

**CONTRIBUTING ZONE
PLAN MODIFICATION
FOR
CISD SMITHSON
VALLEY HIGH SCHOOL**

PREPARED FOR:



DATE: AUGUST 2024

PREPARED BY:



- **Engineers**
- **Surveyors**
- **Planners**

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CISD SMITHSON VALLEY HIGH SCHOOL CONTRIBUTING ZONE PLAN MODIFICATION

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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 if not withdrawn the application will be denied and 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 to you:

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- 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 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 effected 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: CISD Smithson Valley High School					2. Regulated Entity No.: 103932638				
3. Customer Name: Comal ISD					4. Customer No.: CN600249825				
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):			26.845 acres	
9. Application Fee:	\$6,500	10. Permanent BMP(s):				Extended Detention Ponds, VFS			
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks):				N/A			
13. County:	Comal	14. Watershed:				Dripping Springs Creek			

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

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

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

Sean Smith, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date

8/8/24

****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):

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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 **Modification of a Previously Approved Contributing Zone Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Sean Smith, P.E.

Date: 8/8/24

Signature of Customer/Agent:



Project Information

- Current Regulated Entity Name: CISD Smithson Valley High School
Original Regulated Entity Name: CISD Smithson Valley High School
Assigned Regulated Entity Number(s) (RN): 103932638
Edwards Aquifer Protection Program ID Number(s): _____
☒ The applicant has not changed and the Customer Number (CN) is: 600249825
☐ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- ☒ **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.
- A modification of a previously approved plan is requested for (check all that apply):

- ☐ Any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
- ☐ Any change in the nature or character of the regulated activity from that which was originally approved;
- ☐ A change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or
- ☒ Any development of land previously identified in a contributing zone plan as undeveloped.

4. ☒ **Summary of Proposed Modifications** (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

<i>CZP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>See Attached Summary</u>	<u>95.4</u>
Type of Development	_____	<u>High School</u>
Number of Residential Lots	_____	<u>0</u>
Impervious Cover (acres)	_____	<u>44.93</u>
Impervious Cover (%)	_____	<u>47.10</u>
Permanent BMPs	_____	<u>Extended Detention Ponds, VFS</u>
Other	_____	_____
<i>AST Modification</i>		
<i>Summary</i>		
Number of ASTs	_____	_____
Other	_____	_____
<i>UST Modification</i>		
<i>Summary</i>		
Number of USTs	_____	_____
Other	_____	_____

5. ☒ **Attachment B: Narrative of Proposed Modification.** A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved,

including previous modifications, and how this proposed modification will change the approved plan.

6. ☒ **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
- ☐ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
- ☒ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
- ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
7. ☒ Acreage has not been added to or removed from the approved plan.
- ☐ Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.
8. ☒ 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.

SUMMARY OF PREVIOUS & PROPOSED MODIFICATIONS

<i>CZP Modification Summary</i>	<i>Pre-June 1, 1999</i>	<i>Approved Project</i>	<i>Approved Modification 1</i>	<i>Approved Modification 2</i>	<i>Approved Modification 3</i>	<i>Approved Modification 4</i>	<i>Proposed Modification 5</i>
Acres	45	45	45	91.6	95.4	95.4	95.4
Type of Development	High School	High School	High School	High School	High School	High School	High School
Number of Residential Lots	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Impervious Cover Added (acres)	N/A	6.87	1.08	15.45	1.57	0.37	0.20
Total Impervious Cover (acres)	19.40	26.27	27.35	42.80	44.37	44.73	44.93
Impervious Cover (%)	43.11%	58.37%	60.77%	46.72%	46.51%	46.89%	47.10%
Permanent BMPs	N/A	None	None	3 Extended Detention Ponds	3 Extended Detention Ponds	3 Extended Detention Ponds	3 Extended Detention Ponds, VFS
Other	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Approval Letter Date	N/A	July 12, 2001	July 1, 2002	April 24, 2009	October 28, 2016	April 9, 2019	TBD

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 9, 2019

Mr. Michael McCullar
Comal Independent School District
1404 N IH 35
New Braunfels, TX 78130-2817

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: CISD Smithson Valley High School; Located at 14001 Highway 46 W; Spring Branch, TX

TYPE OF PLAN: Request for the Approval of a Modification of an Approved Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer

Regulated Entity No. RN103932638; Additional ID No. 13000851

Dear Mr. McCullar:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP Modification for the above-referenced project submitted to the San Antonio Regional Office by Moy Tarin Ramirez Engineers, LLC on behalf of the Comal Independent School District on January 25, 2019. Final review of the CZP Modification was completed after additional material was received on March 11, 2019 and March 26, 2019. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

BACKGROUND

The Smithson Valley High School campus was established on a 45-acre site with approximately 19.40 acres of impervious cover that was constructed prior to the effective rule date of 30 TAC Chapter 213, Subchapter B.

A CZP application was approved by letter dated July 12, 2001, that consisted of renovations and expansions that included new classrooms, a gym expansion, tennis courts, asphalt band field, parking areas, sidewalks, and access drives. The improvements added 6.87 acres of impervious cover, increasing the total on-site impervious cover to 26.27 acres.

A CZP Modification was approved by letter dated July 1, 2002 and included the construction of 1.08 acres of additional parking area. The improvements increased the total on-site impervious cover to 27.35.

A second CZP Modification was approved by letter dated April 24, 2009, that increased the total site area to 91.6 acres. The project consisted of improvements that included building additions, parking areas and drives, addition to the storm sewer system and three extended detention basins. The improvements added 15.45 acres of impervious cover, increasing the total on-site impervious cover to 42.8 acres.

A third CZP Modification was approved by letter dated October 28, 2016, that increased the total site area to 95.4 acres. The project included the renovations of an existing baseball field house, replacement of six structures at the softball and football fields, a new agriculture barn consisting of two new structures, drainage improvements, and modifications to the three existing extended detention basins. The project added 1.57 acres of impervious cover, increasing the total on-site impervious cover to 44.37 acres.

PROJECT DESCRIPTION

This CZP Modification proposes the reconstruction of the track/football field, construction of additional flatwork around the existing track/football field and the addition of concrete flatwork to provide a high-jump area. This project will add approximately 0.366 acres of impervious cover, increasing the total on-site impervious cover to 44.73 acres (46.89 percent) with pre-existing impervious cover totaling 19.40 acres. Project wastewater will be disposed of by conveyance to the existing Smithson Valley High School Wastewater Treatment Plant owned by the Comal Independent School District.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or up-gradient of the site and potentially flowing across and off the site after construction, three existing extended detention basins, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will treat stormwater runoff. The required total suspended solids (TSS) treatment for the site is 22,737 pounds of TSS generated from the 25.33 acres of impervious cover. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project. See Table 1 for BMP treatment summary.

Table 1 BMP Treatment Summary								
Drainage Area	Acres (ac.)	Existing I.C. (ac.)	Total Proposed I.C. (ac.)	Treatment Measure	Required TSS Removal (lbs.)	Provided TSS Removal (lbs.)	Required Water Quality Volume (ft³)	Provided Water Quality Volume (ft³)
1	30.37	15.87	15.98	Extended Detention Basin 1	7,639	7,639	23,989	98,140
2	27.14	26.20	26.20	Extended Detention Basin 2	12,809	13,628	55,715	143,622
3	2.69	2.00	2.00	Extended Detention Basin 3	1,795*	1,470*	8,544	8,987
4	35.20	0.30	0.55	Uncaptured	494	-	-	-
Total	95.40	44.37	44.73	-	22,737	22,737	-	-

* Based on the sizing calculations for Extended Detention Basin 3, the basin has reached capacity and will be unable to treat any TSS generated from future, additional impervious cover. There are 325 excess pounds of TSS from Drainage Area 3 over the provided capacity of Extended Detention Basin 3.

SPECIAL CONDITIONS

- I. This modification is subject to all Special and Standard Conditions listed in the CZP approval letter dated July 12, 2001 and subsequent modifications dated July 1, 2002, April 24, 2009 and October 28, 2016.
- II. All sediment and/or media removed from the permanent pollution abatement measures during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. 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).
10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

14. Owners of permanent BMPs and measures must insure that the 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 San Antonio Regional Office within 30 days of site completion.
15. The applicant shall be 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. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

Mr. Michael McCullar
April 9, 2019
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This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G., of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely,



Robert Sadlier, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

RCS/dpm

Enclosure: Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Sean Smith, P.E., Moy Tarin Ramirez Engineers, LLC
Mr. Thomas H. Hornseth, P.E., Comal County Engineer
Mr. H. L. Saur, Comal Trinity Groundwater Conservation District
Mr. Roland Ruiz, Edwards Aquifer Authority

Change in Responsibility for Maintenance
of Permanent Best Management Practices and Measures

The applicant is no longer responsible for maintaining the permanent best management practice (BMP) and other measures. The project information and the new entity responsible for maintenance is listed below.

Customer Number of Applicant (CN): _____

Applicant or Customer Name: _____

Regulated Entity Number (RN): _____

Regulated Entity Name: _____

Site Location or Address: _____

City, State: _____ Zip: _____ Zip + 4: _____

County: _____

Approval Letter Date: _____

BMPs for the project: _____

New Responsible Party Customer Number (CN): _____

If no CN number a Core Data Form must be completed.

Legal Name of New Responsible Party: _____

Name of contact: _____

Mailing Address: _____

City, State: _____ Zip: _____ Zip + 4: _____

Telephone: _____ FAX: _____

Print Name of New Responsible Party

Signature of New Responsible Party

Date

I acknowledge and understand that I am assuming full responsibility for maintaining all permanent best management practices and measures approved by the TCEQ for the site, until another entity assumes such obligations in writing or ownership is transferred.

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please call 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

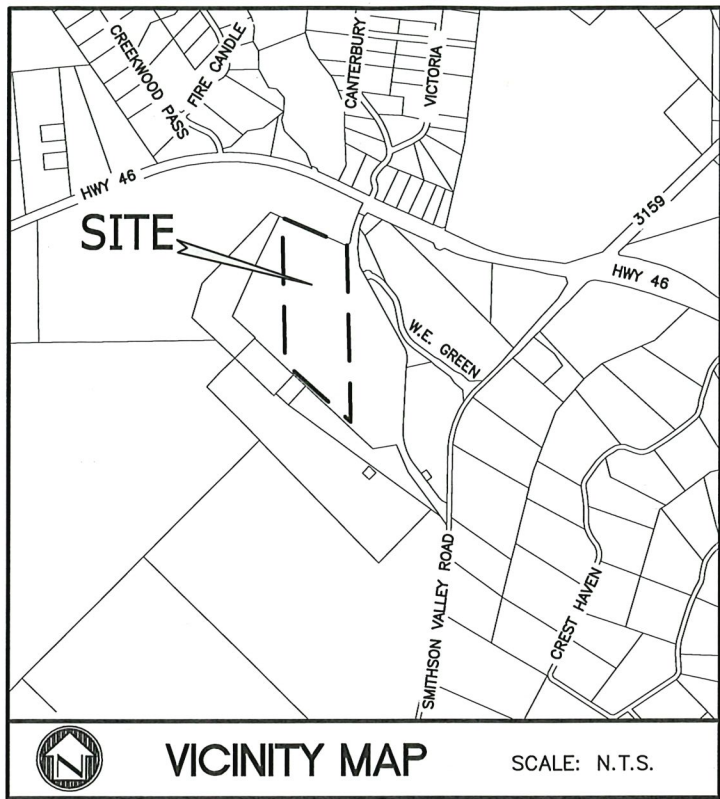
Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

ATTACHMENT B

NARRATIVE OF PROPOSED MODIFICATION

This project consists of the reconstruction of portions of the existing baseball facility and the addition of a golf practice facility. The total increase in impervious cover for this project is 8,811 square feet (0.20 acres). Of this increase, 6,042 square feet (0.14 acres) is comprised of synthetic turf with an underdrain and liner which provides equivalent water protection. New vegetative filter strips will be provided to treat 3,629 square feet (0.08 acres) of impervious cover, ultimately resulting in a net decreased treatment requirement of 18 pounds of TSS. This decreased treatment requirement is discussed in more detail in Attachment K: BMPs for On-Site Storm Water.

The overall acreage of the Smithson Valley High School property is 95.4 acres and is located at 14001 TX-46, Spring Branch, TX 78070. The site is located in the Edwards Aquifer Contributing Zone. We have delineated a 26.84 – acre site within the overall property boundary for the purposes of this modification. We have attached an exhibit showing the area of the site delineated on it. All of the work associated with this modification is located within the 26.84 – acre site.



GENERAL NOTES:

- 1) PREPARED BY RECORD INFORMATION. AN ON THE GROUND SURVEY WAS NOT PERFORMED BY MOY TARIN RAMIREZ ENGINEERS, LLC.
- 2) BASIS OF BEARINGS WAS ESTABLISHED FROM RECORD INFORMATION BY AWARD OF SPECIAL COMMISSIONERS AS RECORDED IN VOLUME 494, PAGE 729, OF THE OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS.

KEY NOTES -- OWNERSHIP

- | | |
|--|---|
| 1) COMAL ISD
1.63 ACRES
SPECIAL WARRANTY DEED
DOCUMENT NUMBER 200906012396
O.P.R.C.C.T. | 4) BOARD OF TRUSTEES OF THE COMAL
INDEPENDENT SCHOOL DISTRICT
8.45 ACRES
SPECIAL WARRANTY DEED
DOCUMENT NUMBER 200906012395
O.P.R.C.C.T. |
| 2) COMAL ISD
3.07 ACRES
AWARD OF SPECIAL COMMISSIONERS
DOCUMENT NUMBER 200006008597
O.P.R.C.C.T. | 5) COMAL ISD
1.00 ACRES
AWARD OF SPECIAL COMMISSIONERS
VOLUME 649 PAGE 638
O.P.R.C.C.T. |
| 3) BOARD OF TRUSTEES OF THE COMAL
INDEPENDENT SCHOOL DISTRICT
2.993 ACRES
SPECIAL WARRANTY DEED
DOCUMENT NUMBER 200606028134
O.P.R.C.C.T. | 6) COMAL ISD
16.00 ACRES
AWARD OF SPECIAL COMMISSIONERS
DOCUMENT NUMBER 200006008597
O.P.R.C.C.T. |



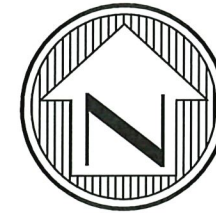
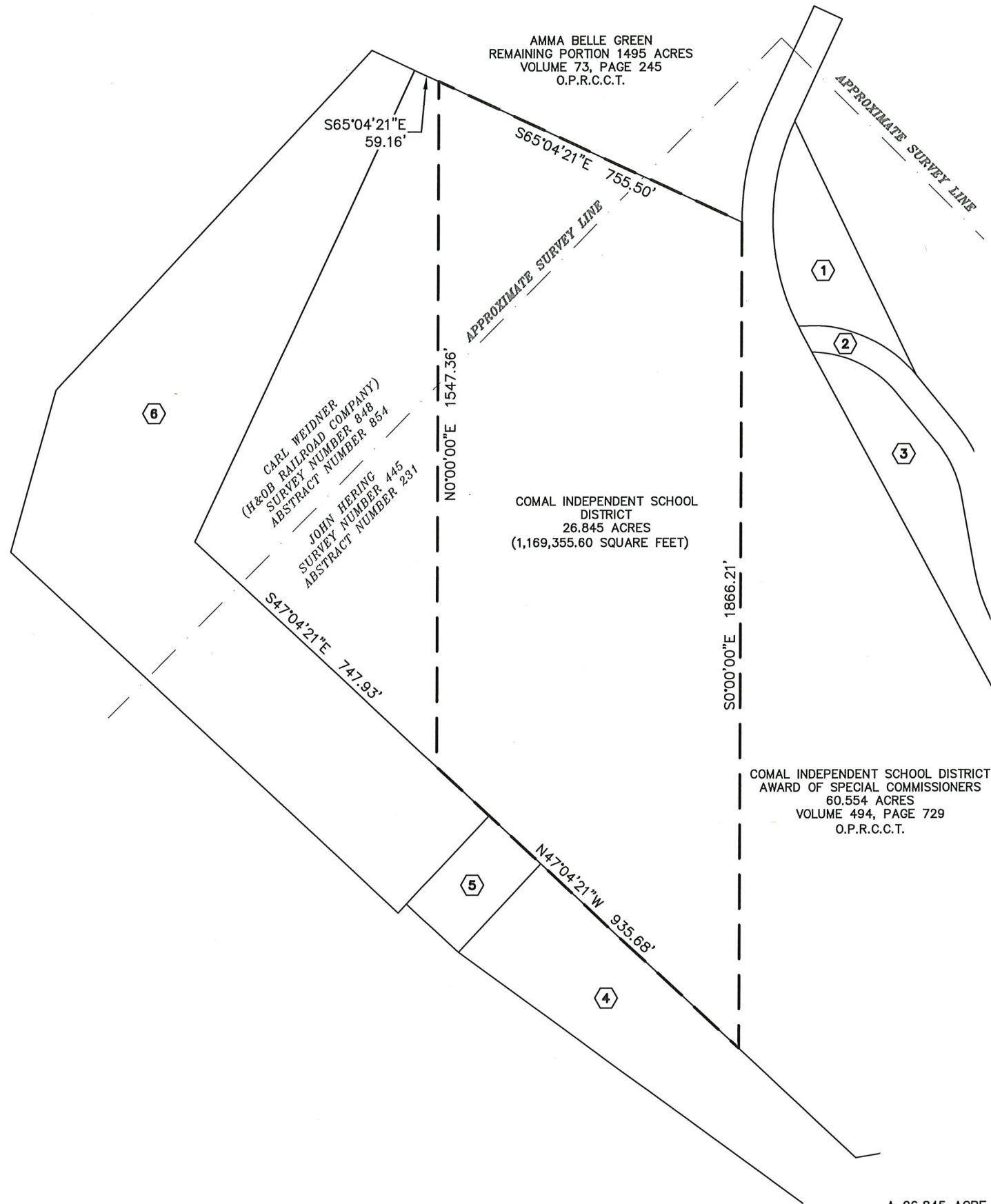
Moy Tarin Ramirez Engineers, LLC

TBPELS ENGINEERING: F-5297, SURVEYING: NO. 10131500

12770 CIMARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249

TEL: (210) 698-5051
FAX: (210) 698-5085

- Engineers
- Surveyors
- Planners

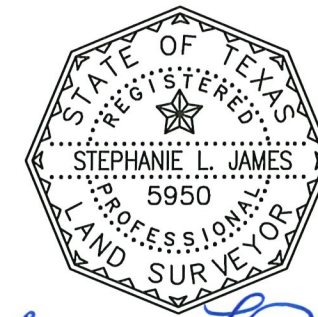


SCALE: 1"=300'



LEGEND:

O.P.R.C.C.T. OFFICIAL PUBLIC RECORDS
OF COMAL COUNTY, TEXAS



Stephanie L. James

EXHIBIT OF PROJECT AREA

A 26.845 ACRE (1,169,355.60 SQUARE FEET) TRACT SITUATED IN THE JOHN HERING SURVEY NO. 445, ABSTRACT 231, AND THE CARL WEIDNER (H&OB RAILROAD COMPANY) SURVEY NO. 848, ABSTRACT 854, COMAL COUNTY, TEXAS, AND BEING OUT OF THAT CERTAIN 60.554 ACRE TRACT AS CONVEYED TO COMAL INDEPENDENT SCHOOL DISTRICT BY AWARD OF SPECIAL COMMISSIONERS AS RECORDED IN VOLUME 494, PAGE 729 OF THE OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS.

DATE: OCTOBER 17, 2024

JOB NO. 24050

SITE INFORMATION:

DATA ON INDICATED SUBSURFACE CONDITIONS ARE NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY OR CONTINUITY BETWEEN SOIL BORINGS. IT IS EXPRESSLY UNDERSTOOD THAT THE OWNER, ARCHITECT, AND/OR STRUCTURAL, CIVIL OR MECHANICAL, PLUMBING OR ELECTRICAL ENGINEER WILL NOT BE RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY CONTRACTOR. DATA ARE MADE AVAILABLE FOR CONVENIENCE OF CONTRACTOR ONLY AND AS SUCH, THE SOIL BORINGS ARE NOT CONSIDERED TO BE A PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR MAY, AT HIS OPTION, OBTAIN A COPY OF THE GEOTECHNICAL REPORT.

CONSTRUCTION SEQUENCE:

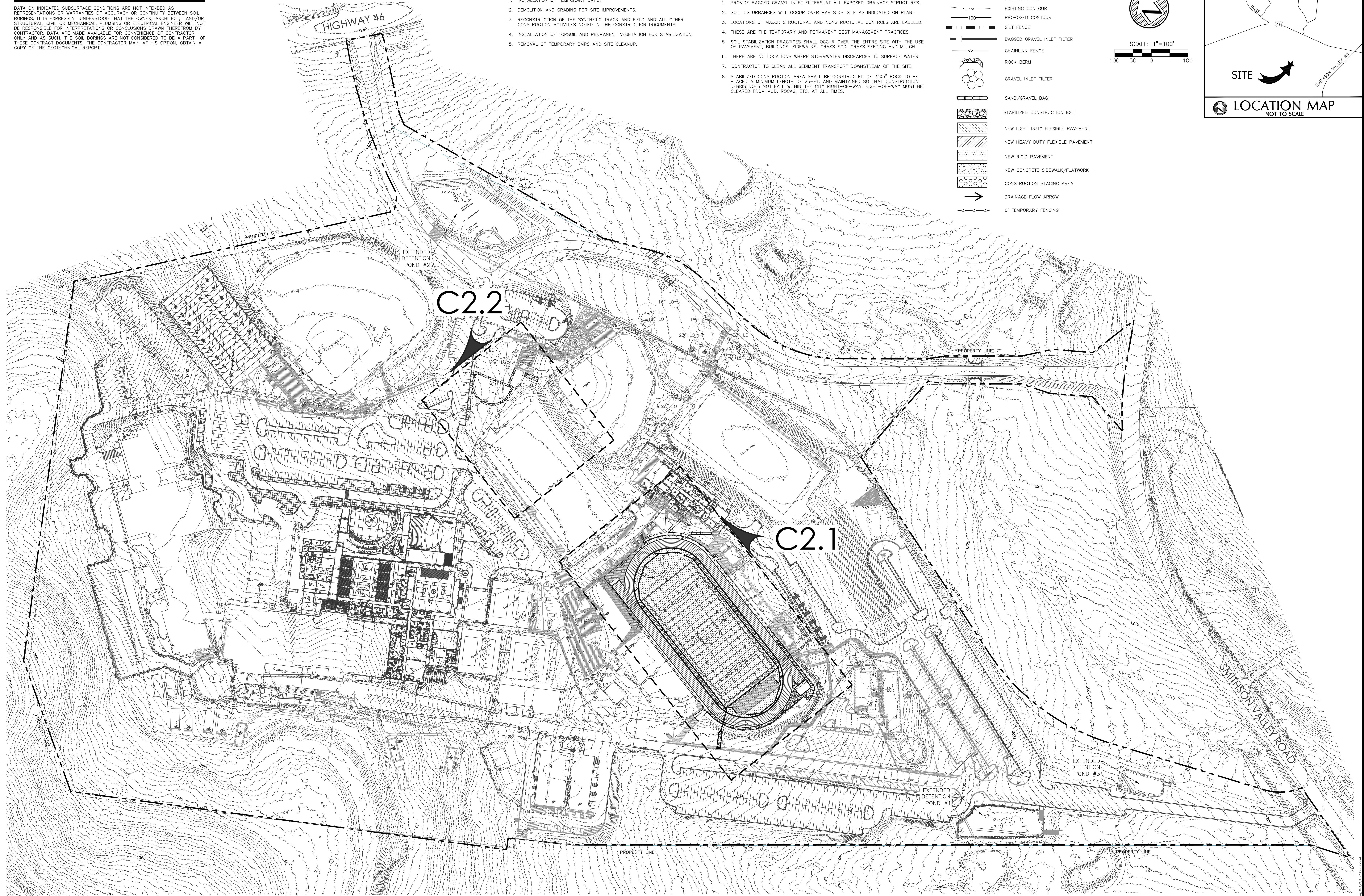
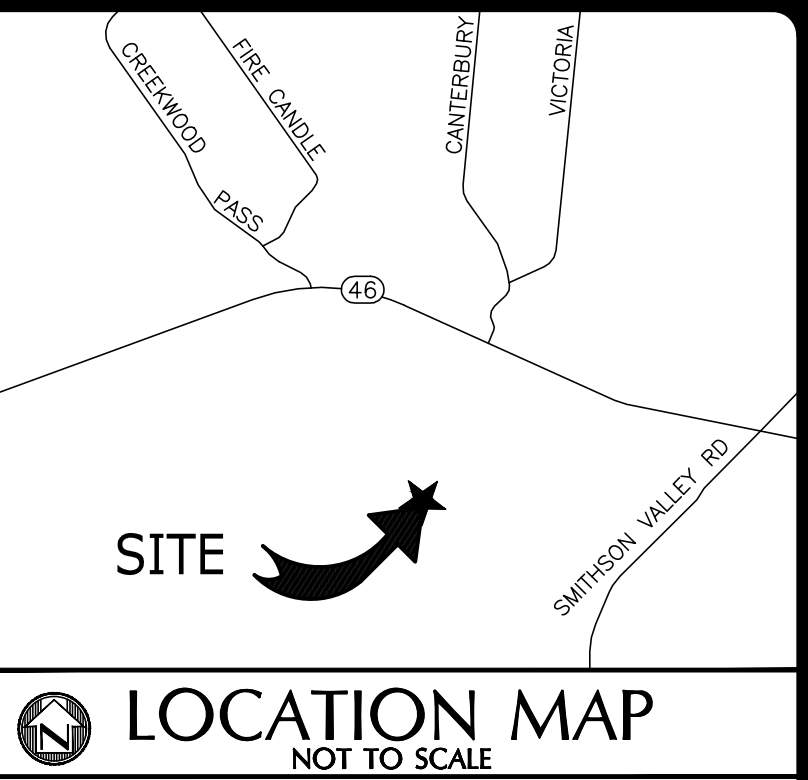
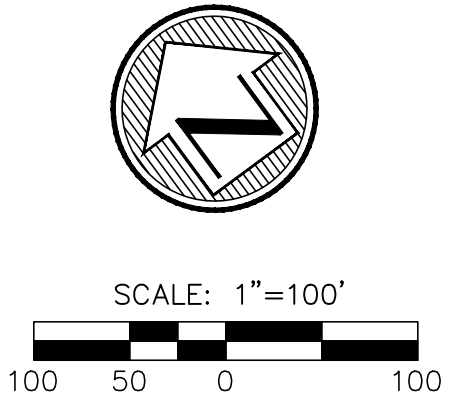
1. INSTALLATION OF TEMPORARY BMPs.
2. DEMOLITION AND GRADING FOR SITE IMPROVEMENTS.
3. RECONSTRUCTION OF THE SYNTHETIC TRACK AND FIELD AND ALL OTHER CONSTRUCTION ACTIVITIES NOTED IN THE CONSTRUCTION DOCUMENTS.
4. INSTALLATION OF TOPSOIL AND PERMANENT VEGETATION FOR STABILIZATION.
5. REMOVAL OF TEMPORARY BMPs AND SITE CLEANUP.

GENERAL NOTES:

1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE STRUCTURES.
2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED ON PLAN.
3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED.
4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES.
5. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE ENTIRE SITE WITH THE USE OF PAVEMENT, BUILDINGS, SIDEWALKS, GRASS SOD, GRASS SEEDING AND MULCH.
6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.
7. CONTRACTOR TO CLEAN ALL SEDIMENT TRANSPORT DOWNSTREAM OF THE SITE.
8. STABILIZED CONSTRUCTION AREA SHALL BE CONSTRUCTED OF 3"x5" ROCK TO BE PLACED A MINIMUM LENGTH OF 25'-FT. AND MAINTAINED SO THAT CONSTRUCTION DEBRIS DOES NOT FALL WITHIN THE CITY RIGHT-OF-WAY. RIGHT-OF-WAY MUST BE CLEARED FROM MUD, ROCKS, ETC. AT ALL TIMES.

LEGEND:

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SILT FENCE
- BAGGED GRAVEL INLET FILTER
- CHAINLINK FENCE
- ROCK BERM
- GRAVEL INLET FILTER
- SAND/GRAVEL BAG
- STABILIZED CONSTRUCTION EXIT
- NEW LIGHT DUTY FLEXIBLE PAVEMENT
- NEW HEAVY DUTY FLEXIBLE PAVEMENT
- NEW RIGID PAVEMENT
- NEW CONCRETE SIDEWALK/PLATWORK
- CONSTRUCTION STAGING AREA
- DRAINAGE FLOW ARROW
- 6" TEMPORARY FENCING



REVISIONS		NO.	DATE	DESCRIPTION	BY

PROJ. #	CDN. BY	DWN. BY	CHKD. BY	DATE

Engineers
Surveyors
Planners

MTR

Moy Tarin Ramirez Engineers, LLC
FIRM TBPE NO. F-5287 & TBPLS NO. 10131500
12770 CAMBRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5065

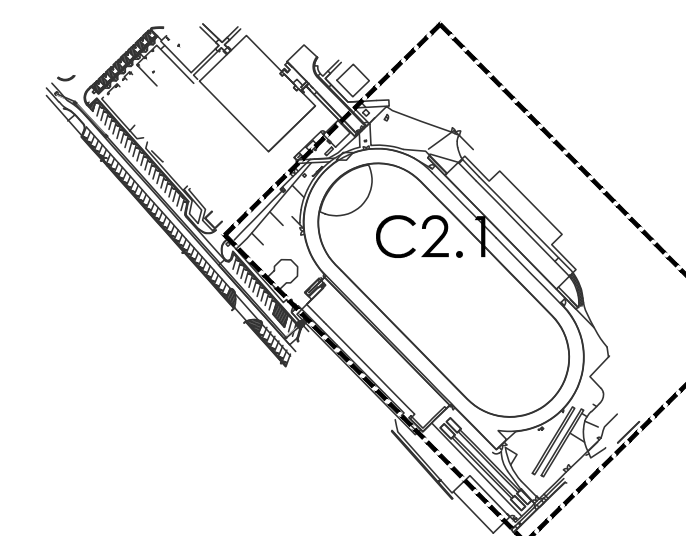
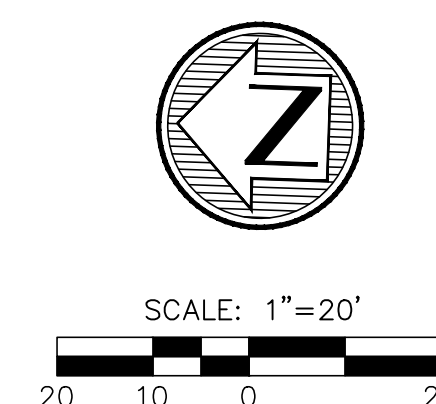


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9. CONTRACTOR TO CLEAN ALL SEDIMENT TRANSPORT DOWNSTREAM OF THE SITE.
10. STABILIZED CONSTRUCTION AREA SHALL BE CONSTRUCTED OF 3"X3" ROCK TO BE PLACED A MINIMUM LENGTH OF 25'-FT. AND MAINTAINED SO THAT CONSTRUCTION DEBRIS DOES NOT FALL WITHIN THE CITY RIGHT-OF-WAY. RIGHT-OF-WAY MUST BE MAINTAINED MINIMUM 10' FROM ADJACENT PROPERTY.

	PROPERTY LINE		STABILIZED CONSTRUCTION EXIT
	EXISTING CONTOUR		NEW LIGHT DUTY FLEXIBLE PAVEMENT
	PROPOSED CONTOUR		NEW HEAVY DUTY FLEXIBLE PAVEMENT
	SILT FENCE		NEW RIGID PAVEMENT
	BAGGED GRAVEL INLET FILTER		NEW CONCRETE SIDEWALK/FLATWORK
	CHAINLINK FENCE		CONSTRUCTION STAGING AREA
	ROCK BERM		CONCRETE WASHOUT PIT
	GRAVEL INLET FILTER		DRAINAGE FLOW ARROW
	SAND/GRAVEL BAG		6" TEMPORARY FENCING



KEY MAP
NOT TO SCALE

[illegible]

**Engineers
Surveyors
Planners**



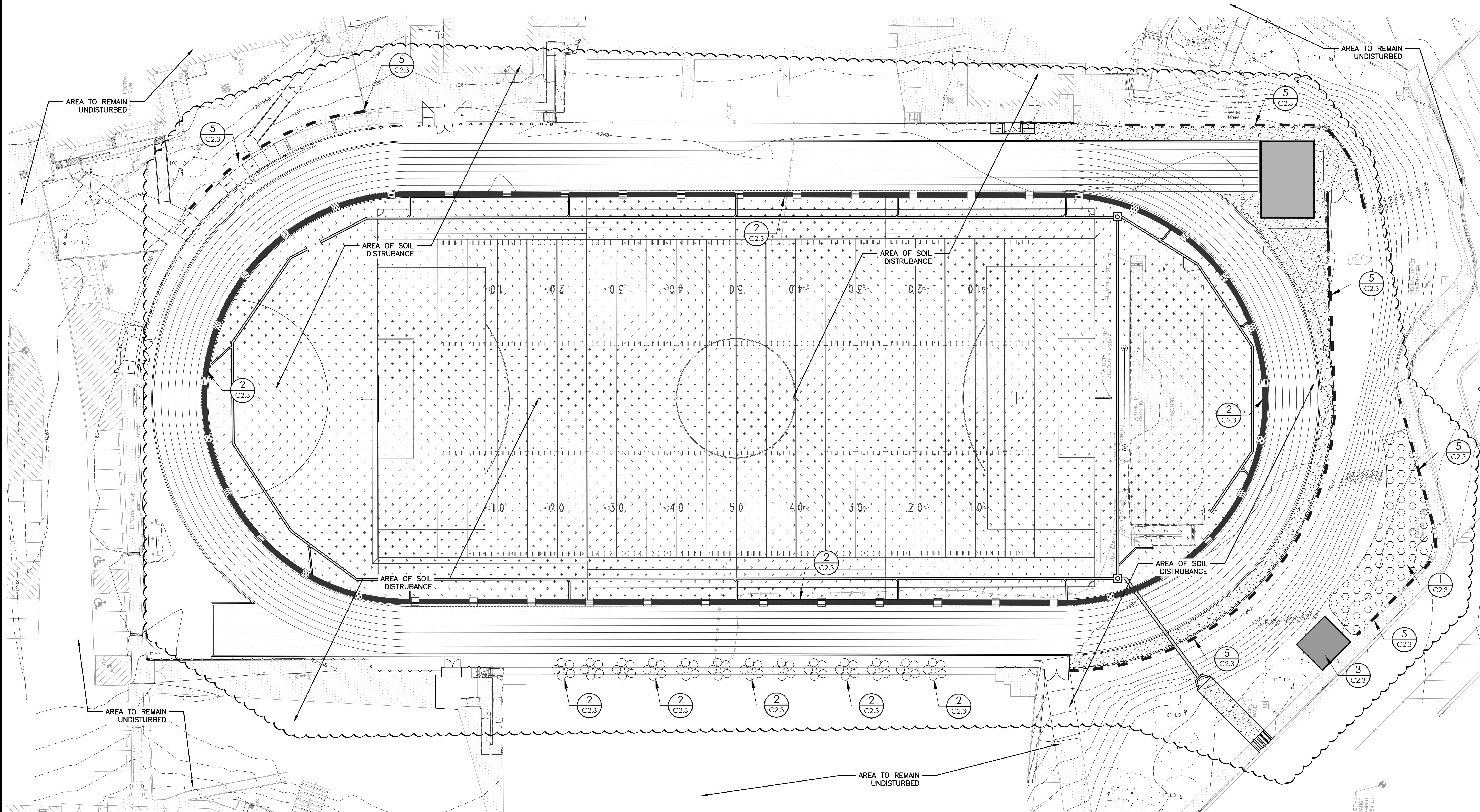
Moy Tarin Ramirez Engineers, LLC
FIRM TYPE NO. F-5297 & TBPLS NO. 10131500
12770 CHARRON PATH, SUITE 100 TEL: (210) 698-5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5051



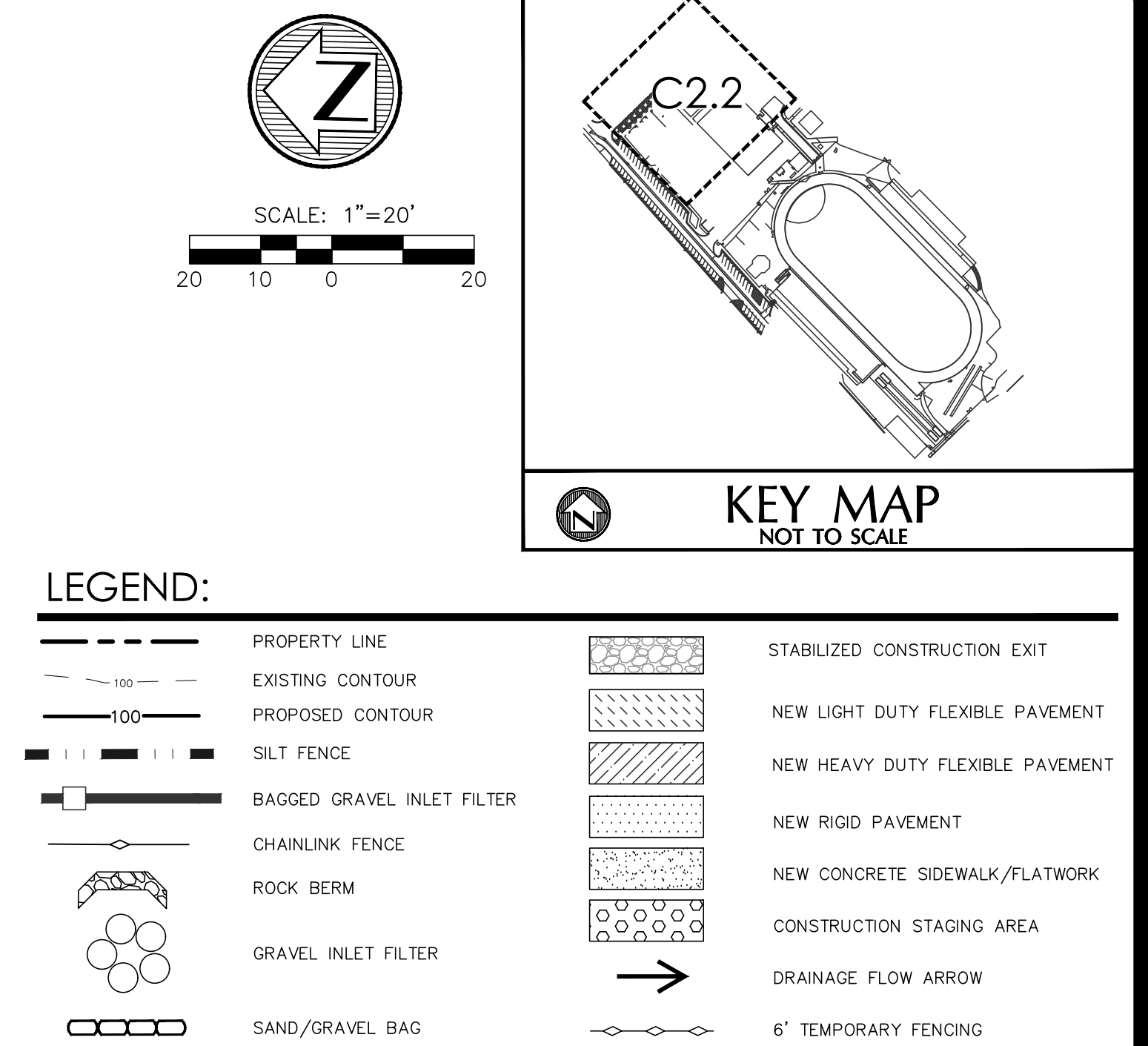
SMITHSON VALLEY HIGH SCHOOL ATHLETIC IMPROVEMENTS

SHEET

C2.1



ATTACHMENT C: CURRENT SITE PLAN OF THE APPROVED PROJECT



SITE INFORMATION:

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6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.
7. CONTRACTOR TO CLEAN ALL SEDIMENT TRANSPORT DOWNSTREAM OF THE SITE.
8. STABILIZED CONSTRUCTION AREA SHALL BE CONSTRUCTED OF 3"X5" ROCK TO BE PLACED A MINIMUM LENGTH OF 25-FT. AND MAINTAINED SO THAT CONSTRUCTION MATERIALS DO NOT FALL INTO ANY OF THE 10-FT. RIGHT-OF-WAY THAT WILL BE CLEARED FROM MUD, ROCKS, ETC. AT ALL TIMES.

REVISIONS					
N.O.	DATE	DESCRIPTION	BY		
PROG. #	DON. BY	DWN. BY	CHECK. BY	DATE:	

MR

Moy Tarin Ramirez Engineers, LLC

FIRM TYPE NO. F-5297 & TBPLS NO. 10131500
12270 CHARMON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249

• *Engineers*
• *Surveyors*
• *Planners*

TEL: (210) 698-5051
FAX: (210) 698-5085



SMITHSON VALLEY HIGH SCHOOL ATHLETIC IMPROVEMENTS

SHEET

C2.2

ATTACHMENT C: CURRENT SITE PLAN OF THE APPROVED PROJECT

Contributing Zone Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), 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 **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Sean Smith, P.E.

Date: 8/8/24

Signature of Customer/Agent:



Regulated Entity Name: CISD Smithson Valley High School

Project Information

1. County: Comal
2. Stream Basin: Dripping Springs
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

Contact Person: Jeffrey Smith

Entity: Comal Independent School District

Mailing Address: 1404 IH 35 North

City, State: NEW BRAUNFELS, TX

Telephone: (830) 221-2064

Email Address: jeffrey.smith@comalisd.org

Zip: 78130-2817

Fax: _____

5. Agent/Representative (If any):

Contact Person: Sean Smith, P.E.

Entity: Moy Tarin Ramirez, LLC

Mailing Address: 12770 Cimarron Path Suite 100

City, State: San Antonio, TX

Zip: 78249

Telephone: (210) 698-5051

Fax: (210) 698-5085

Email Address: ssmith@mtrengineers.com

6. 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 _____.
- ☒ The project site is not located within any city's limits or ETJ.

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

14001 TX-46, Spring Branch, TX 78070

8. ☒ **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

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

- ☒ Project site boundaries.
- ☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative.** A detailed narrative description of the proposed project is attached. 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

11. 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/Not cleared)
- ☒ Other: Existing High School site

12. The type of project is:

- ☐ Residential: # of Lots: _____
- ☐ Residential: # of Living Unit Equivalents: _____
- ☐ Commercial
- ☐ Industrial
- ☒ Other: School

13. Total project area (size of site): 95.4 Acres

Total disturbed area: ±8.8 Acres

14. Estimated projected population: 2,750

15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	463,454	÷ 43,560 =	10.64
Parking	977,731	÷ 43,560 =	22.45
Other paved surfaces	516,112	÷ 43,560 =	11.85
Total Impervious Cover	1,957,297	÷ 43,560 =	44.93

Total Impervious Cover 44.93 ÷ Total Acreage 95.4 X 100 = 47.10% Impervious Cover

16. ☒ **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
17. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

☒ N/A

18. 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.

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

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: _____ feet.

Width of R.O.W.: _____ feet.

$L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 = \text{_____ \%}$ impervious cover.

22. ☐ A rest stop will be included in this project.
- ☐ A rest stop will not be included in this project.
23. ☐ 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

24. ☒ **Attachment E - 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 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

25. ☒ Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.
- ☐ N/A

26. Wastewater will be disposed of by:

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

☐ **Attachment F - 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):

The sewage collection system will convey the wastewater to the Smithson Valley HS WWTP (name) Treatment Plant. The treatment facility is:

☒ Existing.

☐ Proposed.

☐ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

☒ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

28. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

5 of 11

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

- ☐ **Attachment G - Alternative Secondary Containment Methods.** Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

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

Table 3 - Secondary Containment

<i>Length (L)(Ft.)</i>	<i>Width(W)(Ft.)</i>	<i>Height (H)(Ft.)</i>	<i>L x W x H = (Ft3)</i>	<i>Gallons</i>

Total: _____ Gallons

30. Piping:

- ☐ All piping, hoses, and dispensers will be located inside the containment structure.
- ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
- ☐ The piping will be aboveground
- ☐ The piping will be underground

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is attached that shows the following:

- ☐ Interior dimensions (length, width, depth and wall and floor thickness).
- ☐ Internal drainage to a point convenient for the collection of any spillage.
- ☐ Tanks clearly labeled
- ☐ Piping clearly labeled
- ☐ Dispenser clearly labeled

33. ☐ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

- ☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.

- ☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 100'.
35. 100-year floodplain boundaries:
- ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
- ☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA Map 48091C0240F, dated Sept. 2, 2009.
36. ☐ 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, etc. are shown on the site plan.
- ☒ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☐ Surface waters (including wetlands).
☒ N/A
43. ☐ Locations where stormwater discharges to surface water.
☒ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.
☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.
☒ Permanent aboveground storage tank facilities will not be located on this site.
46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
48. ☒ 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
49. ☒ 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
50. 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.

51. 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 I - 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.

52. ☒ **Attachment J - 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.

53. ☒ **Attachment K - 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.

54. ☒ **Attachment L - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

☐ N/A

55. ☒ **Attachment M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are

attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

56. ☒ **Attachment N - Inspection, Maintenance, Repair and Retrofit Plan.** A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
- ☒ Signed by the owner or responsible party
- ☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
- ☒ Contains a discussion of record keeping procedures

☐ N/A

57. ☐ **Attachment O - 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

58. ☒ **Attachment P - 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 result in water quality degradation.

☐ N/A

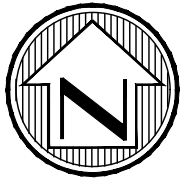
Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

59. ☒ 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.
60. ☒ 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,

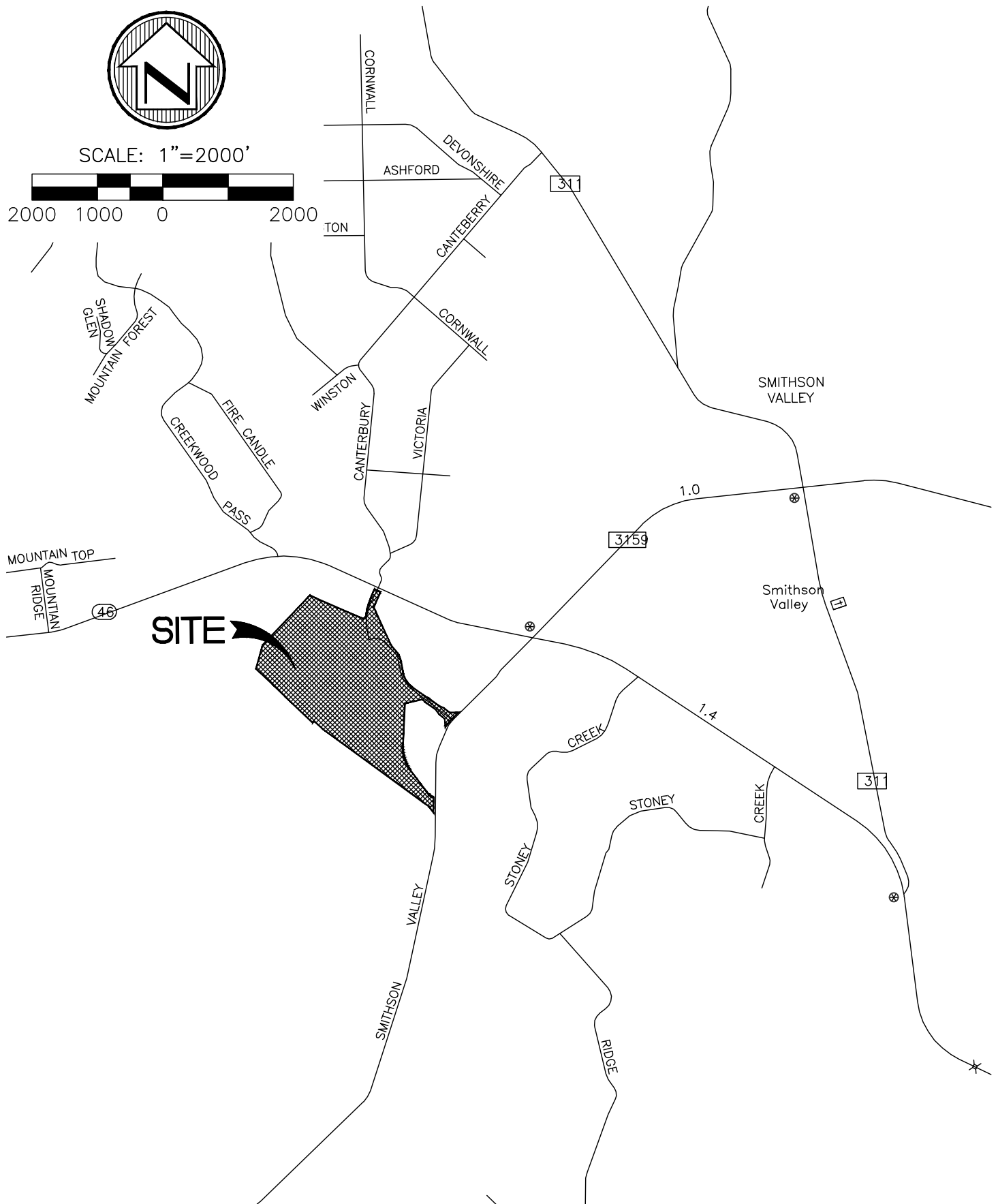
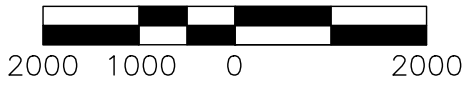
or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

Administrative Information

- 61. ☒ 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.
- 62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
- ☒ The Temporary Stormwater Section (TCEQ-0602) is included with the application.



SCALE: 1"=2000'



Moy Tarin Ramirez Engineers, LLC

TBPE F-5297 & TBPLS F-10131500

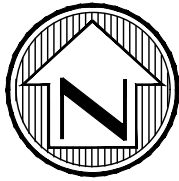
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

- Engineers
- Surveyors
- Planners

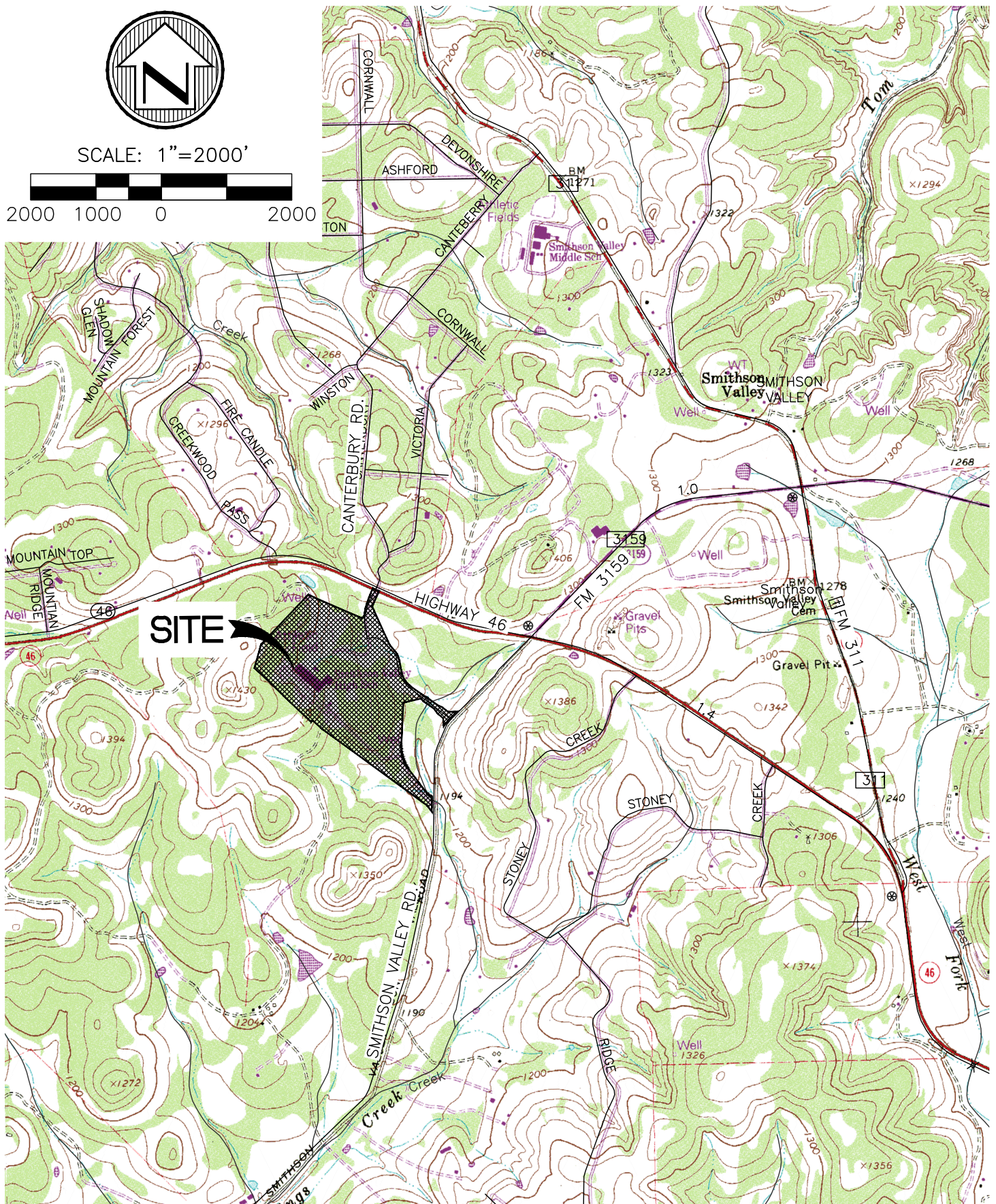
ATTACHMENT A
SMITHSON VALLEY HIGH SCHOOL
LOCATION MAP

PROJ. #: 01.08

DATE: AUGUST 2024



SCALE: 1"=2000'



(SMITHSON VALLEY QUADRANGLE MAP)



Moy Tarin Ramirez Engineers, LLC

TBPE F-5297 & TBPLS F-10131500

12770 CIMARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249

- Engineers
- Surveyors
- Planners

TEL: (210) 698-5051
FAX: (210) 698-5085

ATTACHMENT B
SMITHSON VALLEY HIGH SCHOOL
USGS MAP

PROJ. #: 01.08

DATE: AUGUST 2024

ATTACHMENT C

PROJECT NARRATIVE

This project consists of upgrades to the existing baseball facility and the addition of a golf practice facility. The baseball upgrades consist of the demolition and replacement of existing impervious cover, as well as the addition of new concrete flatwork and buildings. The golf practice facility addition consists of the demolition and replacement of existing impervious cover, as well as the addition of new concrete flatwork and new synthetic turf. The total increase in impervious cover for this project is 8,811 square feet, or approximately 0.20 acres. The original CZP was approved on July 12, 2001. The most recent CZP Modification was approved on April 9, 2019.

The overall acreage of the property is 95.4 acres and is located at 14001 TX-46, Spring Branch, TX 78070. The site is located in the Edwards Aquifer Contributing Zone. We have delineated a 26.84 – acre site within the overall property boundary for purposes of this modification. We have attached an exhibit showing area of the site delineated on it. All of the work associated with this modification is located within the 26.84-acre site.

Current development consists of a high school with buildings, concrete sidewalks, asphalt parking, and sports fields.

The impervious cover onsite will increase by approximately 0.20 acres, bringing the total site impervious cover to 44.93 acres, or 47.10 percent. Of this increase, approximately 0.14 acres is comprised of synthetic turf with an underdrain and liner that provides equivalent water protection. Total Suspended Solids (TSS) generated by the remaining impervious cover associated with the proposed project be accounted for with new engineered vegetative filter strips (VFS) treating a portion of both the new impervious cover and existing impervious cover previously treated by the existing extended detention ponds. The proposed VFS will treat 3,629 square feet (0.08 acres) of impervious cover, which decreases the total treatment required through the ponds by 18 pounds of TSS. A more in depth breakdown of the on-site TSS removal is provided in Attachment K: BMPs for On-Site Storm Water.

The majority of the site which includes the high school building will remain undisturbed with this project.

ATTACHMENT D

FACTORS AFFECTING SURFACE WATER QUALITY

Factors impacting surface water quality include fertilizers, pesticides from landscaping, sediment from soil disturbances, leaf litter from tree removal, small amounts of oil grease from vehicular traffic, and suspended solids from the proposed impervious cover areas. These factors may cause suspended solids to enter into the storm water runoff and subsequently affect the surface water. However, temporary BMPs have been designed on the basis of the Technical Guidance Manual to treat the required amount of storm water runoff as to not adversely affect water quality entering into any surface water or groundwater.

ATTACHMENT E

VOLUME AND CHARACTER OF STORM WATER

Volume of Storm Water

The three (3) existing on-site extended detention ponds were designed to decrease the post development peak runoff rate to be less than or equal to the existing peak runoff rates. In this case, the “existing” condition includes impervious cover in-place prior to the Edwards CZP requirements becoming effective. The existing ponds, as designed, were approved with the CZP Modification in 2009.

There will be approximately 0.20 acres of impervious cover added to the site as part of these improvements. With an existing impervious cover area of approximately 44.73 acres, the total impervious cover will be approximately 44.93 acres. This is a 0.45% increase in impervious cover & therefore should have **no significant impact** to the post-construction flow relative to the pre-construction flow.

Character of Storm Water

Storm water runoff generated from the site during construction will be typical of a high school educational facility with buildings, parking lots, & small addition/renovation construction projects. The runoff should consist of small amounts of suspended solids created by sediments from disturbed soils, construction dust, sawdust and hydrocarbons from construction equipment. Temporary BMP's have been selected from the TCEQ Publication, “Complying with the Edwards Aquifer Rules: Technical Guidance for Best Management Practices,” to treat the required volume and character of storm water runoff to remove the increased total suspended solids (TSS) due to the proposed construction activities. Permanent stabilization of areas where soil is disturbed by construction activities will be accomplished by installing new vegetation, mulch and impervious cover in those areas as described in the Storm Water Pollution Prevention Plan.

Storm water runoff generated after construction is complete will also be typical of a high school educational facility. The runoff will contain sediments from rooftops, driveways, parking lots, sidewalks, landscape areas, and other miscellaneous impervious areas from the site. The runoff may contain small amounts of oil, grease, suspended solids, fertilizers and pesticides. The post construction runoff will be treated through three (3) existing extended detention ponds and new engineered vegetative filter strips. The ponds were designed in accordance with the Technical Guidance Manual to remove 75% of the total increase in TSS caused by the proposed onsite impervious cover. The engineered vegetative filter strips will be designed in accordance with the Technical Guidance Manual to remove 80% of the total increase in TSS caused by the impervious cover draining to them.

ATTACHMENT J

BMP'S FOR UPGRADIENT STORM WATER

Upgradient storm water enters the site along the north and west boundaries. An existing interceptor channel collects the upgradient flow near the northwestern corner of the site and conveys it downstream to a proposed underground storm system. The purpose of the interceptor channel is to capture and re-direct flow away from existing portable classroom structures and existing retaining wall. The interceptor channel and associated underground system will allow the runoff to be directed south, west of the structures and wall, to a point it is discharged at grade. The aforementioned runoff does not traverse impervious cover prior to entering the interceptor channel.

All other storm water originating upgradient of the site will continue to naturally enter the site and is accounted for in TSS treatment calculations.

During construction, temporary BMP's consisting of silt fences, bagged gravel inlet filters, and stabilized construction entrance/exit will be utilized to alleviate sediment from leaving the site.

ATTACHMENT K

BMP'S FOR ON-SITE STORM WATER

During construction, temporary BMP's consisting of silt fences, bagged gravel inlet filters, stabilized construction entrances/exits and the three (3) existing extended detention ponds will be utilized to alleviate sediment from leaving the site.

Pond #1

According the previously approved 2019 CZP modification, for Pond #1, the approved volume calculated at the existing spillway elevation of 1220.30 is 98,140 cubic feet. The provided TSS removal by Pond #1 is 12,610 pounds.

In the previous modification that was approved April 9, 2019, the total required TSS removal for Pond #1 (L_m this basin) after the associated improvements was 7,639 pounds with a required Total Capture Volume of 23,989 cubic feet. This provided an additional 4,971 pounds of TSS that were removed above what was required. The pond provided an additional 74,151 cubic feet of volume for future projects.

The increased impervious cover from the proposed Golf Practice Facility will be constructed entirely within the drainage area for Pond #1. The proposed impervious cover will result in a net increase of 6,170 square feet (0.14 acres) of impervious cover. However, 6,042 square feet (0.14 acres) of this increase is comprised of synthetic turf with an underdrain and liner that provides equivalent water protection. Additionally, vegetative filter strips (VFS) will be provided to treat an additional 565 square feet (0.01 acres) of impervious cover. Ultimately, 437 square feet (0.01 acres) of impervious cover will no longer require treatment by Pond #1.

As a result, the required TSS removal for Pond #1 (L_m this basin) after the proposed improvements is 7,630 pounds with a required volume of 23,976 cubic feet. This provides an additional 4,980 pounds of TSS that is removed with this pond above what is required. The pond provides an additional 74,164 cubic feet of volume for future projects.

Pond #2

For Pond #2, the approved volume calculated at the existing spillway elevation of 1255.30 is 143,622 cubic feet. The provided TSS removal by Pond #2 is 19,860 pounds.

In the previous modification that was approved April 9, 2019, the total required TSS removal for Pond #2 (L_m this basin) after the associated improvements was 13,628 pounds with a required Total Capture Volume of 55,715 cubic feet. This provided an additional 6,232 pounds of TSS that were removed with this pond above what is required. The pond provided an additional 87,907 cubic feet of volume for future projects.

The additional impervious cover associated with the Baseball Upgrades will be constructed entirely within the drainage area for Pond #2. The proposed improvements will result in a net

increase in impervious cover of 2,641 (0.06 acres) square feet. However, vegetative filter strips will be provided to treat 3,064 (0.07 acres) square feet of impervious cover, resulting in 423 square feet (0.01 acres) of impervious cover that no longer needs to be treated by Pond #2. Ultimately, Pond #2 is required to treat 26.19 acres of impervious located within its drainage area before accounting for overtreatment of uncaptured areas.

The total uncaptured impervious cover onsite after this project will be 0.55 acres (0.55 existing). Based on the TCEQ TSS Removal Calculations spreadsheet, these 0.55 acres of uncaptured impervious cover will generate 494 pounds of TSS. There are also 325 pounds of TSS generated in Drainage Area 3 that cannot be treated by Extended Detention Pond #3. The 494 pounds of uncaptured TSS and the 325 additional pounds of TSS from Drainage Area 3 combine for a total of 819 pounds of TSS. Pond #2 provides overtreatment for these 819 pounds of TSS. These 819 pounds of TSS require a total capture volume of 7,078 cubic feet.

The total required TSS removal for Pond #2 (L_m this basin) after the proposed improvements is 13,619 pounds with a required volume of 55,694 cubic feet. This provides an additional 6,241 pounds of TSS that is removed with this pond above what is required. The pond provides an additional 87,928 cubic feet of volume for future projects.

Pond #3

There is no construction occurring within the Pond #3 drainage basin. Pond #3 will remain undisturbed. According to the previously approved CZP Modification, the TSS removal associated with Pond #3 is 1,470 pounds.

Vegetative Filter Strips

VFS will be provided to treat a total of 3,629 square feet (0.08 acres) of impervious cover. The TSS removal associated with this impervious cover is 72 pounds.

Summary

The total impervious cover on-site will be 44.93 acres. However, since 0.14 acres is synthetic turf that provides equivalent water protection through an underdrain and liner, only 44.79 acres of impervious cover requires treatment. According to the TSS Removal Calculations Spreadsheet, this results in a TSS removal requirement of 22,790 pounds after accounting for 19.4 acres of pre-1999 impervious cover. Of this requirement, 7,640 pounds will be removed in Pond #1, 13,619 pounds will be removed in Pond #2, 1,470 pounds will be removed in Pond #2, and 72 pounds will be removed by VFS, totaling 22,791 pounds. The discrepancy of 1 pound of TSS between the overall removal requirement and the summed removal requirements of individual BMPs is due to rounding to two decimal places.

Given the total removal capability provided in each pond, the current available TSS removal for future projects is 11,221 pounds, which would be generated by approximately 12.50 acres of additional impervious cover.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **SVHS**
Date Prepared: **8/8/2024**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:

$L_{M \text{ TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = **Comal**
Total project area included in plan * = **95.40** acres
Predevelopment impervious area within the limits of the plan * = **19.40** acres
Total post-development impervious area within the limits of the plan * = **44.79** acres
Total post-development impervious cover fraction * = **0.47**
 P = **33** inches

$L_{M \text{ TOTAL PROJECT}}$ = **22790** lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = **4**

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = **1**

Total drainage basin/outfall area = **30.37** acres
Predevelopment impervious area within drainage basin/outfall area = **7.47** acres
Post-development impervious area within drainage basin/outfall area = **15.97** acres
Post-development impervious fraction within drainage basin/outfall area = **0.53**
 $L_{M \text{ THIS BASIN}}$ = **7630** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Extended Detention**
Removal efficiency = **75** percent

Aqualogic Cartridge Filter
Bioretention
Contech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Irrigation
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortechs
Wet Basin
Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

where:

A_C = Total On-Site drainage area in the BMP catchment area

A_I = Impervious area proposed in the BMP catchment area

A_P = Pervious area remaining in the BMP catchment area

L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = **30.37** acres

A_I = **15.97** acres

A_P = **14.40** acres

L_R = **13868** lbs



5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L_M THIS BASIN = **7630** lbs.

F = **0.55**

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = **0.49** inches
Post Development Runoff Coefficient = **0.37**
On-site Water Quality Volume = **19980** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = **0.00** acres
Off-site Impervious cover draining to BMP = **0.00** acres
Impervious fraction of off-site area = **0**
Off-site Runoff Coefficient = **0.00**
Off-site Water Quality Volume = **0** cubic feet

Storage for Sediment = **3996**

Total Capture Volume (required water quality volume(s) x 1.20) = **23976** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = **NA** cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate = **0.1** in/hr Enter determined permeability rate or assumed value of 0.1 in/hr
Irrigation area = **NA** square feet
NA acres

8. Extended Detention Basin System

Designed as Required in RG-348

Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = **23976** cubic feet

9. Filter area for Sand Filters

Designed as Required in RG-348

Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = **NA** cubic feet
Minimum filter basin area = **NA** square feet
Maximum sedimentation basin area = **NA** square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = **NA** square feet For maximum water depth of 8 feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = **NA** cubic feet
Minimum filter basin area = **NA** square feet
Maximum sedimentation basin area = **NA** square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = **NA** square feet For maximum water depth of 8 feet

10. Bioretention System

Designed as Required in RG-348

Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = **NA** cubic feet

11. Wet Basins

Designed as Required in RG-348

Pages 3-66 to 3-71

Required capacity of Permanent Pool = **NA** cubic feet Permanent Pool Capacity is 1.20 times the WQV
Required capacity at WQV Elevation = **NA** cubic feet Total Capacity should be the Permanent Pool Capacity plus a second WQV.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **SVHS**
Date Prepared: **8/8/2024**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
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1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where: $L_{M \text{ TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project
County = **Comal**
Total project area included in plan * = **95.40** acres
Predevelopment impervious area within the limits of the plan * = **19.40** acres
Total post-development impervious area within the limits of the plan * = **44.79** acres
Total post-development impervious cover fraction * = **0.47**
 P = **33** inches

$L_{M \text{ TOTAL PROJECT}}$ = **22790** lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = **4**

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = **2**
Total drainage basin/outfall area = **27.14** acres
Predevelopment impervious area within drainage basin/outfall area = **11.93** acres
Post-development impervious area within drainage basin/outfall area = **26.19** acres
Post-development impervious fraction within drainage basin/outfall area = **0.96**
 $L_{M \text{ THIS BASIN}}$ = **12800** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Extended Detention**
Removal efficiency = **75** percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortechs
- Wet Basin
- Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_I = Impervious area proposed in the BMP catchment area
 A_P = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP
 A_C = **27.14** acres
 A_I = **26.19** acres
 A_P = **0.95** acres
 L_R = **22441** lbs



5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L_M THIS BASIN = 13619 lbs.
F = 0.61

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = 0.60 inches
Post Development Runoff Coefficient = 0.79
On-site Water Quality Volume = 46412 cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = 0.00 acres
Off-site Impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 9282

Total Capture Volume (required water quality volume(s) x 1.20) = 55694 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate = 0.1 in/hr Enter determined permeability rate or assumed value of
Irrigation area = NA square feet
NA acres

8. Extended Detention Basin System

Designed as Required in RG-348

Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = 55694 cubic feet

9. Filter area for Sand Filters

Designed as Required in RG-348

Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = NA cubic feet
Minimum filter basin area = NA square feet
Maximum sedimentation basin area = NA square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = NA square feet For maximum water depth of 8 feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = NA cubic feet
Minimum filter basin area = NA square feet
Maximum sedimentation basin area = NA square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = NA square feet For maximum water depth of 8 feet

10. Bioretention System

Designed as Required in RG-348

Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = NA cubic feet

11. Wet Basins

Designed as Required in RG-348

Pages 3-66 to 3-71

Required capacity of Permanent Pool = NA cubic feet Permanent Pool Capacity is 1.20 times the WQV
Required capacity at WQV Elevation = NA cubic feet Total Capacity should be the Permanent Pool Capacity plus a second WQV.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **SVHS**
Date Prepared: **8/8/2024**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:

$L_{M \text{ TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Comal	
Total project area included in plan *	95.40	acres
Predevelopment impervious area within the limits of the plan *	19.40	acres
Total post-development impervious area within the limits of the plan *	44.79	acres
Total post-development impervious cover fraction *	0.47	
P =	33	inches

$L_{M \text{ TOTAL PROJECT}}$ = 22790 lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = 4

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = 4

Total drainage basin/outfall area =	0.08	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.08	acres
Post-development impervious fraction within drainage basin/outfall area =	1.00	
$L_{M \text{ THIS BASIN}}$ =	72	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent

Aqualogic Cartridge Filter
Bioretention
Contech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Irrigation
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortechs
Wet Basin
Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where:

A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	0.08	acres
A_i =	0.08	acres
A_p =	0.00	acres
L_R =	78	lbs



5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M \text{ THIS BASIN}}$ = **72** lbs.

F = **0.93**

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = **2.20** inches
Post Development Runoff Coefficient = **0.82**
On-site Water Quality Volume = **522** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = **0.00** acres
Off-site Impervious cover draining to BMP = **0.00** acres
Impervious fraction of off-site area = **0**
Off-site Runoff Coefficient = **0.00**
Off-site Water Quality Volume = **0** cubic feet

Storage for Sediment = **104**

Total Capture Volume (required water quality volume(s) x 1.20) = **626** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = **NA** cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate = **0.1** in/hr Enter determined permeability rate or assumed value of
Irrigation area = **NA** square feet
NA acres

8. Extended Detention Basin System

Designed as Required in RG-348

Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = **NA** cubic feet

9. Filter area for Sand Filters

Designed as Required in RG-348

Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = **NA** cubic feet

Minimum filter basin area = **NA** square feet

Maximum sedimentation basin area = **NA** square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = **NA** square feet For maximum water depth of 8 feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = **NA** cubic feet

Minimum filter basin area = **NA** square feet

Maximum sedimentation basin area = **NA** square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = **NA** square feet For maximum water depth of 8 feet

10. Bioretention System

Designed as Required in RG-348

Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = **NA** cubic feet

11. Wet Basins

Designed as Required in RG-348

Pages 3-66 to 3-71

Required capacity of Permanent Pool = **NA** cubic feet Permanent Pool Capacity is 1.20 times the WQV
Required capacity at WQV Elevation = **NA** cubic feet Total Capacity should be the Permanent Pool Capacity plus a second WQV.

ATTACHMENT L

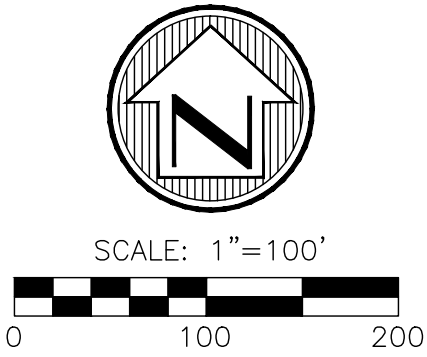
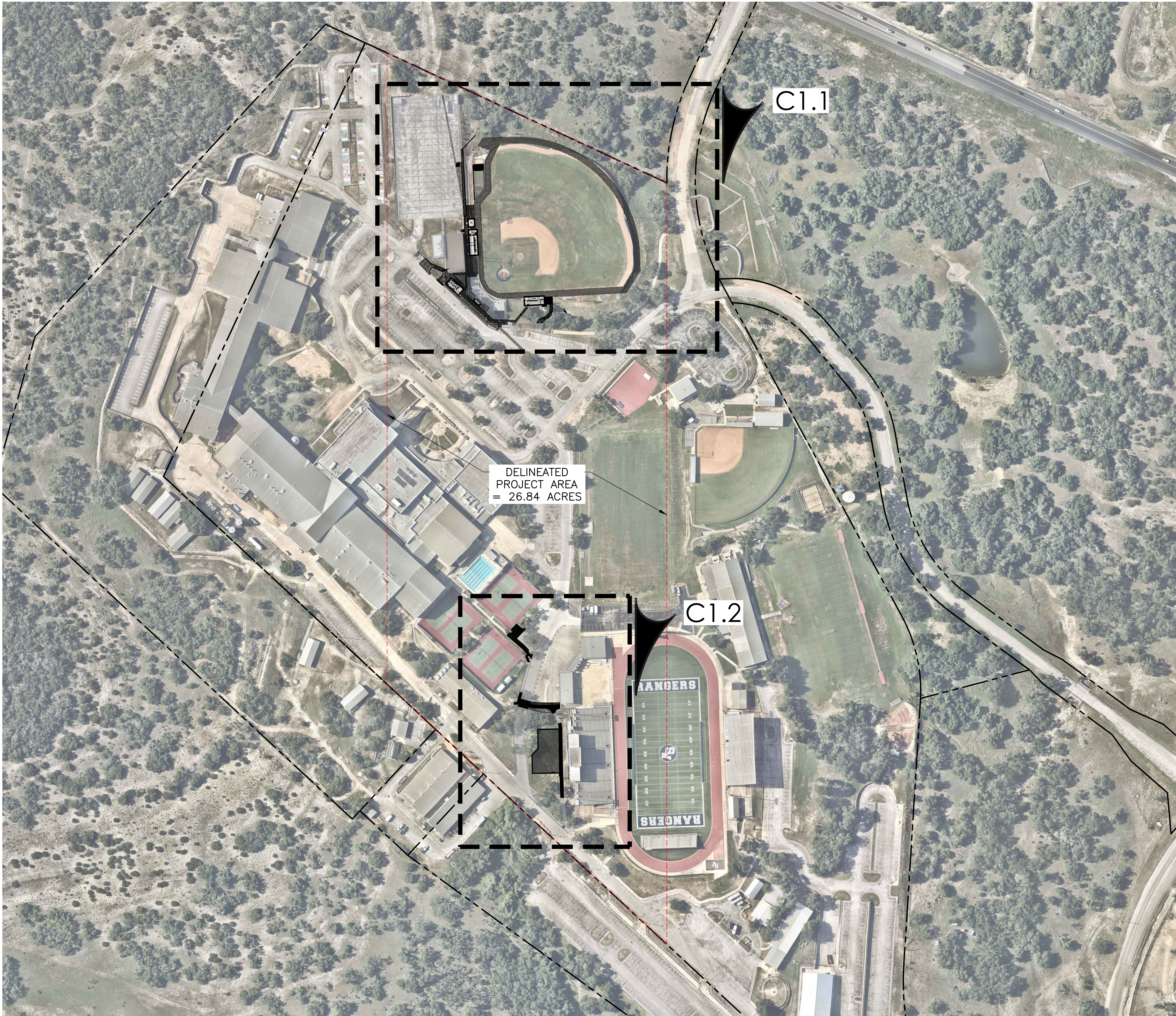
BMP's FOR SURFACE STREAMS

Surface streams do not exist on the site that would require protective measures. Permanent and temporary BMP's, as shown on the CZP Site Plan, shall be used to minimize pollutants draining to offsite surface streams, both during and after construction.

ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Both permanent and temporary BMP's, as shown on the CZP Site Plan, shall be used to minimize contamination to offsite surface streams, both during and after construction. During construction, temporary BMP's will consist of silt fence, bagged gravel inlet filters, and a gabion mattress. After construction, the permanent BMPs will consist of a sedimentation/filtration basin and engineered VFS.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
 - THE NAME OF THE APPROVED PROJECT;
 - THE ACTIVITY START DATE; AND
 - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON-SITE.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASINS DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
10. THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
 - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
 - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
 - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
11. THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
 - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPs) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERRIS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
 - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
 - C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
 - D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

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12100 Park 20 Circle, Building A
Austin, Texas 78753-1008
Phone(512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
14250 Jurine Road
San Antonio, Texas 78233-4480
Phone(210) 488-3096
Fax (210) 545-4320

GENERAL NOTES:

1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE STRUCTURES.
2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED ON PLAN.
3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED.
4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES.
5. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE ENTIRE SITE WITH THE USE OF PAVEMENT, BUILDINGS, SIDEWALKS, GRASS SOO, GRASS SEEDING AND MULCH.
6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.

REVISIONS		NO.	DATE	DESCRIPTION	BY

PROJECT #	CDL BY	DATE

• Engineers
• Surveyors
• Planners

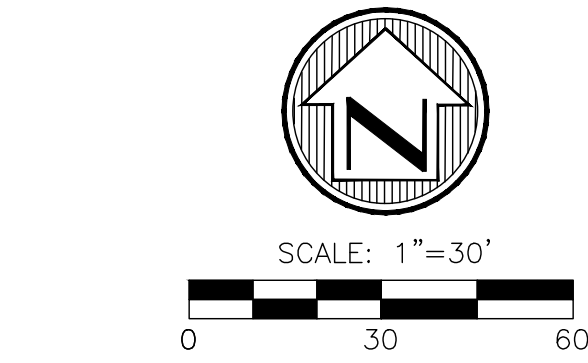
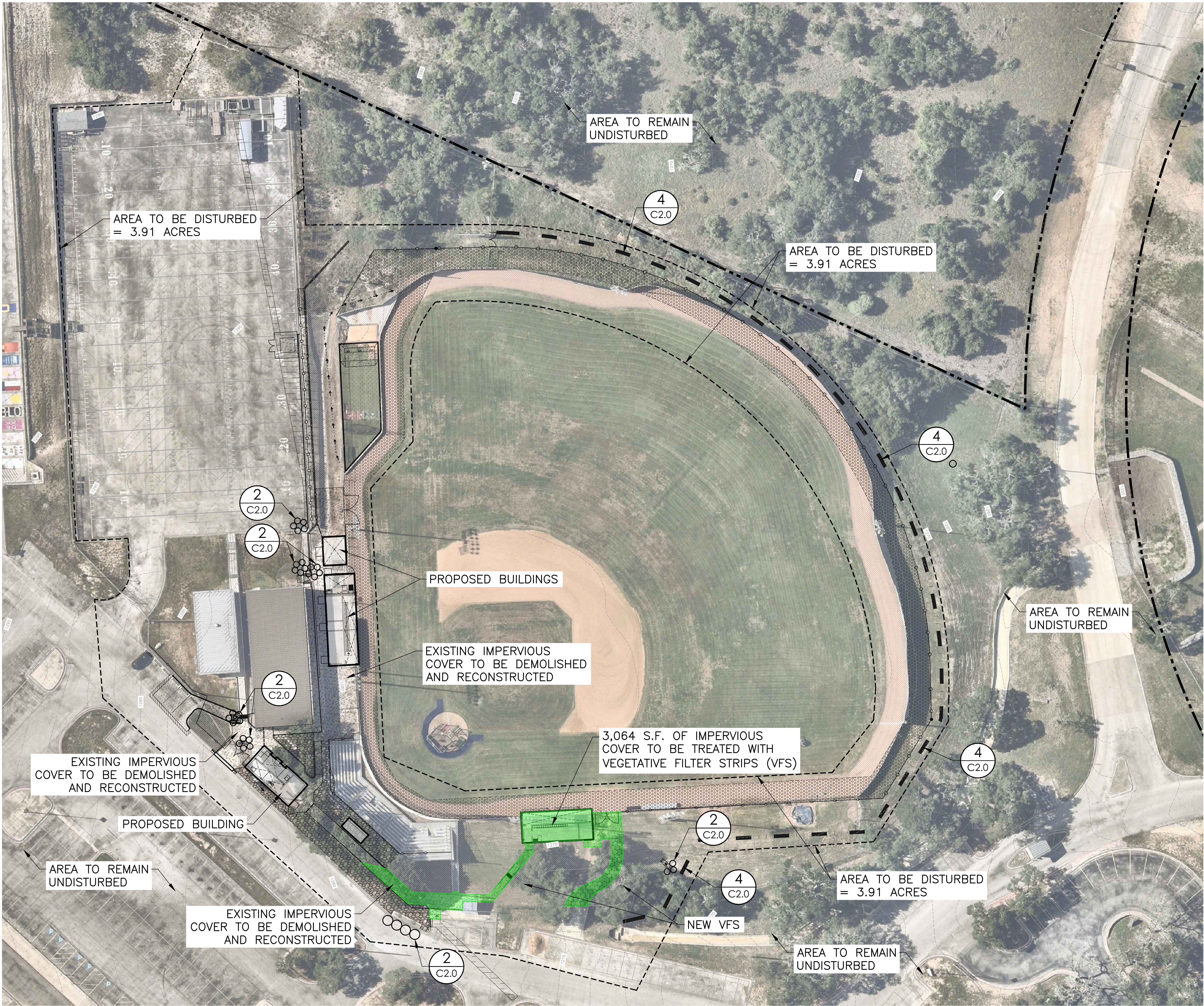
MTR

Moy Tarin Ramirez Engineers, LLC
TPEELS: ENGINEERING F-5297/SURVEYING F-01151500
12770 CHARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5065



COMAL ISD - SMITHSON VALLEY HIGH SCHOOL

CONTRIBUTING ZONE PLAN / STORM WATER POLLUTION PREVENTION PLAN



LEGEND	
	PROPERTY LINE
	EXISTING CONTOUR
	DISTURBED AREA
	SILT FENCE
	BAGGED GRAVEL INLET FILTER
	NEW CONCRETE SIDEWALK/FLATWORK
	SYNTHETIC TURF
	NEW ASPHALT PAVEMENT
	SOLID SOO

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
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3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
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6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASINS DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
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 - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
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 - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
 - C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
 - D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

Austin Regional Office
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Austin, Texas 78753-1008
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Fax (512) 339-3766

San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
Phone(210) 488-3096
Fax (210) 545-4320

GENERAL NOTES:

1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE STRUCTURES.
2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED ON PLAN.
3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED.
4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES.
5. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE ENTIRE SITE WITH THE USE OF PAVEMENT, BUILDINGS, SIDEWALKS, GRASS SOO, GRASS SEEDING AND MULCH.
6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.

REVISIONS		NO.	DATE	DESCRIPTION	BY

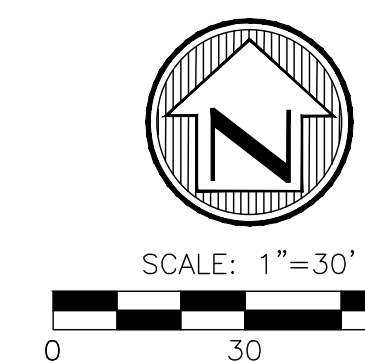
PROJECT #	CDL BY	DATE

Engineers
Surveyors
Planners








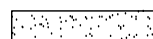
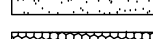
MIR

Moy Tarin Ramirez Engineers, LLC
TPELBS: ENGINEERING F-5297/SURVEYING F-011500
12770 CHAMBERLAIN PATH, SUITE 100
SAN ANTONIO, TEXAS 78249





LEGEND

- | | |
|---|--------------------------------|
|  | PROPERTY LINE |
|  | EXISTING CONTOUR |
|  | DISTURBED AREA |
|  | SILT FENCE |
|  | BAGGED GRAVEL INLET FILTER |
|  | NEW CONCRETE SIDEWALK/FLATWORK |
|  | SYNTHETIC TURF |
|  | NEW ASPHALT PAVEMENT |
|  | SOLID SOD |

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
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2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE INFORMATION REGARDING THE TCEQ REGIONAL OFFICE AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PERMIT AND REGIONAL LETTER ON SITE.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION ((E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT. THERE SHALL BE NO DISCHARGE OF SEDIMENT INTO ANY ADJACENT WATER BODY OR FEATURE.
6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER ERS CONTROLS.
- IF PORTIONS OF THE SITE WILL HAVE A GEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION MUST BE INITIATED. THIS SHALL BE INITIATED PRIOR TO ANY CONSTRUCTION ACTIVITY BEGINNING. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR UNPLEASANT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS POSSIBLE.
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 - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
11. THE HOLDER OF ANY APPROVED CDP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
- ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPs) OR STRUCTURES, INCLUDING BUT NOT LIMITED TO TRENCHES, PERMANENT POND, DRAIN, BARRIS, SILT FENCES AND OVERFLOW STRUCTURE.
 - ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED.
 - ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER OR CONTRIBUTING ZONE PLAIN.
 - ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone(512) 339-2929 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone(210) 490-3096 Fax (210) 545-4329
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GENERAL NOTES:

1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE STRUCTURES.
2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED ON PLAN.
3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED.
4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES.
5. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE ENTIRE SITE WITH THE USE OF PAVEMENT, BUILDINGS, SIDEWALKS, GRASS SOD, GRASS SEEDING AND MULCH.
6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.

[illegible]

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- Surveyors
- Planners

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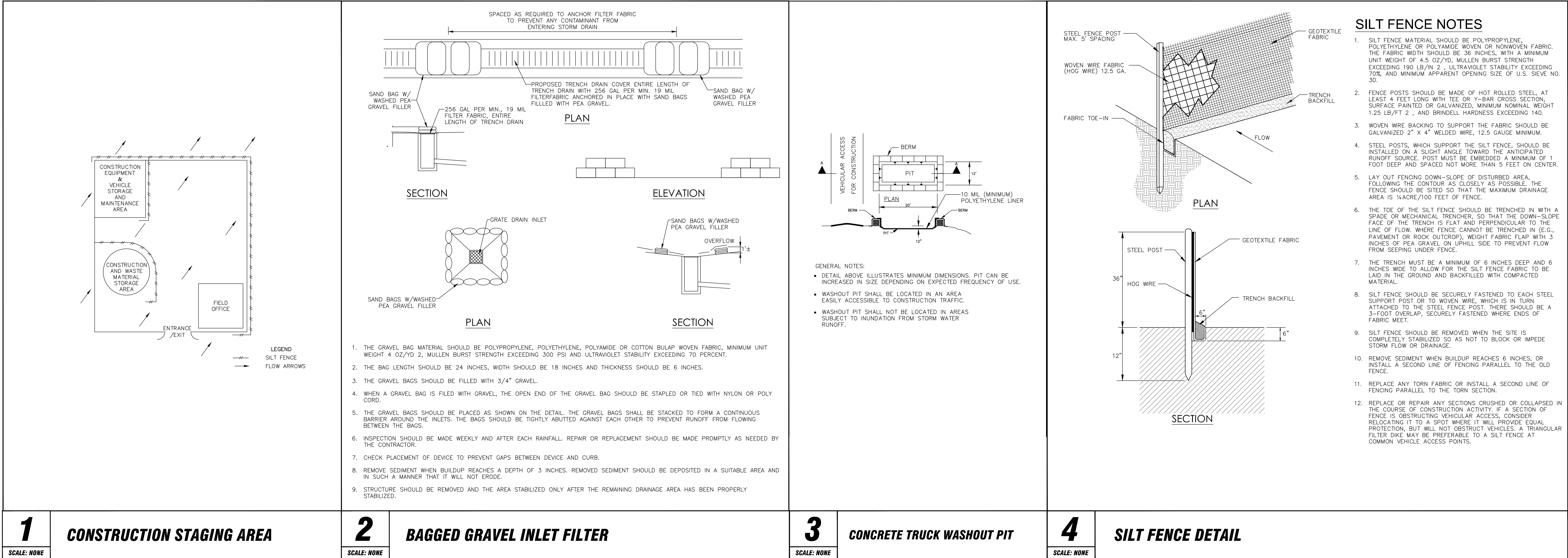


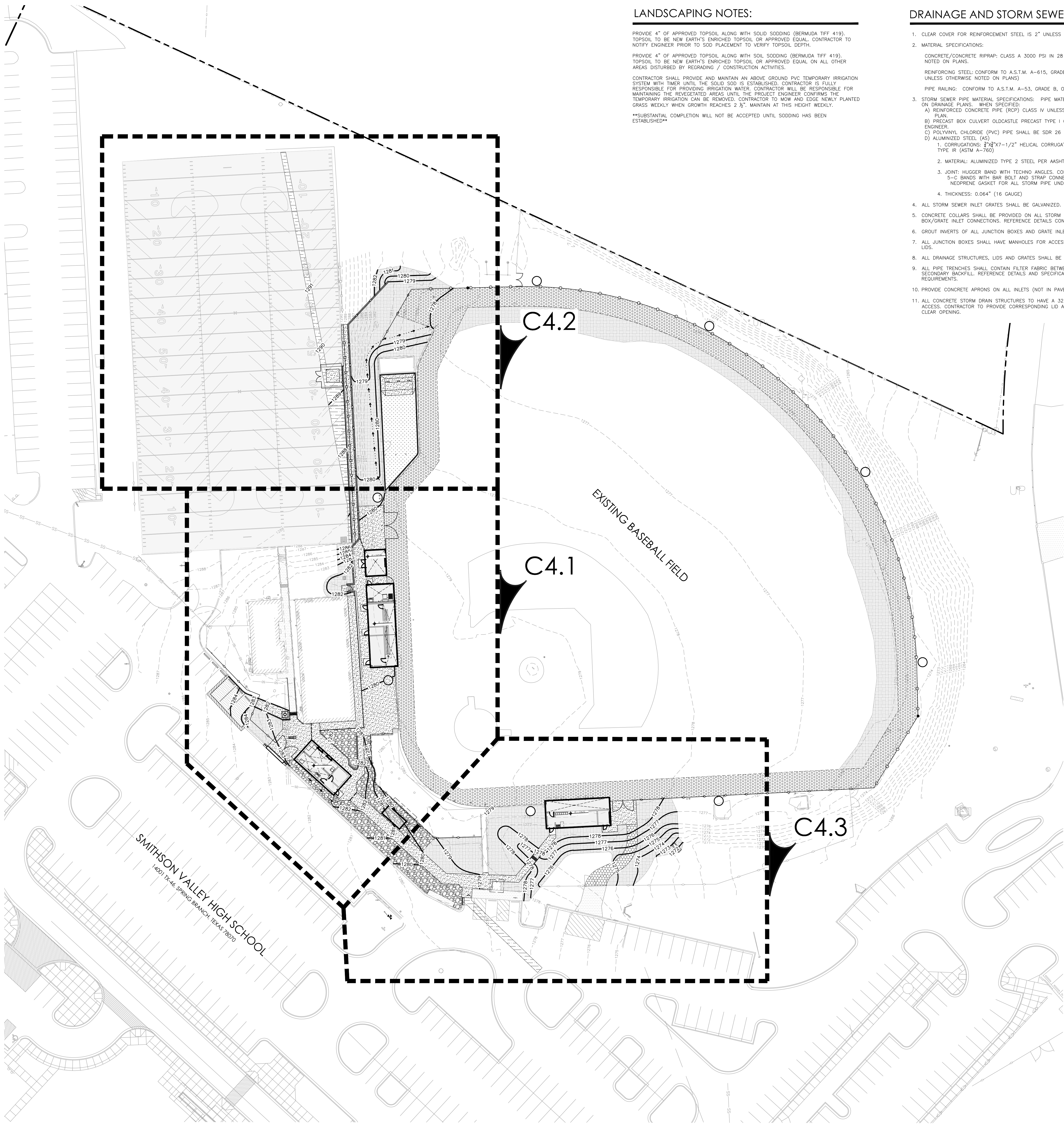
COMAL ISD - SMITHSON VALLEY HIGH SCHOOL

CONTRIBUTING ZONE PLAN / STORM WATER POLLUTION PREVENTION PLAN

SHEET

C1.2





LANDSCAPING NOTES:

PROVIDE 4" OF APPROVED TOPSOIL ALONG WITH SOLID SODDING (BERMUDA TIFF 419). TOPSOIL TO BE NEW EARTH'S ENRICHED TOPSOIL OR APPROVED EQUAL. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO SOD PLACEMENT TO VERIFY TOPSOIL DEPTH.

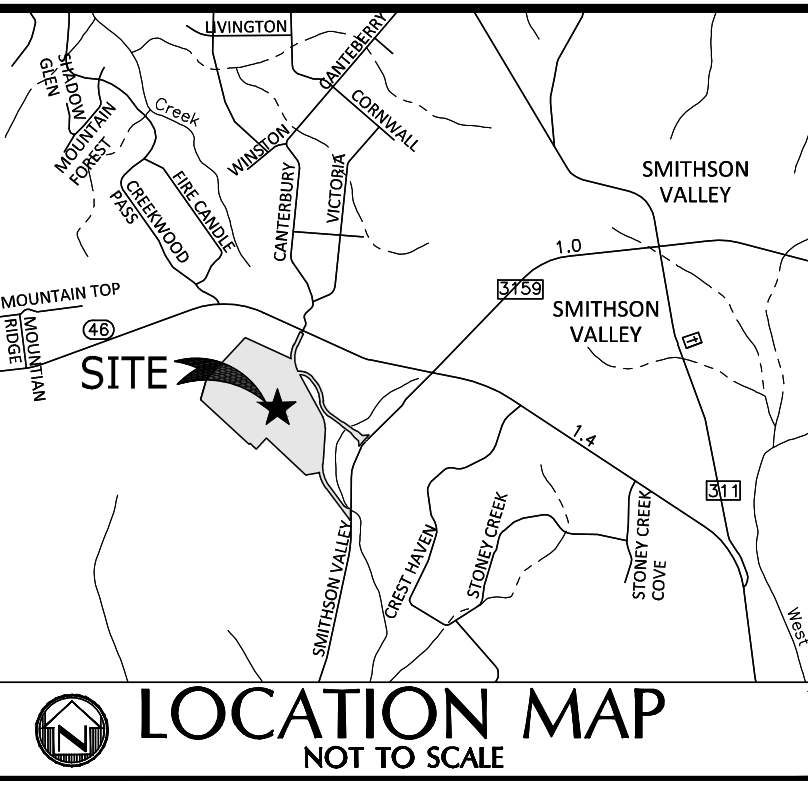
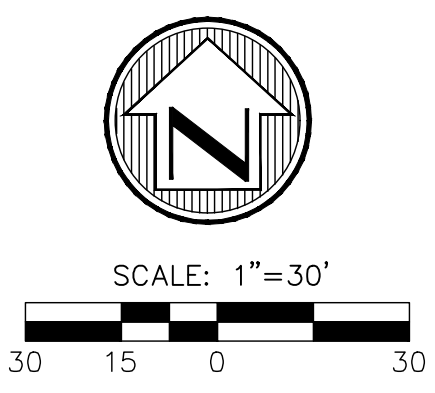
PROVIDE 4" OF APPROVED TOPSOIL ALONG WITH SOIL SODDING (BERMUDA TIFF 419). TOPSOIL TO BE NEW EARTH'S ENRICHED TOPSOIL OR APPROVED EQUAL ON ALL OTHER AREAS DISTURBED BY REGRADING / CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL PROVIDE AND MAINTAIN AN ABOVE GROUND PVC TEMPORARY IRRIGATION SYSTEM WITH TIMER UNTIL THE SOLID SOD IS ESTABLISHED. CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING IRRIGATION WATER. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE REVEGETATED AREAS UNTIL THE PROJECT ENGINEER CONFIRMS THE TEMPORARY IRRIGATION CAN BE REMOVED. CONTRACTOR TO MOW AND EDGE NEWLY PLANTED GRASS WEEKLY WHEN GROWTH REACHES 2 1/2". MAINTAIN AT THIS HEIGHT WEEKLY.

SUBSTANTIAL COMPLETION WILL NOT BE ACCEPTED UNTIL SODDING HAS BEEN ESTABLISHED

DRAINAGE AND STORM SEWER NOTES:

1. CLEAR COVER FOR REINFORCEMENT STEEL IS 2" UNLESS OTHERWISE NOTED.
2. MATERIAL SPECIFICATIONS:
CONCRETE/CONCRETE RIPRAP: CLASS A 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED ON PLANS.
REINFORCING STEEL: CONFORM TO A.S.T.M. A-615, GRADE 60 (2" CLEAR COVER UNLESS OTHERWISE NOTED ON PLANS)
PIPE RAILING: CONFORM TO A.S.T.M. A-53, GRADE B, OR A-501
3. STORM SEWER PIPE MATERIAL SPECIFICATIONS: PIPE MATERIAL SHALL BE AS NOTED ON DRAINAGE PLANS. WHEN SPECIFIED:
A) REINFORCED CONCRETE PIPE (RCP) CLASS IV UNLESS OTHERWISE SPECIFIED ON PLAN.
B) PRECAST BOX CULVERT OLDCASTLE PRECAST TYPE I OR EQUAL APPROVED BY ENGINEER.
C) POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 26 (115 psi)
D) ALUMINIZED STEEL (AS)
1. CORRUGATIONS: 3"X7-1/2" HELICAL CORRUGATIONS PER ASSHTO M-36, TYPE IR (ASTM A-760)
2. MATERIAL: ALUMINIZED TYPE 2 STEEL PER AASHTO M-274 (ASTM A-819)
3. JOINT: HUGGER BAND WITH TECHNO ANGLES. CONTRACTOR TO PROVIDE S-C BANDS WITH BAR BOLT AND STRAP CONNECTION AND 12" WIDE NEOPRENE GASKET FOR ALL STORM PIPE UNDER PAVEMENT AREAS.
4. THICKNESS: 0.064" (16 GAUGE)
4. ALL STORM SEWER INLET GRATES SHALL BE GALVANIZED.
5. CONCRETE COLLARS SHALL BE PROVIDED ON ALL STORM DRAIN TO JUNCTION BOX/GRATE INLET CONNECTIONS. REFERENCE DETAILS CONSTRUCTION REQUIREMENTS.
6. GROUT INVERTS OF ALL JUNCTION BOXES AND GRATE INLETS TO DRAIN.
7. ALL JUNCTION BOXES SHALL HAVE MANHOLES FOR ACCESS WITH BOLTED MANHOLE LIDS.
8. ALL DRAINAGE STRUCTURES, LIDS AND GRATES SHALL BE RATED FOR H20 LOADING.
9. ALL PIPE TRENCHES SHALL CONTAIN FILTER FABRIC BETWEEN THE INITIAL AND SECONDARY BACKFILL. REFERENCE DETAILS AND SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.
10. PROVIDE CONCRETE APRONS ON ALL INLETS (NOT IN PAVEMENT AREAS) PER DETAILS.
11. ALL CONCRETE STORM DRAIN STRUCTURES TO HAVE A 32" CLEAR OPENING FOR ACCESS. CONTRACTOR TO PROVIDE CORRESPONDING LID AND FRAME TO PROVIDE 32" CLEAR OPENING.



LEGEND

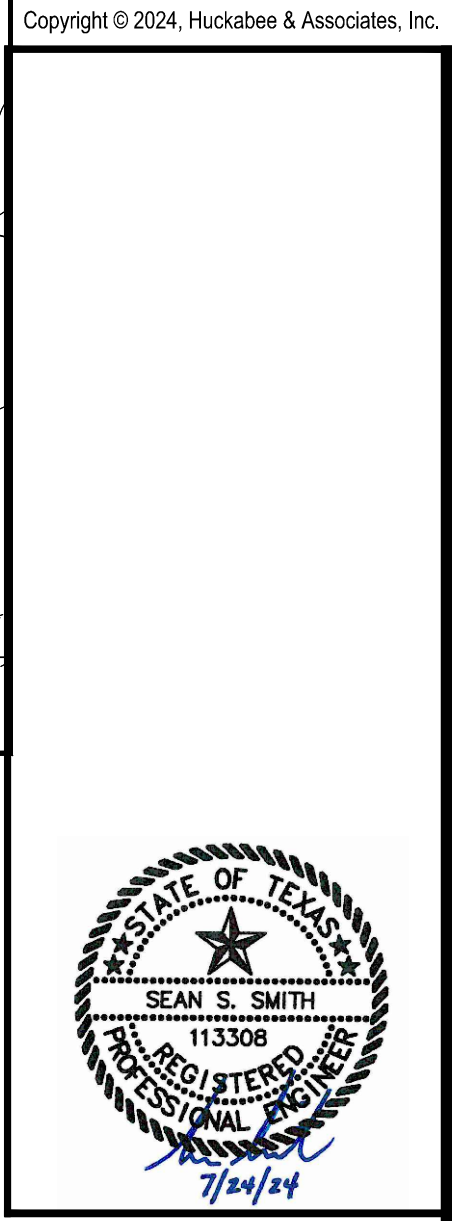
	NEW LIGHT DUTY ASPHALT	RCP	REINFORCED CONCRETE PIPE
	NEW RIGID PAVEMENT	AS	ALUMINIZED STEEL PIPE
	NEW SOD	PVC	POLYVINYL CHLORIDE PIPE
	NEW CONCRETE FLATWORK	INV	INVERT ELEVATION OF PIPE
	NEW WASHED RIVER ROCK	TW	TOP OF WALL ELEVATION
	NEW GRAVEL	TOP	TOP OF MANHOLE ELEVATION
	PROPERTY LINE	TOG	TOP OF GRATE ELEVATION
	EXISTING SPOT ELEVATION	TC	TOP OF CURB
	PROPOSED ELEVATION	G	GUTTER
	EXISTING CONTOUR	SW	TOP OF SIDEWALK
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	FLOW LINE	R.O.W.	RIGHT OF WAY
	GRADE BREAK	HP	HIGH POINT
	SIDEWALK RAMP		
	DRAINAGE FLOW ARROW		
	PROPOSED FIRE HYDRANT		
	PROPOSED TRAFFIC SIGN		

GENERAL NOTES:

1. ALL WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE SITE TO A STATE LICENSED LANDFILL. CONTRACTOR WILL BE REQUIRED TO PROVIDE DOCUMENTATION WHERE DISPOSED MATERIAL IS TAKEN TO. THE OWNER/SCHOOL DISTRICT WILL NOT BE HELD LIABLE FOR ANY WASTE MATERIAL FROM THE SITE.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND GENERALLY BE LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SCHOOL DISTRICT BUILDINGS DESIGNATED TO REMAIN IN PLACE. THE CONTRACTOR WILL ALSO BE HELD RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PRIVATE PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
4. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONNEL AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
5. THE RESPONSIBILITY OF THE ARCHITECT/ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OR OBSERVATION OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
6. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH THE SEDIMENTATION AND EROSION CONTROL PLANS AND SHALL SUBMIT NOTIFICATIONS AND PAY ALL PERMITS.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND GRADE ELEVATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. HE SHALL REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK AS HE WILL BE RESPONSIBLE FOR ALL WORK AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL DEMOLISH, REMOVE AND REPLACE OR SALVAGE EXISTING IMPROVEMENTS AS INDICATED ON THESE PLANS AND AS NECESSARY TO ALLOW FOR THE CONSTRUCTION OF NEW IMPROVEMENTS. ITEMS NOT SHOWN ON THE DRAWINGS BUT WHICH ARE IN CONFLICT WITH THE PLAN MUST BE DEMOLISHED, REMOVED AND REPLACED OR SALVAGED AS IF THOSE ITEMS WERE SHOWN ON THE PLANS. THE CONTRACTOR SHALL REPORT THESE ITEMS TO THE PROJECT ARCHITECT/ENGINEER.
9. THE CONTRACTOR SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DUST AND MUD CONTROL OF THE ENTIRE SITE DURING DEMOLITION AND THE NEW CONSTRUCTION PHASES. AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS. NO DIRECT PAYMENT WILL BE MADE FOR DUST AND MUD CONTROL.
11. PRIOR TO START OF WORK, CONTACT TEXAS 811 OR 1-800-STAR 811 TO LOCATE UNDERGROUND UTILITIES THROUGHOUT THE AREA UNDER CONSTRUCTION. THE CONTRACTOR SHALL RETAIN THE SERVICES, AND PAY ALL FEES, OF A PRIVATE UTILITY LOCATOR TO LOCATE THE PRIVATE UTILITIES INSIDE SCHOOL DISTRICT PROPERTY.
12. THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVE GROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION,

THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY PROVIDERS DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED.

13. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS, FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS IN AND AROUND TRENCH EXCAVATION.
14. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL STABILIZE ALL DISTURBED SOIL AREAS IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND RE-SOD DISTURBED SOIL AREAS WITH BERMUDA SODDING OR HYDROMULCH TO MATCH CONDITIONS PRIOR TO CONSTRUCTION, OR AS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.
15. ADJUST ALL EXISTING VALVES & UTILITIES SCHEDULED TO REMAIN TO FINAL GRADE. REFERENCE GRADING PLAN, FOR FINAL ELEVATIONS.
16. WHEN PRESSURE UTILITY SYSTEMS ARE IN VERTICAL CONFLICT WITH GRAVITY UTILITY SYSTEMS THE CONTRACTOR SHALL REROUTE PRESSURE SYSTEMS AS NECESSARY FOR PROPOSED CONSTRUCTION.
17. ANY EXISTING OFF-SITE IMPROVEMENTS OR UTILITIES REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE PROJECT ARCHITECT AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, CURBS, CONCRETE DRIVEWAYS, SIDEWALKS, STRUCTURES, AND PAVEMENT, THAT ARE NOT INDICATED TO BE REMOVED. AN INVENTORY OF EXISTING CONDITIONS SHALL BE CONDUCTED WITH CONTRACTOR AND PROJECT ARCHITECT PRIOR TO DEMOLITION.
19. NOTIFY OWNER 72 HOURS IN ADVANCE OF UTILITY SHUTDOWN.
20. CONTRACTOR SHALL COORDINATE ALL DEMOLITION CONSTRUCTION ACTIVITIES WITH OTHER DISCIPLINES AS REQUIRED.
21. CONTRACTOR IS REQUIRED TO SET AND VERIFY ALL PROJECT ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. "WATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY THE SAME MATERIALS AS WELL AS VERTICAL AND HORIZONTAL ALIGNMENT.
22. CONTRACTOR SHALL MAINTAIN CONTINUAL ALL UTILITY SERVICES (GAS, TELE, CATV, ELEC., WATER, SEWER, STORM SEWER, ETC.) TO EXISTING FACILITIES AND BUILDINGS. WHERE CONSTRUCTION IS IN THE PROXIMITY OF A UTILITY, THE CONTRACTOR WILL TAKE PRECAUTION TO PROTECT AND/OR SUPPORT THE UTILITY.
23. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF, IN THE OPINION OF THE ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE ORDERED BY THE ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.



Date

Revision /

SMITHSON VALLEY HIGH SCHOOL
BASEBALL UPGRADES
FOR
COMAL I.S.D.
SPRING BRANCH, TEXAS

Project:

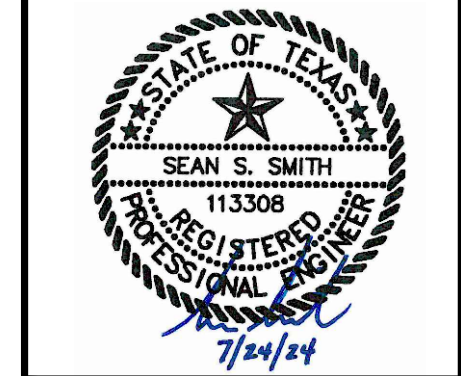
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OVERALL GRADING AND DRAINAGE PLAN

Job No. 1957-02-01	Sheet No. C4.0
Drawn By: Author	
Date: 06.14.24	
PROJECT RELEASE TYPE	



Date

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SMITHSON VALLEY HIGH SCHOOL
BASEBALL UPGRADES
FOR
COMAL I.S.D.
SPRING BRANCH, TEXAS

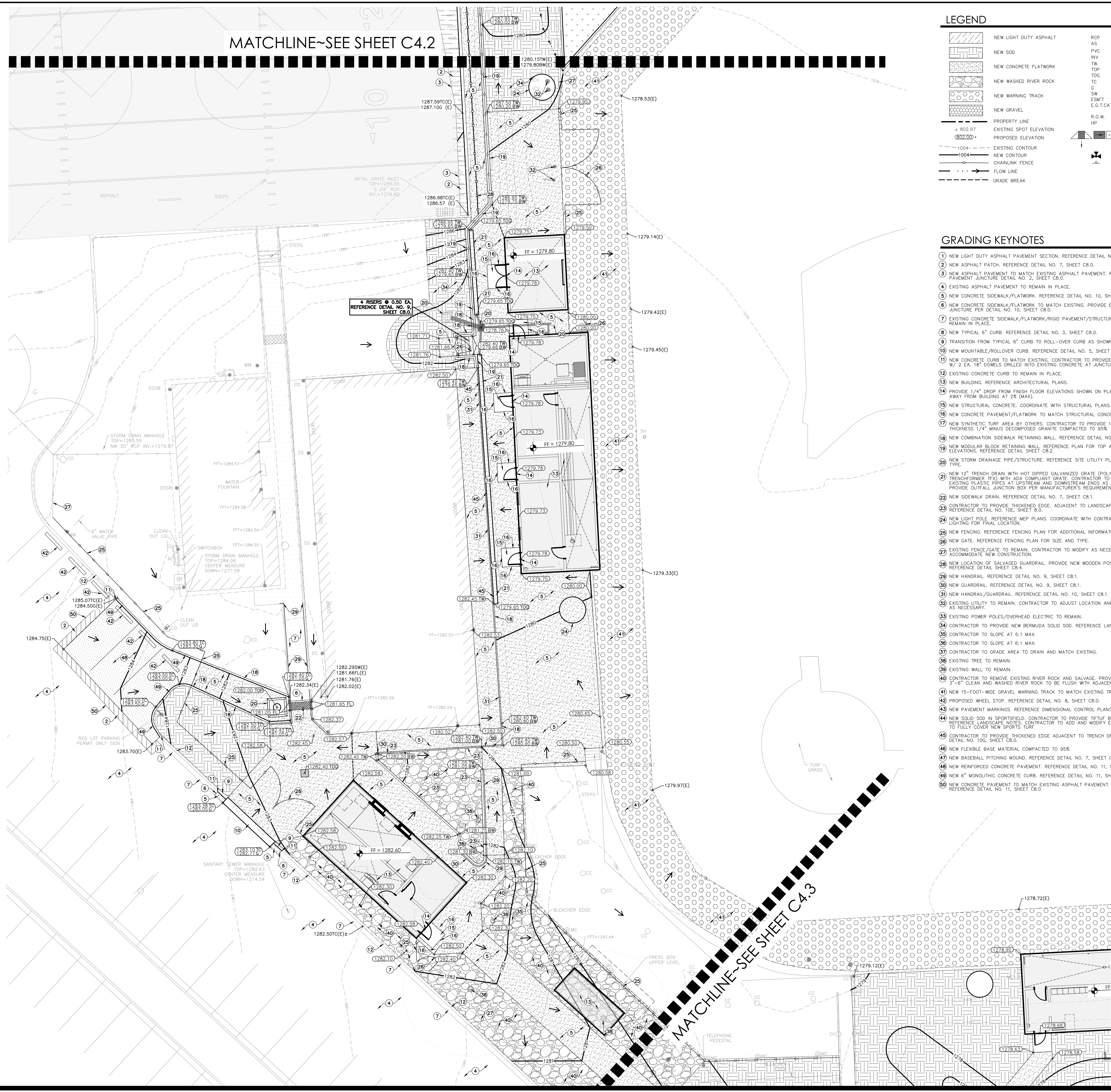
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GRADING AND DRAINAGE PLAN	
Job No. 1957-02-01	Sheet No. C4.1
Drawn By: Author	
Date: 06.14.24	
PROJECT RELEASE TYPE	



LEGEND

	NEW LIGHT DUTY ASPHALT	RCP	REINFORCED CONCRETE PIPE
	NEW SOD	AS	ALUMINIZED STEEL PIPE
	NEW CONCRETE FLATWORK	PVC	POLYVINYL CHLORIDE PIPE
	NEW WASHED RIVER ROCK	INV	INVERT ELEVATION OF PIPE
	NEW WARNING TRACK	TW	TOP OF WALL ELEVATION
	NEW GRAVEL	TOP	TOP OF MANHOLE ELEVATION
	PROPERTY LINE	TOG	TOP OF GRATE ELEVATION
	EXISTING SPOT ELEVATION	TC	TOP OF CURB
	PROPOSED ELEVATION	G	GUTTER
	EXISTING CONTOUR	SW	TOP OF SIDEWALK
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	CHAINLINK FENCE	E.G.T.CATV	ELECTRIC, GAS, TELEPHONE & CABLE T.V.
	FLOW LINE	R.O.W.	RIGHT OF WAY
	GRADE BREAK	HP	HIGH POINT
	SIDEWALK RAMP		
	DRAINAGE FLOW ARROW		
	PROPOSED FIRE HYDRANT		
	PROPOSED TRAFFIC SIGN		

GRADING KEYNOTES

- 1 NEW LIGHT DUTY ASPHALT PAVEMENT SECTION. REFERENCE DETAIL NO. 1, SHEET C8.0.
- 2 NEW ASPHALT PATCH. REFERENCE DETAIL NO. 7, SHEET C8.0.
- 3 NEW ASPHALT PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE ASPHALT PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C8.0.
- 4 EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
- 5 NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 10, SHEET C8.0.
- 6 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 10, SHEET C8.0.
- 7 EXISTING CONCRETE SIDEWALK/FLATWORK/RIGID PAVEMENT/STRUCTURAL CONCRETE TO REMAIN IN PLACE.
- 8 NEW TYPICAL 6" CURB. REFERENCE DETAIL NO. 3, SHEET C8.0.
- 9 TRANSITION FROM TYPICAL 6" CURB TO ROLL-OVER CURB AS SHOWN ON PLAN.
- 10 NEW MOUNTABLE/ROLLOVER CURB. REFERENCE DETAIL NO. 5, SHEET C8.0.
- 11 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 1/2" DIA. 18" DOMES DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
- 12 EXISTING CONCRETE CURB TO REMAIN IN PLACE.
- 13 NEW BUILDING. REFERENCE ARCHITECTURAL PLANS.
- 14 PROVIDE 1/4" DROP FROM FINISH FLOOR ELEVATIONS SHOWN ON PLAN AND SLOPE AWAY FROM BUILDING AT 2% (MAX).
- 15 NEW STRUCTURAL CONCRETE. COORDINATE WITH STRUCTURAL PLANS.
- 16 NEW CONCRETE PAVEMENT/FLATWORK TO MATCH STRUCTURAL CONCRETE.
- 17 NEW SYNTHETIC TURF AREA BY OTHERS. CONTRACTOR TO PROVIDE 1" MINIMUM THICKNESS 1/4" MINUS DECOMPOSED GRANITE COMPACTED TO 95%.
- 18 NEW COMBINATION SIDEWALK RETAINING WALL. REFERENCE DETAIL NO. 12, SHEET C8.1.
- 19 NEW MODULAR BLOCK RETAINING WALL. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. REFERENCE DETAIL SHEET C8.2.
- 20 NEW STORM DRAINAGE PIPE/STRUCTURE. REFERENCE SITE UTILITY PLAN FOR SIZE AND TYPE.
- 21 NEW 12" TRENCH DRAIN WITH HOT DIPPED GALVANIZED GRATE (POLYDRAIN TRENCHFORMER TFX) WITH ADA COMPLIANT GRATE. CONTRACTOR TO CONNECT TO EXISTING PLASTIC PIPES AT UPSTREAM AND DOWNSTREAM ENDS AS NECESSARY. PROVIDE OUTFALL JUNCTION BOX PER MANUFACTURER'S REQUIREMENTS.
- 22 NEW SIDEWALK DRAIN. REFERENCE DETAIL NO. 7, SHEET C8.1.
- 23 CONTRACTOR TO PROVIDE THICKENED EDGE ADJACENT TO LANDSCAPE AREA. REFERENCE DETAIL NO. 10C, SHEET 8.0.
- 24 NEW LIGHT POLE. REFERENCE MEP PLANS. COORDINATE WITH CONTRACTOR AND MUSCO LIGHTING FOR FINAL LOCATION.
- 25 NEW FENCING. REFERENCE FENCING PLAN FOR ADDITIONAL INFORMATION.
- 26 NEW GATE. REFERENCE FENCING PLAN FOR SIZE AND TYPE.
- 27 EXISTING FENCE/GATE TO REMAIN. CONTRACTOR TO MODIFY AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.
- 28 NEW LOCATION OF SALVAGED GUARDRAIL. PROVIDE NEW WOODEN POSTS. REFERENCE DETAIL SHEET C8.4.
- 29 NEW HANDRAIL. REFERENCE DETAIL NO. 9, SHEET C8.1.
- 30 NEW GUARDRAIL. REFERENCE DETAIL NO. 9, SHEET C8.1.
- 31 NEW HANDRAIL/GUARDRAIL. REFERENCE DETAIL NO. 10, SHEET C8.1.
- 32 EXISTING UTILITY TO REMAIN. CONTRACTOR TO ADJUST LOCATION AND TO FINISH GRADE AS NECESSARY.
- 33 EXISTING POWER POLES/OVERHEAD ELECTRIC TO REMAIN.
- 34 CONTRACTOR TO PROVIDE NEW BERMUDA SOLID SOD. REFERENCE LANDSCAPE NOTES.
- 35 CONTRACTOR TO SLOPE AT 5:1 MAX.
- 36 CONTRACTOR TO SLOPE AT 6:1 MAX.
- 37 CONTRACTOR TO GRADE AREA TO DRAIN AND MATCH EXISTING.
- 38 EXISTING TREE TO REMAIN.
- 39 EXISTING WALL TO REMAIN.
- 40 CONTRACTOR TO REMOVE EXISTING RIVER ROCK AND SALVAGE. PROVIDE ADDITIONAL 3'-6" CLEAN AND WASHED RIVER ROCK TO BE FLUSH WITH ADJACENT CURB/SIDEWALK.
- 41 NEW 15'-FOOT-WIDE GRAVEL WARNING TRACK TO MATCH EXISTING TRACK MATERIAL.
- 42 PROPOSED WHEEL STOP. REFERENCE DETAIL NO. 8, SHEET C8.0.
- 43 NEW PAVEMENT MARKINGS. REFERENCE DIMENSIONAL CONTROL PLANS.
- 44 NEW SOLID SOD IN SPORTSFIELD. CONTRACTOR TO PROVIDE TITUL BERMUDA. REFERENCE LANDSCAPE NOTES. CONTRACTOR TO ADD AND MODIFY EXISTING IRRIGATION TO FULLY COVER NEW SPORTS TURF.
- 45 CONTRACTOR TO PROVIDE THICKENED EDGE ADJACENT TO TRENCH DRAIN. REFERENCE DETAIL NO. 10C, SHEET C8.0.
- 46 NEW FLEXIBLE BASE MATERIAL COMPACTED TO 95%.
- 47 NEW BASEBALL PITCHING MOUND. REFERENCE DETAIL NO. 7, SHEET C8.2.
- 48 NEW REINFORCED CONCRETE PAVEMENT. REFERENCE DETAIL NO. 11, SHEET C8.0.
- 49 NEW 6" MONOLITHIC CONCRETE CURB. REFERENCE DETAIL NO. 11, SHEET C8.0.
- 50 NEW CONCRETE PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE DETAIL NO. 11, SHEET C8.0.

KEY MAP
NOT TO SCALE

SCALE: 1"=10'
10 5 0 10

MATCHLINE~SEE SHEET C4.3



Date

Revision /

SMITHSON VALLEY HIGH SCHOOL
BASEBALL UPGRADES
FOR
COMAL I.S.D.
SPRING BRANCH, TEXAS

Project:

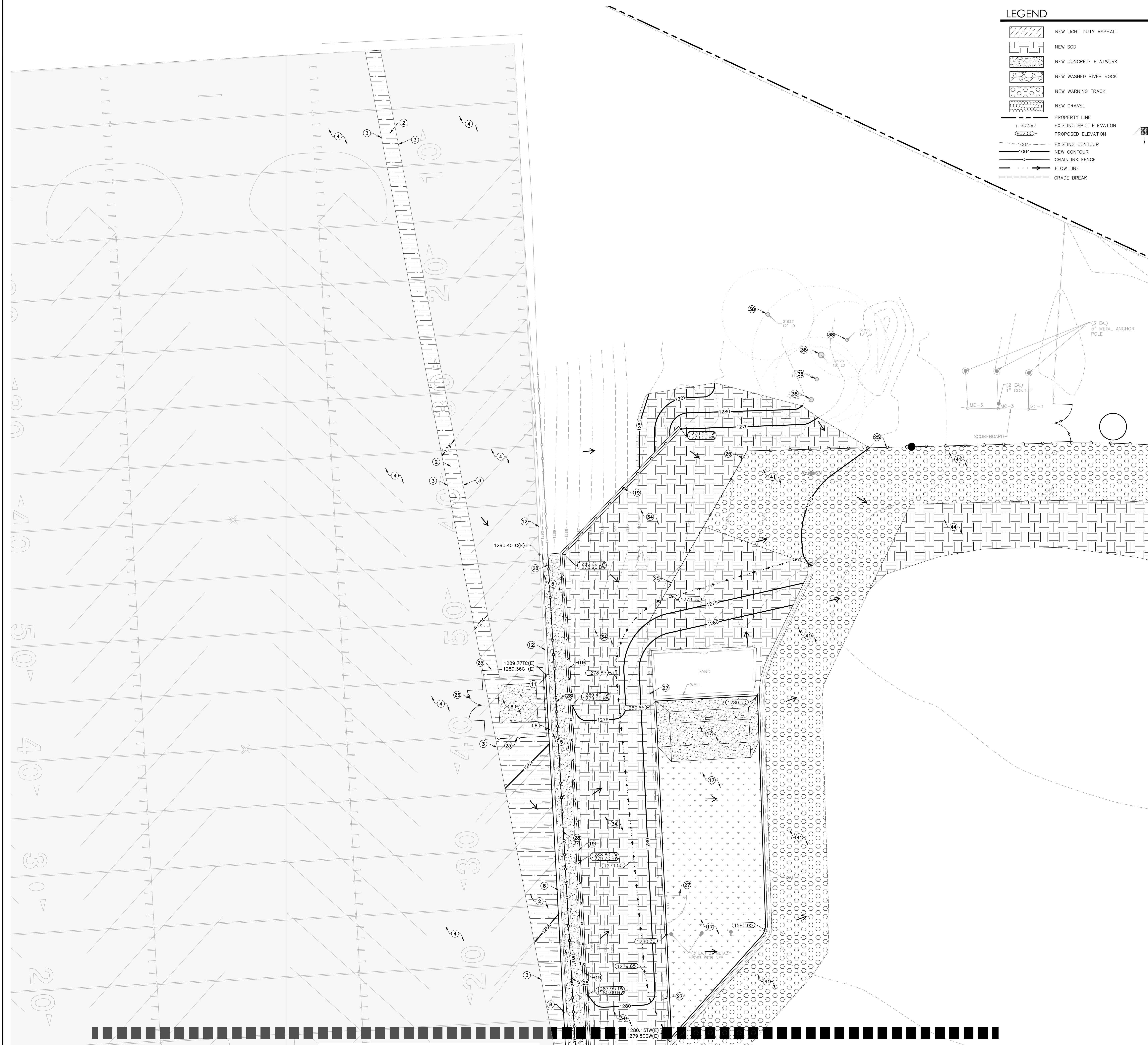
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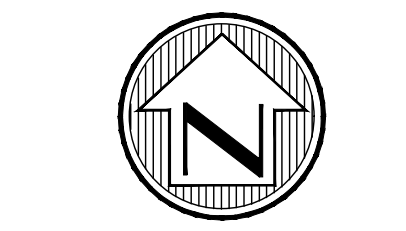
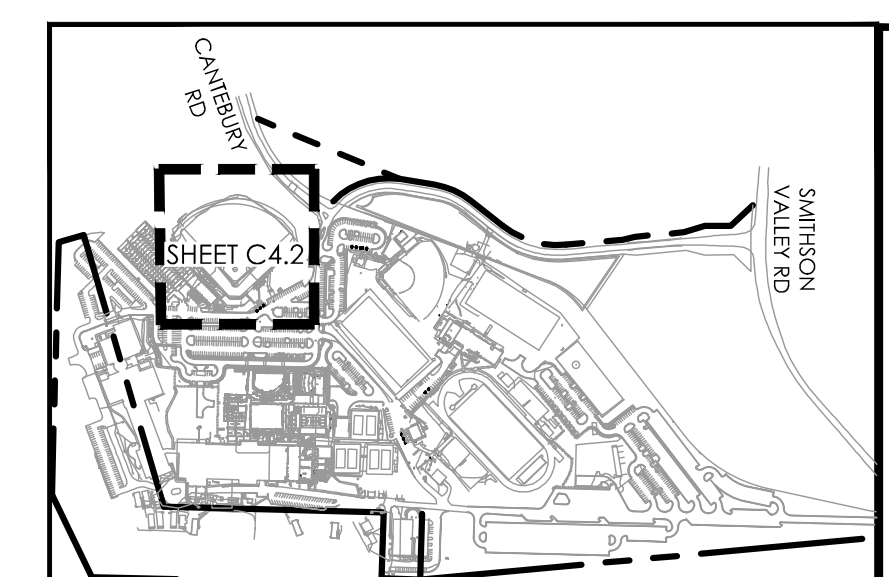
GRADING AND
DRAINAGE PLAN

Job No.
1957-02-01
Sheet No.
C4.2
Drawn By:
Author:
Date:
06/14/24
PROJECT RELEASE TYPE



LEGEND

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SCALE: 1"=10'
10 5 0 10

GRADING KEYNOTES

- 1 NEW LIGHT DUTY ASPHALT PAVEMENT SECTION. REFERENCE DETAIL NO. 1, SHEET C8.0.
- 2 NEW ASPHALT PATCH. REFERENCE DETAIL NO. 7, SHEET C8.0.
- 3 NEW ASPHALT PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE ASPHALT PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C8.0.
- 4 EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
- 5 NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 10, SHEET C8.0.
- 6 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 10, SHEET C8.0.
- 7 EXISTING CONCRETE SIDEWALK/FLATWORK/RIGID PAVEMENT/STRUCTURAL CONCRETE TO REMAIN IN PLACE.
- 8 NEW TYPICAL 6" CURB. REFERENCE DETAIL NO. 3, SHEET C8.0.
- 9 TRANSITION FROM TYPICAL 6" CURB TO ROLL-OVER CURB AS SHOWN ON PLAN.
- 10 NEW MOUNTABLE/ROLLOVER CURB. REFERENCE DETAIL NO. 5, SHEET C8.0.
- 11 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 EA. 18" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
- 12 EXISTING CONCRETE CURB TO REMAIN IN PLACE.
- 13 NEW BUILDING. REFERENCE ARCHITECTURAL PLANS.
- 14 PROVIDE 1/4" DROP FROM FINISH FLOOR ELEVATIONS SHOWN ON PLAN AND SLOPE AWAY FROM BUILDING AT 2% (MAX).
- 15 NEW STRUCTURAL CONCRETE. COORDINATE WITH STRUCTURAL PLANS.
- 16 NEW CONCRETE PAVEMENT/FLATWORK TO MATCH STRUCTURAL CONCRETE.
- 17 NEW SYNTHETIC TURF AREA BY OTHERS. CONTRACTOR TO PROVIDE 1" MINIMUM THICKNESS 1/4" MINUS DECOMPOSED GRANITE COMPACTED TO 95%.
- 18 NEW COMBINATION SIDEWALK RETAINING WALL. REFERENCE DETAIL NO. 12, SHEET C8.1.
- 19 NEW MODULAR BLOCK RETAINING WALL. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. REFERENCE DETAIL SHEET C8.2.
- 20 NEW STORM DRAINAGE PIPE/STRUCTURE. REFERENCE SITE UTILITY PLAN FOR SIZE AND TYPE.
- 21 NEW 12" TRENCH DRAIN WITH HOT DIPPED GALVANIZED GRATE (POLYDRAIN TRENCHFORMER TFX) WITH ADA COMPLIANT GRATE. CONTRACTOR TO CONNECT TO EXISTING PLASTIC PIPES AT UPSTREAM AND DOWNSTREAM ENDS AS NECESSARY. PROVIDE OUTFALL JUNCTION BOX PER MANUFACTURER'S REQUIREMENTS.
- 22 NEW SIDEWALK DRAIN. REFERENCE DETAIL NO. 7, SHEET C8.1.
- 23 CONTRACTOR TO PROVIDE THICKENED EDGE ADJACENT TO LANDSCAPE AREA. REFERENCE DETAIL NO. 10E, SHEET 8.0.
- 24 NEW LIGHT POLE. REFERENCE MEP PLANS. COORDINATE WITH CONTRACTOR AND MUSCO LIGHTING FOR FINAL LOCATION.
- 25 NEW FENCING. REFERENCE FENCING PLAN FOR ADDITIONAL INFORMATION.
- 26 NEW GATE. REFERENCE FENCING PLAN FOR SIZE AND TYPE.
- 27 EXISTING FENCE/GATE TO REMAIN. CONTRACTOR TO MODIFY AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.
- 28 NEW LOCATION OF SALVAGED GUARDRAIL. PROVIDE NEW WOODEN POSTS. REFERENCE DETAIL SHEET C8.4.
- 29 NEW HANDRAIL. REFERENCE DETAIL NO. 9, SHEET C8.1.
- 30 NEW GUARDRAIL. REFERENCE DETAIL NO. 9, SHEET C8.1.
- 31 NEW HANDRAIL/GUARDRAIL. REFERENCE DETAIL NO. 10, SHEET C8.1.
- 32 EXISTING UTILITY TO REMAIN. CONTRACTOR TO ADJUST LOCATION AND TO FINISH GRADE AS NECESSARY.
- 33 EXISTING POWER POLES/OVERHEAD ELECTRIC TO REMAIN.
- 34 CONTRACTOR TO PROVIDE NEW BERMUDA SOLID SOD. REFERENCE LANDSCAPE NOTES.
- 35 CONTRACTOR TO SLOPE AT 5:1 MAX.
- 36 CONTRACTOR TO SLOPE AT 6:1 MAX.
- 37 CONTRACTOR TO GRADE AREA TO DRAIN AND MATCH EXISTING.
- 38 EXISTING TREE TO REMAIN.
- 39 EXISTING WALL TO REMAIN.
- 40 CONTRACTOR TO REMOVE EXISTING RIVER ROCK AND SALVAGE. PROVIDE ADDITIONAL 3"-6" CLEAN AND WASHED RIVER ROCK TO BE FLUSH WITH ADJACENT CURB/SIDEWALK.
- 41 NEW 15-FOOT-WIDE GRAVEL WARNING TRACK TO MATCH EXISTING TRACK MATERIAL.
- 42 PROPOSED WHEEL STOP. REFERENCE DETAIL NO. 8, SHEET C8.0.
- 43 NEW PAVEMENT MARKINGS. REFERENCE DIMENSIONAL CONTROL PLANS.
- 44 NEW SOLID SOD IN SPORTSFIELD. CONTRACTOR TO PROVIDE TIFU BERMUDA. REFERENCE LANDSCAPE NOTES. CONTRACTOR TO ADD AND MODIFY EXISTING IRRIGATION TO FULLY COVER NEW SPORTS TURF.
- 45 CONTRACTOR TO PROVIDE THICKENED EDGE ADJACENT TO TRENCH DRAIN. REFERENCE DETAIL NO. 10G, SHEET C8.0.
- 46 NEW FLEXIBLE BASE MATERIAL COMPACTED TO 95%.
- 47 NEW BASEBALL PITCHING MOUND. REFERENCE DETAIL NO. 7, SHEET C8.2.
- 48 NEW REINFORCED CONCRETE PAVEMENT. REFERENCE DETAIL NO. 11, SHEET C8.0.
- 49 NEW 6" MONOLITHIC CONCRETE CURB. REFERENCE DETAIL NO. 11, SHEET C8.0.
- 50 NEW CONCRETE PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE DETAIL NO. 11, SHEET C8.0.

MATCHLINE~SEE SHEET C4.1



Date

Revision /

SMITHSON VALLEY HIGH SCHOOL
BASEBALL UPGRADES
FOR
COMAL I.S.D.
SPRING BRANCH, TEXAS

Project

MTR
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• Surveyors
• Planners
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Kenneth D. Martin
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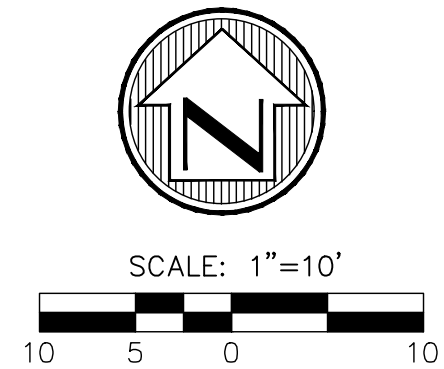
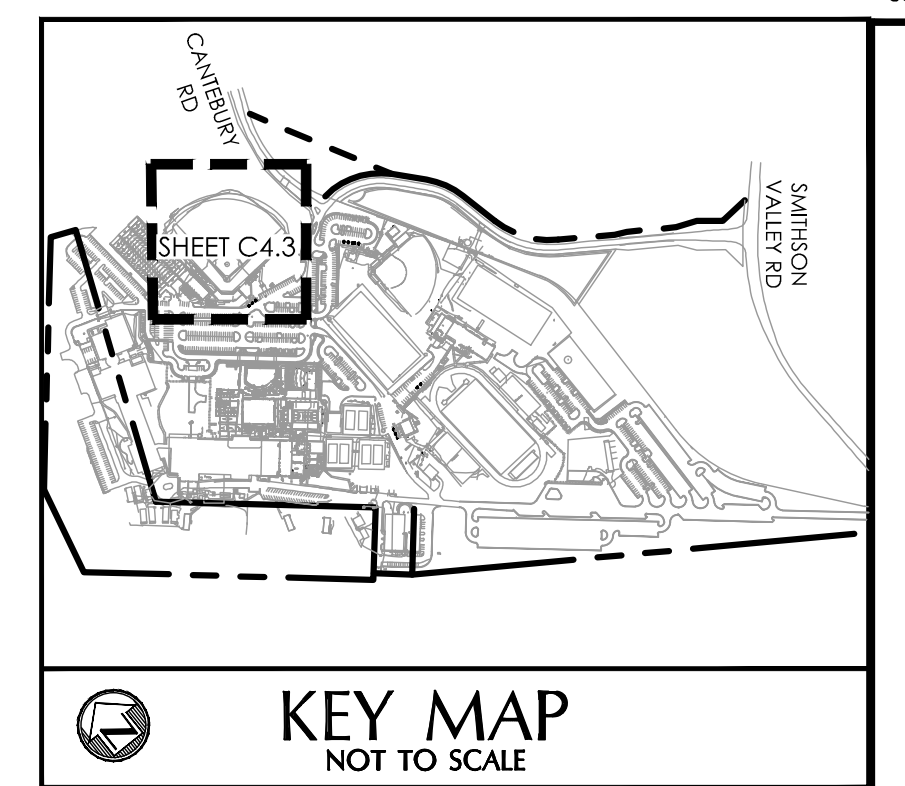
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GRADING AND
DRAINAGE PLAN

Job No.
1957-02-01
Sheet No.
C4.3
Drawn By:
Author:
Date:
06/14/24
PROJECT RELEASE TYPE

LEGEND

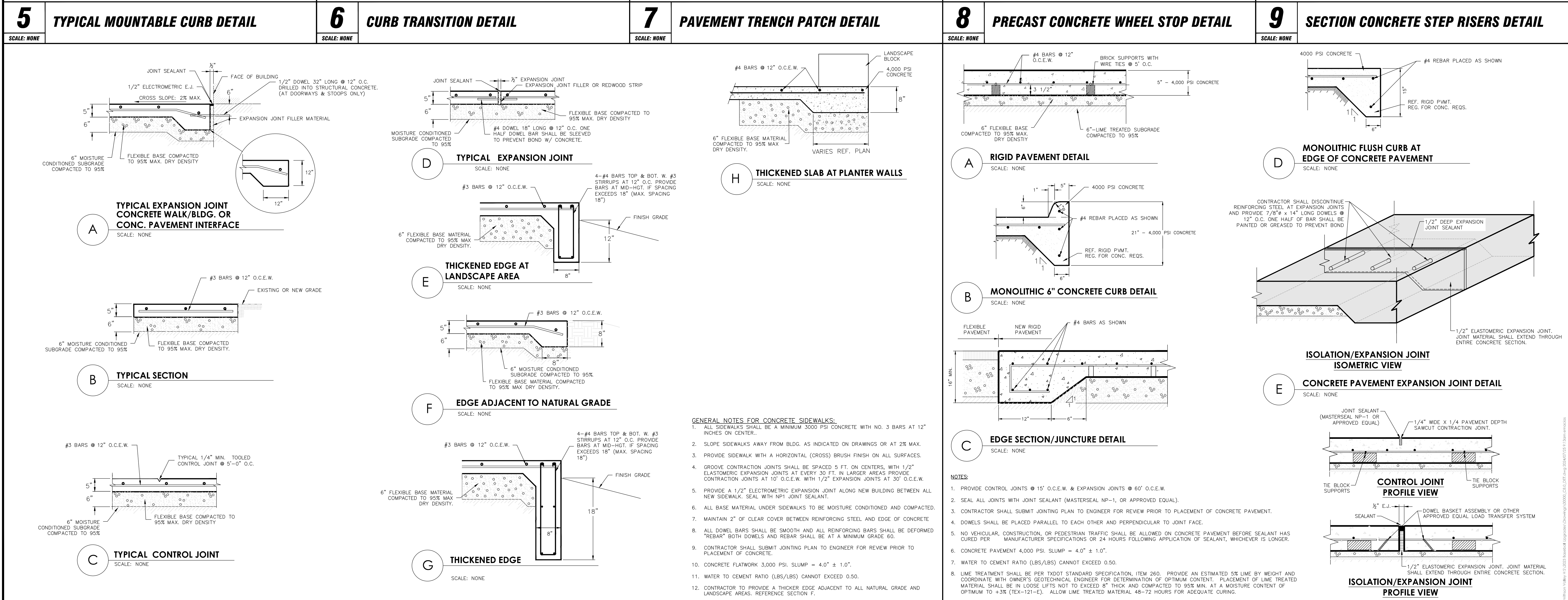
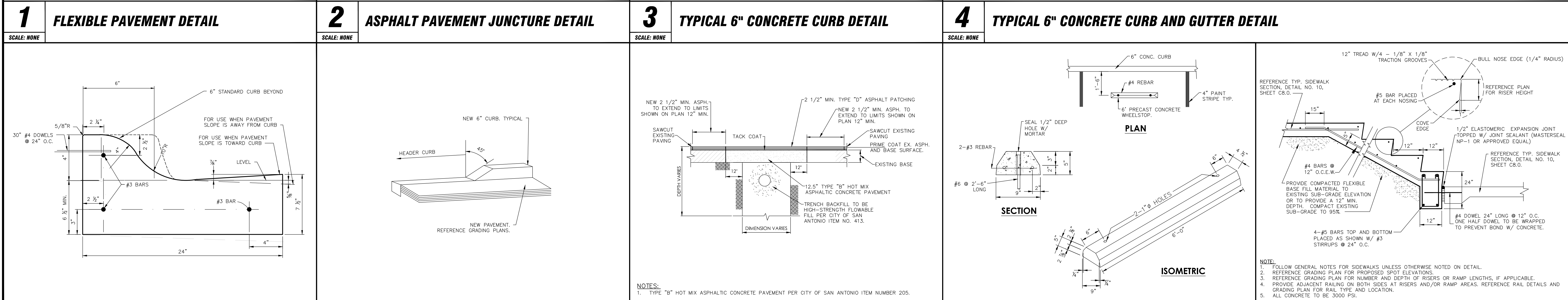
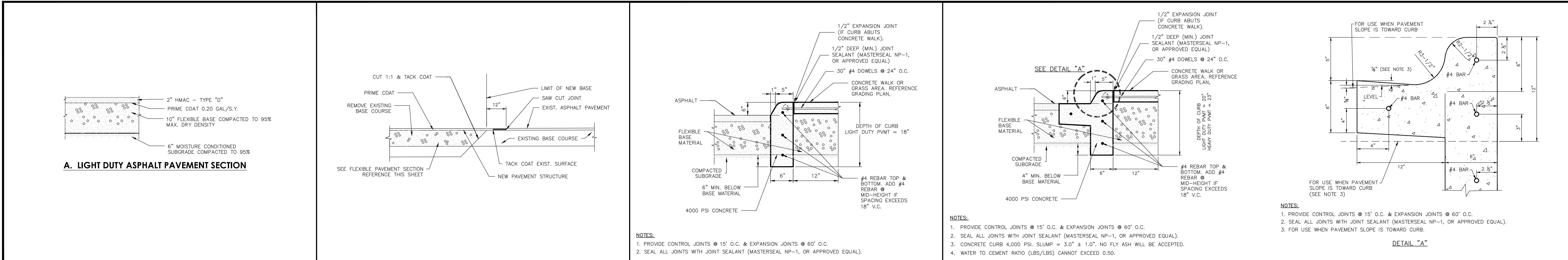
	NEW LIGHT DUTY ASPHALT	RCP	REINFORCED CONCRETE PIPE
	NEW SOD	AS	ALUMINIZED STEEL PIPE
	NEW CONCRETE FLATWORK	PVC	POLYVINYL CHLORIDE PIPE
	NEW WASHED RIVER ROCK	INV	INVERT ELEVATION OF PIPE
	NEW WARNING TRACK	TW	TOP OF WALL ELEVATION
	NEW GRAVEL	TM	TOP OF MANHOLE ELEVATION
	PROPERTY LINE	TC	TOP OF GRATE ELEVATION
	EXISTING SPOT ELEVATION	TOG	TOP OF CURB
	PROPOSED ELEVATION	G	GUTTER
	EXISTING CONTOUR	SW	TOP OF SIDEWALK
	NEW CONTOUR	ESM/T	EASEMENT
	CHAINLINK FENCE	E.G.T.CATV	ELECTRIC, GAS, TELEPHONE & CABLE T.V.
	FLOW LINE	R.O.W.	RIGHT OF WAY
	GRADE BREAK	HP	HIGH POINT
	SIDEWALK RAMP		
	DRAINAGE FLOW ARROW		
	PROPOSED FIRE HYDRANT		
	PROPOSED TRAFFIC SIGN		



GRADING KEYNOTES

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- NEW MODULAR BLOCK RETAINING WALL. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. REFERENCE DETAIL SHEET C8.2.
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SEAN S. SMITH
113308
REGISTERED PROFESSIONAL ENGINEER
7/14/14

Date: _____

Revision: _____

SMITHSON VALLEY HIGH SCHOOL
BASEBALL UPGRADES
FOR
COMAL I.S.D.
SPRING BRANCH, TEXAS

Project: _____

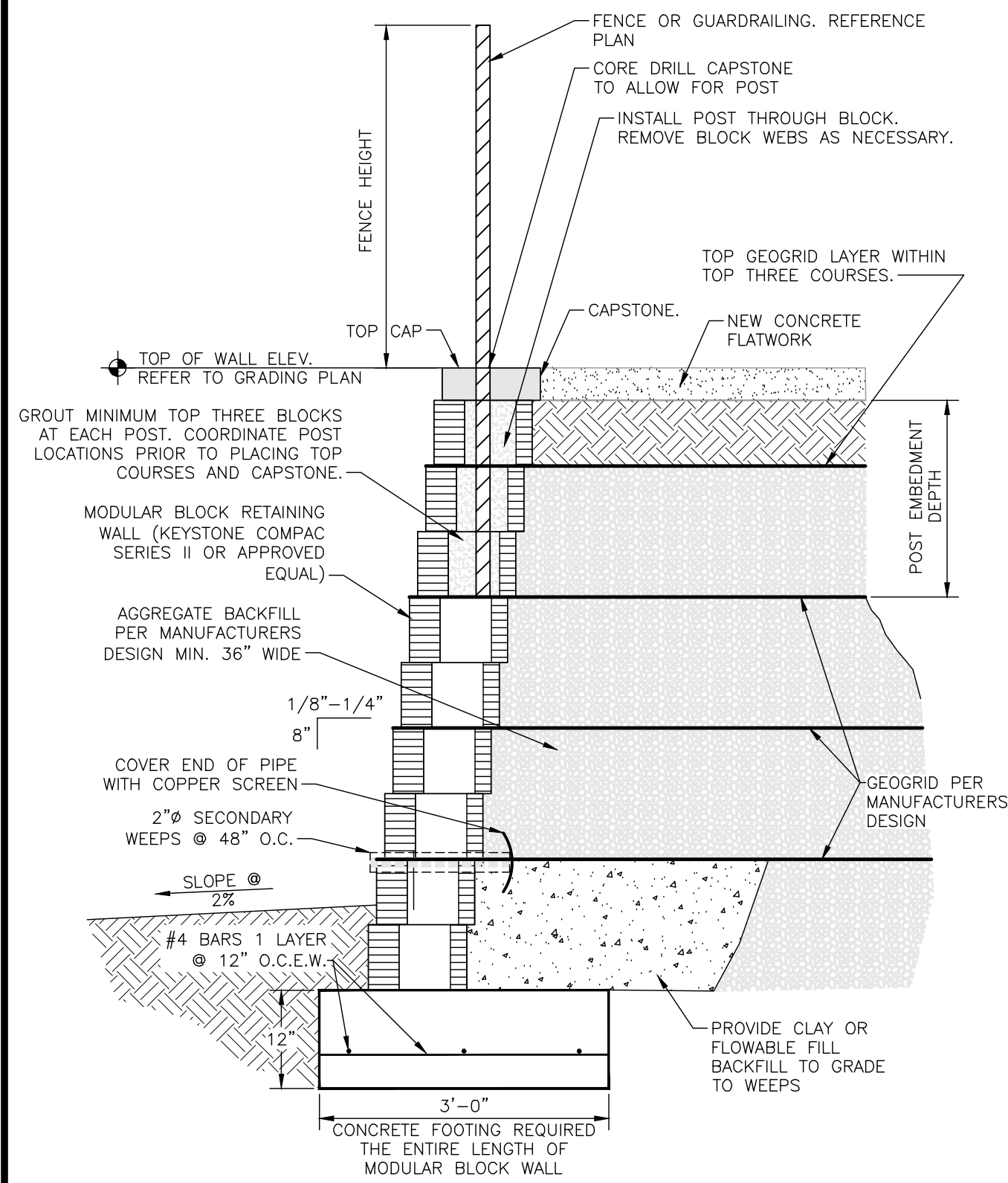
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TX 25760

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Job No.: 1957-02-01
Sheet No.: C8.0
Drawn By: _____
Author: _____
Date: 06.14.24
PROJECT RELEASE TYPE

NOTE:
4" TO 6" HIGH FENCE POST.
SPACING NOT TO EXCEED 8'-0".

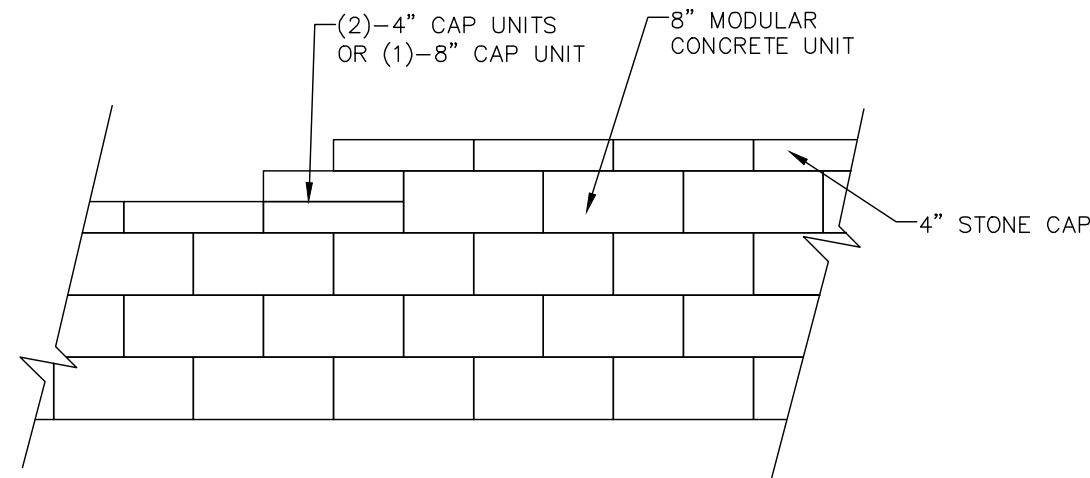


NOTE:
CONTRACTOR TO ACCOUNT FOR THE CHAIN-LINK FENCE INSTALLATION IN THE MODULAR BLOCK WALL DESIGNING MODULAR BLOCK RETAINING WALLS.

NOTE:
CONTRACTOR TO EXACT PLACEMENT OF 4" PERFORATED DRAIN PIPE AT BASE OF WALL AND DISCHARGE LOCATION PER MANUFACTURERS REQUIREMENTS.

1 MODULAR BLOCK RETAINING WALL DETAIL

SCALE: NONE

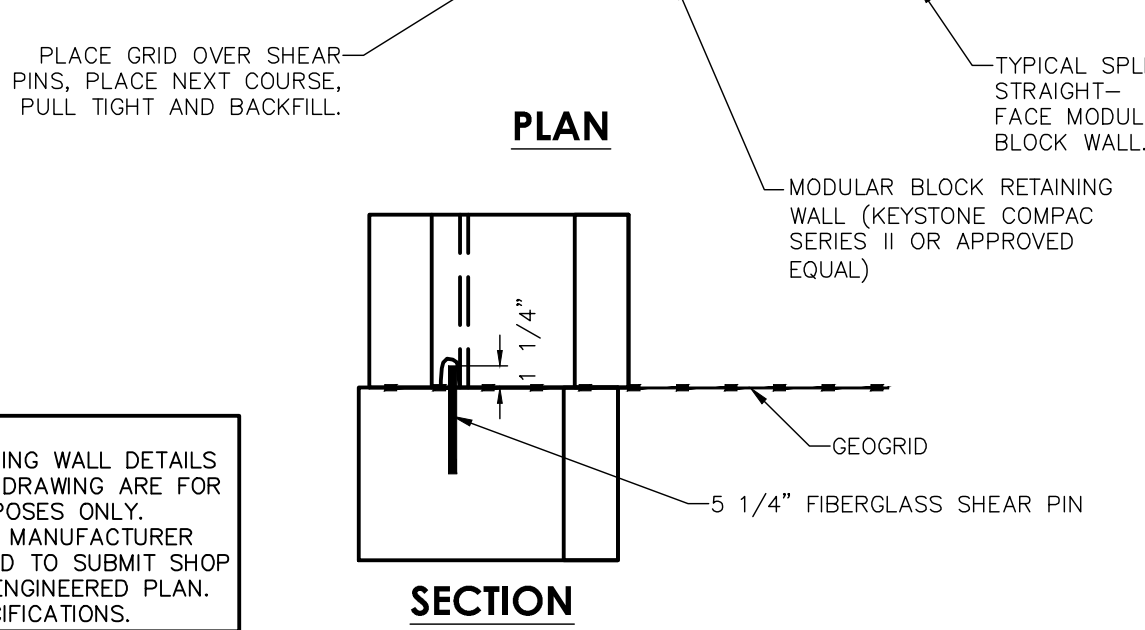


NOTE:
MODULAR RETAINING WALL DETAILS SHOWN ON THIS DRAWING ARE FOR REFERENCE PURPOSES ONLY. MODULAR BLOCK MANUFACTURER WILL BE REQUIRED TO SUBMIT SHOP DRAWINGS AND ENGINEERED PLAN, REFERENCE SPECIFICATIONS.

2 TOP OF WALL STEPS DETAIL

SCALE: NONE

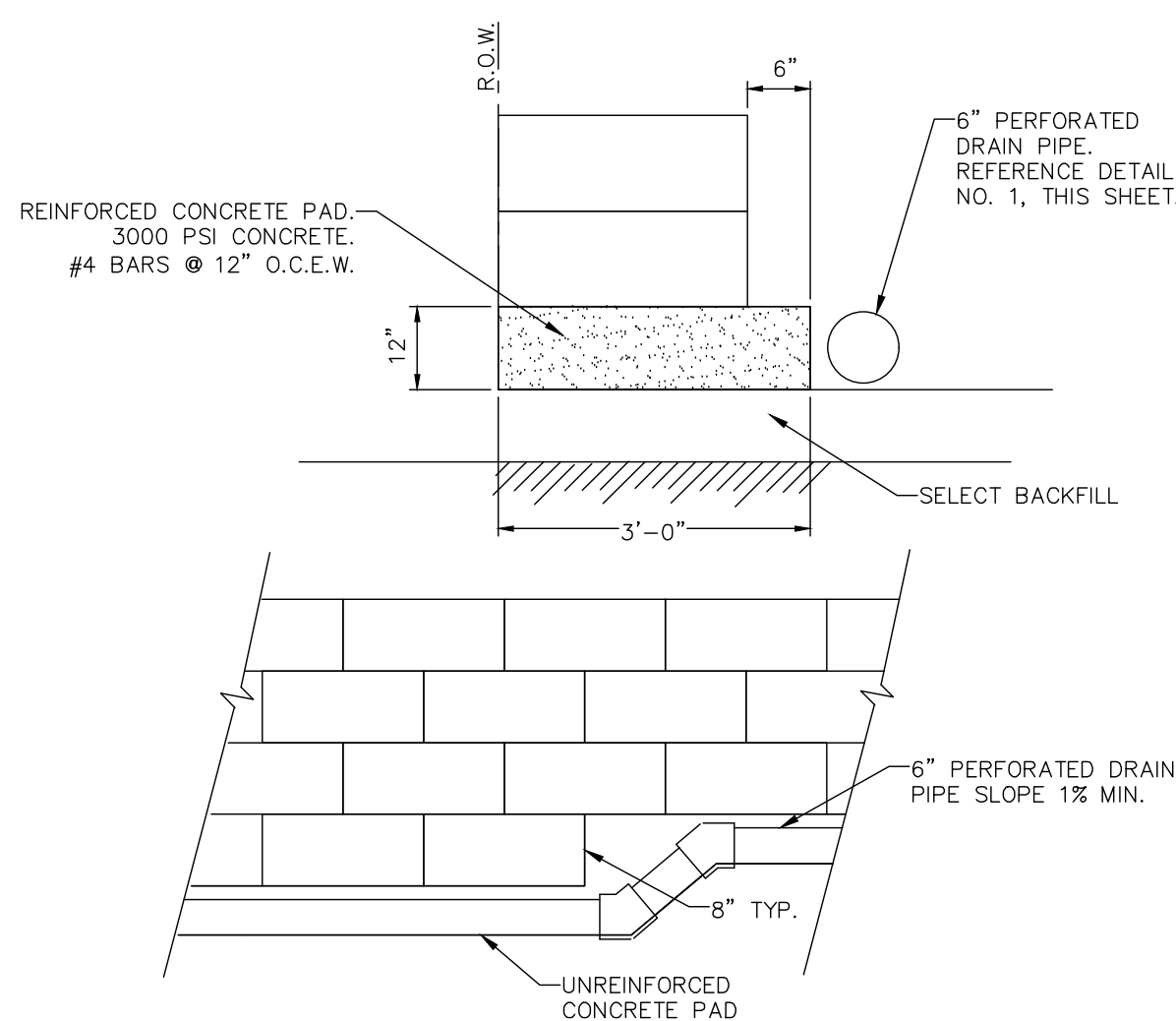
NOTE:
GEOGRID IS TO BE PLACED ON-LEVEL BACKFILL AND EXTEND OVER SHEAR PINS. PLACE NEXT UNIT, PULL GRID TAUGHT, AND BACKFILL. STAKE AS REQUIRED.



NOTE:
MODULAR RETAINING WALL DETAILS SHOWN ON THIS DRAWING ARE FOR REFERENCE PURPOSES ONLY. MODULAR BLOCK MANUFACTURER WILL BE REQUIRED TO SUBMIT SHOP DRAWINGS AND ENGINEERED PLAN, REFERENCE SPECIFICATIONS.

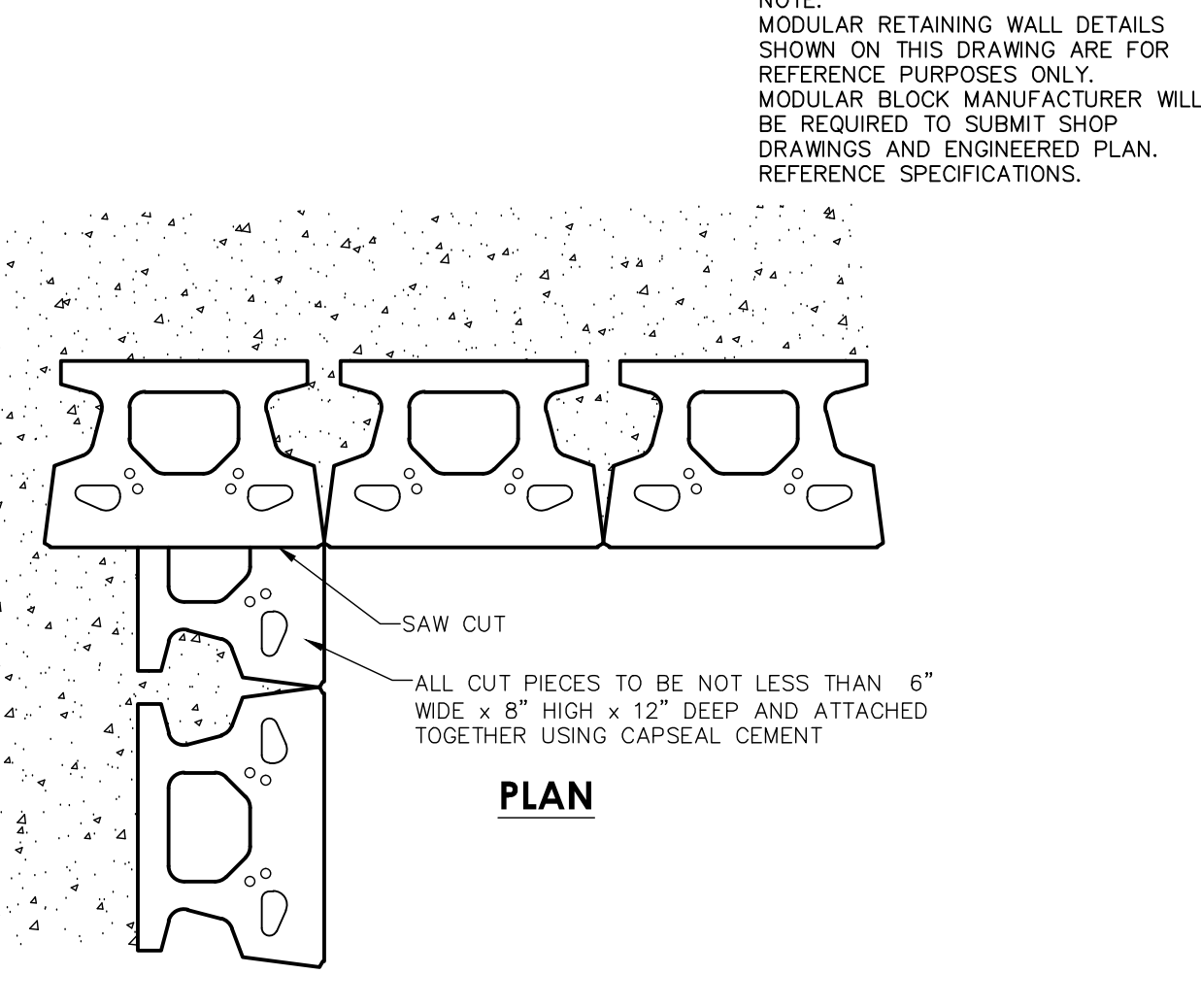
6 MODULAR CONCRETE UNIT GRID/PIN CONNECTION DETAIL

SCALE: NONE



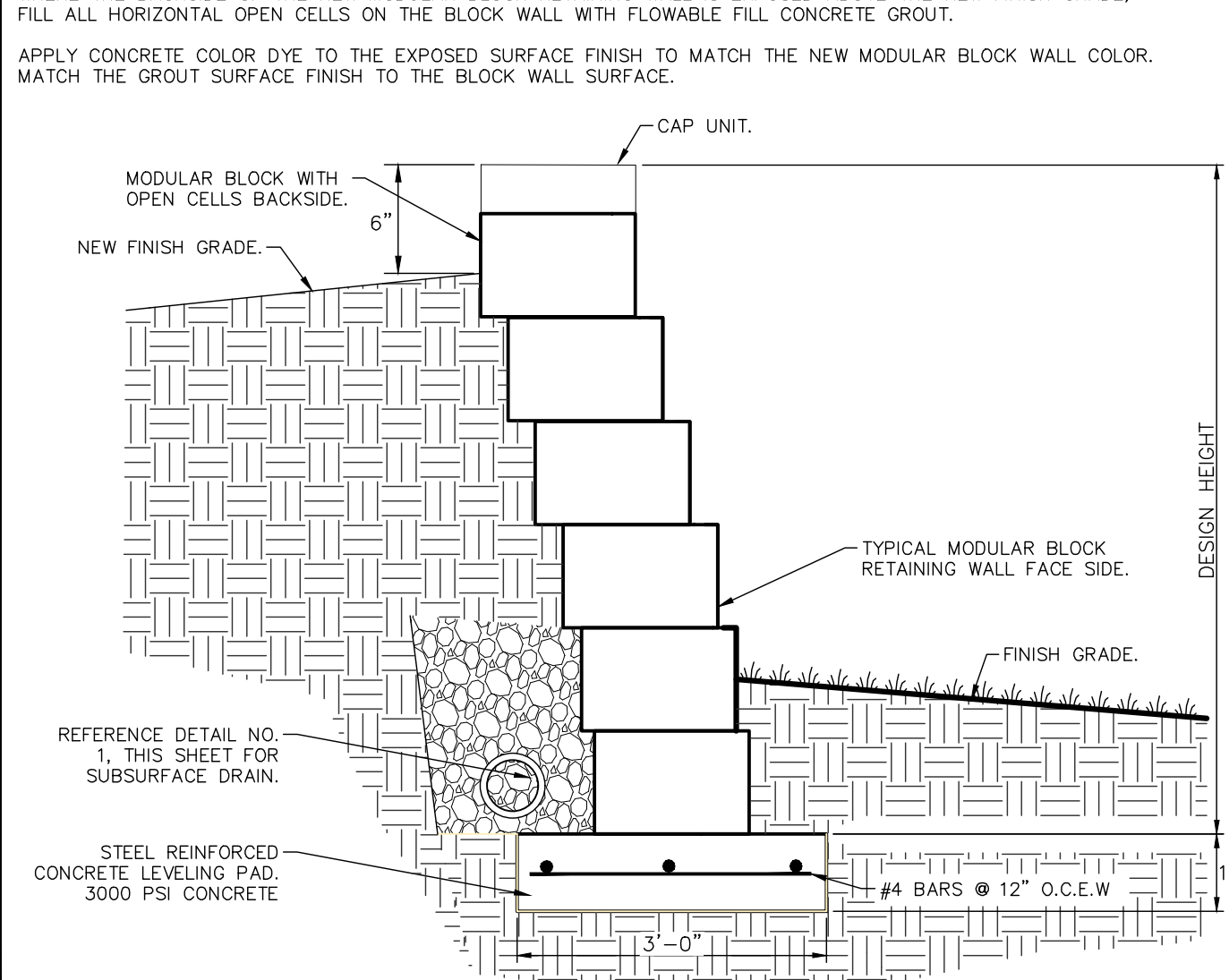
3 LEVELING PAD AND STEP DETAILS

SCALE: NONE



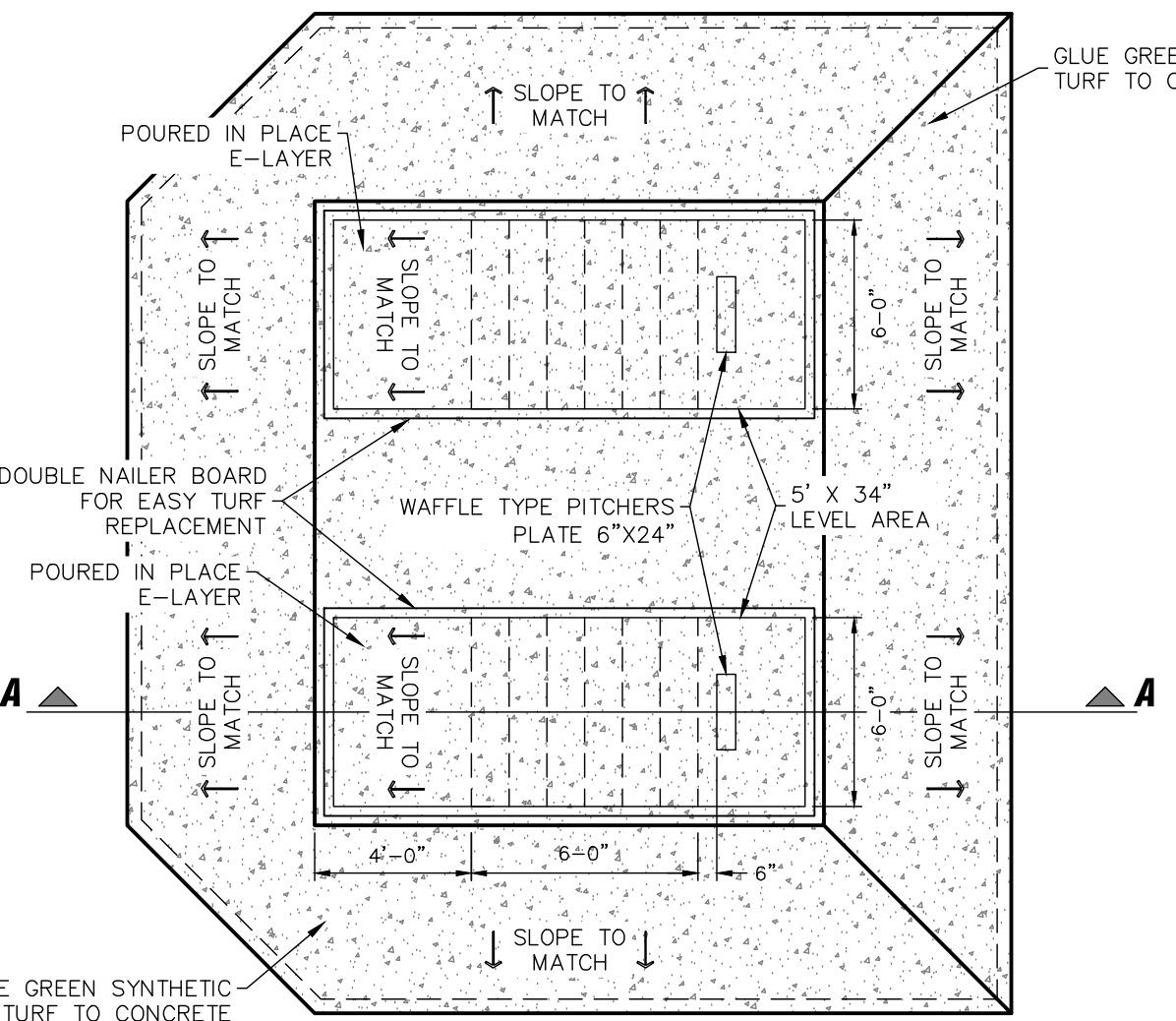
4 TYPICAL CORNER DETAIL

SCALE: NONE



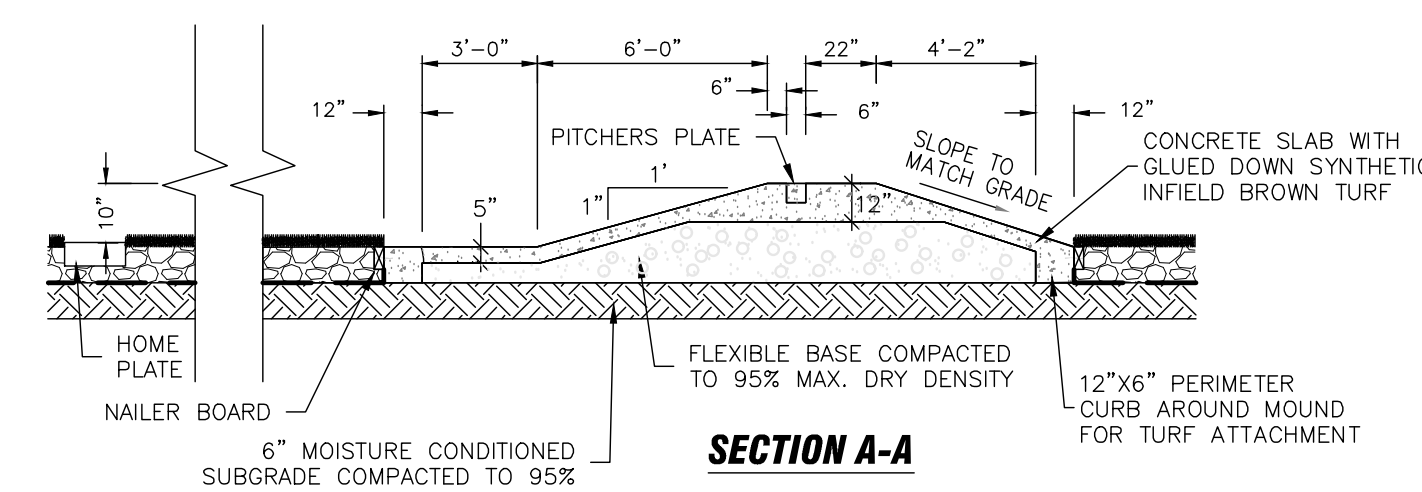
5 TYPICAL EXPOSED WALL SECTION DETAIL

SCALE: NONE



7 BASEBALL PITCHING MOUND

SCALE: NONE



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Date

Revision /

SMITHSON VALLEY HIGH SCHOOL
BASEBALL UPGRADES
FOR
COMAL I.S.D.
SPRING BRANCH, TEXAS

Project:

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Moy Tarin Ramirez Engineers, LLC
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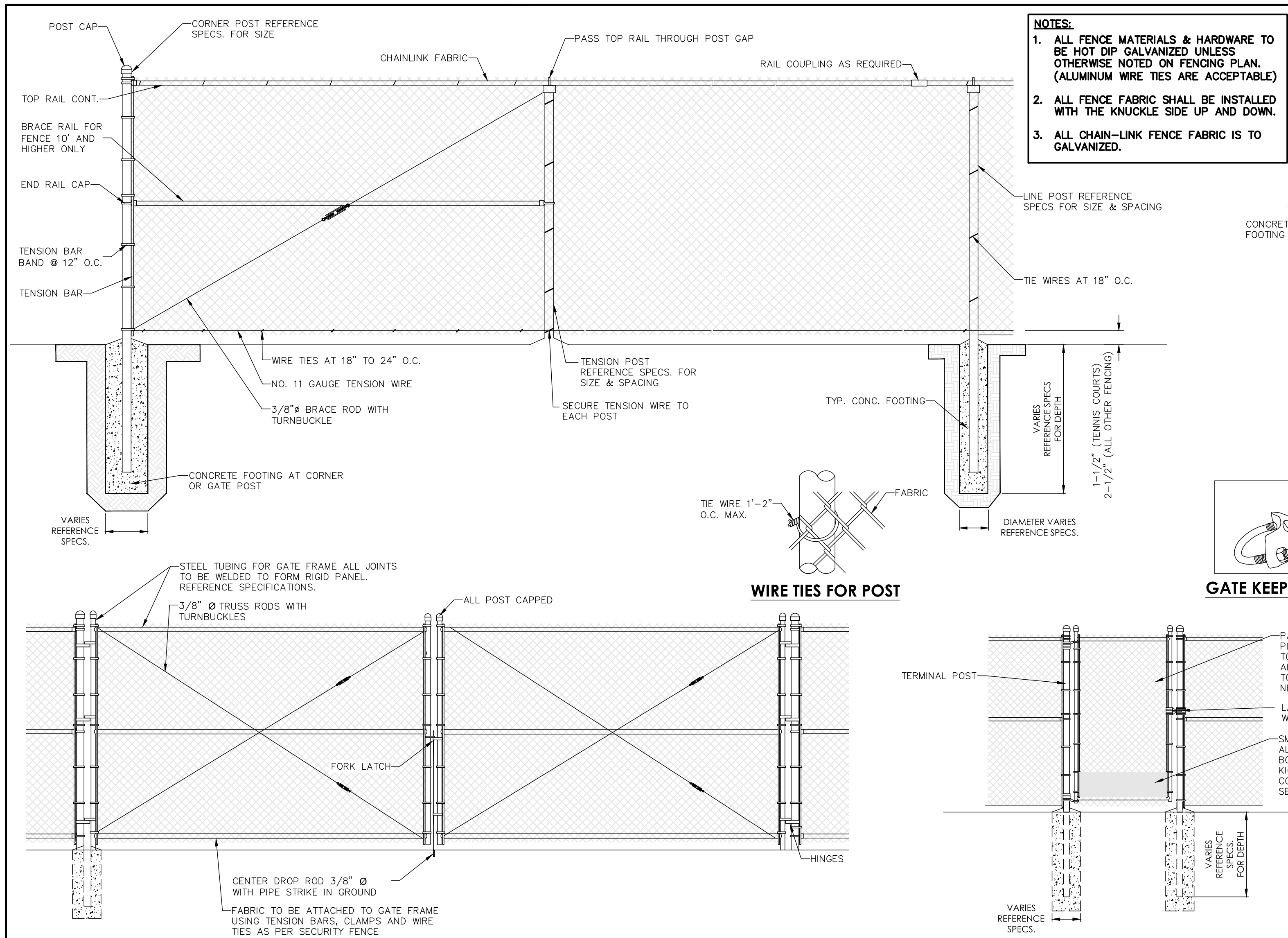
Kenneth D. Martin
TX 25790

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800.687.1229

DETAILS

Job No.
1957-02-01
Sheet No.
C8.2
Drawn By:
Author
Date:
06/14/24

PROJECT RELEASE TYPE



NOTES:

- ALL FENCE MATERIALS & HARDWARE TO BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED ON FENCING PLAN. (ALUMINUM WIRE TIES ARE ACCEPTABLE)
- ALL FENCE FABRIC SHALL BE INSTALLED WITH THE KNUCKLE SIDE UP AND DOWN.
- ALL CHAIN-LINK FENCE FABRIC IS TO GALVANIZED.

LINE AND TERMINAL POSTS

FABRIC HEIGHT	TYPE POST	"A" DIAM	"B" DEPTH	"C" POST EMBED.
4'-0"	LINE	10"	28"	30"
	TERMINAL	12"	34"	36"
5'-0" TO 6'-0"	LINE	12"	30"	28"
	TERMINAL	12"	40"	38"
8'-0"	LINE	12"	38"	34"
	TERMINAL	12"	40"	38"
10'-0" TO 12'-0"	LINE	16"	48"	46"
	TERMINAL	16"	48"	46"

NOTE: TERMINAL POSTS INCLUDE END, CORNER, AND TENSION POSTS

GATE POST

GATE LEAF WIDTH	GATE POST (OD)	FABRIC HEIGHT	"A" DIAM	"B" DEPTH	"C" POST EMBED.
3' TO 4'	3"	4'	10"	30"	28"
		5' TO 6'	12"	40"	38"
		8'	16"	46"	44"
5' TO 9'	4"	5' TO 6'	18"	48"	46"
		8'	18"	60"	58"
10'	6.625"	8'-0"	18"	60"	58"

NOTE: TERMINAL POSTS INCLUDE END, CORNER, AND TENSION POSTS

FENCE POST FOOTING SCHEDULE

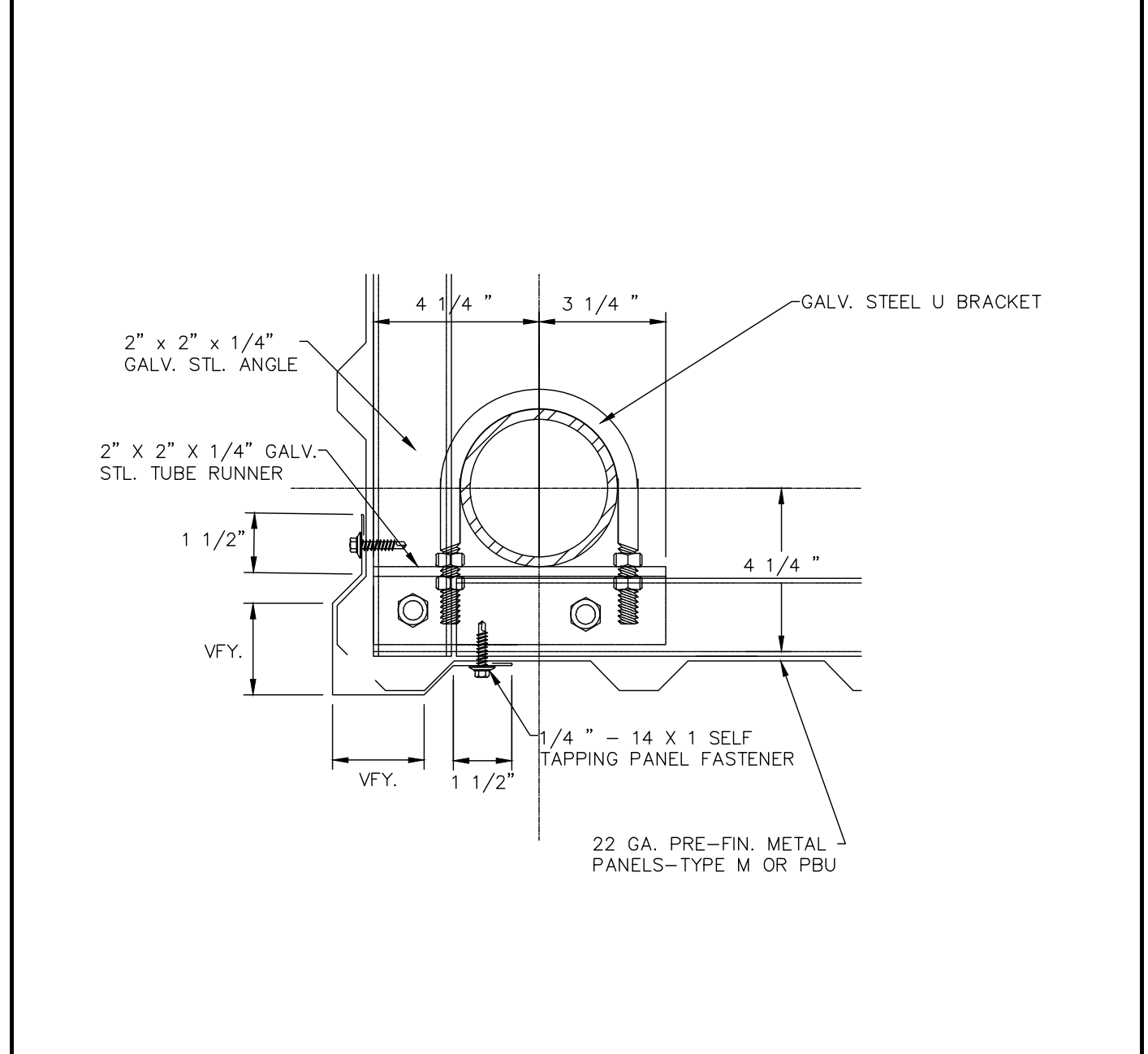
WIRE TIES FOR POST

GATE KEEPER STOP DETAIL

DETAIL - END OR GATE POST

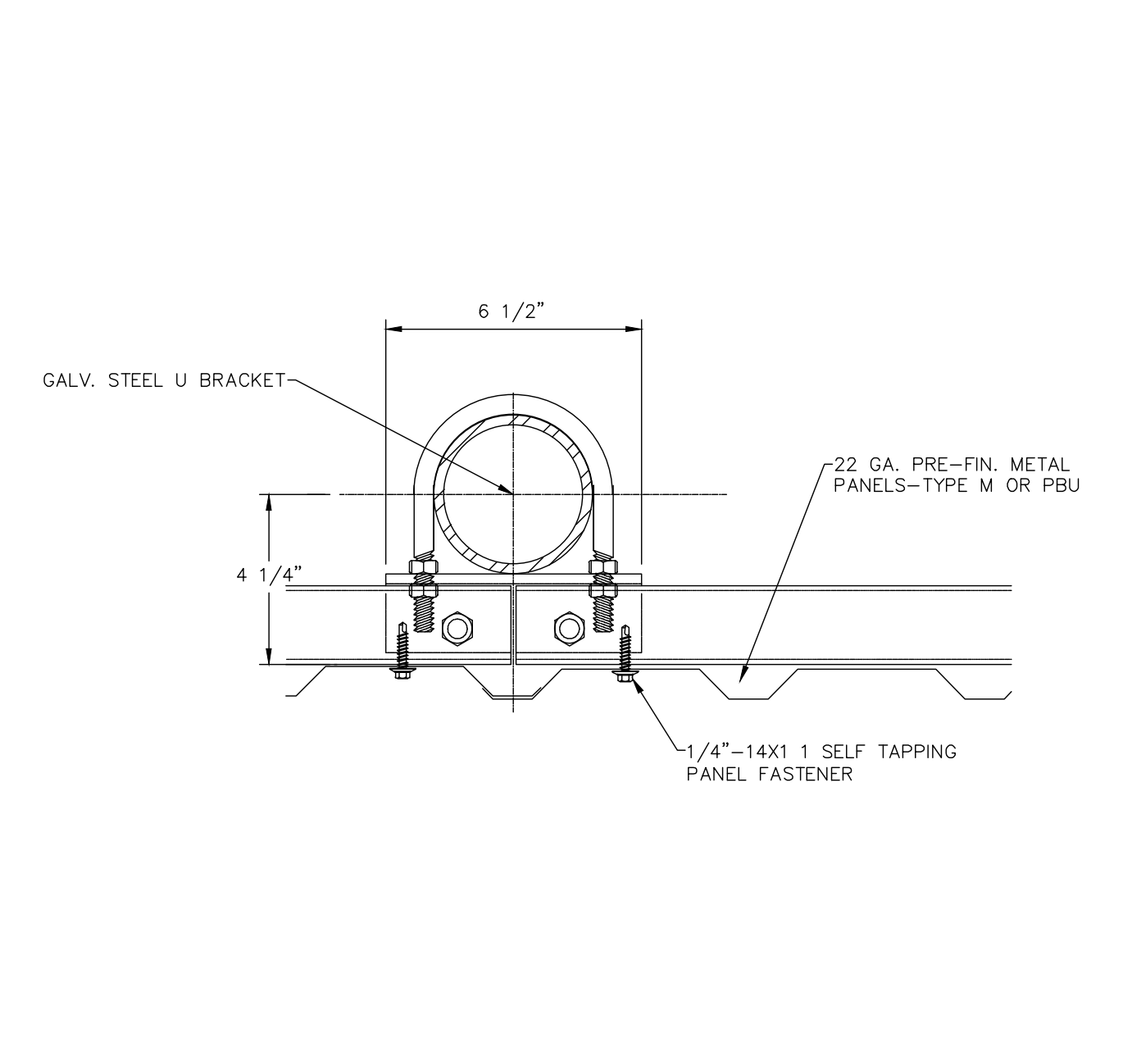
1 CHAINLINK FENCE DETAILS

SCALE: NONE



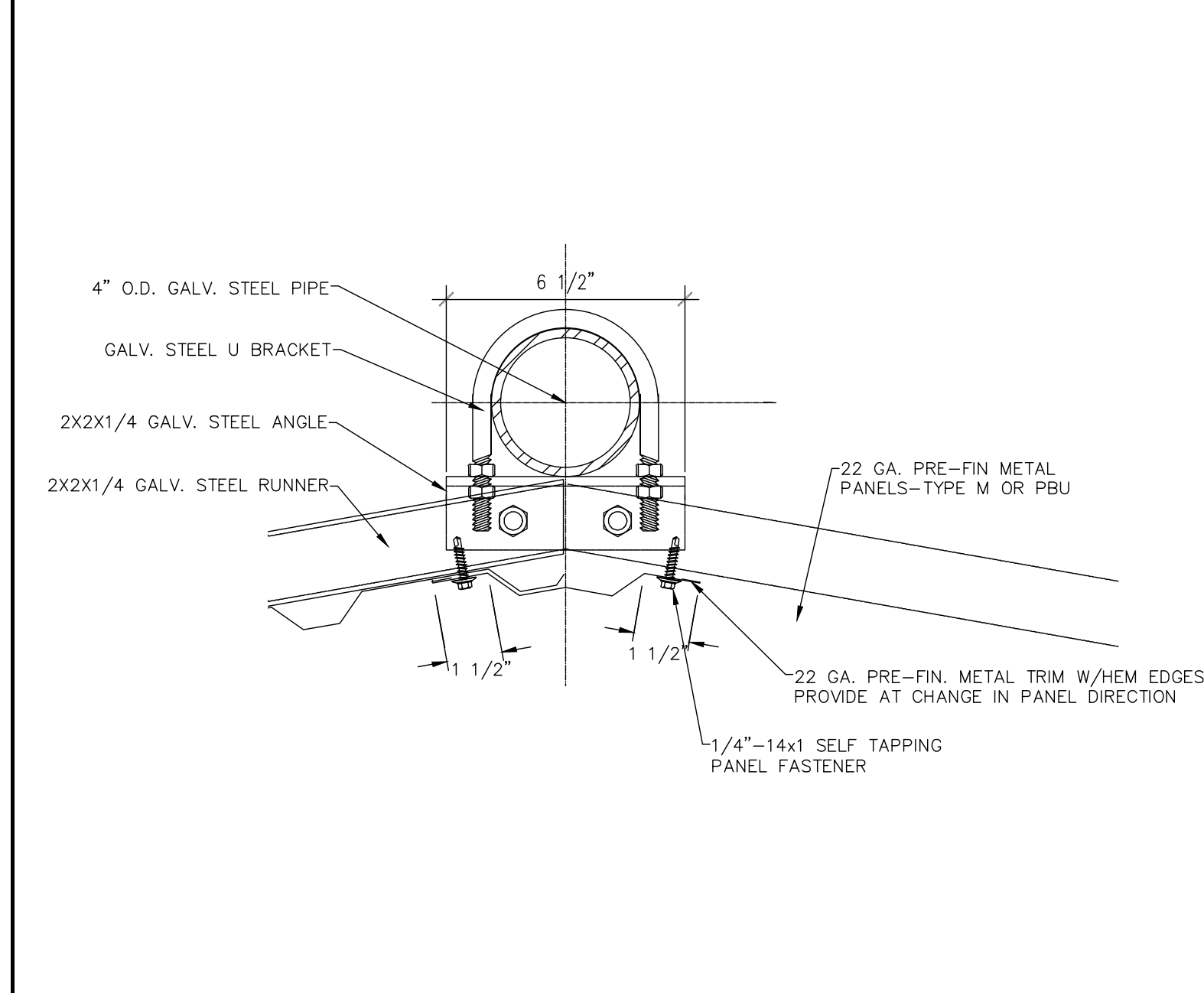
6 ATTACHMENT DETAIL

SCALE: NONE



7 ATTACHMENT DETAIL

SCALE: NONE

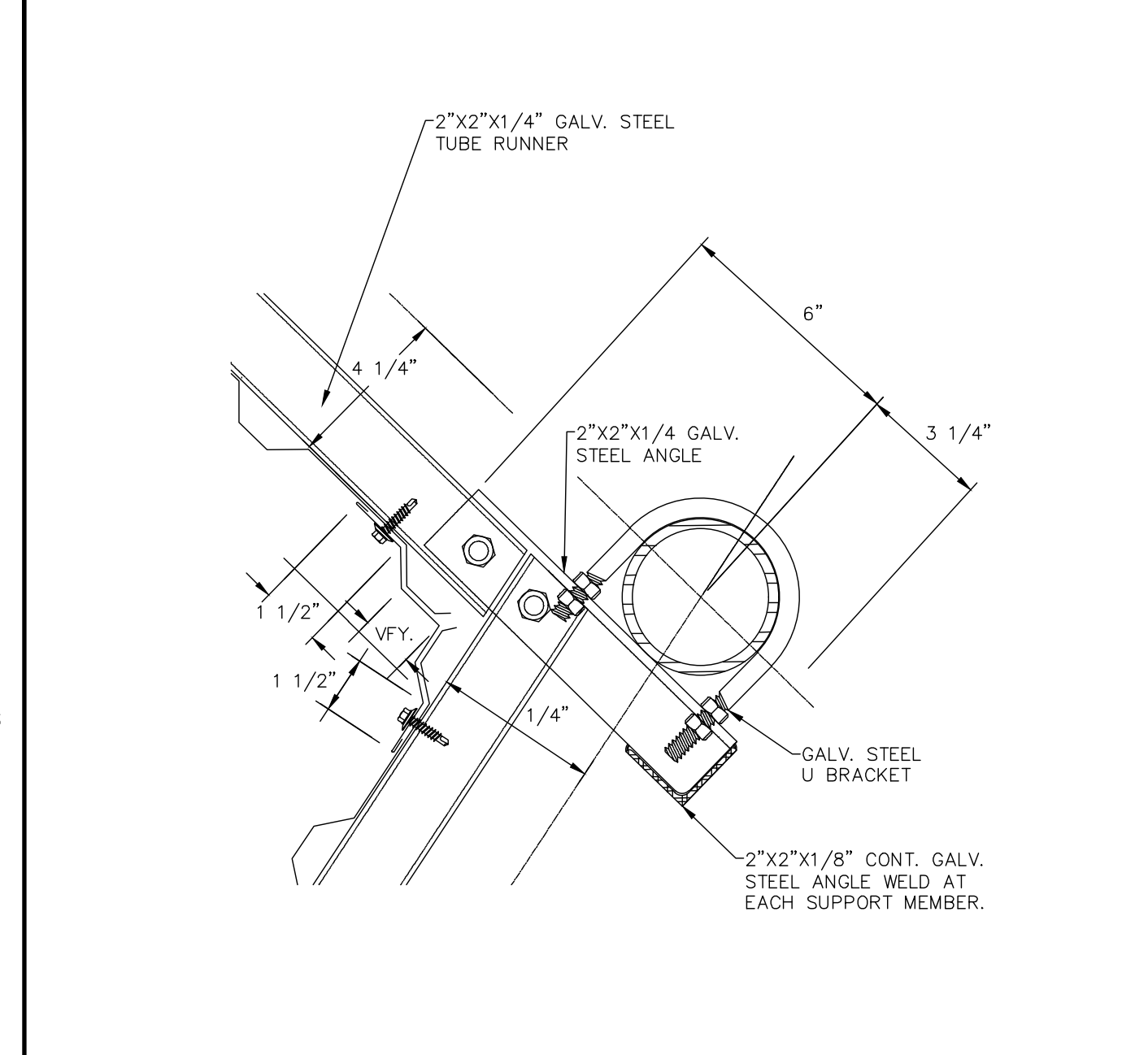


8 ATTACHMENT DETAIL

SCALE: NONE

4 HEAD TRIM DETAIL

SCALE: NONE

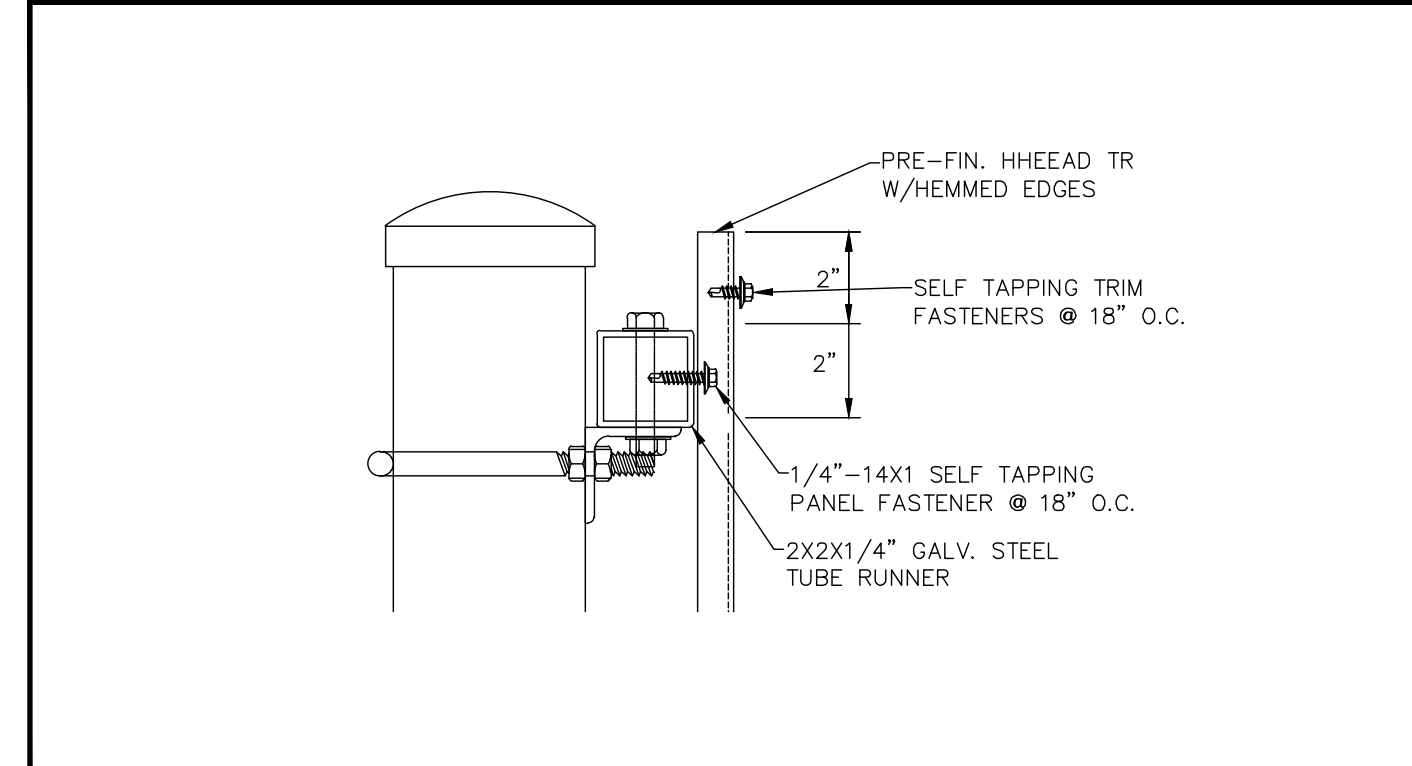


9 ATTACHMENT DETAIL

SCALE: NONE

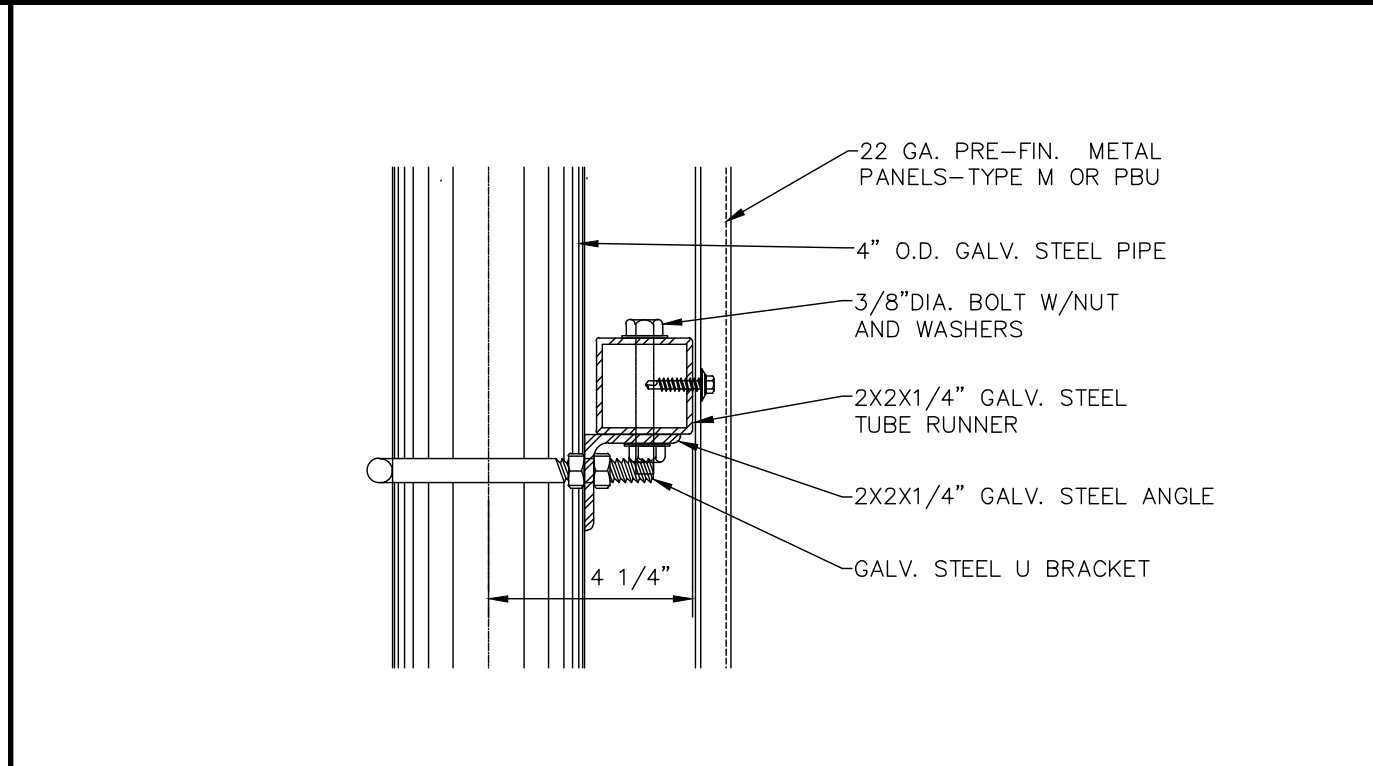
2 STEEL OUTFIELD FENCE

SCALE: NONE



3 FENCE DETAIL - TYP. AT MOW STRIP

SCALE: NONE



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SEAN S. SMITH
REGISTERED PROFESSIONAL ENGINEER
No. 113308
Texas
7/24/24

Date
Revision /

Project: SMITHSON VALLEY HIGH SCHOOL BASEBALL UPGRADES FOR COMAL I.S.D. SPRING BRANCH, TEXAS

Engineers
Surveyors
Planners
Moy Tarin Ramirez Engineers, LLC
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DETAILS

Job No.
1957-02-01
Sheet No.
C8.3
Drawn By:
Author
Date:
06/14/24
PROJECT RELEASE TYPE



ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

SEDIMENTATION BASINS

- Monthly: The vegetative growth in the basin shall be checked. The growth shall not exceed 18 inches in height.
- Quarterly: The level of accumulated silt shall be checked. If depth of silt exceeds 6 inches, it shall be removed and disposed of “properly” and in an “approved” location.
- The basin shall be checked for accumulation of debris and trash. The debris and trash shall be removed if excessive. All debris and trash shall be removed at least every six months.
- Annually: The basin shall be inspected for structural integrity and repaired if necessary.
- After Rainfall: The basin shall be checked after each rainfall occurrence to ensure that it drains 48 hours after the storm is over. If it does not drain within this time, corrective maintenance will be accomplished.

FILTRATION BASINS

- Monthly: The vegetative growth in the basin shall be checked. The growth shall not exceed 18 inches in height.
- Quarterly: The accumulation of pollutants/oils shall be checked. If the pollutants have significantly reduced the designed capacity of the sand filter, the pollutants shall be removed.
- The level of accumulated silt shall be checked. If depth of silt/pollutants exceeds 1/2 inch, it shall be removed and disposed of “properly” and in an “approved” location.
- The basin shall be checked for accumulation of debris and trash. The debris and trash shall be removed if excessive. All debris and trash shall be removed at least every six months.

Annually: The basin shall be inspected for structural integrity and repaired if necessary. Filter underdrain piping network shall be cleaned to remove sediment buildup.

After Rainfall: The basin shall be checked after each rainfall occurrence to ensure that it drains within 48 hours. If it does not drain within this time, corrective maintenance will be accomplished.

Following any required maintenance, the surface of the filtration basin shall be raked and leveled to restore the system to its designed condition.

“Proper” disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality and City of Spring Branch/Comal County Guidelines and specifications.

Because the site is a political subdivision, the TCEQ and other designated inspectors shall have access to this site by making arrangements with the responsible party at the information provided below.

ENGINEERED VEGETATIVE FILTER STRIPS

Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Once established, all vegetated BMPs require some basic maintenance to ensure the health of the plants including:

- Pest Management. An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.
- Seasonal Mowing and Lawn Care. If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower (or removal of clippings). If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.
- Inspection. Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter,

and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

- Debris and Litter Removal. Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e., level spreaders) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than 4 times per year.
- Sediment Removal. Sediment removal is not normally required in filter strips, since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.
- Grass Reseeding and Mulching. A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Corrective maintenance, such as weeding or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established.

RECORD KEEPING

Maintenance and inspection records should be kept on file by the Owner of the permanent BMPs for a period of at least three (3) years. Repair and retrofit records should be kept on file by the Owner of the permanent BMPs for a period of at least five (5) years.

Malcolm Mulvaney
Print Name

M. Mulvaney
Signature of Applicant/Owner/Agent

6/5/2024
Date

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 Smith, P.E.

Date: 8/8/24

Signature of Customer/Agent:



Regulated Entity Name: CISD Smithson Valley High School

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: Dripping Springs Creek

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

1. Housekeeping

- A. Minimize materials: An effort will be made to store only enough materials required to do the job.
- B. Storage: All materials stored on site will be stored in a neat, orderly manner in their appropriate containers in a covered area. If storage in a covered area is not feasible, then the materials will be covered with polyethylene or polypropylene sheeting to protect them from the elements.
- C. Labeling: Products will be kept in their original containers with the original manufacturer's label affixed to each container.
- D. Mixing: Substances will not be mixed with one another unless this is recommended by the manufacturer.
- E. Disposal: Whenever possible, all of a product will be used prior to disposal of the container. Manufacturer's recommendations will be followed for proper use and disposal of materials on site.
- F. Inspections: The site superintendent will inspect the site daily to ensure proper use and disposal of materials on site.
- G. Spoil Materials: Any excavated earth that will not be used for fill material and all demolished pavement will be hauled off site immediately and will be disposed of properly, in accordance with all applicable state/local regulations.

2. Product Specific Practices

- A. Petroleum Products: All on site vehicles will be monitored for leaks and will receive regular preventive maintenance to reduce the chance of leakage. If petroleum products will be present at the site, then they will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations.
- B. Concrete Trucks: Ready/Transit Mix Trucks will not be allowed to wash out or discharge surplus concrete or drum wash water except in the designated location on site as shown on the SWPPP site plan.
- C. Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be poured into storm sewer system or drainage channels, but will be properly disposed of according to manufacturers' instructions or state/local regulations.

- D. Fertilizers: Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The fertilizer will be stored in a covered area, and any partially used bags will be transferred to a sealable plastic bin to avoid spills.

3. Spill Control and Response Measures

A spill prevention and response team will be designated by the site superintendent. In addition, the following practices will be followed for spill cleanup:

- A. Information: Manufacturers' recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and location of the information and cleanup supplies.
- B. Equipment: Materials and equipment necessary for spill cleanup will be present on the site at all times. Equipment and materials will include, but not be limited to brooms, shovels, rags, gloves, goggles, absorbent materials (sand, sawdust, etc.) and plastic or metal trash containers specifically designed for this purpose. The materials and equipment necessary for spill cleanup will be dependent upon the nature and quantity of the material stored on site.
- C. Response: All spills will be cleaned up immediately upon discovery.

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 TCEQ Technical Guidance Manual RG-348 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:
- (5) Contain the spread of the spill.
- (6) Recover spilled materials.

(7) 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 the 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.

D. 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 run-on 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 trash cans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can 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.

E. Vehicle and Equipment Fueling

- (1) If fueling must occur onsite, use designated areas, located away from drainage courses, to prevent the run-on 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.

F. Safety: The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substances.

G. Reporting: Spills of toxic or hazardous material (if present on site) will be reported to the appropriate state or local government agency, regardless of the spill's size.

H. Record Keeping: The spill prevention plan will be modified to include measures to prevent this type of spill from recurring as well as improved methods for cleaning up any future spills. A description of each spill, what caused it, and the cleanup measures used will be kept with this plan.

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 stabilized construction exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.
Potential Source	Sediment from soil, sand, gravel and excavated materials stockpiled on site.
Preventive Measure	Silt fence shall be installed on the downgradient side of all stockpiled materials. Reinforced rock berms shall be installed at all downstream discharge locations.

ATTACHMENT C
SEQUENCE OF MAJOR ACTIVITIES

Construction Sequencing

- A. Installation of temporary BMPs as shown on the CZP Site Plan.
- B. Demolition and grading.
- C. Seeding and soil stabilization.

ATTACHMENT D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Description of Temporary Best Management Practices:

Vegetation will be used as a temporary stabilization technique for all areas disturbed by construction, not covered in pavement, buildings, or other structures.

Sequence of installation during construction process for each phase of construction:

Vegetation as a temporary control will only be utilized in the event a disturbed area has been left denuded for more than 14 days.

Up gradient storm water flowing across the site:

There is minimum upgradient flow entering the construction area. All upgradient flow will be treated along with the stormwater generated onsite.

Onsite storm water flowing across and off the site:

The storm water originating onsite and flowing off the site will be treated through temporary BMPs. Silt fences will be installed at all locations where non-concentrated storm water exits the site.

Prevention of pollutants from entering surface streams, sensitive features and the aquifer:

The storm water originating onsite and flowing off the site will be treated using temporary BMPs prior to it entering surface streams, sensitive features and the aquifer. Silt fences will be installed at all locations where non-concentrated storm water may leave the site. These silt fences should filter the storm water prior to it leaving the site.

Maintaining flow to naturally-occurring sensitive features:

The storm water originating onsite and flowing off the site will continue to flow into the down gradient receiving waters. Any sensitive features downstream will continue to receive flow originating on the site. Prior to the flow leaving the site, it will be treated through temporary BMPs. These temporary BMPs should remove sediment, pollutants and debris if installed and maintained properly.

ATTACHMENT F

STRUCTURAL PRACTICES

Vegetation will be used as a temporary stabilization technique for all areas disturbed by construction, not covered by pavement, buildings, or other structures. Temporary stabilization shall consist of temporary seeding of disturbed areas that are denuded beyond 14 days without construction restart within 21 days. As a temporary control, the vegetation will be used to stabilize barren areas that are inactive for long periods of time.

ATTACHMENT G
DRAINAGE AREA MAP

The improvements proposed with this modification will all be constructed within the existing drainage areas draining to Extended Detention Ponds #1 and #2. No changes will be made to the existing drainage patterns.

ATTACHMENT I
INSPECTION AND MAINTENANCE FOR BMPS

Silt Fence

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
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.

Bagged Gravel Inlet Filter

1. Inspections should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by contractor.
2. Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
3. Check placement of device to prevent gaps between device and curb.
4. Inspect filter fabric and patch or replace if torn or missing.
5. Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

CISD SMITHSON VALLEY HIGH SCHOOL

Responsible Party Form

Pollution Prevention Measure		Inspected	Corrective Action	
			Description	Date Completed
Silt Fence	Inspections			
	Fencing			
	Sediment Removal			
	Torn Fabric			
	Crushed/Collapsed Fencing			
Bagged Gravel Inlet Filters	Inspections			
	Replaced/Reshaped			
	Silt Removed			

Inspector's Name

Inspector's Signature

Name of Owner/Operator

Date

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

ATTACHMENT J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

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 ceases 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 the 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.

Temporary stabilization shall consist of temporary seeding of disturbed areas that are denuded beyond 14 days without construction restart within 21 days.

As pad sites (buildings, sidewalks and pavement) are completed, permanent landscaping and sod shall be planted and irrigated. Curb and gutter will direct runoff into the permanent water quality basin.

Temporary vegetation stabilization techniques shall be in accordance with the TCEQ Technical Guidance Manual RG-248 (*Complying with the Edwards Aquifer Rules – Technical Guidance on Best Management Practices*), Chapter 1 Temporary Best Management Practices, Section 1.3.8 Temporary Vegetation, as follows:

Temporary Vegetation

Vegetation is used as a temporary or permanent stabilization technique for areas disturbed by construction, but not covered by pavement, buildings, or other structures. As a temporary control, vegetation can be used to stabilize stockpiles and barren areas that are inactive for long periods of time.

Vegetative techniques can and should apply to every construction project with few exceptions. Vegetation effectively reduces erosion in swales, stockpiles, berms, mild to medium slopes, and along roadways.

Other techniques may be required to assist in the establishment of vegetation. These other techniques include erosion control matting, mulches, surface roughening, swales and dikes to direct runoff around newly seeded areas, and proper grading to limit runoff velocities during construction. (NCTCOG, 1993b)

Materials:

The type of temporary vegetation used on a site is a function of the season and the availability of water for irrigation. For areas that are not irrigated, the year can be divided into two temporary planting seasons and one season for planting of permanent warm weather groundcovers. These periods are shown in Figure 1-19 for Bexar, Comal, Kinney, Medina, and Uvalde Counties. Appropriate temporary vegetation for these areas is shown in Table 1-4.

Other vegetation may perform as well as the recommended varieties, especially where irrigation is available. County agricultural extension agents are a good source for suggestions for other types of temporary vegetation. All seed should be high quality, U.S. Dept. of Agriculture certified seed.

Installation:

(1) Interim or final grading must be completed prior to seeding, minimizing all steep slopes. In addition, all necessary erosion structures such as dikes, swales, and diversions, should also be installed.

(2) Seedbed should be well pulverized, loose, and uniform.

(3) Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet. Compost can be used instead of fertilizer and applied at the same time as the seed.

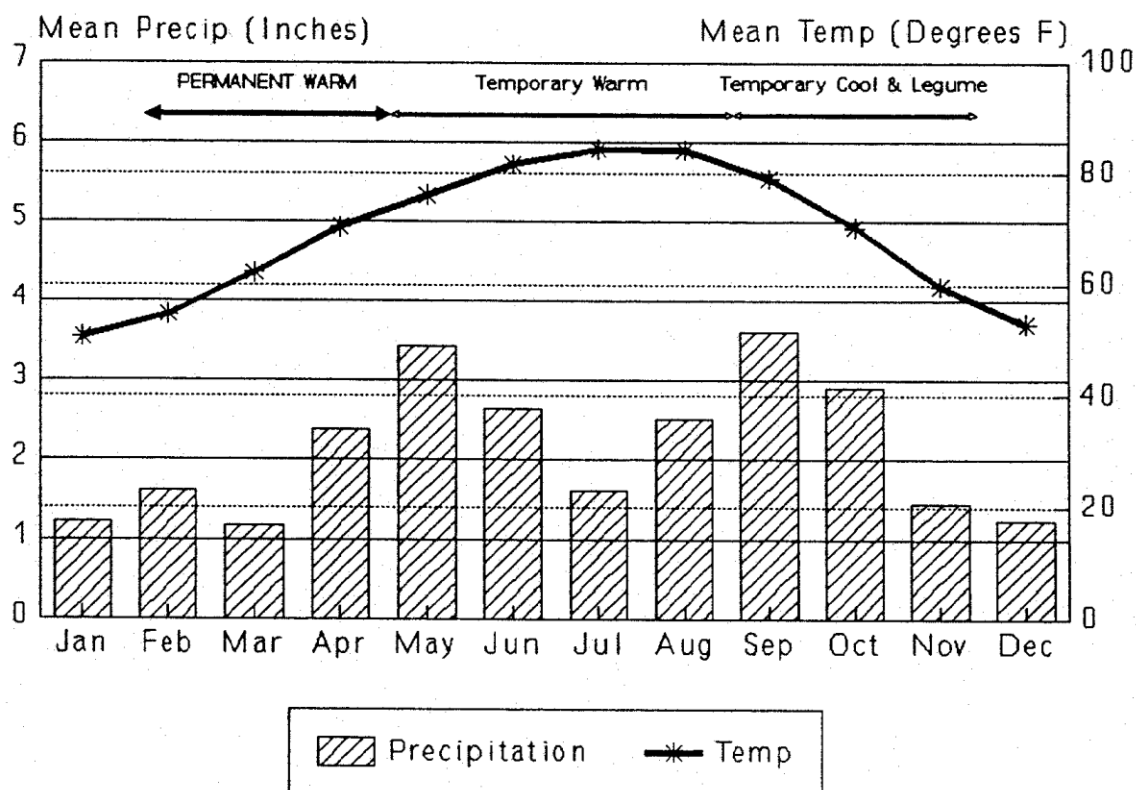


Figure 1-19 Planting Dates for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

Table 1-4 Temporary Seeding for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

Dates	Climate	Species (lb/ac)	
Sept 1 to Nov 30	Temporary Cool Season	Tall Fescue	4.0
		Oats	21.0
		Wheat (Red, Winter)	30.0
		Total	55.0
Sept 1 to Nov 30	Cool Season Legume	Hairy Vetch	8.0
May 1 to Aug 31	Temporary Warm Season	Foxtail Millet	30.0

(4) Seeding rates should be as shown in Table 1-4 or as recommended by the county agricultural extension agent.

(5) The seed should be applied uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed, fertilizer and binder).

(6) Slopes that are steeper than 3:1 should be covered with appropriate soil stabilization matting as described in the following section to prevent loss of soil and seed.

Irrigation:

Temporary irrigation should be provided according to the schedule described below, or to replace moisture loss to evapotranspiration (ET), whichever is greater. Significant rainfall (on-site rainfall of ½" or greater) may allow watering to be postponed until the next scheduled irrigation.

Time Period	Irrigation Amount and Frequency
Within 2 hours of installation	Irrigate entire root depth, or to germinate seed
During the next 10 business days	Irrigate entire root depth every Monday, Wednesday, and Friday
During the next 30 business days or until Substantial Completion	Irrigate entire root depth a minimum of once per week, or as necessary to ensure vigorous growth
During the next 4 months or until Final Acceptance of the Project	Irrigate entire root depth once every two weeks, or as necessary to ensure vigorous growth

If cool weather induces plant dormancy, water only as necessary to maintain plant health.

Irrigate in a manner that will not erode the topsoil but will sufficiently soak the entire depth of roots.

Inspection and Maintenance Guidelines:

(1) Temporary vegetation should be inspected weekly and after each rain event to locate and repair any erosion.

(2) Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.

(3) If the vegetated cover is less than 80%, the area should be reseeded.

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

I Dr. John E. Chapman III,
Print Name
Superintendent,
Title - Owner/President/Other
of Comal Independent School District,
Corporation/Partnership/Entity Name
have authorized Sean Smith, P.E.
Print Name of Agent/Engineer
of Moy Tarin Ramirez 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:

[Signature]
Applicant's Signature

May 23, 2024
Date

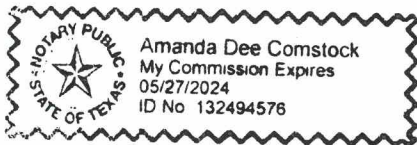
THE STATE OF TEXAS §

County of COMAL §

BEFORE ME, the undersigned authority, on this day personally appeared Dr. John Chapman III 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 23rd day of MAY, 2024

Amanda Dee Comstock
NOTARY PUBLIC



AMANDA DEE COMSTOCK
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: MAY 27, 2024

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: CISD Smithson Valley High School

Regulated Entity Location: 14001 TX-46, Spring Branch, TX 78070

Name of Customer: Comal ISD

Contact Person: Jeffrey Smith

Phone: (830) 221-2101

Customer Reference Number (if issued): CN 600249825

Regulated Entity Reference Number (if issued): RN 103932638

Austin Regional Office (3373)

☐ Hays

☐ Travis

☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☒ Comal

☐ Kinney

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

☐ Austin Regional Office

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

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	26.84 Acres	\$ 6,500.00
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: 

Date: 8/8/24

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

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of 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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)		3. Regulated Entity Reference Number (if issued)
CN 600249825		RN 103932638

[Follow this link to search for CN or RN numbers in Central Registry**](#)

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
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:	
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
	City	State	ZIP
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
() -		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)		
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information		
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency 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.)		
CISD SMITHSON VALLEY HIGH SCHOOL		

23. Street Address of the Regulated Entity: (No PO Boxes)	14001 TX-46							
	City	SpringBranch	State	TX	ZIP	78070	ZIP + 4	
24. County	Comal							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:									
26. Nearest City	Spring Branch				State	TX	Nearest ZIP Code		78070
27. Latitude (N) In Decimal:	29.803136			28. Longitude (W) In Decimal:	98.358686				
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
29	48	11.29	98	21	31.27				
29. Primary SIC Code (4 digits)	8211		30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)		
				611110					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)									
Elementary School									
34. Mailing Address:	14001 TX-46								
	City	Spring Branch	State	TX	ZIP	78070	ZIP + 4		
35. E-Mail Address:	jeffrey.smith@comalisd.org								
36. Telephone Number	(830) 885-1000		37. Extension or Code			38. Fax Number (if applicable)	() -		

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

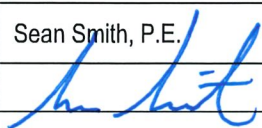
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source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

SECTION IV: Preparer Information

40. Name:	Sean Smith, P.E.	41. Title:	Senior Vice President
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(210) 698-5051		(210) 698-5085	ssmith@mtrengineers.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:	Moy Tarin Ramirez Engineers, LLC	Job Title:	Senior Vice President
Name (In Print):	Sean Smith, P.E.	Phone:	(210) 698- 5051
Signature:		Date:	8/8/24