic, LLC at (210) 875-3625 to assist in taking the necessary measures to have alterations made. This usually requires the system to be redesigned by one of our septic designers and re-permitted with your respective county. Do not build over any part of the aerobic system (the sprinklers can only be applied to natural vegetation surfaces!) Do not landscape over any part of the aerobic system (trees, plants, flowers, etc.) Do not allow ants to mound by any part of the aerobic system. Ant killers can be used to treat if mounds occur. (Ants will ruin electrical components and void any warranties if applicable) Keep all vegetation mowed and trimmed around the entire system, including the spray heads & spray area. If the technician cannot access the system due to overgrown grass, weeds, bushes, etc. there will be a service call charge assessed to return for inspection.
- **CHLORINE (tablets & liquid):** Never store your tablets near water heaters or in your water heater closet. Keep chlorine away from gas and electricity. It is always best to store it in a cool, dry and well-ventilated area.
  **** For tablet chlorinators**: use only chlorine that is designed to treat wastewater! Calcium Hypochlorite tablets are available at your local Home Depot or Lowe's. We do not sell them. NEVER USE SWIMMING POOL TABLETS! (mixing pool tablets with wastewater tablets could cause a dangerous volatile reaction. When the chlorinator is completely empty, do not add more than 4-5 tablets at a time to prevent the chlorinator from clogging.
  **** For liquid chlorinators:** you may use liquid chlorine/bleach (same bleach used to wash whites) When the chlorinator is completely empty, add no more than 3 ½ gallons of liquid chlorine bleach at a time. We recommend 2-3 gallons monthly (this will vary depending on how much water is used in the home per month) Do not tamper with chlorinators! This will void any warranties (if applicable).
- **MISC INFO I:** An aerobic system should not be treated as a city sewer. Economy in the use of water helps prevent overloading the system. Leaky faucets, running commodes, etc. should be guarded against as well. Avoid doing all your laundry in the same day (you must space out 1-2 loads daily); surges of water entering the system can and will hydraulically overload the system and throw off the balance of bacteria, which will not allow your waste to break down properly.
- **MISC INFO II:** Items flushed down commodes and/or poured down the drains DO NOT disappear; they must be treated by the system! Aerobic systems are designed to treat domestic wastewater and most toilet paper (read labels). Things that can harm your system include, but are not limited to are: excessive use of garbage disposal (very light use is okay, only if necessary, otherwise it is strongly recommended against!) fat, grease, oils, too many harsh cleaners, excessive use of fabric softener, excessive use of bleach, cigarette butts, feminine wipes, baby wipes, facial wipes, cleaning wipes, any type of wipes, feminine products, paper towels, condoms, q-tips, paint and/or paint thinners, varnishes, drain cleaners, automatic toilet bowl cleaners, hair combings, pet hair, coffee grounds, fruit, fruit peels, dental floss, any type of diapers, kitty litter, gauze bandages, unused medications, etc. Items such as these even though they may say "flushable" or "septic safe" still may not be ultimately safe for your aerobic treatment unit and cannot potentially cause the homeowner additional expenses for repairs and pumping.
- **MISC INFO III:** We take sludge level readings at every routine inspection (every four months) unless the system has been shut off/power failure or the system is overflowing. We always recommend cleaning/pumping of the system when levels reach 10-12" of sludge. *A typical/average household will need to have their system cleaned/pumped every 2-5 years; this all depends on usage and WILL VARY per HOUSEHOLD! This fee is NOT included in your annual maintenance contract agreement.

STATE OF TEXAS WELL REPORT for Tracking #19077

Owner:	**NEYSO**	Owner Well #:	**Well # 5**
Address:	**PoBox 17931** **San Antonio, TX 78217**	Grid #:	**68-21-1**
		Latitude:	**29° 43' 40" N**
Well Location:	**Specht Rd.** **Bulverde, TX 78163**	Longitude:	**098° 29' 51" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **2/15/2003** Drilling End Date: **2/21/2003**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**280**
	6	**280**	**480**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**280**	**45**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **1000**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **visual**

Surface Completion: **Surface Slab Installed**

Water Level: **242 ft.** below land surface on **2003-02-21** Measurement Method: **Unknown**

Packers: **rubber 280**

Type of Pump: **Submersible** Pump Depth (ft.): **420**

Well Tests: **Jetted** **Yield: 40 GPM after 1 hours, no drawdown specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Hood Drilling**

1146 Crown Dr.
Bulverde, TX 78163

Driller Name: **Jose Martinez** License Number: **2872**

Apprentice Name: **Brian Hood**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	20	Top Soil
20	100	Tan lime
100	160	Lt.gray lime
160	220	Lt.gray lime few shale st.
220	320	Lt.gray lime
320	360	Lt.gray lime few intermitten frac.
360	400	Gray lime
400	468	Lt.Brown lime few intermitten frac.
468	478	Gray lime
468	480	Shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	New	Plastic sdr-21	0-280 blank

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

National Flood Hazard Layer FIRMette

FEMA

98°30'10"W 29°44'5"N

98°29'33"W 29°43'34"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

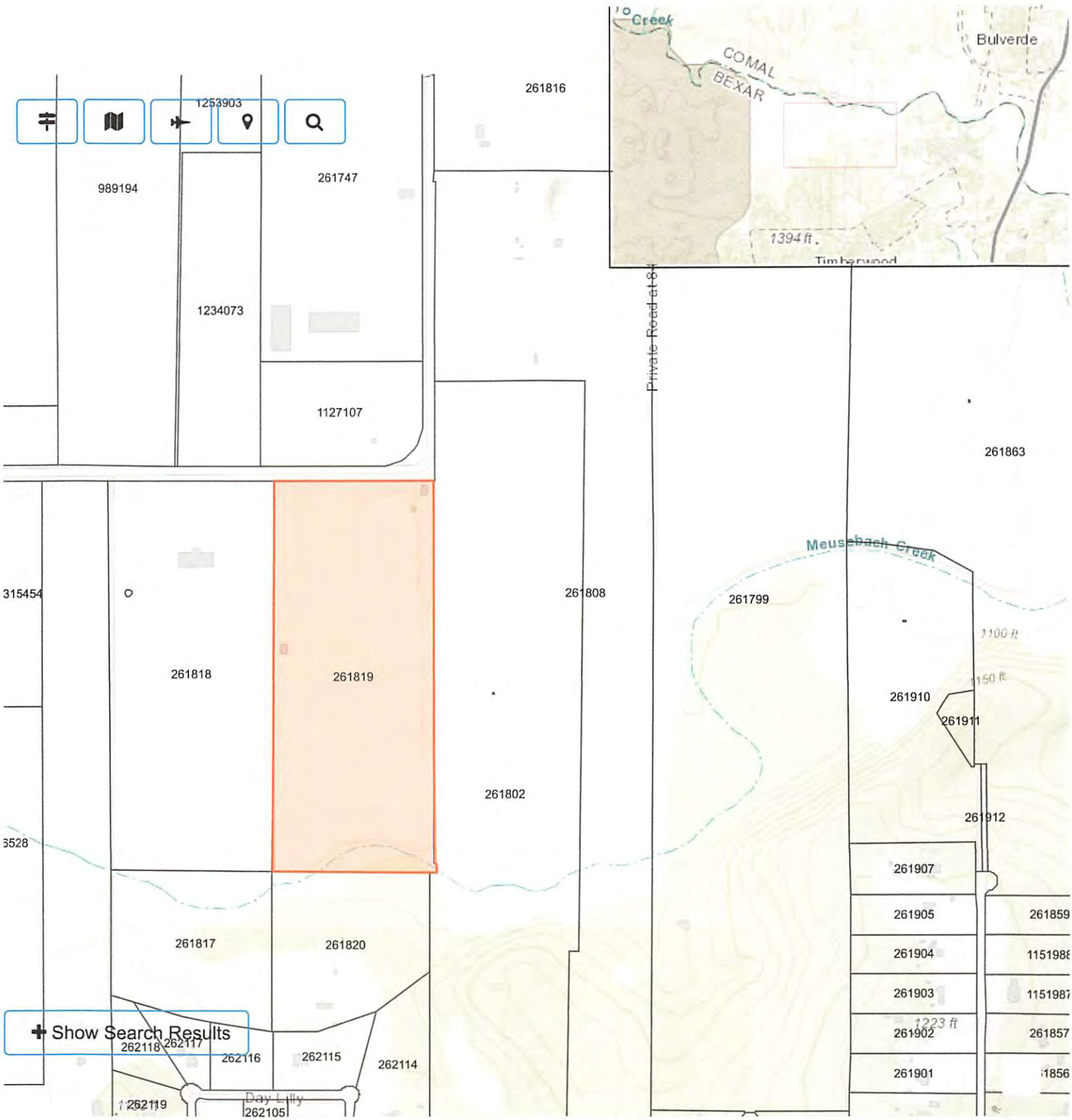
N

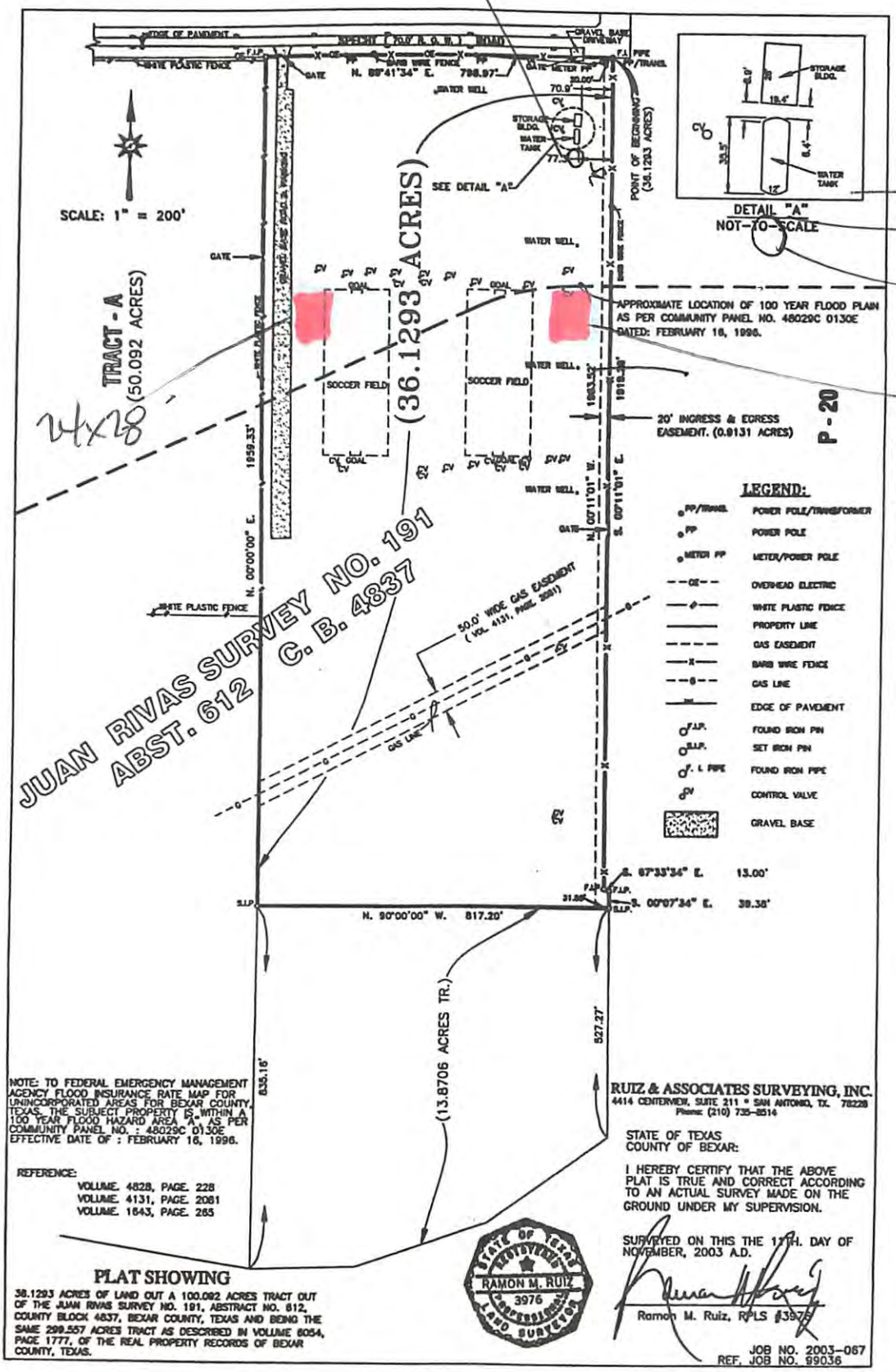
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/8/2022 at 11:45 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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


Creek
Bulverde
COMAL
BEXAR
1394 ft.
Timberwood
1253903
261816
989194
261747
1234073
1127107
Private Road at 84
261863
Meusebach Creek
315454
261808
261799
1100 ft
261818
261819
1150 ft
261910
261911
261802
261912
3528
261907
261905
261859
261817
261820
261904
1151988
261903
1151987
1223 ft
261902
261857
261901
1856
Show Search Results
262118
262117
262116
262115
262114
262119
Day Lilly
262105
0.2km
600ft



NOTE: TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR UNINCORPORATED AREAS FOR BEXAR COUNTY, TEXAS, THE SUBJECT PROPERTY IS WITHIN A 100 YEAR FLOOD HAZARD AREA "A" AS PER COMMUNITY PANEL NO. : 48029C 0130E EFFECTIVE DATE OF : FEBRUARY 16, 1996.

REFERENCE:
VOLUME. 4828, PAGE. 228
VOLUME. 4131, PAGE. 2081
VOLUME. 1643, PAGE. 285

PLAT SHOWING

38.1293 ACRES OF LAND OUT A 100.092 ACRES TRACT OUT OF THE JUAN RIVAS SURVEY NO. 191, ABSTRACT NO. 612, COUNTY BLOCK 4837, BEXAR COUNTY, TEXAS AND BEING THE SAME 299.557 ACRES TRACT AS DESCRIBED IN VOLUME 6054, PAGE 1777, OF THE REAL PROPERTY RECORDS OF BEXAR COUNTY, TEXAS.

RUIZ & ASSOCIATES SURVEYING, INC.
4414 CENTERVIEW, SUITE 211 • SAN ANTONIO, TX. 78228
Phone: (210) 735-8514

STATE OF TEXAS
COUNTY OF BEXAR:

I HEREBY CERTIFY THAT THE ABOVE PLAT IS TRUE AND CORRECT ACCORDING TO AN ACTUAL SURVEY MADE ON THE GROUND UNDER MY SUPERVISION.

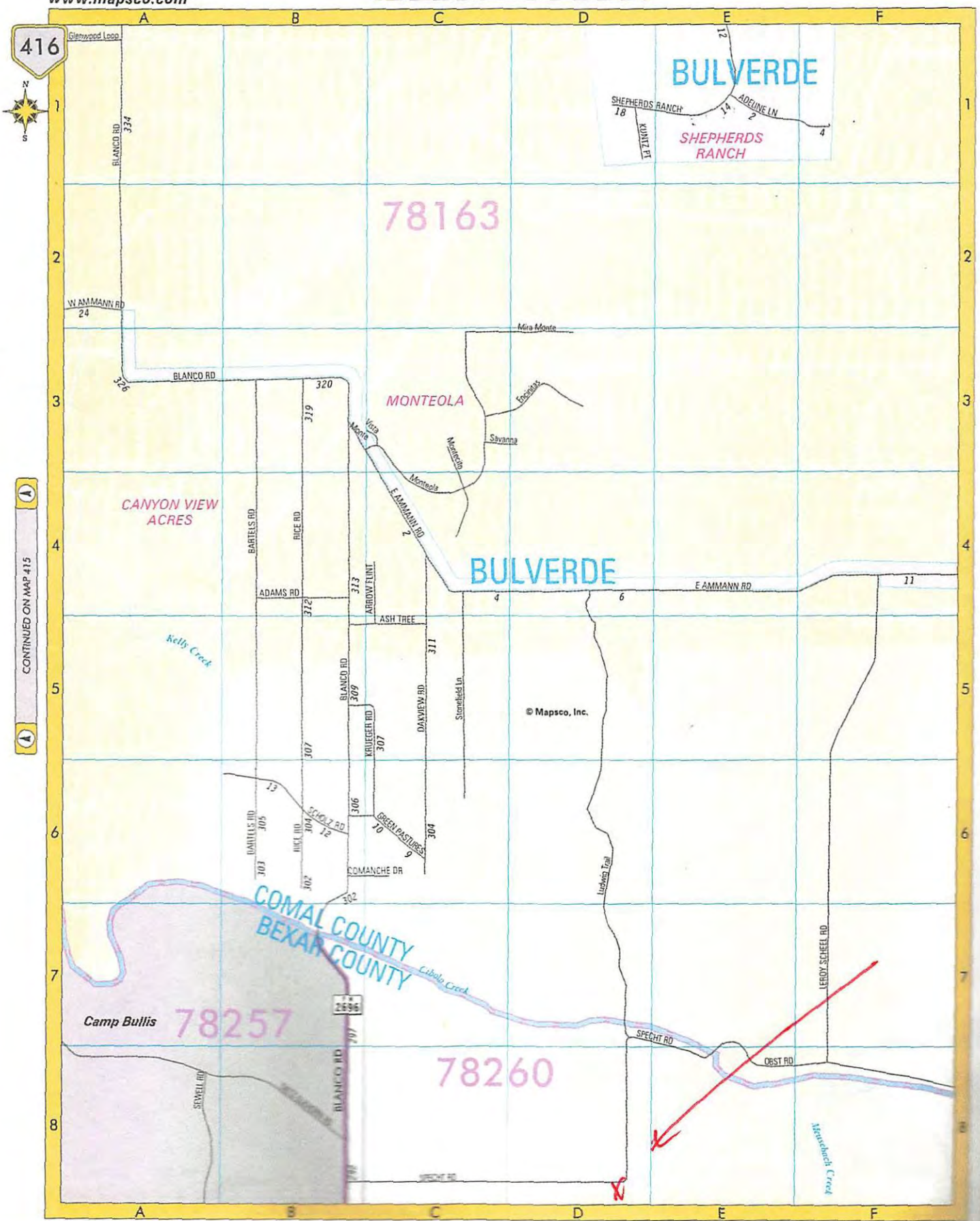
SURVEYED ON THIS THE 17TH. DAY OF NOVEMBER, 2003 A.D.

STATE OF TEXAS · REGISTERED · RAMON M. RUIZ 3976 · LAND SURVEYOR

Ramon M. Ruiz, RPLS #3976

JOB NO. 2003-067
REF. JOB NO. 99036

CONTINUED IN COMAL-GUADALUPE MAPSCO ON MAP 382



SCALE IN MILES
0 1/8 1/4 3/8 1/2

SCALE IN FEET
0 1000 2000

WPAP
SITE PLAN AND PROPOSED RESTROOM DRAWINGS

LEGEND

- PROPERTY BOUNDARY
- SOIL DISTURBANCE/ PROPOSED SODDING (25.77 Ac.)
- EXISTING ELECTRIC
- EXISTING IRRIGATION
- EXISTING WATER
- EXISTING LIGHT POLE
- EXISTING UTLITY POLE
- EXISTING GAS METER
- EXISTING WELL

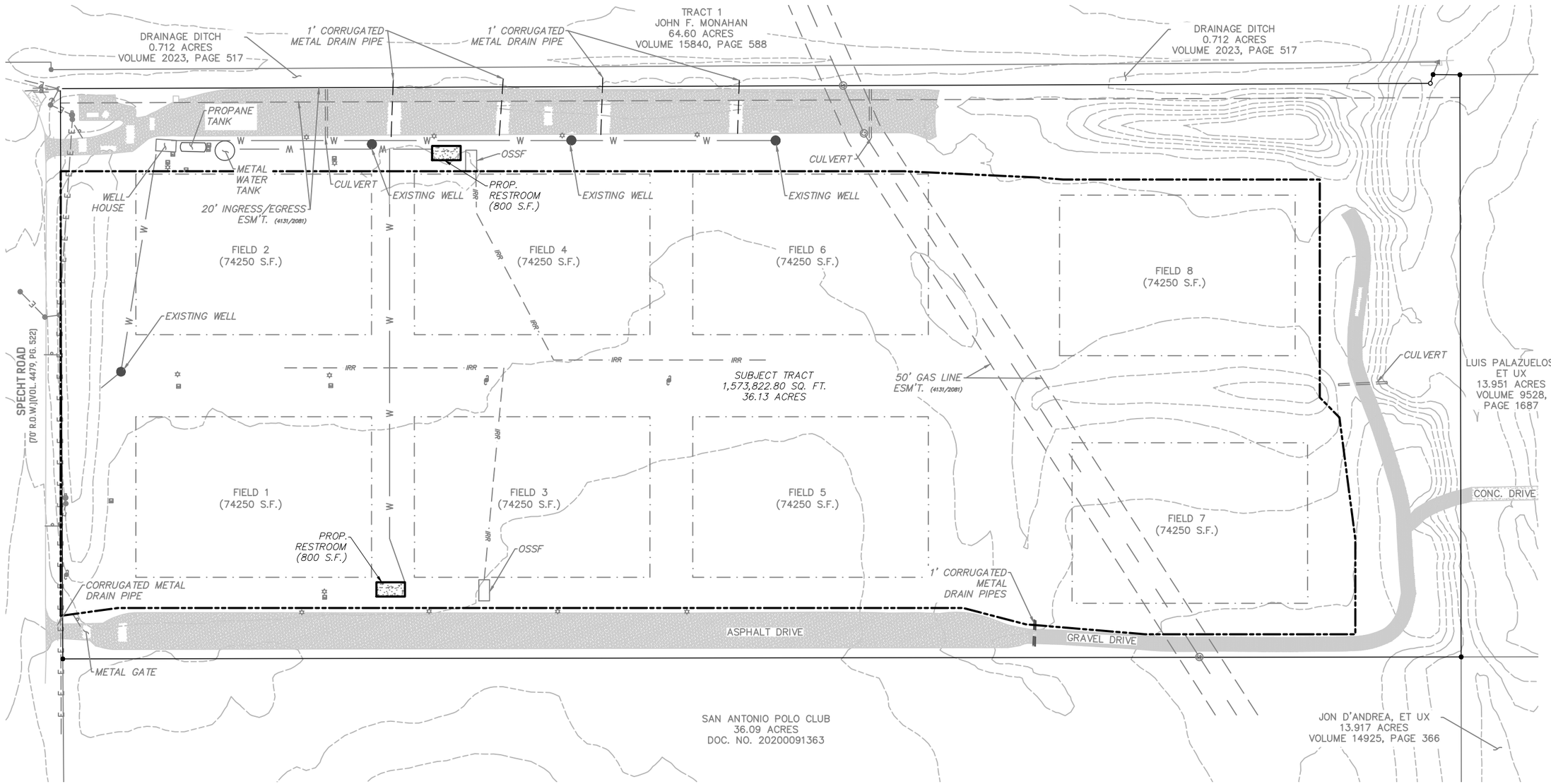
SITE PLAN NOTES

1. THIS SITE PLAN QUALIFIES FOR THE "20% OR LESS IMPERVIOUS COVER WAIVER" AND NO PERMANENT BMPs ARE REQUIRED.
2. THIS SITE PLAN SHOWS EXISTING AND PROPOSED IMPROVEMENTS.
3. THIS SITE PLAN UTILIZES EXISTING TOPOGRAPHY AND GRADING. NO PROPOSED GRADING IS REQUIRED.
4. THE INTENDED USE FOR THIS SITE PLAN IS FOR AN EDWARDS AQUIFER WATER POLLUTION ABATEMENT PLAN.

STATE OF TEXAS
SEAN P. McFARLAND
138893
LICENSED
PROFESSIONAL ENGINEER

03/22/2024

SCALE: 1"=150'
150 75 0 150



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San Antonio, Texas 78231
P: 210.681.2951 F: 210.523.7112

ALAMO CITY STORM SOCCER CLUB

SITE PLAN

DATE
03/07/2024

PROJECT NO.
04435.00

DRAWN BY
JTW

CHECKED BY
SPM

CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C1

P:\04335\000\2-DWG\4-Plans\01_00 SITE.dwg 2024/03/07 9:09am jwatkins

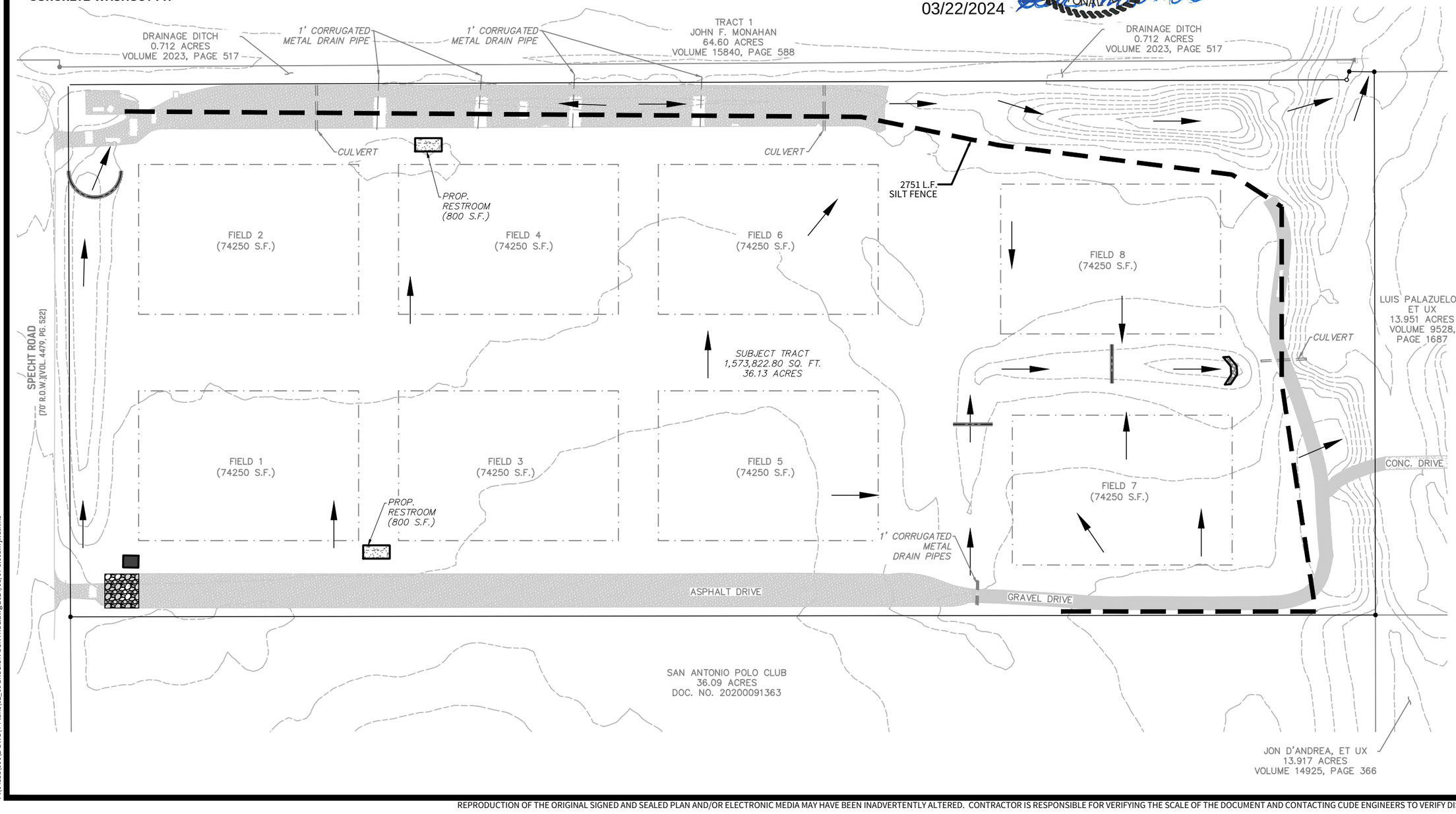
LEGEND

- PROPERTY BOUNDARY
- EROSION CONTROL LOG
- SILT FENCE
- FLOW
- ROCK BERM
- FOD (CONSTRUCTION ENTRANCE/EXIT)
- CONCRETE WASHOUT PIT

STATE OF TEXAS
SEAN P. McFARLAND
138893
LICENSED
PROFESSIONAL ENGINEER

03/22/2024

SCALE: 1"=150'
150 75 0 150



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San Antonio, Texas 78231
P: 210.681.2951 F: 210.523.7112

ALAMO CITY STORM SOCCER CLUB

EROSION CONTROL PLAN

DATE
03/07/2024

PROJECT NO.
04435.00

DRAWN BY
JTW

CHECKED BY
SPM

CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C2

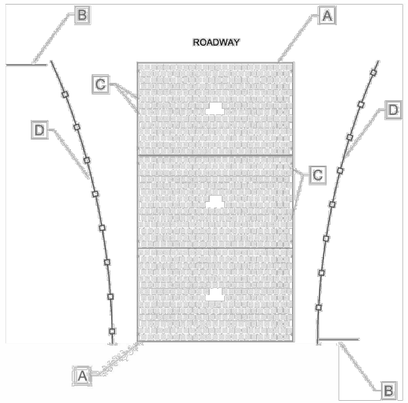
P:\04335\000\2-DWG\4-Plans\02_00 EROSION CONTROL.dwg 2024/03/07 9:00am jwatkins

FODS TRACKOUT CONTROL SYSTEM INSTALLATION

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM. (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES:

A. FODS TRACKOUT CONTROL SYSTEM MAT.
B. FODS SAFETY SIGN.
C. ANCHOR POINT.
D. SILT OR ORANGE CONSTRUCTION FENCE.



TYPICAL ONE-LANE LAYOUT

INSTALLATION:

1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
2. CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN ADVANCE OF THE OF FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811.
3. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION.
4. THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.
8. AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
9. AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT.
10. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.
11. NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
12. UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
13. SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM REPEATING THE ABOVE STEPS.

USE AND MAINTENANCE:

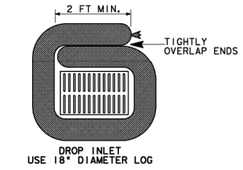
1. VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
2. DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TURN ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM.
3. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
4. THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP.

REMOVAL

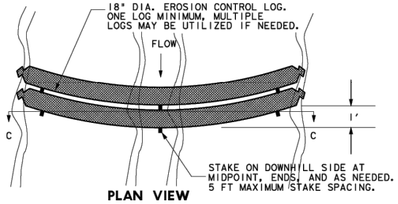
1. REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION.
2. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST.
3. THE ANCHORS SHOULD BE REMOVED.
4. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM.
5. STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUCK FOR REMOVAL FROM THE SITE.

DROP INLETS AND OTHER LOCATIONS
18" DIAMETER LOGS

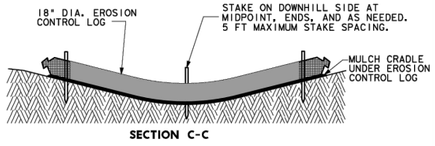
ITEM 5049-2002 BIODGRD EROSION CONTROL LOGS (18" DIA) LF



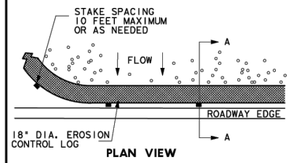
DROP INLETS



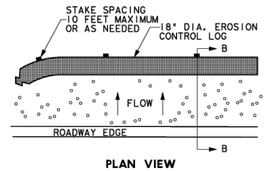
PLAN VIEW



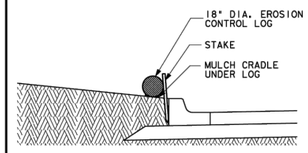
DRAINAGE SWALE OR DITCH



PLAN VIEW

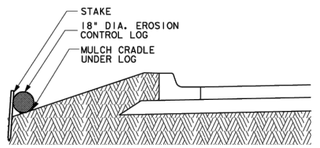


PLAN VIEW



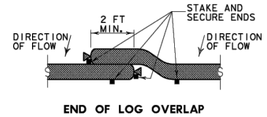
SECTION A-A

SLOPE TO ROADWAY EDGE



SECTION B-B

SLOPE AWAY FROM ROADWAY EDGE



END OF LOG OVERLAP

STATE OF TEXAS
SEAN P. McFARLAND
138893
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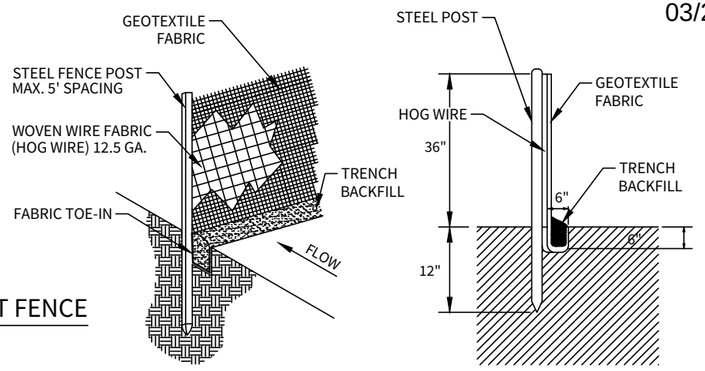
PROFESSIONAL ENGINEER

03/22/2024

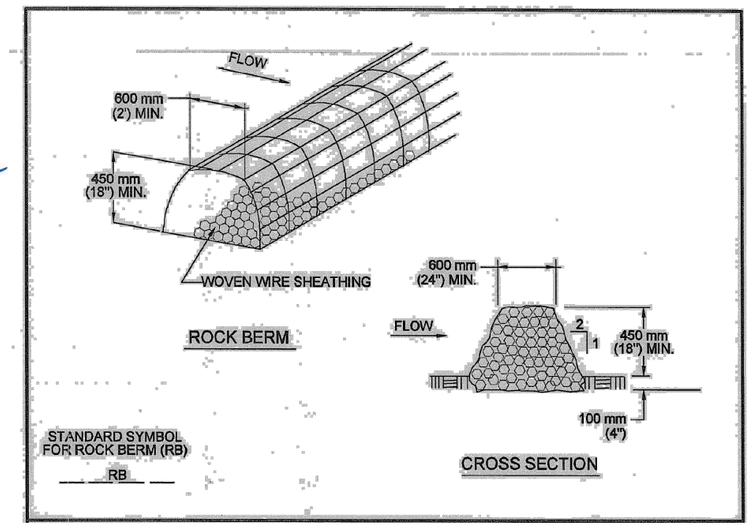


STANDARD SILT FENCE

N.T.S.

SILT FENCE DETAIL

SECTION DETAIL



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ALAMO CITY STORM SOCCER CLUB

EROSION CONTROL DETAILS

DATE
03/07/2024

PROJECT NO.
04435.00

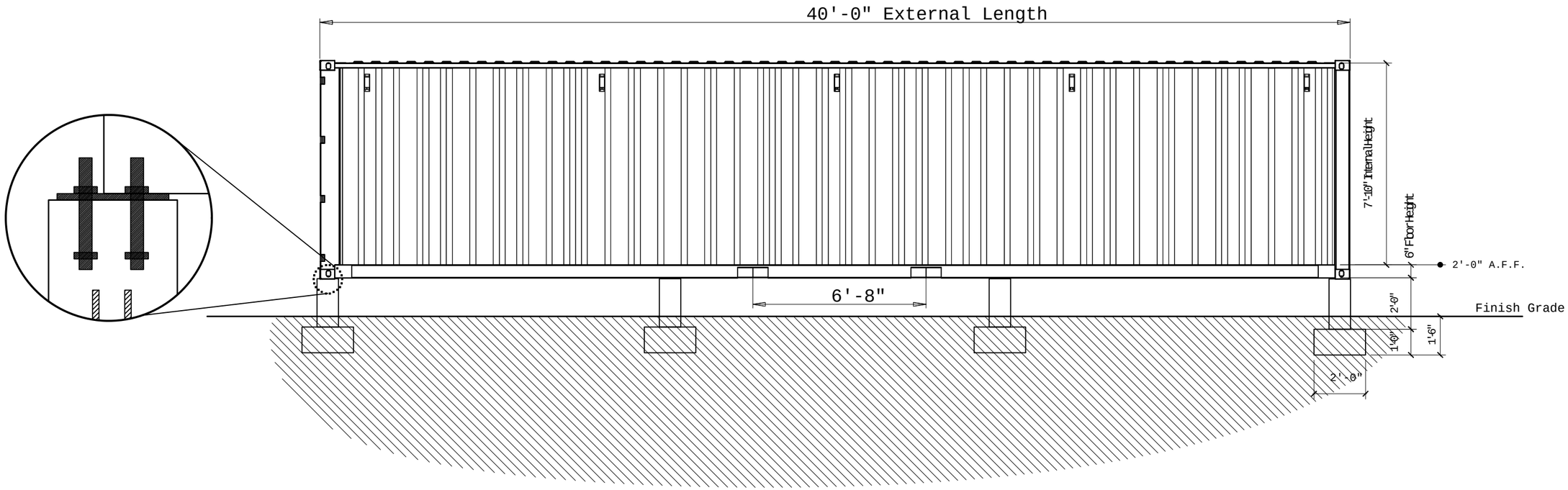
DRAWN BY
JTW

CHECKED BY
SPM

CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C2.1

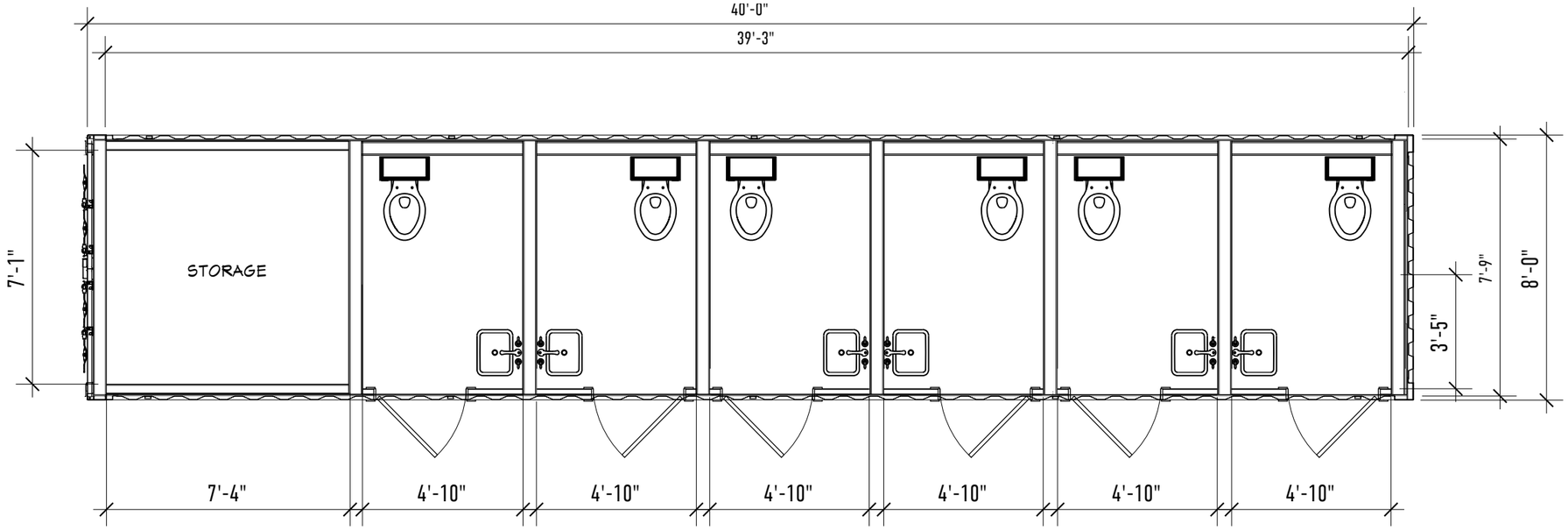
C:_CADTemp\AcPublish_42040\02_01 DETAILS.dwg 2024/03/07 9:02am jwatkins



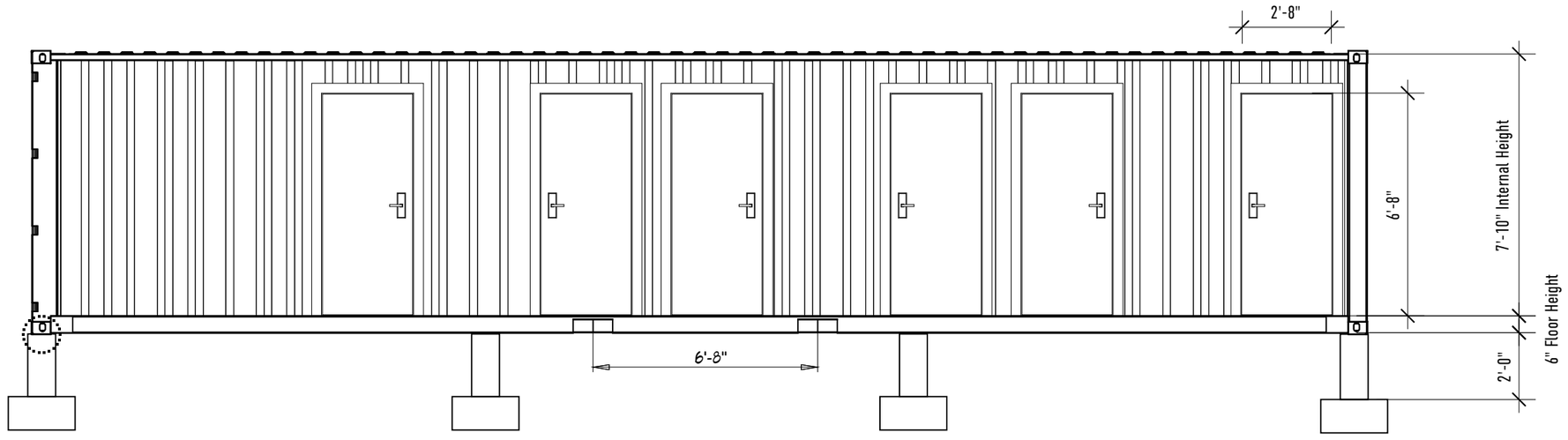
PROJECT: SA City Soccer Club Bathroom Containers		
DESCRIPTION: 40' Standard Container		A1
SCALE: 1:48 (UNLESS STATED OTHERWISE)	SHEET 1 OF 1	

PROJECT SPECHTS SPORTS COMPLEX	CLIENT SA CITY SOCCER CLUB	ADDRESS 204 W Specht Rd, San Antonio, TX 78260	PLAN MULTI-USE RESTROOM	DATE 06/15/2023

PROJECT SPECHTS SPORTS COMPLEX	CLIENT SA CITY SOCCER CLUB	ADDRESS 204 W Specht Rd, San Antonio, TX 78260	PLAN MULTI-USE RESTROOM	DATE 06/15/2023

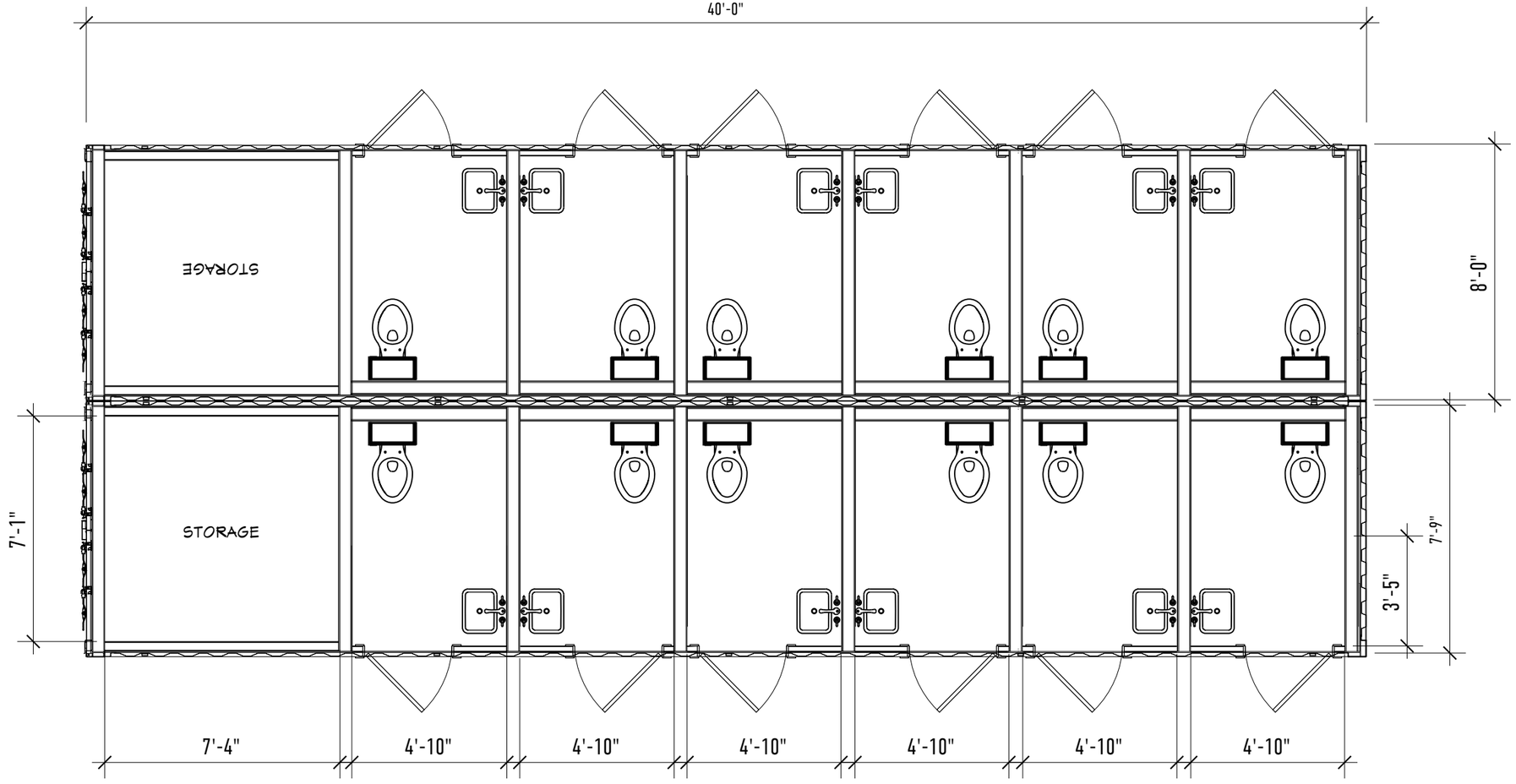


FLOOR PLAN



FRONT ELEVATION

PROJECT	CLIENT	ADDRESS	PLAN	DATE
SPECHTS SPORTS COMPLEX	SA CITY SOCCER CLUB	204 W Specht Rd, San Antonio, TX 78260	MULTI-USE RESTROOM	06/15/2023



FLOOR PLAN

PROJECT	CLIENT	ADDRESS	PLAN	DATE
SPECHTS SPORTS COMPLEX	SA CITY SOCCER CLUB	204 W Specht Rd, San Antonio, TX 78260	MULTI-USE RESTROOM	06/15/2023

ALAMO CITY STORM SOCCER CLUB

TEMPORARY STORMWATER SECTION

CUDE ENGINEERS
SAN ANTONIO | AUSTIN

4122 POND HILL ROAD, STE 101
SAN ANTONIO, TEXAS 78231

PHONE: (210) 681-2951
CUDEENGINEERS.COM

TBPE NO. 455
TBPLS NO. 10048500

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: Sean McFarland, PE

Date: 03/07/24

Signature of Customer/Agent:

Sean McFarland

Regulated Entity Name: RN111723730

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☐ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

☐ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Muesebach Creek , Cibolo Creek Segment No. 1908 in the San Antonio River Basin

Temporary Best Management Practices (TBMPs)

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

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

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☐ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☐ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A
SPILL RESPONSE ACTIONS

Spill Prevention and Control

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

The following steps will help reduce the storm water impacts of leaks and spills:

Education

(1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.

(2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.

(3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).

(4) Establish a continuing education program to indoctrinate new employees.

(5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

(1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, and 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. See the waste management BMPs in this section for specific information.

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:

a) Contain the spread of the spill.

b) Recover spilled materials.

c) 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 are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at:
http://www.tnrcc.state.tx.us/enforcement/emergency_response.html.

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 runon 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 03 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.

Spill Response Actions

In the event that a spill of hydrocarbons or hazardous substances does occur, the contractor shall be required to maintain a sufficient stockpile of sand material in the staging area. This sand material shall be used to immediately isolate and provide containment of the spill by constructing dikes. Furthermore, this sand material shall act as an absorbent material that can be disposed of offsite and out of the Recharge Zone during clean-up operations. The contractor, in the event of a spill, shall also notify the owner who shall contact TCEQ. All contaminated soils resulting from an accidental release will be required to be removed and disposed of in accordance with all local, state and federal regulations.

ATTACHMENT B
Potential Sources of Contamination

Potential Source	Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping.
Preventive Measure	Vehicle maintenance, when possible, will be performed within a construction staging area specified by the General Contractor.
Potential Source	Miscellaneous trash and litter from construction workers and material wrappings.
Preventive Measure	Trash containers will be placed throughout the site to encourage proper trash disposal.
Potential Source	Construction debris.
Preventive Measure	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	Stormwater contamination from excess application of fertilizers, herbicides and pesticides.
Preventive Measure	Fertilizers, herbicides and pesticides will be applied only when necessary and in accordance with manufacturers directions.
Potential Source	Soil and mud from construction vehicle tires as they leave the site.
Preventive Measure	A temporary construction entrance/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 stockpiled on site.
Preventive Measure	Silt fence shall be installed on the down gradient side of all stockpiled materials. Reinforced rock berms shall be installed at all downstream discharge locations.
Potential Source	Portable toilet spill
Preventive Measure	Toilets on the site will be emptied on a regular basis by the contracted toilet company.

ATTACHMENT C
Sequence of Major Activities

Sequence Item	Description	Approximate Acres Disturbed
1.	Proposed Sodding	**25.77**
2.	Proposed Construction of two (2) Restroom Facilities	**0.0367**

ATTACHMENT D
Temporary Best Management Practices and Measures

The TBMPs and measures utilized for the proposed project to prevent pollution of storm water, groundwater, and surface water during the construction phase are the following:

1. Temporary Construction Entrance/Exit – A stabilized pad of crushed stone located at any point where traffic will be entering or leaving the construction site from a public R.O.W., street, alley, sidewalk or parking area. It shall be a minimum of 50 feet long, 12 feet wide and 8 inches thick. The rock shall be 4 to 8 inches in size.

2. Silt Fence – A barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. Silt fences shall be installed on the down gradient side of the proposed areas to be disturbed that have a drainage area of 2 or less acres.

3. Rock Berms – A structure of 3 to 5 inch diameter rock secured with a woven wire sheath to serve as a check dam in areas of concentrated flow, to intercept sediment-laden runoff, detain the sediment and release the water in sheet flow.

5. Temporary Seeding – Temporary seeding of disturbed areas shall be performed if disturbed areas are expected to have no construction activity for a period of at least 21 days.

<u>Sequence of installation during construction process</u>

1. The Temporary Construction Entrance/Exit shall be installed prior to disturbing any soil except at the location of the Temporary Construction Entrance/Exit. It shall stay in place and be maintained until the end of the infrastructure construction.

2. Silt Fence will be installed along the down gradient side of the proposed site prior to disturbing any soil. It shall stay in place and be maintained until the site has been properly revegetated.

3. Rock Berms – Rock berms shall be installed around the perimeter of the project at natural low points following rough grading of the site and shall be removed once grading to the on-site stormwater drainage system with bagged gravel inlet filters in sump is complete. Rock berms will also be utilized at the outlet of the pond while it is being constructed.

<u>Upgradient Surface water, Groundwater, and Storm water</u>

As the scope of this modification is limited to Hidden Canyon Subdivision, there is surface water, ground water, or storm water originating from up gradient of the limits of the WPAP modification. The Hidden Canyon Subdivision is part of a 481-acre shed that drains towards seven existing 6' corrugated metal pipes located under Canyon Golf Road. There is roughly 365 upgradient acres that drain to the project site limits of this WPAP.

Onsite Surface water, Groundwater, and Storm water

Temporary BMPs utilized on the proposed project site to prevent pollution of onsite surface water, groundwater, and storm water are the silt fences acting as barriers to prevent pollution of stormwater.

Prevention of Pollutants Entering Surface Streams, Sensitive Features, and the Aquifer

Temporary BMPs utilized on the proposed project site to prevent pollution of surface streams, sensitive features, and the aquifer are temporary construction entrance/exit, silt fences, and rock berms. The construction entrance/exit provides a stable exit from the construction site and keeps sediment and mud off public roads. The other TBMPs delineated act in like manner as previously described to protect surface streams, sensitive features, and the aquifer.

Maintenance of Flow to Naturally-Occurring Sensitive Features

There are naturally occurring sensitive features identified on the proposed site. A 200' upstream buffer and 50' buffer on all other sides is provided around the sensitive feature.

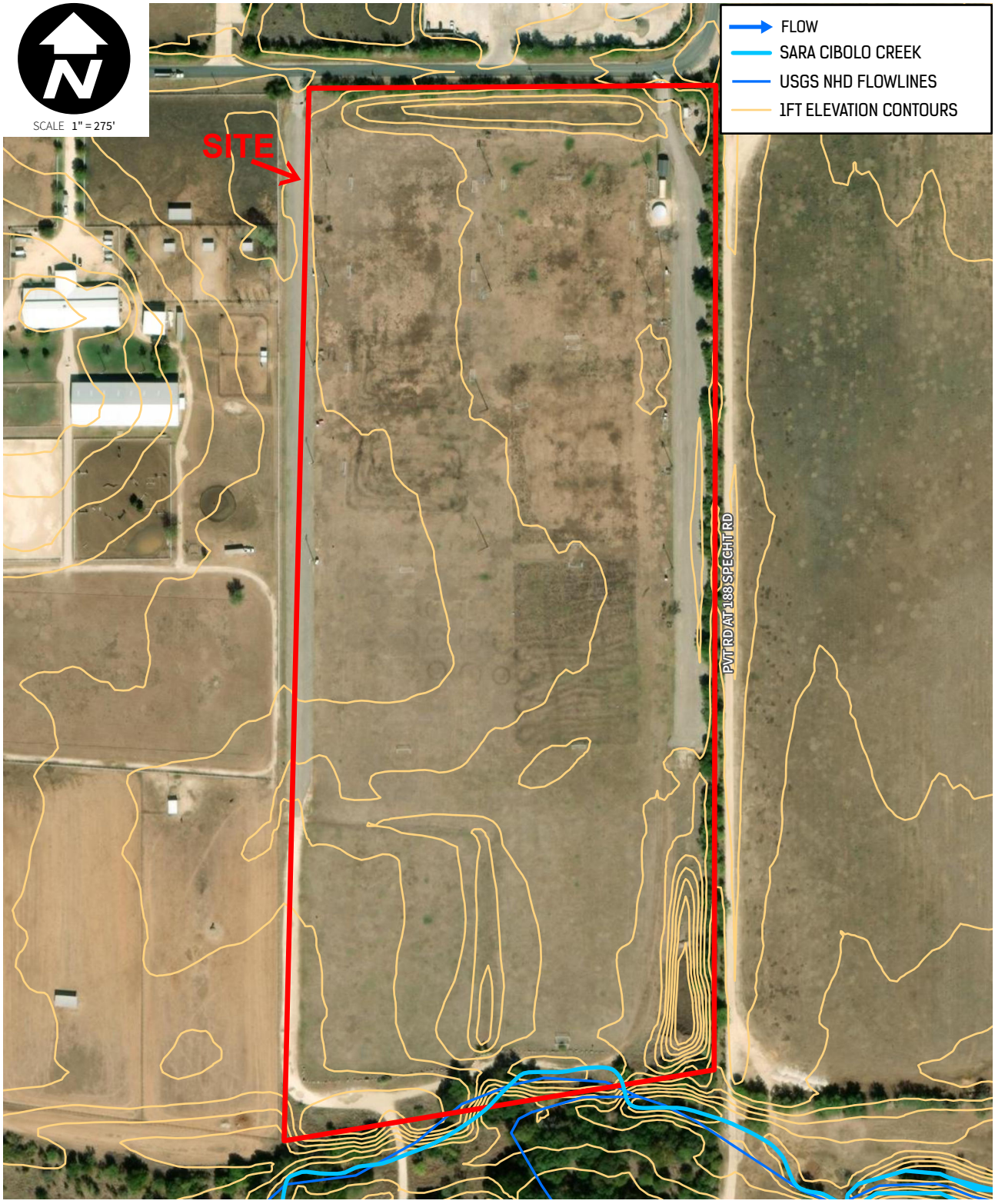
ATTACHMENT E
Request to Temporarily Seal a Feature

Not applicable to this project

ATTACHMENT F
Structural Practices

Runoff discharge of pollutants from exposed areas of the site will be limited through the utilization of temporary BMPs. Prior to leaving the site, flows containing pollutant discharges will be treated by a silt fence, or rock berms which will limit the amount of pollutants leaving the site.

ATTACHMENT G
Drainage Area Map



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TBPLS No. 10048500

ALAMO CITY STORM SOCCER CLUB

EXHIBIT G

DATE: 3/5/2024 **JOB NO.:** # 04335.000

ATTACHMENT H
Temporary Sediment Pond(s) Plans and Calculations

Not applicable to this project

ATTACHMENT I
Inspection and Maintenance for BMPs

Temporary Sediment Control Fences

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Rock Berm/High Service Rock Berm

1. Inspections should be made weekly and after each rainfall by the responsible party.
2. Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt of in an approved manner.
3. Repair any loose wire sheathing.
4. The berm should be reshaped as needed during inspection.
5. The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
6. The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.

Temporary Construction Entrance and Exits

1. The entrance should be maintained in a condition, which will prevent tracking or following of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
2. All sediment spilled, dropped, washed or tracked on to public rights-of-ways should be removed immediately by contractor.
3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
5. All sediment should be prevented from entering ant storm drain, ditch, or water course by using approved methods.

Documentation Procedures

1. A copy of the inspection report is located on the following page.
2. The inspection report must be maintained on site at all times.
3. The inspection report is incorporated as part of the WPAP. The contractor is responsible for completing and updating the form in compliance with TCEQ rules.

Inspections

Designated and qualified person(s) shall inspect Pollution Control Measures every fourteen days and within 24 hours after a storm event greater than 0.5 inches of rainfall. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm Water TPDES data for a period of three years after the date of the inspection. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, and (6) concrete truck rinse-out pit for signs of potential failure. Deficiencies noted during the inspection will be corrected and documented within seven (7) calendar days following the inspection or before the next anticipated storm event if practicable.

ATTACHMENT I
Inspection and Maintenance for BMPs

Note: Inspector is to attach a brief statement of his qualifications to this report.

ATTACHMENT I
Inspection and Maintenance for BMPs

Pollution Prevention Measure		Inspected	Corrective Action	
			Description	Date Completed
Silt Fence	Inspections			
	Fencing			
	Sediment Removal			
	Torn Fabric			
	Crushed/Collapsed Fencing			
Construction Entrance/Exit	Inspections			
	Additional top Dressing			
	Repair/Cleanout			
	Sediment removed immediately			
	Sediment removal			
	Device placement			
	Torn Fabric			
Rock Berm	Inspections			
	Fencing			
	Sediment Removal			
	Torn Fabric			
	Crushed/Collapsed Fencing			

**Indicate N/A where measure does not apply.*

By my signature below, I certify that all items are acceptable and the project site is in compliance with SWPPP.

Inspector's Name _____ Inspector's Signature _____

Name of Owner/Operator (Firm) _____ Date _____

ATTACHMENT I

Inspection and Maintenance for BMPs

Pollution Prevention Measure	Inspected	Corrective Action	
		Description	Date Completed
General			
Revegetation			
Sodding (Soccer Fields)			
Erosion/Sediment Controls			
Vehicle Exits			
Material Areas			
Equipment Areas			
Concrete Rinse			
Construction Debris			
Trash Receptacles			
Site Cleanups			
Building			
Foundation Grading			
Utility Construction			
Foundation Construction			
Restroom Building Construction			
Site Cleanup			

**Indicate N/A where measure does not apply.*

By my signature below, I certify that all items are acceptable and the project site is in compliance with SWPPP.

Inspector's Name _____ Inspector's Signature _____

Name of Owner/Operator (Firm) _____ Date _____

ATTACHMENT I
Inspection and Maintenance for BMPs

PROJECT MILESTONE DATES:

Date when major site grading activities begin:

Construction Activity	Date

Dates when construction activities temporarily or permanently cease on all or a portion of the project:

Construction Activity	Date

Date when stabilization measures are initiated:

Stabilization Activity	Date

ATTACHMENT J
Schedule of Interim and Permanent Soil Stabilization Practices

1. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

2. Permanent seeding of individually disturbed areas shall be performed when infrastructure construction has been completed.

3. Permanent sodding and mulching of landscape areas shall occur at or near the completion of the project.

4. During construction, contractors shall, to the maximum extent possible, limit their construction activities to areas of construction as noted on the plans in an attempt to preserve as much natural vegetation as possible.

Seeding & Mulching Specifications

1. All seed must meet requirements of the Texas Seed Law including the labeling requirements. These labels shall show purity, germination, name and type of seed. Seed furnished shall be of the previous season's crop for the date of the project, and the date of analysis shown on each bag shall be within nine (9) months of the time of use on the project. Bermuda grass shall be hulled and treated and have a purity of 95% and germination of no less than 90%. Each variety of seed shall be furnished and delivered in separate bags or containers. A sample of each variety of seed shall be furnished for analysis and testing when directed by the Owner.

2. Annual Rye grass will be free of Johnson grass, field bindweed, dodder seed, and free of other seed to the limits allowable under the Federal Seed Act and applicable Texas Seed Law. Annual Rye grass will be added into slurry between October 1 and March 15.

3. Wood Cellulose Fiber Mulch. Wood cellulose fiber mulch shall be natural cellulose fiber mulch produced from grinding clean, whole wood chips, or fiber produced from ground

newsprint with a labeled ash content not to exceed 7%. The mulch shall be designed for use in conventional mechanical planting, hydraulic planting of seed or hydraulic mulching of grass seed, either alone or with fertilizer and other additives. The mulch shall be that when applied, the material shall form a strong, moisture-retaining mat without the need of an asphalt binder. The mulch material will also be dyed with a green color to assist in determining coverage and to provide an immediate pleasing appearance. The wood cellulose fiber is also required to be dispersed rapidly in water to form homogeneous slurry and remain in such state when agitated in the hydraulic mulching unit with specified materials.

4. Straw Mulch or Hay Mulch. Straw mulch shall be oat, wheat, or rice straw. Hay mulch shall be prairie grass, Bermuda grass or other hay as approved by the Owner. The straw mulch or hay mulch shall be free of Johnson grass or other noxious weeds and foreign materials. It shall be kept in a dry condition and shall not be molded or rotted.

Optimum Planting Dates	Common Names	Rate, lbs./acre
February 1 – May 1	Bermuda Grass	1.5
September 1 – November 30	Tall Fescue	4.0
	Oats	21.0*
	Wheat (Red, Winter)	30.0
September 1 – November 30	Hairy Vetch	8.0
May 1 – August 31	Foxtail Millet	30.0

ALAMO CITY STORM SOCCER CLUB

PERMANENT STORMWATER SECTION

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TBPE NO. 455
TBPLS NO. 10048500

Permanent Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Sean McFarland, PE

Date: 03/07/24

Signature of Customer/Agent

Sean McFarland

Regulated Entity Name: RN111723730

Permanent Best Management Practices (BMPs)

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

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

   ☒ N/A

2. ☐ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

   ☐ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

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

☒ N/A

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

   ☒ N/A

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

   ☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.
   ☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
   ☒ The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

   ☒ **Attachment A - 20% or Less Impervious Cover Waiver**. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
   ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
   ☐ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☐ **Attachment B - BMPs for Upgradient Stormwater**.

☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.

☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.

☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

7. ☐ **Attachment C - BMPs for On-site Stormwater**.

☐ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.

☒ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

8. ☐ **Attachment D - BMPs for Surface Streams**. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.

☒ N/A

9. ☐ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.

☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.

☐ **Attachment E - Request to Seal Features**. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.

10. ☐ **Attachment F - Construction Plans**. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:

☐ Design calculations (TSS removal calculations)
☐ TCEQ construction notes
☐ All geologic features
☐ All proposed structural BMP(s) plans and specifications

☒ N/A

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

    ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
    ☐ Signed by the owner or responsible party
    ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
    ☐ A discussion of record keeping procedures

    ☒ N/A

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

    ☐ N/A

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

    ☒ N/A

Responsibility for Maintenance of Permanent BMP(s)

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

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

    ☒ N/A

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

    ☒ N/A

ATTACHMENT A
20% or Less Impervious Cover Waiver

Approximately 0.0367 acres of impervious cover will be created with the development of this site. The total impervious cover for this proposed project will be approximately 0.01%. Due to the proposed impervious cover falling under 20% of the project site area, no permanent pollution abatement measure will be required.

IMPERVIOUS COVER CALCULATIONS		
RESTROOM (CONCRETE/ROOFTOP)	0.0367 Ac.	1,600 S.F.
TOTAL IMPERVIOUS COVER	0.0367 Ac.	1,600 S.F.
TOTAL AREA	36.13 Ac.	1,573,822.80 S.F.

ALAMO CITY STORM SOCCER CLUB

AGENT FORMS AND FEES SECTION

CUDE ENGINEERS
SAN ANTONIO | AUSTIN

4122 POND HILL ROAD, STE 101
SAN ANTONIO, TEXAS 78231

PHONE: (210) 681-2951
CUDEENGINEERS.COM

TBPE NO. 455
TBPLS NO. 10048500

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Alamo City Storm Soccer Club
Regulated Entity Location: 204 W. Specht Road, San Antonio, TX 78260
Name of Customer: Alamo City Storm Soccer Club
Contact Person: Clarence Franke Phone: 210-481-5808
Customer Reference Number (if issued):CN 606173722
Regulated Entity Reference Number (if issued):RN RN111723730

Austin Regional Office (3373)

☐ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☒ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

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

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

☒ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

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	36 Acres	$ 6,500
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: Sean McFarland Date: 2/26/24

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

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

I Clarence Franke,
Print Name

General Manager,
Title - Owner/President/Other

of Alamo City Storm Soccer Club,
Corporation/Partnership/Entity Name

have authorized M.W. Cude Engineers, LLC
Print Name of Agent/Engineer

of M.W. Cude Engineers, LLC
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

3-06-24
Date

THE STATE OF Texas §

County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared Clarence Frank 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 6th day of March, 2024

NOTARY PUBLIC

Dawn Benson Aldrete
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 2-06-2027

DAWN BENSON ALDRETE
My Notary ID # 7376074
Expires February 6, 2027

ALAMO CITY STORM SOCCER CLUB

CORE DATA SECTION

CUDE ENGINEERS
SAN ANTONIO | AUSTIN

4122 POND HILL ROAD, STE 101
SAN ANTONIO, TEXAS 78231

PHONE: (210) 681-2951
CUDEENGINEERS.COM

TBPE NO. 455
TBPLS NO. 10048500

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 606173722		RN 111723730

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 3/5/2024

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* *If new Customer, enter previous Customer below:*

Alamo City Storm Soccer Club

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800142459	13836616378	38-3661637	

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: Non-Profit

12. Number of Employees
☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

2552 Boardwalk St.

City	State	ZIP	ZIP + 4
San Antonio	TX	78217	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	gm@sacitysc.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(210) 481-5808		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Alamo City Storm Soccer Club

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	204 W. Specht Road							
	City	San Antonio	**State**	TX	**ZIP**	78260	**ZIP + 4**	
24. County	Bexar							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	29.727609		**28. Longitude (W) In Decimal:**	-98.498653	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
7997	6732	711211	813410

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

34. Mailing Address:	**2552 Boardwalk St.**							
	City	**San Antonio**	**State**	**TX**	**ZIP**	**78217**	**ZIP + 4**	
35. E-Mail Address:	**gm@sacitysc.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(210) 481-5808		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Sean McFarland, PE	**41. Title:**	Agent

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(210 **)** 681-2951		**( ) -**	smcfarland@cudeengineers.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:	M.W. Cude Engineers, LLC	**Job Title:**	Project Manager
Name *(In Print):*	Sean McFarland, PE	**Phone:**	**(** 210 **)** 681- **2951**
Signature:	Sean McFarland	**Date:**	03/22/2024