WATER POLLUTION ABATMENT PLAN MODIFICATION FOR CISD DAVENPORT HIGH SCHOOL



**PREPARED FOR:** 



DATE: OCTOBER 2024

**PREPARED BY:** 



12770 Cimarron Path, Ste 100 San Antonio, TX 78249 TBPE Firm #5297 Phone 210-698-5051 Fax 210-698-5085

## CISD DAVENPORT HIGH SCHOOL WATER POLLUTION ABATEMENT 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 <u>30 TAC 213</u>.

#### **Administrative Review**

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

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

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

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

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

#### **Technical Review**

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

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

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

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

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

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

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

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

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

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

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

1. Regulated Entity N School	ame:Cl	SD D	avenp	ort H	igh	2. Re	egulat	ed Entity No.:	110247541
3. Customer Name: C	Comal IS	SD				4. Cu	istom	er No.: 60024	9825
5. Project Type: (Please circle/check one)	New	(	Modif	ication	$\mathbf{>}$	Exter	nsion	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)	Resider	ntial	Non-r	esiden	tial		8. Sit	e (acres):	113.7
9. Application Fee:	\$10,00	0	10. P	ermai	nent I	BMP(s	s):	Batch Detentio	n Basins, VFS
11. SCS (Linear Ft.):			12. A	ST/US	ST (No	o. Tar	nks):		
13. County:	Comal		14. W	aters	hed:			Dry Comal Cre	ek

# **Application Distribution**

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

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

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

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

Austin Region

	Sa	an 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)	Edwards Aquifer Authority Trinity-Glen Rose	<u>X</u> Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde
City(ies) Jurisdiction	Castle Hills Fair Oaks Ranch Helotes Hill Country Village Hollywood Park _X_San Antonio (SAWS) Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA

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

Print Name of Customer/Authorized Agent

24 **) 0** Date 7

**FOR TCEQ INTERNAL USE ONI	.Y**		
Date(s)Reviewed:		Date Adn	ninistratively Complete:
Received From:		Correct N	Jumber of Copies:
Received By:		Distributi	ion Date:
EAPP File Number:		Complex:	
Admin. Review(s) (No.):	1	No. AR R	ounds:
Delinquent Fees (Y/N):		Review T	ime Spent:
Lat./Long. Verified:	1	SOS Cust	omer Verification:
Agent Authorization Complete/Notarized (Y/N):		Fee	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):		Check:	Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

# **General Information Form**

**Texas Commission on Environmental Quality** 

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

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

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

# Signature

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

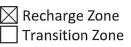
Print Name of Customer/Agent: Sean Smith, P.E.

Date: 10724

Signature of Customer/Agent:

# **Project Information**

- 1. Regulated Entity Name: Comal ISD Davenport High School
- 2. County: <u>Comal</u>
- 3. Stream Basin: Dry Comal Creek
- 4. Groundwater Conservation District (If applicable): Edwards Aquifer/Comal Trinity
- 5. Edwards Aquifer Zone:



6. Plan Type:

$\boxtimes$	WPAP
	SCS
$\boxtimes$	Modification

AST UST Exception Request

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

1 of 4

7. Customer (Applicant):

Contact Person: Jeffrey SmithEntity: Comal Independent School DistrictMailing Address: 1404 N Interstate 35 Frontage RdCity, State: New Braunfels, TXZip: 78130Telephone: 830-221-2101FAX: \_\_\_\_\_\_Email Address: jeffrey.smith@comalisd.org

8. Agent/Representative (If any):

Contact Person: Sean Smith, P.E.Entity: Moy Tarin Ramirez Engineers, LLCMailing Address: 12770 Cimarron Path, Suite 100City, State: San Antonio, TXZip: 78249Telephone: 210-698-5051FAX: \_\_\_\_\_\_Email Address: ssmith@mtrengineers.com

9. Project Location:

The project site is located inside the city limits of \_\_\_\_\_\_

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

- The project site is not located within any city's limits or ETJ.
- 10. The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

23255 FM3009, San Antonio, TX 78266

- 11. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
- 12. Attachment B USGS / Edwards Recharge Zone Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

Project site boundaries.

USGS Quadrangle Name(s).

Boundaries of the Recharge Zone (and Transition Zone, if applicable).

Drainage path from the project site to the boundary of the Recharge Zone.

- 13. The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
  - Survey staking will be completed by this date: <u>4/16/2024</u>

- 14. Attachment C Project Description. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
  - igsquare Area of the site
  - Offsite areas
  - Impervious cover
  - Permanent BMP(s)
  - Proposed site use
  - Site history
  - Previous development
  - Area(s) to be demolished
- 15. Existing project site conditions are noted below:
  - Existing commercial site
  - Existing residential site
  - Existing paved and/or unpaved roads
  - Undeveloped (Cleared)
  - Undeveloped (Undisturbed/Uncleared)
  - Other: Existing High School

# **Prohibited Activities**

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

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

# Administrative Information

- 18. The fee for the plan(s) is based on:
  - For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
  - For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
  - For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
  - A request for an exception to any substantive portion of the regulations related to the protection of water quality.
  - A request for an extension to a previously approved plan.
- 19. Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

### 🔀 TCEQ cashier

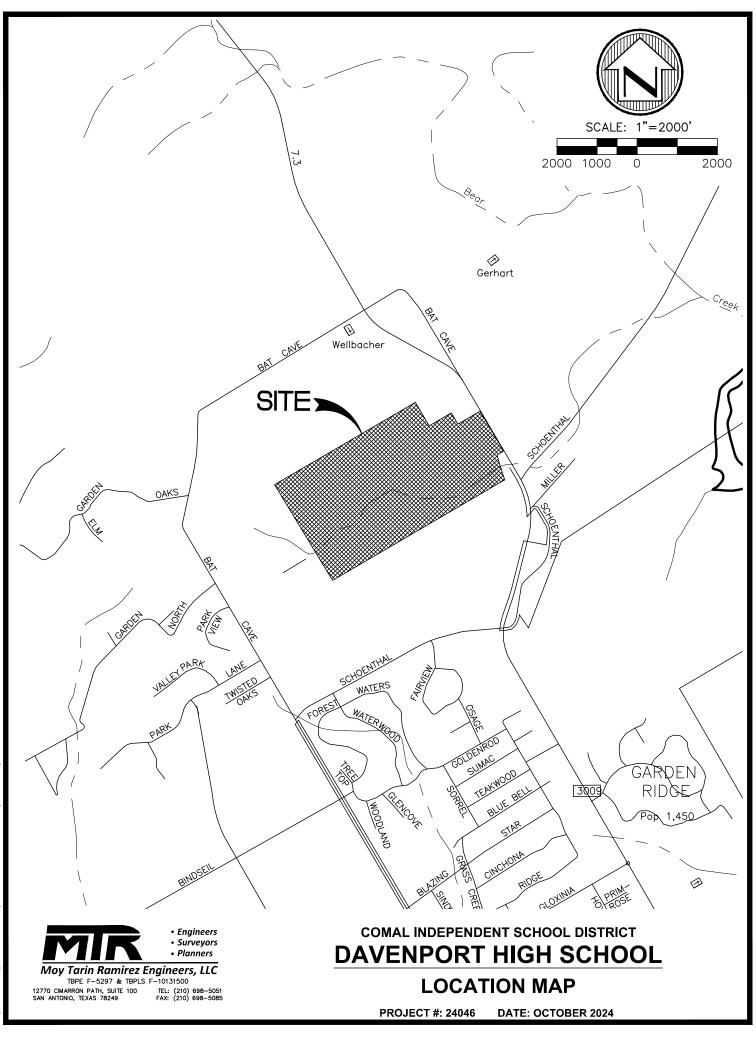
Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)

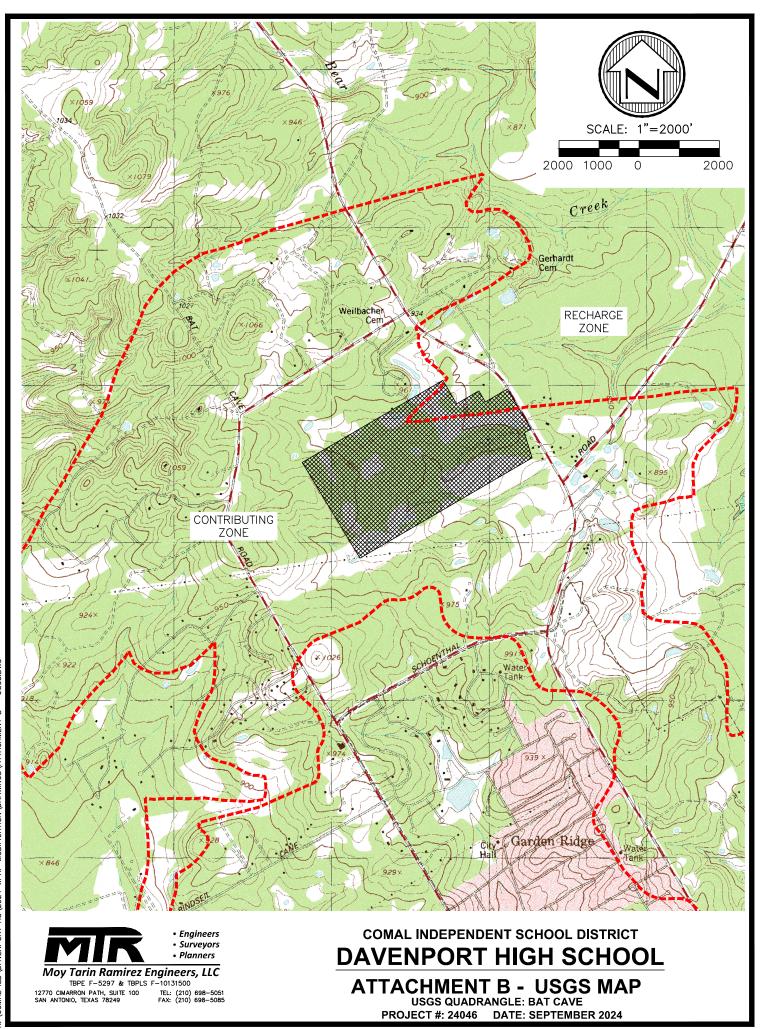
San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

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

## SUMMARY OF PREVIOUS & PROPOSED MODIFICATIONS

WPAP Modification Summary	Pre-June 1, 1999	Original WPAP	Previous Project Modification 1	Proposed Project Modification 2
Acres	113.7	113.7	113.7	113.7
Type of Development	Undeveloped	High School	High School	High School
Number of Residential Lots	N/A	N/A	N/A	N/A
Total Impervious Cover (acres)	N/A	31.22	32.53	33.07
Impervious Cover (%)	N/A	27.46%	28.61%	29.09%
Permanent BMPs	N/A	Natural VFS, Batch Detention Basins	Natural VFS, Batch Detention Basins	Engineered VFS, Natural VFS, Batch Detention Basins
Other	N/A	N/A	N/A	N/A
Approval Letter Date	N/A	April 12, 2018	September 19, 2019	TBD





## ATTACHMENT C

#### PROJECT DESCRIPTION

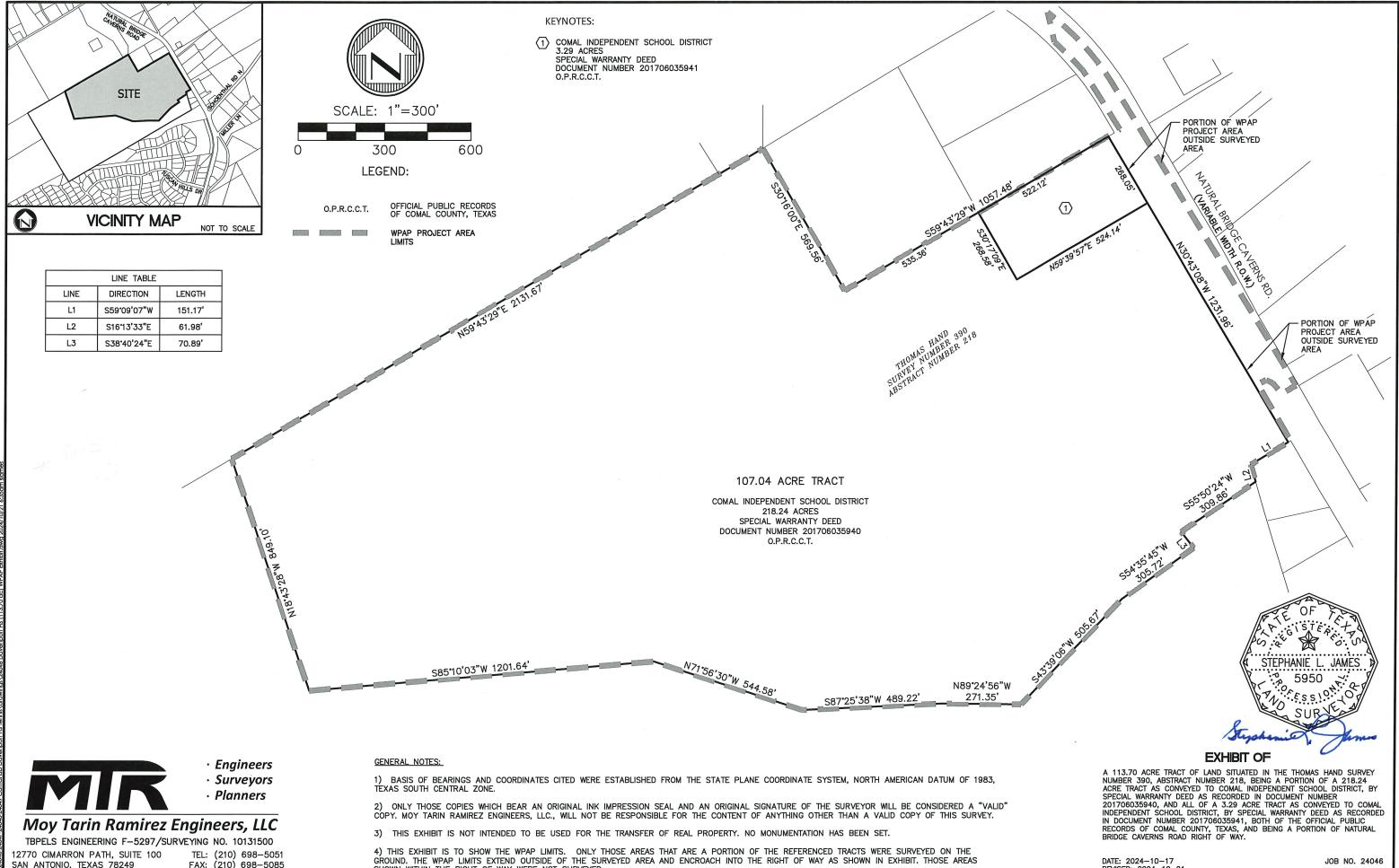
A Water Pollution Abatement Plan (WPAP) was first approved for Davenport High School by the Texas Commission on Environmental Quality on April 12, 2018. The plan was modified on September 19, 2019 to include additional grading, install utilities, and provide drainage improvements. A WPAP Exception Request was submitted to TCEQ on September 17, 2024, for demolition and associated earthwork for a building and tennis courts addition project.

The proposed project will be providing new buildings and tennis courts at Davenport High School.

The existing impervious cover for this site was 32.53 acres (28.61%). This project will result in an increase in impervious cover of 0.54 acres for a total of 33.07 acres of impervious cover (29.09%). The increase in impervious cover will be treated with existing natural VFS, the existing batch detention ponds, and new engineered VFS.

The site is located at 23255 FM3009, San Antonio, TX 78266. A portion of the property is located within the Edwards Aquifer Recharge Zone.

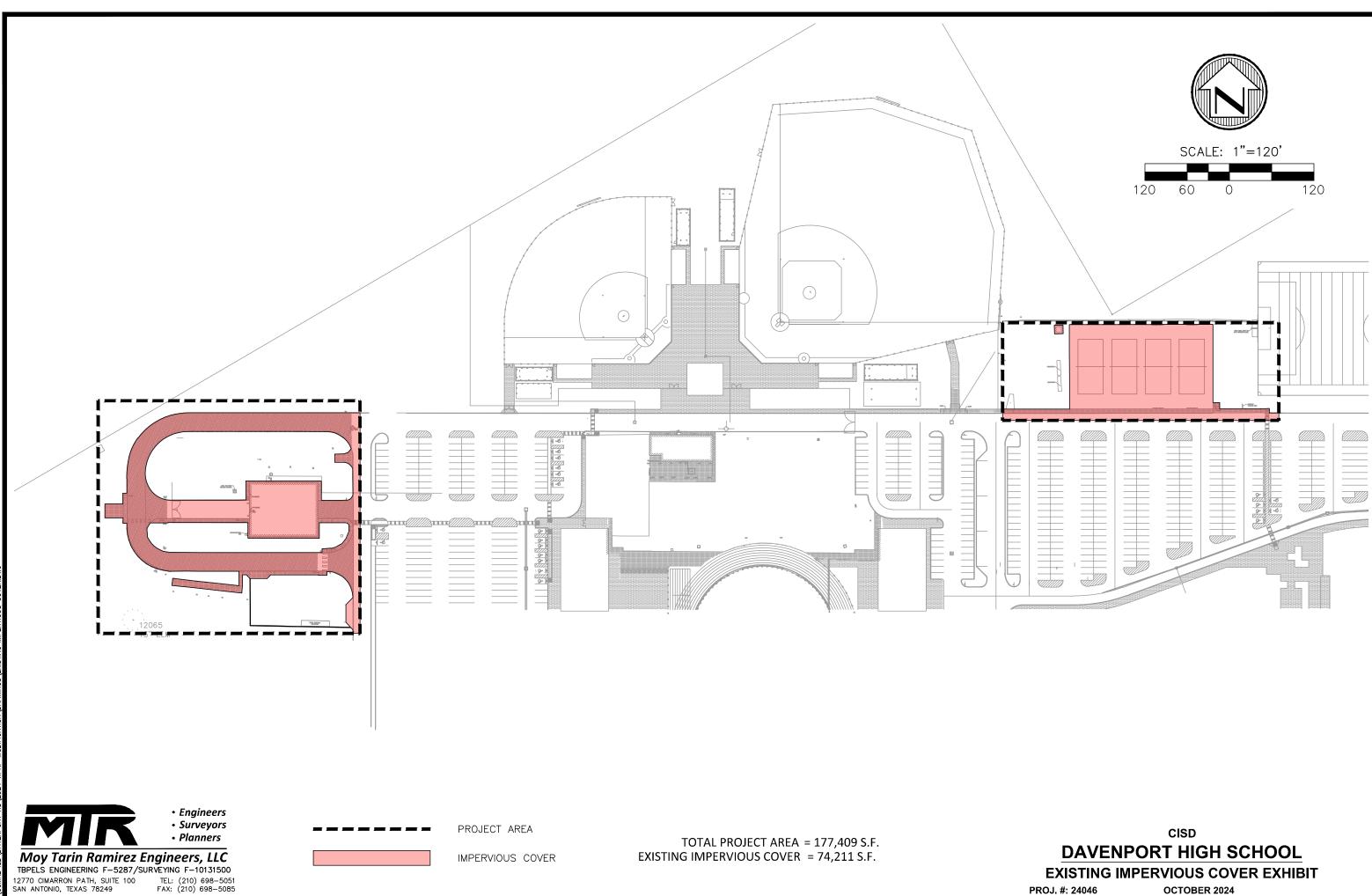
Current development consists of an existing High School The project acreage is 113.7 acres, unchanged from the previously approved WPAP modification. A boundary survey has been included with this application, providing the metes and bounds for the on-site portion of the project. The remaining off-site portion of the 113.7 acre project area is shown, but not surveyed.

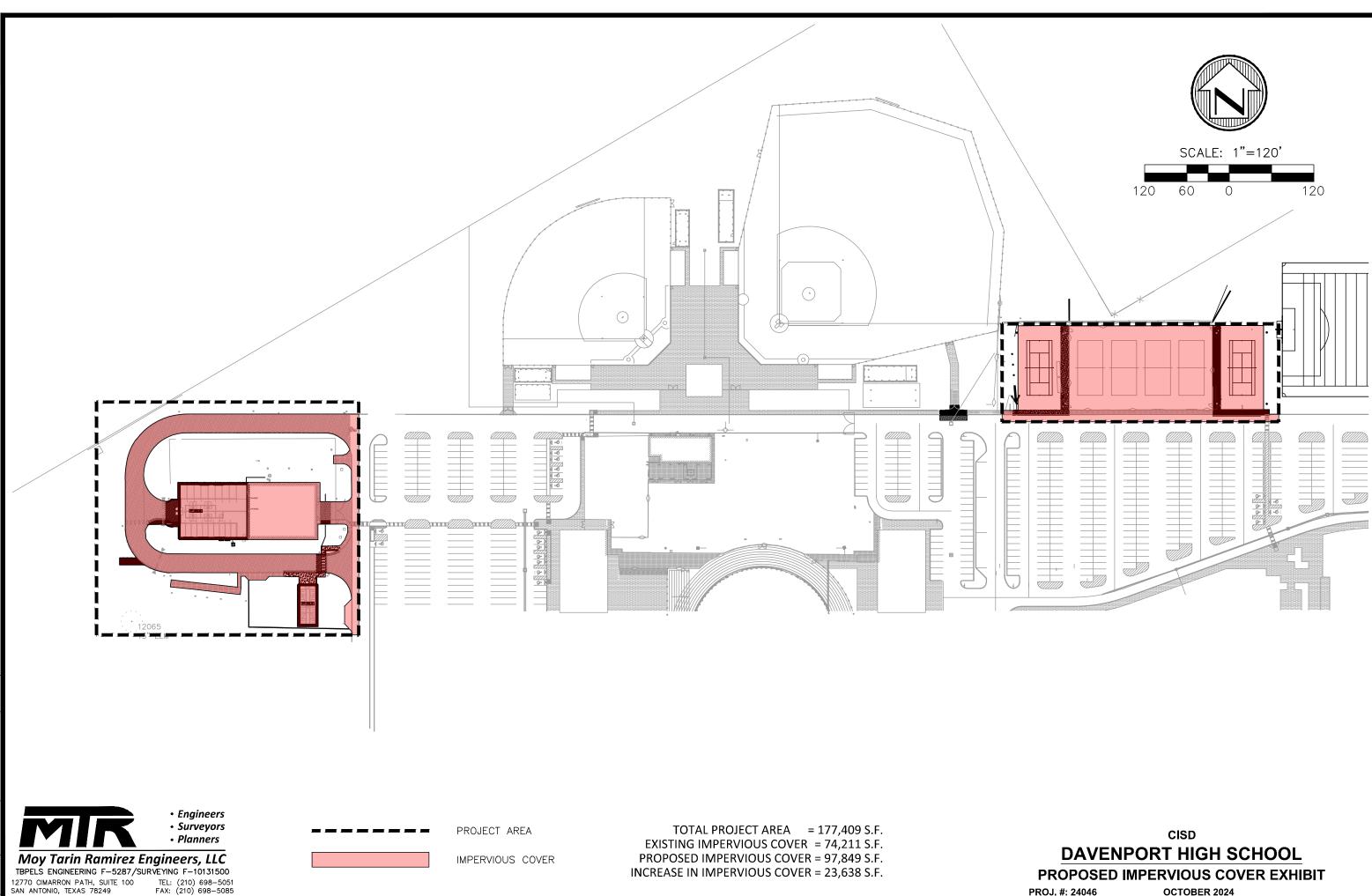


FAX: (210) 698-5085

GROUND. THE WPAP LIMITS EXTEND OUTSIDE OF THE SURVEYED AREA AND ENCROACH INTO THE RIGHT OF WAY AS SHOWN IN EXHIBIT. THOSE AREAS SHOWN WITHIN THE RIGHT OF WAY WERE NOT SURVEYED.

DATE: 2024-10-17 REVISED: 2024-10-21





PROJ. #: 24046

OCTOBER 2024

# NOTE: THE PROPOSED MODIFICATION IS WITHIN THE LIMITS OF THE PREVOIUSLY COMPLETED GEOLOGIC ASSESMENT APPROVED WITH THE ORIGINAL WPAP AND ATTACHED BEHIND THIS COVER FOR REFERENCE

# GEOLOGIC ASSESSMENT FORM (TCEQ-0585)

# **Geologic Assessment**

**Texas Commission on Environmental Quality** 

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

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

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

# Signature

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

Print Name of Geologist: Henry Stultz III

Telephone: 210-375-9000

Date: February 12, 2018

Fax: 210-375-9090

Representing: Pape-Dawson Engineers, Inc.

Texas Board of Professional Geoscientists No. 50351 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Regulated Entity Name: COMAL ISD HS #4 - FM 3009

# **Project Information**

- 1. Date(s) Geologic Assessment was performed: November 9-10, 2017; January 30, 2018
- 2. Type of Project:

$\boxtimes$	WPAP
Π	SCS

AST
UST

3. Location of Project:

Recharge Zone

Transition Zone

🔀 Contributing Zone within the Transition Zone

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



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

Soil Name	Group*	Thickness(feet)
Krum clay, 1 to 3 percent slopes (KrB)	С	3-7
Krum clay, 3 to 5 percent slopes (KrC)	С	3-7
Medlin-Eckrant association, 1 to 8 percent slopes (MEC)	D	3-7
Real gravelly loam, 1 to 8 percent slopes (RaD)	D	1-3

# Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)
Rumple-Comfort association, 1 to 8 percent slopes (RUD)	С	2-3

- \* Soil Group Definitions (Abbreviated) A. Soils having a high infiltration
  - rate when thoroughly wetted.
  - B. Soils having a moderate infiltration rate when thoroughly wetted.
  - C. Soils having a slow infiltration rate when thoroughly wetted.
  - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. X Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. X Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: 1" = 200'

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2 of 3

Site Geologic Map Scale: 1" = <u>200</u> '
Site Soils Map Scale (if more than 1 soil type): 1" = 500'

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection:

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

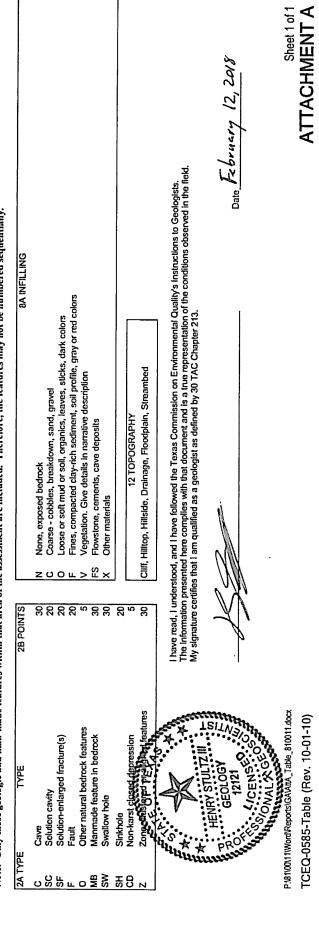
## Administrative Information

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

# ATTACHMENT A

GEOLO	GEOLOGIC ASSESSMENT TABLE	<b>AENT TABLE</b>						PR	PROJECT NAME: COMAL ISD HS #4 - FM 3009	Ŭ iii	DMAL ISD H	S #4 – FM 3(	60							
	LOCATION	N						FEAT	FEATURE CHARACTERISTICS	CTE	RISTICS				EV.	EVALUATION	NOL		HYSIC	PHYSICAL SETTING
1A	.81	+C•	ĸ	28	_		-	┝	ç	\$	9	1	\$	88	6		10		=	12
FEATURE D	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMEN	DIMENSIONS (FEET)	-	TREMD (DEGREES)	MOd	DENSITY (NOFT)	APERTURE (FEET)	DINTRIG	RELATIVE INFLITRATION RATE	TOIN	364	SENSITMITY	CATCHIN	CATCHMENT AREA (ACRES)	TOPOGRAPHY
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°-1	29.66526	-98.31273	СD	5	Kdr	380	100	5	N65W	10			F,C	5 2	20	20			×	Hillside
S-2	29.65638	-98.31112	C	5	Kdr/Kbu	170	70	5	N38W				L	2	9	9		×		Hillside
S-3	29.65701	-98.30817	CD	5	Kdr	130	45	2	N11W				Ľ	с Л	9	10			×	Hillside
S-4	29.65677	-98.30630	ទ	5	Kbu	70	70	5					L	5 2	9	10			×	Hillside
S-5	29.65604	-98.30849	MB	30	Kbu	0.5	0.5	-					ш	5	35	35		×		Hilltop
S-6	29.64725	-98.30869	Ľ	20	Kdr/Kgt Kep	2236			N89E				۰	2	25	25			×	Hillside
S-7	29.65633	-98.30989	ш	20	Kdr/Kbu 2233	2233			NG3E	10			ш	5	35	35			×	Hillside
8-8 8-0	-29.65456	-98.31266	ц	20	Kdr/Kbu 3311	3311			N85E				u.	5	25	25			×	Hillside
8-9	29.65432	-98.31031	Ľ	20	Kdr/Kbu	934			N64E	10			u.	5	35	35			×	Hillside
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Note: Only those geologic and man-made features within that area of the assessment are included. Therefore, the features may not be numbered sequentially.



# ATTACHMENT B

#### COMAL ISD HS #4 – FM 3009 Stratigraphic Column

Period	Epoch	Group	Formation	Member	Thickness	Lithology	Hydro- logic Unit	Hydrostratigr aphic Unit	Hydrologic Function	Porosity	Cavern Development
Cretaceous		ashita	Buda . Limestone		4050	Buff to light gray, dense nodular mudstone and wackestone containing calcite-filled veins and bluish dendrites; porcelaneous limestone that weathers from a smooth gray to grayish white; nodular surface has a conchoidal fracture; commonly contains iron nodules, iron staining, and shell frags	Upper confining unit to the Edwards aquifer	-	Confining	FR	Minor surface karst
	Late Cretaceous		Del Rio Clay		40-50	Fossiliferous blue-green to yellow-brown clay with thin beds of packstone; contains iron nodules; <i>llymatogyra</i> arietina	Upper co Edv		Confining	None	None
	1		George-town		20–30	Reddish-brown, gray to light tan, shaley mudstone and wackestone; commonly contains black dendrites, iron nodules, and iron staining; often fossiliferous with Plesioturrilites brazoensis, Waconella wacoensis common		I	Confining	МО	None
	-	Edwards	Person	Cyclic and marine, undivided	80-90	Pelletal limestone; ranges from chalk to mudstone and miliolid grainstone; thin to massive beds; some crossbedding evident; a packstone containing large caprinids is present near contact with the overlying Georgetown Formations; chert is common as beds and large nodules		П	Aquifer	MO, BU, VUG, BP, FR, CV	Many subsurface; might be associated with earlier karst development
				Leached and collapsed,u ndivided	70–90	Hard, dense, recrystallized limestone; mudstone, wackestone, packstone, and grainstone; contains chert as beds and large nodules; heavily bioturbated with iron- stained beds; often stromatolitic; <i>Toucasia</i> sp. Often found above contact with the underlying regional dense member; <i>Montastrea roemeriana</i> and oysters rare		III	Aquifer	BU, VUG, FR, BP, BR, CV	Extensive lateral development; large rooms
				Regional dense	20-24	Dense, shaly limestone: oyster shell mudstone and iron wackestone; wispy iron staining; chert nodules rarer than in the rest of the chert-bearing Edwards Group	ifer	IV	Confining	FR, CV	Very few; only vertical fracture enlargement
	Early Cretaceous		Kainer	Grainstone	40-50	Hard, dense Imestone that consists mostly of a tightly cememnted miliolid ir skeletal fragment grainstone; contains interspersed chalky mudstone and wackestone: chert as beds and nodules; crossbedding and ripple marks are common primarily at the contact with the overlying regional dense bed	Edwards Aquifer	v	Aquifer .	IP, IG, BU, FR, BP, CV	Few
	H			Kirsch-berg Evaporite	40–50	Highly altered crystalline limestone and chalky mudstone with occasional grainstone associated with tidal channels; chert as beds and nodules, boxwork molds are common, matrix recrystallized to a coarse graine spar; intervals of collapse breccia and travertine deposits		VI	Aquifer	IG, MO, VUG, FR, BR, CV	Probably extensive cave development
				Dolomitic	90-120	Hard, dense to granular, dolomitic limestone; chert as beds and nodules (absent in lower 20 ft); <i>Toucasia</i> sp. abundant; lower three-fourths composed of sucrosic dolomites and grainstones with hard, dense limestones interspersed; upper one-fourth composed mostly of hard, dense mudstone, wackestone, packstone, grainstone, and recrystallized dolomites with bioturbated beds		VII	Aquifer	IP, IC, IG, MO, BU, VUG, FR, BP, CV	Caves related to structure or bedding planes
				Basal nodular	40-50	Moderately hard, shaly, nodular, burrowed mudstone to miliolid grainstone that also contains dolomite; contains dark, spherical textural features known as black rotund bodies; Ceratostreon texana, Caprina sp., miliolids, and gastropods om Stein and Ozuna (1995). Porosity types - Fabric selective: IP, interparticle por	sity: 1G inte	VIII reranular porosity: IC.	Aquifer, confining unit in areas without caves	IP, MO, BU, BP, FR, CV	Large lateral caves at surface

Source: Clark, Golab, and Morris (2016); Cavern development modified from Stein and Ozuna (1995). Porosity types - Fabric selective: IP, interparticle porosity; IG, intergranular porosity; IC, intercrystalline porosity; SH, sh porosity; BU, burrowed porosity; FE, fenestral; BP, bedding plane porosity. Not fabric selective: FR, fracture porosity; CH, channel porosity; BR, breecia; VUG, vug porosity; CV, cave porosity.

# ATTACHMENT C

#### COMAL ISD HS #4 – FM 3009 Site Geology

#### NARRATIVE SUMMARY:

The overall potential for fluid migration to the Edwards Aquifer for the site is low. One sensitive geologic feature, a well, was identified on site. Four (4) faults were identified on site. The dominant trend for the site is N55<sup>o</sup>E, based on an average of the trends of faults on site and in the surrounding area.

The site is within the Buda Limestone (Kbu), the Del Rio clay (Kdr), the Georgetown, and the cyclic and marine member (Kepcm) of the Person Formation of the Edwards Group.

- The Buda Limestone (Kbu) is characterized by buff, light gray, dense mudstone. Karst development in the Kbu is generally only minor.
- The Del Rio clay (Kdr) is a blue-green to yellow-brown waxy clay. Karst development within the Kdr does not occur.
- The Georgetown (Kgt) formation is characterized by reddish-brown to light tan marly limestone. Karst development within the Kgt does not occur.
- The Kepcm member is characterized by a mudstone to pack stone miliolid grainstone, and chert. Karst development within the Kepcm is characterized by small sinkholes and caves developed as vertical shafts as well as lateral rooms.

No karst features were observed on site during site reconnaissance.

#### FEATURE DESCRIPTIONS:

#### Features S-1, S-2, S-3, and S-4

Features S-1, S-2, S-3, and S-4 are non-karst closed depressions that can be identified as ponds of water created by an earthen dam in historical aerial photographs. The features are located within the soil horizon and are of non-karst origin. Water was standing in the depressions at the time of the site visit. Due to the non-karst origin and ponding of water, the probability of rapid infiltration is low.

#### Feature S-5

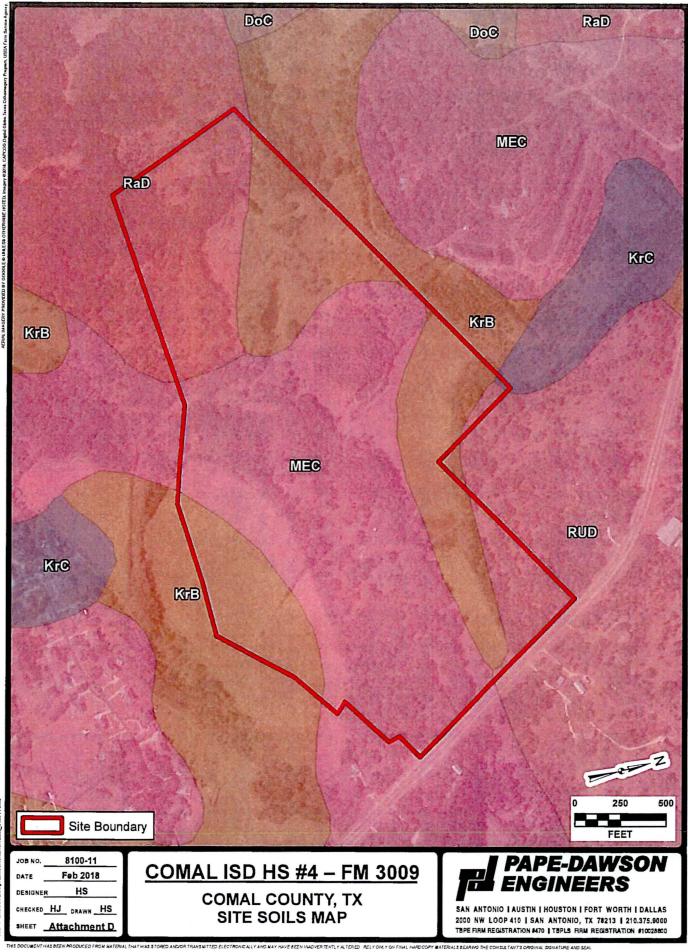
Feature S-5 is a water well located on a hilltop near a former residence. The well is constructed with four (4) inch PVC pipe in a six (6) inch steel casing, which extends about eight (8) inches above the soil horizon. Conduit and pipe are disconnected, and the well is plugged and properly abandoned. Since the well is plugged, the probability for rapid infiltration is low.

#### Features S-6, S-7, S-8, and S-9

Features S-6, S-7, S-8, and S-9 are faults identified by aerial photographs and previous mapping in the vicinity of the subject site. Soil development and fine infilling are present. No areas of enhanced permeability along the fault were observed within the limits of this project. Therefore, the probability for rapid infiltration is low.

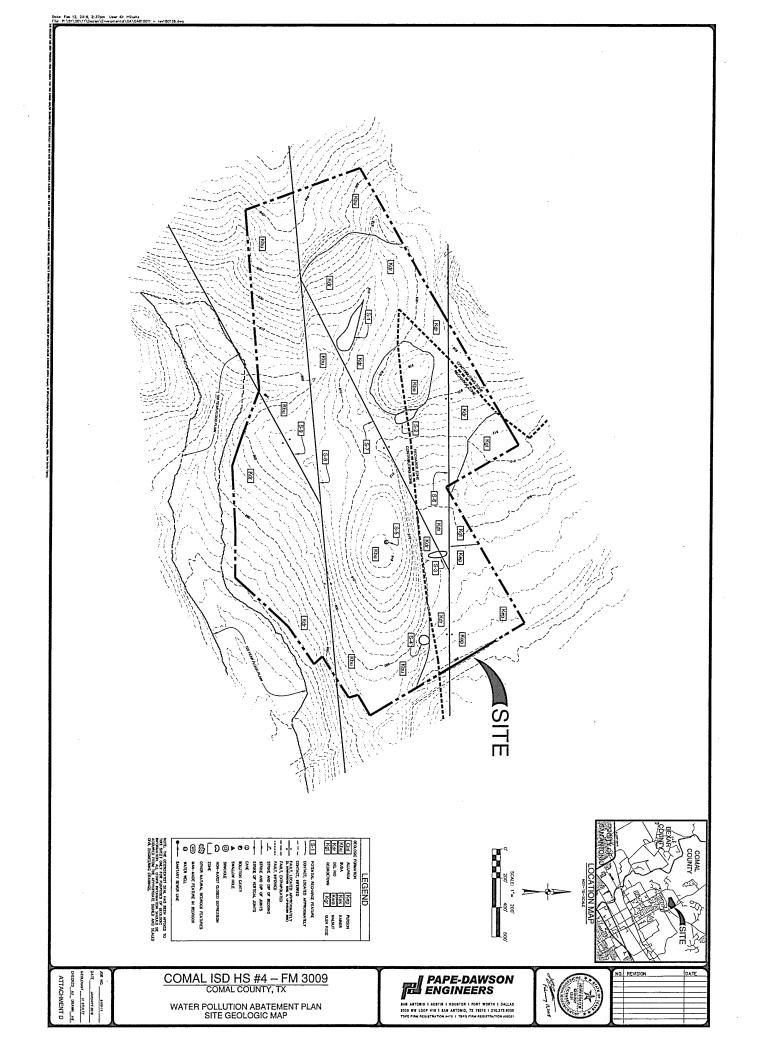
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# ATTACHMENT D



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# Modification of a Previously Approved 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 request for a **Modification of a Previously Approved 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: <u>10/7/24</u> Signature of Customer/Agent:

## **Project Information**

 Current Regulated Entity Name: <u>CISD Davenport High School</u> Original Regulated Entity Name: <u>CISD - Comal High School #4 - FM 3009</u> Regulated Entity Number(s) (RN): <u>110247541</u>

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.
- 2. 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.

3. A modification of a previously approved plan is requested for (check all that apply):

Physical or operational modification of any water pollution abatement structure(s)
including but not limited to ponds, dams, berms, sewage treatment plants, and
diversionary structures;

Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;

Development of land previously identified as undeveloped in the original water pollution abatement plan;

Physical modification of the approved organized sewage collection system;

] Physical modification of the approved underground storage tank system;

Physical modification of the approved aboveground storage tank system.

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.

WPAP Modification	Approved Project	Proposed Modification
Summary		
Acres	See Attached Summary	<u>113.7</u>
Type of Development		High School
Number of Residential		<u>N/A</u>
Lots		
Impervious Cover (acres)		<u>33.07</u>
Impervious Cover (%		<u>29.09</u>
Permanent BMPs		VFS/Batch Detention
Other		<u>N/A</u>
SCS Modification	Approved Project	Proposed Modification
Summary		
Linear Feet		
Pipe Diameter		
Other		

AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs		
Volume of ASTs		
Other		
UST Modification	Approved Project	Proposed Modification
UST Modification Summary	Approved Project	Proposed Modification
-	Approved Project	Proposed Modification
Summary	Approved Project	Proposed Modification

- 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 any 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. The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
  - Acreage has not been added to or removed from the approved plan.
- 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.

### ATTACHMENT A

### **ORIGINAL AND MODIFICATION APPROVAL LETTERS**

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Jon Niermann, Commissioner Stephanie Bergeron Perdue, Interim Executive Director





### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Protecting Texas by Reducing and Preventing Pollution

April 12, 2018

Mr. Michael McCullar Comal Independent School District 1404 IH-35 North New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County

Name of Project: CISD-Comal High School #4 – FM 3009; Located on the west side of FM 3009 approximately 4.3 miles north of its intersection with IH-35 North; ETJ of San Antonio, Texas

Type of Plan: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN110247541; Additional ID No. 13000626

Dear Mr. McCullar:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the above-referenced project submitted to the San Antonio Regional Office by Pape-Dawson Engineers, Inc. on behalf of Comal Independent School District on February 27, 2018. Final review of the WPAP was completed after additional material was received on April 02, 2018. 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.

#### PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 113.7 acres. It will include clearing, grading, construction of school buildings, athletic fields, a swimming pool, parking lots, driveways, sidewalks, utilities and drainage improvements. The project also proposes to construct a wastewater treatment plant, effluent storage pond and spray field. The impervious cover will be 31.22 acres (27.5 percent). Project wastewater will be disposed of by conveyance to a proposed onsite wastewater treatment plant that will be owned and operated by Comal Independent School District.

Mr. Michael McCullar April 12, 2018 Page 2





#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, three batch detention basins and four engineered vegetative filter strips (VFS), designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 28,023 pounds of TSS generated from the 31.22 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

Batch detention basin "A" will have a concrete liner and will have a designed water quality volume of 55,719 cubic feet (52,236 cubic feet required). The logic controller will be programmed to retain stormwater for 12 hours before releasing it. The stormwater release valve shall be equipped with a manual override. The system shall be connected to a 120-volt power supply with a battery backup unit. The basin is designed to remove 7,828 pounds (7,271 required) of TSS from the 8.10 acres of impervious cover being directed to it. This basin has been oversized to account for 0.62 acres of uncaptured impervious cover.

Batch detention basin "B" will have a concrete liner and will have a designed water quality volume of 26,710 cubic feet (21,618 cubic feet required). The logic controller will be programmed to retain stormwater for 12 hours before releasing it. The stormwater release valve shall be equipped with a manual override. The system shall be connected to a 120-volt power supply with a battery backup unit. The basin is designed to remove 4,674 pounds (4,416 required) of TSS from the 4.92 acres of impervious cover being directed to it. This basin has been oversized to account for 0.059 acres of uncaptured impervious cover.

Batch detention basin "C" will have a concrete liner and will have a designed water quality volume of 69,288 cubic feet (68,853 cubic feet required). The logic controller will be programmed to retain stormwater for 12 hours before releasing it. The stormwater release valve shall be equipped with a manual override. The system shall be connected to a 120-volt power supply with a battery backup unit. The basin is designed to remove 14,712 pounds of TSS from the 16.23 acres of impervious cover being directed to it.

The four VFSs will be at least 15 feet wide (in the direction of flow), and will extend along the entire length of the contributing area with no gullies, rills or obstructions that will concentrate flow. The VFS will have a uniform slope of less than 20 percent, and will maintain a vegetated cover of at least 80 percent. The VFSs are designed to remove 1,157 pounds of TSS from the 1.29 acres of impervious cover being directed to them.

The proposed permanent BMPs are designed to remove 28,371 pounds (28,023 required) of TSS from 31.22 acres of impervious cover.

#### **GEOLOGY**

The site is located partially over the Edwards Aquifer Recharge Zone and the Contributing Zone within the Transition Zone. The geology of the site consists of the Buda Limestone, Del Rio Clay, Georgetown Formation, and the cyclic and marine members of the Person Formation. The geologic assessment indicated that four non-sensitive geologic features (faults), and five non-sensitive man-made features were identified on-site. A site investigation conducted by a representative of the San Antonio Regional Office on March 26, 2018 revealed the site was generally as described in the geologic assessment.

#### SPECIAL CONDITIONS

I. Each permanent pollution abatement measure shall be operational prior to occupancy of any facility within its respective drainage area.





- II. All sediment and/or media removed from the water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- III. This application discusses the construction of a proposed wastewater treatment plant and effluent storage pond and spray field. Additional and separate approvals, permits, or authorizations from other TCEQ programs (i.e., Wastewater, Stormwater, etc.) may be required prior to commencing regulated activities associated with the wastewater treatment plant.

#### 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. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
- 5. 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 WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP 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.
- 7. 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 date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, 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.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with





cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

#### During Construction:

- 10. During the course of regulated activities related to this project, the applicant or 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.
- 11. 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. 6, above.
- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. One well exists on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. 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 reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. 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.
- 16. 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.
- 17. 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.

#### After Completion of Construction:

- 18. 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.
- 19. 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. The regulated 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 San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection 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.
- 21. An Edwards Aquifer protection 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 Edwards Aquifer protection 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.
- 22. 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.

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 Mr. Alex Grant of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4035.

Sincerely,

Lynn Bumguardner, Water Section Manager San Antonio Region Texas Commission on Environmental Quality

LB/AG/eg

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625 Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Jason Diamond, P.E., Pape-Dawson Engineers, Inc.

- Mr. Tom Hornseth, P.E., Comal County
- Mr. H. L. Saur, Comal Trinity Groundwater Conservation District
- Mr. Scott Halty, San Antonio Water System
- Mr. Roland Ruiz, Edwards Aquifer Authority

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



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 19, 2019

Mr. Michael McCullar Comal Independent School District 1404 IH-35 North New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: CISD Comal High School #4 FM 3009; Located approximately 4.3 miles northwest of the IH-35 and FM 3009 intersection; ETJ of San Antonio, Texas

TYPE OF PLAN: Request for Modification of an Approved Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN110247541; Additional ID. No. 13000971

Dear Mr. McCullar:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP Modification Application for the above-referenced project submitted to the San Antonio Regional Office by Pape-Dawson Engineers, Inc. on behalf of the Comal Independent School District on July 30, 2019. Final review of the WPAP Modification was completed after additional material was received on September 13, 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 CISD Comal High School #4 FM 3009 WPAP was approved by letter dated April 12, 2018 for a commercial project with an area of approximately 113.7 acres. The project included clearing, grading, construction of school buildings, athletic fields, a swimming pool, parking lots, driveways, sidewalks, utilities and drainage improvements. In addition, the project proposed to

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Mr. Michael McCullar Page 2 September 19, 2019

construct a wastewater treatment plant, effluent storage pond and spray field. The impervious cover totaled 31.22 acres (27.45 percent). Three batch detention basins and four engineered vegetative filter strips were proposed as permanent BMPs.

#### PROJECT DESCRIPTION

This project proposes additional grading, installation of utilities, and installation of drainage improvements within the 113.7-acre site in order to construct an agricultural barn and poultry house along with associated parking and drives, and a golf driving range. Impervious cover for this project is 1.31 acres. Total site impervious cover totals 32.53 acres (28.61 percent). Project wastewater will be disposed of by conveyance to the proposed CISD Comal High School #4 Wastewater Treatment Plant to be owned and operated 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, the existing batch detention basin "C" and a 50-foot natural vegetative filter strip, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules:</u> <u>Technical Guidance on Best</u> <u>Management Practices (2005)</u>, will treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 1,176 pounds of TSS generated from the 1.31 acres of impervious cover. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project.

#### GEOLOGY

According to the geologic assessment included with the application, the site lies within the Buda Limestone, Del Rio Clay, Georgetown Formation and the cyclic and marine members of the Person Formation. Four (4) non-karst closed depressions, four (4) non-sensitive geologic features and one (1) non-sensitive manmade feature were noted by the project geologist. The site assessment conducted on August 22, 2019 revealed that the site was generally as described in the application.

#### SPECIAL CONDITION

I. All sediment and/or media removed from the existing batch detention basin "C" 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.

Mr. Michael McCullar Page 3 September 19, 2019

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. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
- 5. 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 WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP 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.
- 7. 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 date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, 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.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

#### **During Construction:**

- 10. During the course of regulated activities related to this project, the applicant or 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.
- 11. 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. 6, above.

- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. One well exists on the site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
- 14. 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 reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. 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.
- 16. 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.
- 17. 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.

#### After Completion of Construction:

- 18. 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.
- 19. 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. The regulated 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 San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that

Mr. Michael McCullar Page 5 September 19, 2019

> 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.

- 21. An Edwards Aquifer protection 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 Edwards Aquifer protection 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.
- 22. 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.

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: Deed Recordation Affidavit, Form TCEQ-0625 Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

Mr. Jason T. Diamond, P.E., Pape-Dawson Engineers, Inc.
 Mr. Thomas Hornset, P. E., Comal County
 Mr. H. L. Saur, Comal Trinity Groundwater Conservation District
 Mr. Scott Halty, San Antonio Water System
 Mr. Roland Ruiz, Edwards Aquifer Authority

## ATTACHMENT B

## NARRATIVE OF PROPOSED MODIFICATION

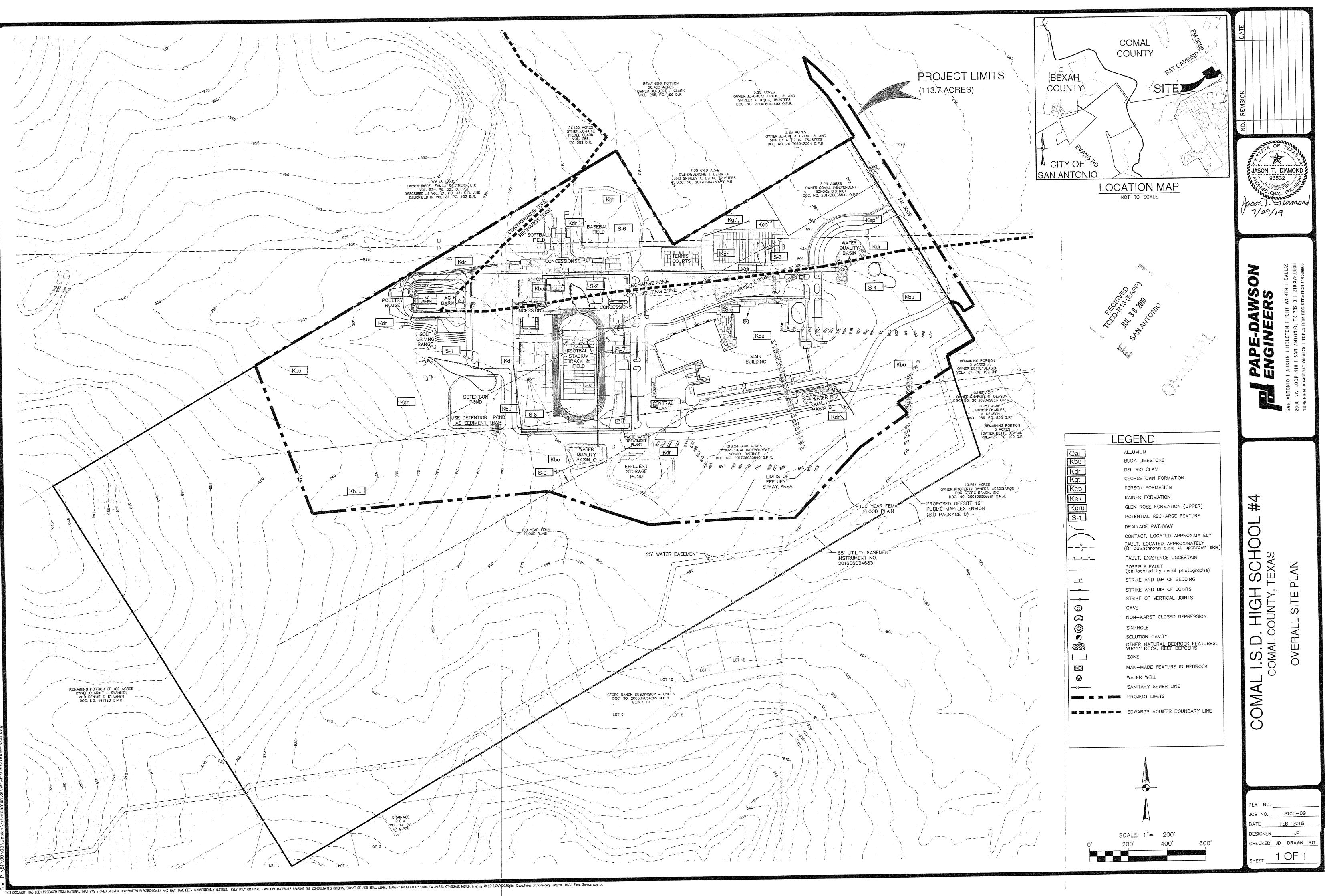
A Water Pollution Abatement Plan (WPAP) was first approved by the Texas Commission on Environmental Quality on April 12, 2018. The plan was modified on September 19, 2019 to include additional grading, installation of utilities, and the installation of drainage improvements.

A WPAP Exception Request was submitted to TCEQ on 9/17/2024 for demolition and earthwork associated with a building and tennis courts addition at Davenport High School. This modification application is for the proposed construction associated with the addition. The increase in impervious cover associated with these improvements will be treated with a combination of the existing batch detention basins, existing natural vegetative filter strips (VFS), and new engineered VFS. The proposed impervious cover for the site will be 33.07 acres (29.09%), an increase of 0.54 acres from the 32.53 acres of impervious cover recorded in the 2019 modification approval letter.

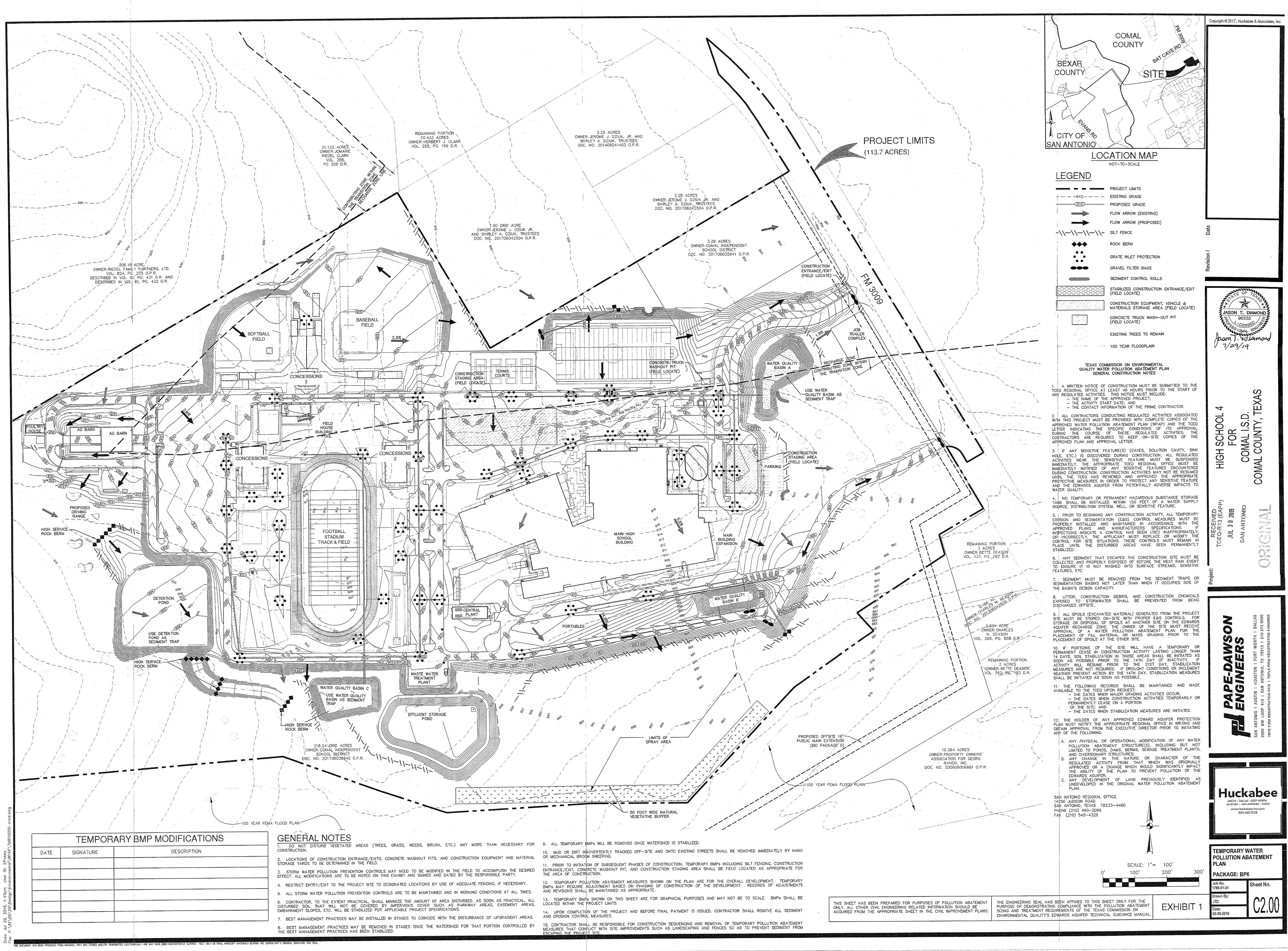
Davenport High School is located at 23255 FM3009, San Antonio, TX 78266 and is partially located over the Edwards Aquifer Recharge Zone. Current development consists of an existing high school.

## ATTACHMENT C

CURRENT SITE PLAN OF THE APPROVED PROJECT



3, 2019, 3:33pm User ID: EPosey 00\09\Desian\Environmental\WPAP\0A810009-M(



AGGREGAT SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT MATERIALS

DIVERSION RIDGE -

GEOTEXTILE FABRIC 1

DRAINAGE

STABILIZE FOUNDATION

4" TO 8" COARSE

1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN. 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8-INCHES.

3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD2, A MULLEN BURST RATING OF 140 LB/IN2, AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE. 4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR

INSTALLATION AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE. 2. THE MINIMUM WIDTH OF THE ENTRANCE /EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER. 3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG. 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE

FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD. 5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED. 6. PLACE STONE TO DIMENSIONS AND GRADEN SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE. 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN. 8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD

SECTION "A-A" OF A CONSTRUCTION ENTRANCE/EXIT COMMON TROUBLE POINTS

IVERSION RIDGE

GEOTEXTILE FABRIC TO

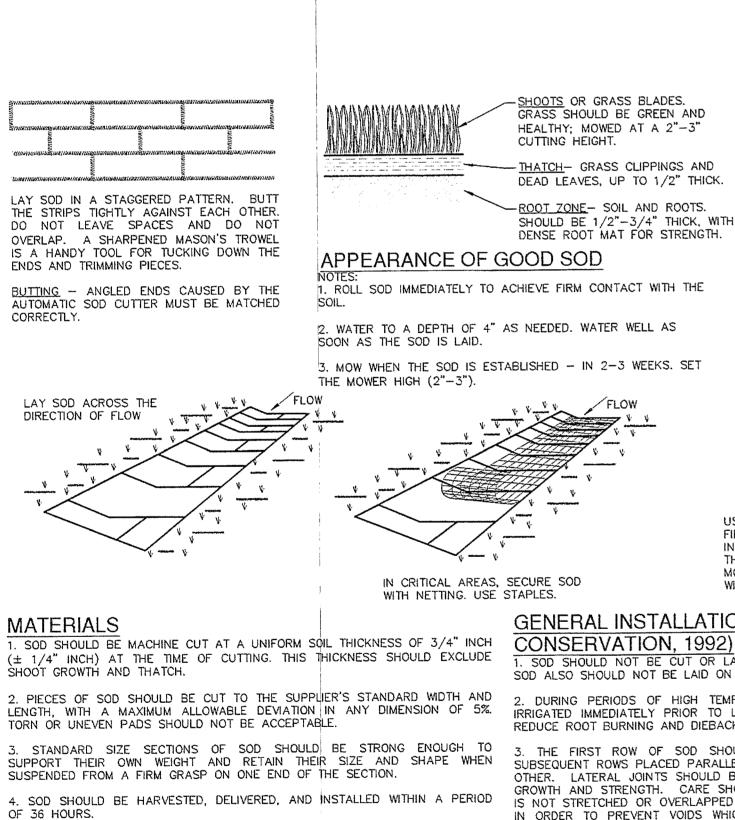
STABILIZE FOUNDATION

1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL. 5. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC-EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY. H. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD/BEING TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD. 5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WIL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. 5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

## STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL NOT-TO-SCALE



## SITE PREPARATION

PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN. 2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL 5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC. SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE). AFTER ROLLING OR TAMPING. SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER

NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL

GRASS SHOULD BE GREEN AND HEALTHY; MOWED AT A 2"-3" -THATCH- GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK -ROOT ZONE- SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK, WITH

1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE

3. MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET

DENSE ROOT MAT FOR STRENGTH.

INCORRECT SOD INSTALLATION  $\Box \Box \Box \cap$ 

CORRECT

	(			-			PEG STA
USE	PEGS	OR	STA	PLES	то	FASTEN	SOD

FIRMLY - AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY T MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.

GENERAL INSTALLATION (VA. DEPT. OF

SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER. SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN. . DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND REDUCE ROOT BURNING AND DIEBACK.

. THE FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE)

4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OR OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON CONTOUR).

AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS THOROUGHLY WET. UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE

ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4 . THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2-3 WEEKS. NOT MORE THAN ONE THIRD OF THE GRASS

LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

INSPECTION AND MAINTENANCE GUIDELINES LOCATE AND REPAIR ANY DAMAGE. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

SOD INSTALLATION DETAIL NOT-TO-SCALE

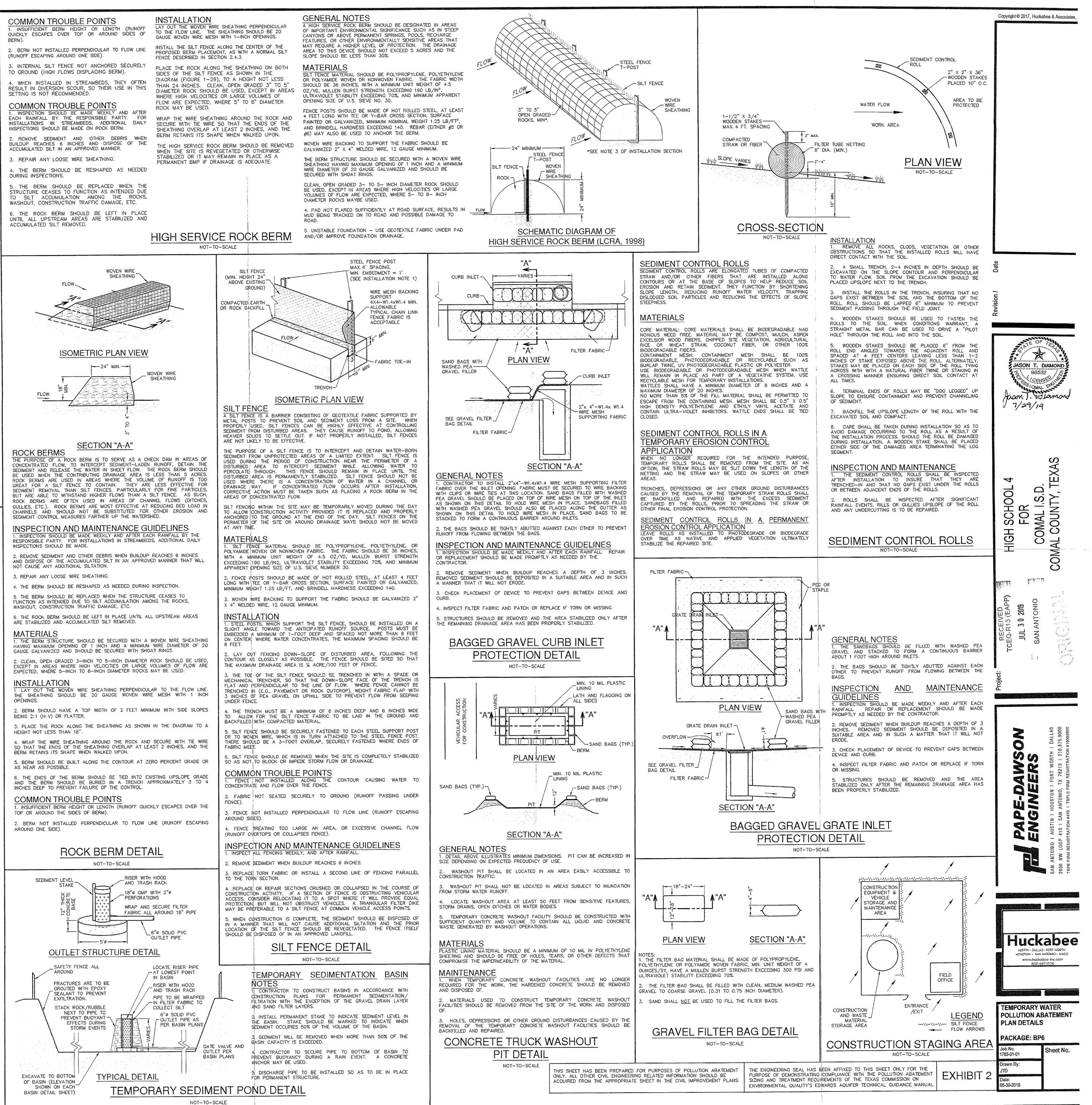
is document has been produced from material that was stored and/or transmitted electronically and may have been inadvertently altered. Rely only on Final Hardcopy materials bearing the consultant's original signature and seal

# COMMON TROUBLE POINTS

4. THE BERM SHOULD BE RESHAPED AS NEEDED

ACCUMULATION AMONG THE ROCKS

# DIAMETER ROCKS MAYBE USED.



## Water Pollution Abatement Plan Application

## **Texas Commission on Environmental Quality**

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

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

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

## Signature

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

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

Date: 10 7 24

Signature of Customer/Agent:

Regulated Entity Name: CISD Davenport High School

## **Regulated Entity Information**

- 1. The type of project is:
  - Residential: Number of Lots:

Residential: Number of Living Unit Equivalents:\_\_\_\_\_

- Commercial
- Industrial
- Other:<u>High School</u>
- 2. Total site acreage (size of property): 113.7
- 3. Estimated projected population: +/- 1000
- 4. The amount and type of impervious cover expected after construction are shown below:

TCEQ-0584 (Rev. 02-11-15)

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	260,751	÷ 43,560 =	5.99
Parking	181,419	÷ 43,560 =	4.16
Other paved surfaces	998,476	÷ 43,560 =	22.92
Total Impervious Cover	1,440,646	÷ 43,560 =	33.08

Table 1 - Impervious Cover Table

Total Impervious Cover 33.07 ÷ Total Acreage 113.7 X 100 = 29.09% Impervious Cover

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

## For Road Projects Only

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

7. Type of project:

TXDOT road project.

County road or roads built to county specifications.

City thoroughfare or roads to be dedicated to a municipality.

Street or road providing access to private driveways.

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

Concrete
Asphaltic concrete pavement
Other:

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

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

10. Length of pavement area: \_\_\_\_\_ feet.

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

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

A rest stop will not be included in this project.

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

## Stormwater to be generated by the Proposed Project

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

## Wastewater to be generated by the Proposed Project

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

<u>100</u> % Domestic	<u>20,000</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>20,000 gpd sized for TLAP</u>	

15. Wastewater will be disposed of by:

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

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

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

Sewage Collection System (Sewer Lines):

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

The SCS was previously submitted on\_\_\_\_\_.

] The SCS was submitted with this application.

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

The sewage collection system will convey the wastewater to the <u>CISD HS #4</u> (name) Treatment Plant. The treatment facility is:

$\times$	Existing.
	Proposed

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

## Site Plan Requirements

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

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

Site Plan Scale: 1" = <u>200</u>'.

18. 100-year floodplain boundaries:

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

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): <u>48091C0415F &amp; 48091C0420F, both effective 9/2/2009</u>

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

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

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

There are  $\underline{1}$  (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

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

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

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

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

- 21. Geologic or manmade features which are on the site:
  - All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

No sensitive geologic or manmade features were identified in the Geologic Assessment.

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

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

🖂 N/A

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

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

28. 🛛 Legal boundaries of the site are shown.

## Administrative Information

- 29. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

## ATTACHMENT A FACTORS AFFECTING WATER QUALITY

Landscaping, vehicular traffic, and various construction activities may affect the quality of stormwater originating on the proposed site. These factors may cause small amounts of oil, grease, suspended solids, fertilizers, and pesticides to enter into the stormwater runoff. However, temporary BMPs have been designed on the basis of the Technical Guidance Manual to treat the required amount of stormwater runoff as to not adversely affect water quality entering into any surface water or groundwater.

## ATTACHMENT B VOLUME AND CHARACTER OF STORMWATER

### <u>Volume</u>

The rational method (Q=CIA) was used to calculate the 25-year storm event. The following areas and volumes were calculated:

#### On-Site Drainage Area 1

Existing Conditions Area = 27.61 acres Impervious Cover = 0.86 acres Runoff Coefficient = 0.53 Percent Impervious = 3.13% Q<sub>25</sub> = 132.72 cfs

### On-Site Drainage Area 2

Existing Conditions Area = 10.97 acres Impervious Cover = 8.10 acres Runoff Coefficient = 0.85 Percent Impervious = 73.84% Q<sub>25</sub> = 81.00 cfs Proposed Conditions Area = 27.61 acres Impervious Cover = 1.01 acres Runoff Coefficient = 0.54 Percent Impervious = 3.67% Q<sub>25</sub> = 133.34 cfs

Proposed Conditions Area = 10.97 acres Impervious Cover = 8.50 acres Runoff Coefficient = 0.87 Percent Impervious = 77.48% Q<sub>25</sub> = 82.56 cfs

## **Character of Storm Water**

Stormwater runoff generated from the site during construction will be typical of a high school educational facility with buildings, parking lots, and athletics fields. 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 maintenance activities. Permanent stabilization of areas where soil is disturbed by construction activities will be accomplished by solid sodding in those areas.

Stormwater 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 the existing batch detention basins, natural VFS, and new engineered VFS.

## ATTACHMENT C WPAP SITE PLAN

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES

- WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION MUST INCLUDE THE DATE ON WHICH THE REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR AND THE NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.
- 2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
- 3. IF ANY SENSITIVE FEATURE IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
- 4. NO TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM IS INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL, OR OTHER SENSITIVE FEATURE.
- 5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECIFIED IN THE TEMPORARY STORM WATER SECTION OF THE APPROVED EDWARDS AQUIFER PROTECTION PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.
- 6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS TO WATER QUALITY (E.G., FUGITIVE SEDIMENT IN STREET BEING WASHED INTO SURFACE STREAMS OR SENSITIVE FEATURES BY THE NEXT RAIN).
- 7. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.
- 8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES (E.G., SCREENING OUTFALLS, PICKED UP DAILY).
- 9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.
- 10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE. IN AREAS EXPERIENCING DROUGHTS WHERE THE INITIATION OF MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS STABILIZATION TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- 12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
- A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
- B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
- C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

AUSTIN REGIONAL OFFICE 2800 S. IH 35, SUITE 100 AUSTIN, TEXAS 78704-5712 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

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.



# GENERAL NOTES:

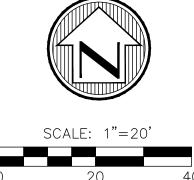
- 1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE STRUCTURES.
- 2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED ON PLAN.
- 3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED.
- 4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES.
- 5. 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 STORM WATER DISCHARGES TO SURFACE WATER.
- 7. CONTRACTOR SHALL MODIFY PLAN AS NECESSARY TO PROVIDE FOR PROPER STORM WATER POLLUTION PREVENTION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. ALL MODIFICATIONS ARE TO BE NOTED ON CONTRACTOR'S COPY OF THE WPAP SITE PLAN DRAWING AND REPORT ON THE PROJECT SITE. 8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER POLLUTION CONTROLS OF THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.

# 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 ÉLECTRICAL 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.

# PROJECT DATA:

- 1) SIZE ~ 113.7 ACRES 2) LOTS ~ 1 LOT 3) OWNER ~ COMAL INDEPENDENT
- SCHOOL DISTRICT

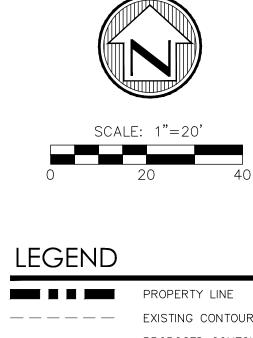


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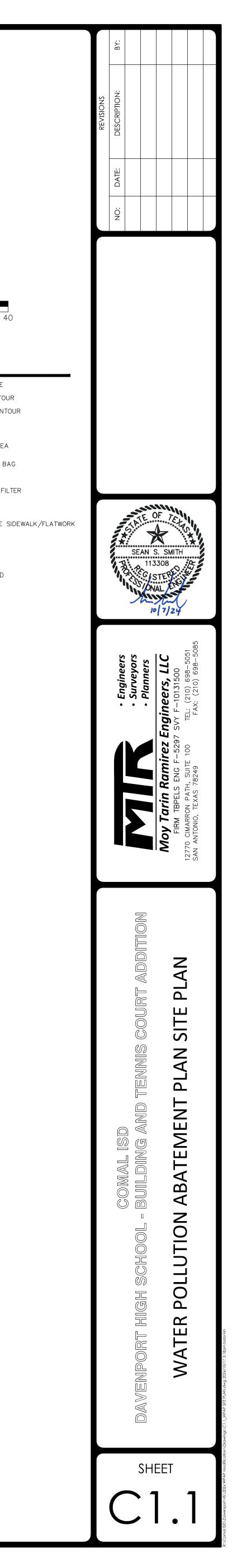




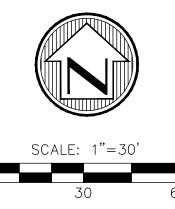
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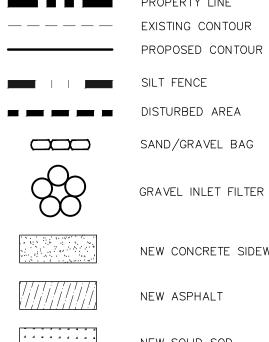
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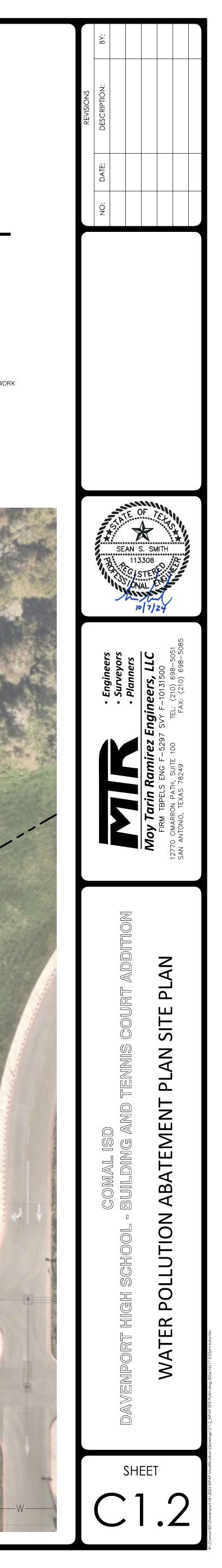


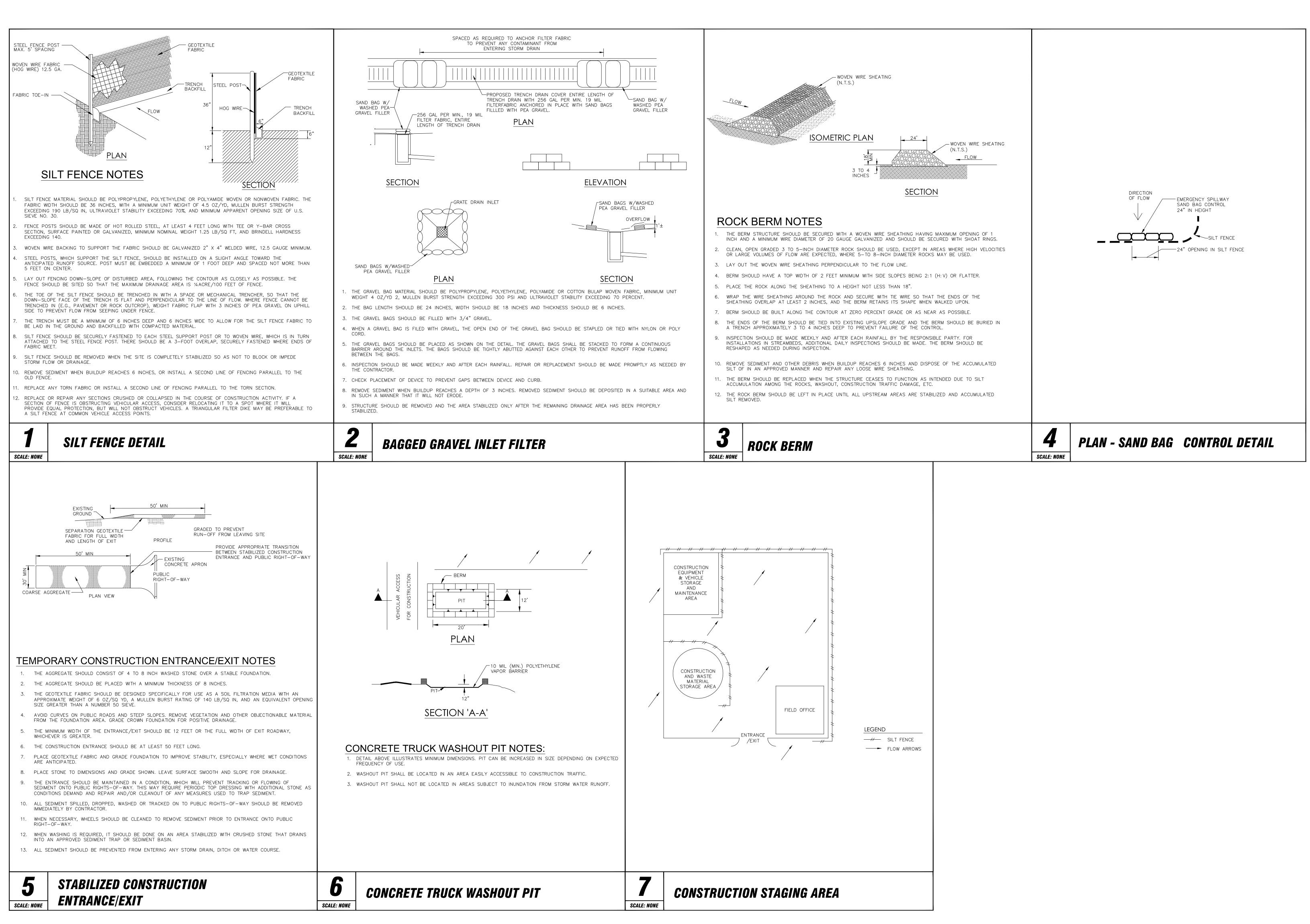
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PROPERTY LINE

SILT FENCE DISTURBED AREA







## **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: 10/7/24

Signature of Customer/Agent:

Regulated Entity Name: CISD Davenport 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.

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

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

## Sequence of Construction

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

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

- For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Dry Comal Creek</u>

## Temporary Best Management Practices (TBMPs)

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

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

<ul> <li>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.</li> <li>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.</li> <li>A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.</li> <li>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.</li> </ul>
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.
<ul> <li>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.</li> <li>There will be no temporary sealing of naturally-occurring sensitive features on the site.</li> </ul>
<b>Attachment F - Structural Practices</b> . 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.
Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:
<ul> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.</li> <li>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.</li> <li>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.</li> <li>There are no areas greater than 10 acres within a common drainage area that will be used in combination with other erosion and sediment controls within each 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 at one time.</li> </ul>

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

- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
  - 🛛 N/A
- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. 🖂 Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

## Soil Stabilization Practices

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

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

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

## Administrative Information

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

## ATTACHMENT A SPILL RESPONSE ACTIONS

- 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. <u>Cleanup</u>

(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 WPAP Site Plan. Silt fence will be placed along the down gradient boundary.
- B. Demolition and grading (5.59 acres disturbed)
- C. Construction of building and tennis court addition (5.59 acres disturbed)
- D. 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.

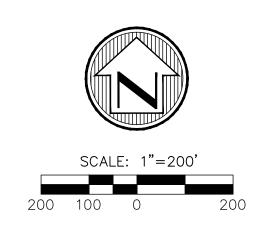
#### Maintaining flow to naturally-occurring sensitive features:

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.

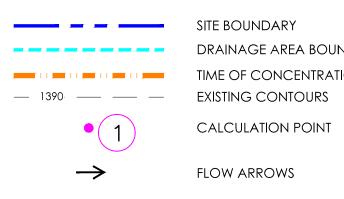
## ATTACHMENT F STRUCTURAL PRACTICES

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.





## LEGEND



DRAINAGE AREA BOUNDARY CALCULATION POINT FLOW ARROWS

## EXISTING DRAINAGE CALCULATIONS

	EXISTING CONDITIONS Q CALCULATION									
PT. NO.	AREA OF ACCUMULATION	TOTAL ACRES	C-VALUE	Tc (min)	l5 (in/hr)	l25 (in/hr)	1100 (in/hr)	Q5 (cfs)	Q25 (cfs)	Q100 (cfs)
1	1	27.61	0.53	10.00	6.36	9.00	11.43	93.79	132.72	168.54
2	2	10.97	0.85	11.00	6.13	8.66	11.00	57.33	81.00	102.83

## PROPOSED DRAINAGE CALCULATIONS

	PROPOSED/ULTIMATE CONDITIONS Q CALCULATION									
PT. NO.	AREA OF ACCUMULATION	TOTAL ACRES	C-VALUE	Tc (min)	15 (in/hr)	125 (in/hr)	l100 (in/hr)	Q5 (cfs)	Q25 (cfs)	Q100 (cfs)
1	1	27.61	0.54	10.00	6.36	9.00	11.43	94.22	133.33	169.31
2	2	10.97	0.87	11.00	6.13	8.66	11.00	58.43	82.56	104.81



## ATTACHMENT I INSPECTION AND MAINTENANCE FOR BMPS

### <u>Silt Fence</u>

- 1. Inspect all fencing <u>weekly</u>, 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.
- 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 DAVENPORT HIGH SCHOOL

## Responsible Party Form

Pollution Prevention Measure			Corrective Action Date Completed			
			Description	Date Completed		
	Inspections					
nce	Fencing					
Silt Fence	Sediment Removal					
Sil	Torn Fabric					
	Crushed/Collapsed Fencing					
ed t rs	Inspections					
Bagged Gravel Inlet Filters	Replaced/Reshaped					
E C E	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 14<sup>th</sup> 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 14<sup>th</sup> 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.

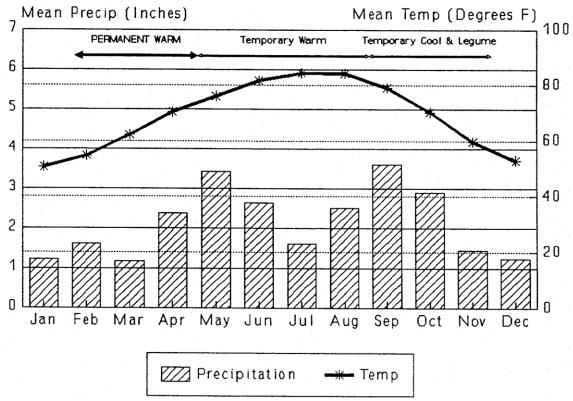


Figure 1-19 Planting Dates for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

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

Dates	Climate	Species (lb/ac)	
Sept 1 to Nov 30	Temporary Cool Season	Tall Fescue	4.0
		Oats	21.0
		Wheat (Red,	20.0
		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  $\frac{1}{2}$ " 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	Irrigate entire root depth once every two weeks, or as necessary to ensure vigorous growth
Project	

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.

## **Permanent Stormwater Section**

**Texas Commission on Environmental Quality** 

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

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

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

## Signature

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

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

Date: <u>10/</u>7/24

Signature of Customer/Agent

Regulated Entity Name: CISD Davenport High School

## Permanent Best Management Practices (BMPs)

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

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



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

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

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

N/A

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

\_\_\_\_\_N/A

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

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

11. Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
Prepared and certified by the engineer designing the permanent BMPs and measures
Signed by the owner or responsible party Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
A discussion of record keeping procedures
□ N/A
12. Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
⊠ N/A
13. Attachment I -Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the

creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.

N/A

## Responsibility for Maintenance of Permanent BMP(s)

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

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

N/A

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

N/A

### ATTACHMENT B BMP'S FOR UPGRADIENT STORM WATER

According to the previously approved WPAP Modification, upgradient water is intercepted and routed around the site. No changes will be made to the interceptor infrastructure. No upgradient water will cross on-site impervious cover.

## ATTACHMENT C BMPs FOR ON-SITE STORMWATER

There will be an increase of 0.55 acres of impervious cover due to the proposed project. This increase will be treated by utilizing the existing batch detention basins, existing natural VFS, and new engineered VFS. This increase in impervious cover is associated with a TSS removal requirement of 29,684 pounds.

According to the previously approved WPAP and WPAP modification, the existing TSS removal requirement of 29,199 pounds is provided by the existing natural VFS, engineered VFS, and three batch detention basins. The engineered VFS and basins "B" and "C" will remain unchanged with this modification. Basin "A" and the 50' natural VFS will be utilized to treat the increase in impervious cover associated with the proposed improvements. Additionally, new engineered VFS will be provided to treat a portion of the new tennis court addition.

The building addition on the west side of the project site is comprised of a 0.14-acre increase in impervious cover. This increase will be treated by the existing previously approved 50' natural VFS. The new TSS removal total provided by the natural VFS will be 1,149 pounds (1,023 pounds of removal previously provided.

The proposed improvements will result in an increase in impervious cover of 0.40 acres within the drainage area contributing to Basin "A". This increases the total impervious cover within the drainage area to 8.50 acres. As a result, the removal requirement for the basin will be 7,630 pounds. The basin will still provide 557 pounds of overtreatment, which would bring the total desired treatment for this basin to 8,187 pounds. However, 0.19 acres of impervious cover within the drainage area will be treated with new engineered VFS, which will remove 171 pounds of TSS before the runoff reaches the basin. Ultimately, the desired removal in Basin "A" is 8,016 pounds of TSS (8,017 in the spreadsheet to account for a rounding error), which corresponds to a capture volume requirement of 47,965 cubic feet. The capture volume for the basin is 55,719 cubic feet, so no modification to the basin structure will be required.

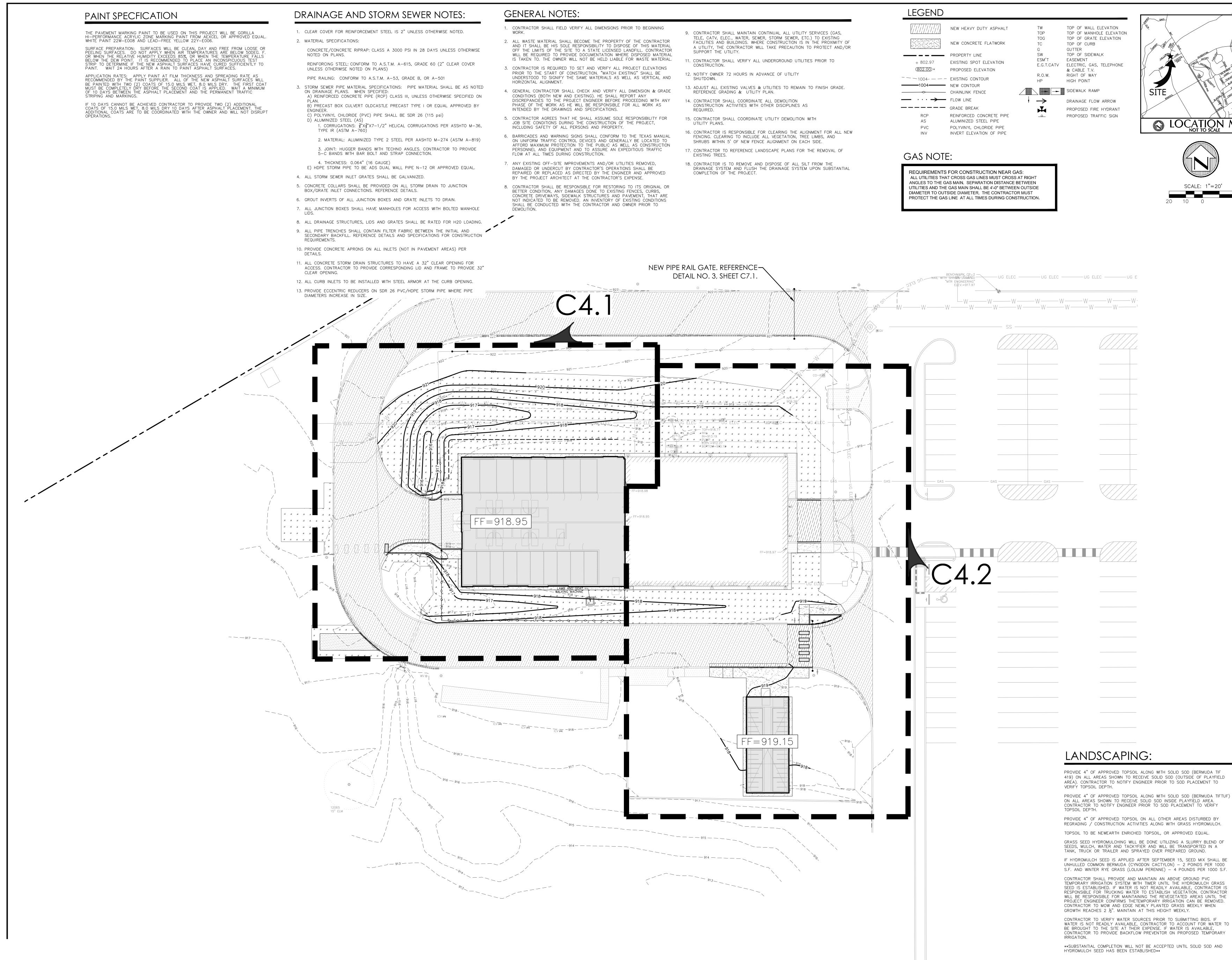
The following table summarizes the proposed treatment provided by both the existing and proposed permanent BMPs.

BMP Treatme	BMP Treatment Summary Table								
Permanent BMP	TSS Removal Desired	Notes							
Water Quality Basin "A"	8,017	Includes 557 pounds of overtreatment							
Water Quality Basin "B"	4,469	Includes 53 pounds of overtreatment							
Water Quality Basin "C"	14,721								
Existing Engineered VFS	287								
Existing Engineered VFS	296								
Existing Engineered VFS	287								
Existing Engineered VFS	287								
Existing 50' Natural VFS	1,149								
Proposed Engineered VFS	171								
Total	29,684								

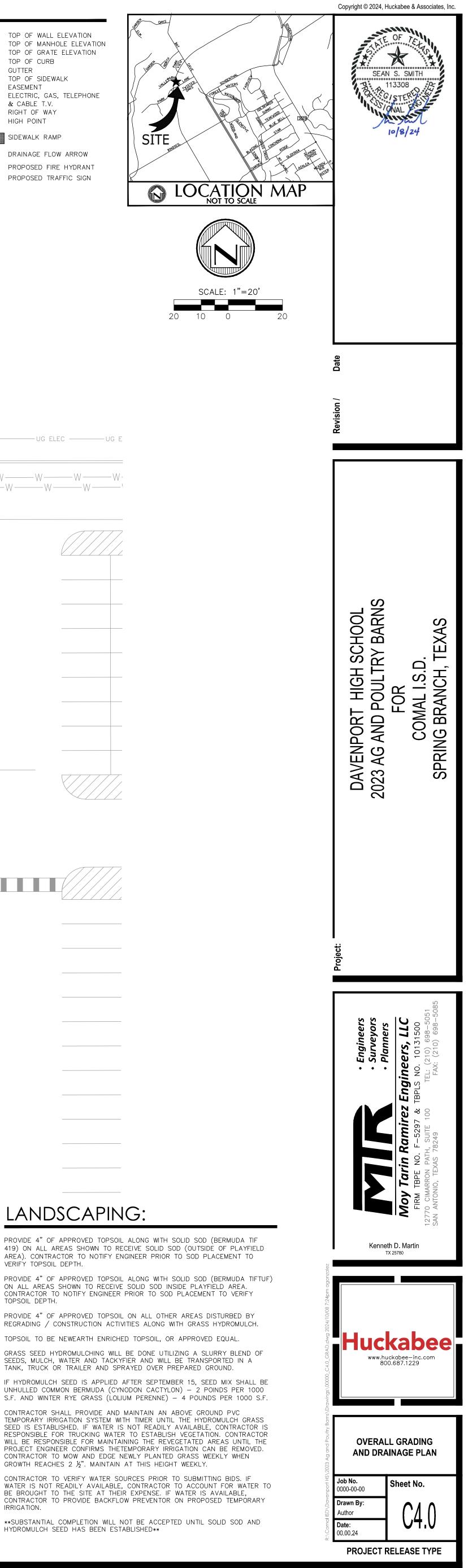
## ATTACHMENT D BMPs FOR SURFACE STREAMS

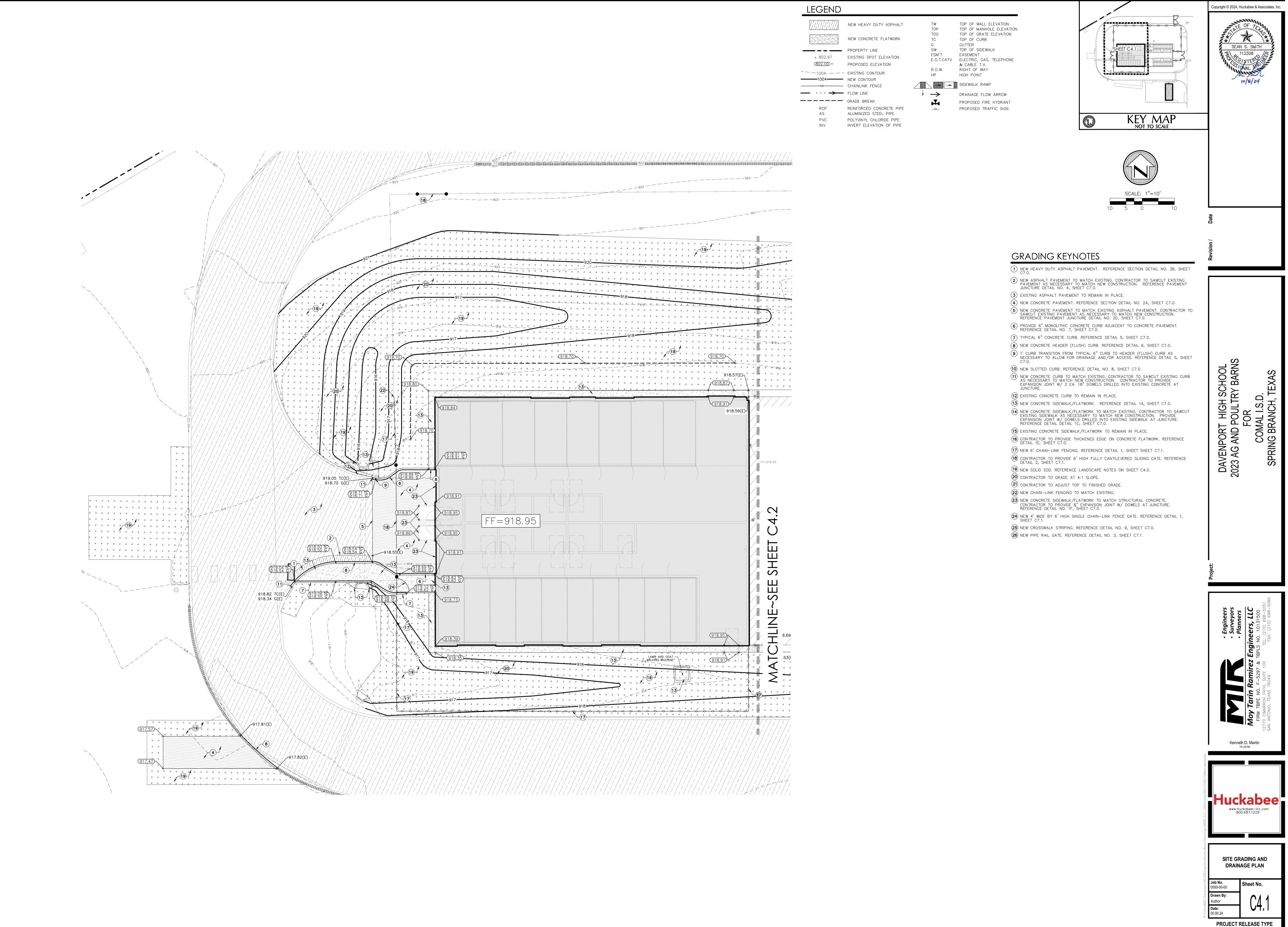
The existing batch detention ponds and natural VFS remove 80% of the total suspended solids (TSS) before any stormwater is discharged to surface streams.

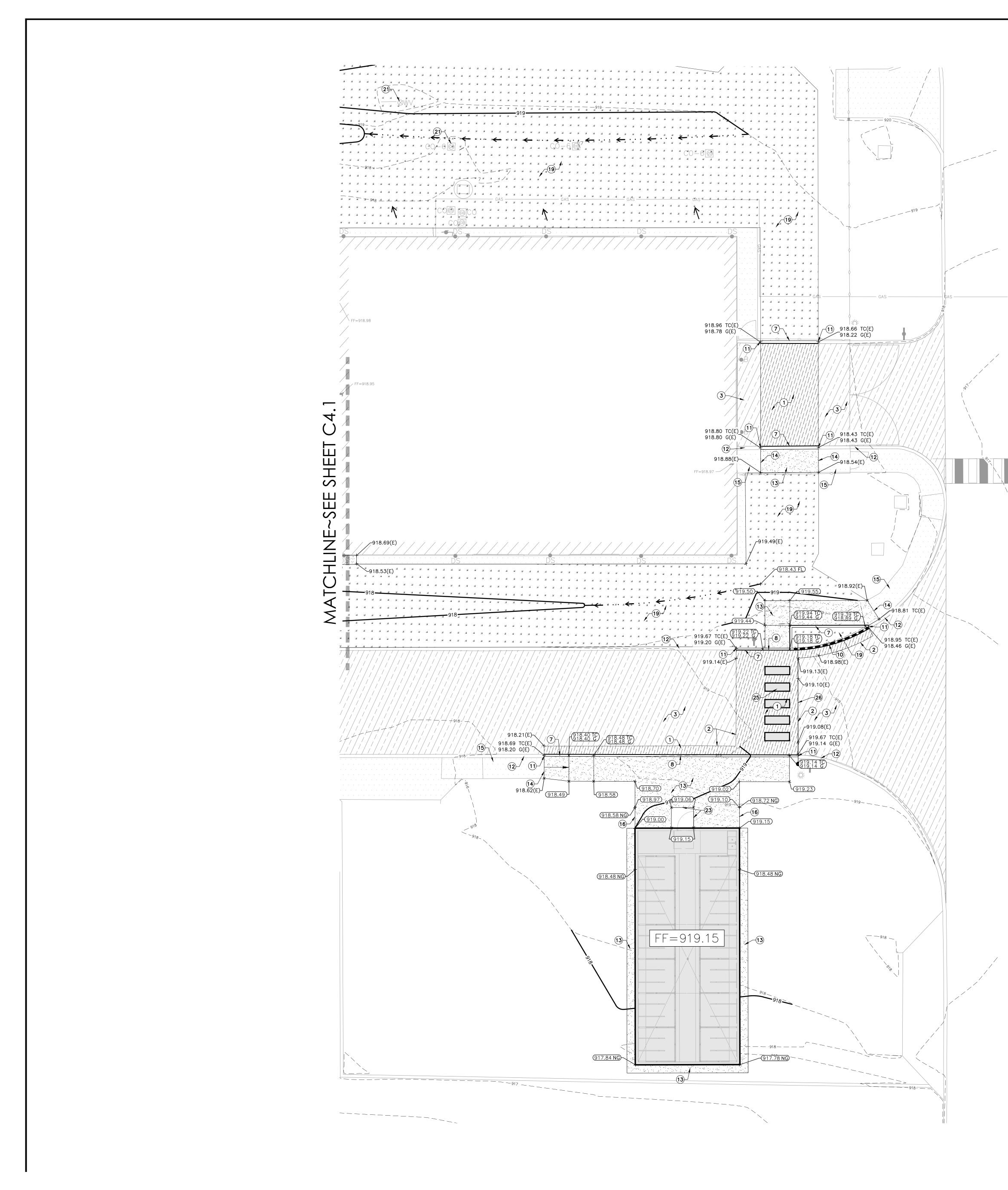
## ATTACHMENT F CONSTRUCTION PLANS



JTILITY SERVICES (GAS,	
R, ETC.) TO EXISTING	
N IS IN THE PROXIMITY	OF
ITION TO PROTECT AND	/OF

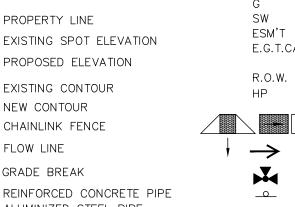






## LEGEND

NEW HEAVY DUTY ASPHALT
NEW CONCRETE FLATWORK
PROPERTY LINE
EXISTING SPOT ELEVATION
PROPOSED ELEVATION
EXISTING CONTOUR
NEW CONTOUR
CHAINLINK FENCE
FLOW LINE
GRADE BREAK
REINFORCED CONCRETE PIPE
ALUMINIZED STEEL PIPE
POLYVINYL CHLORIDE PIPE
INVERT ELEVATION OF PIPE

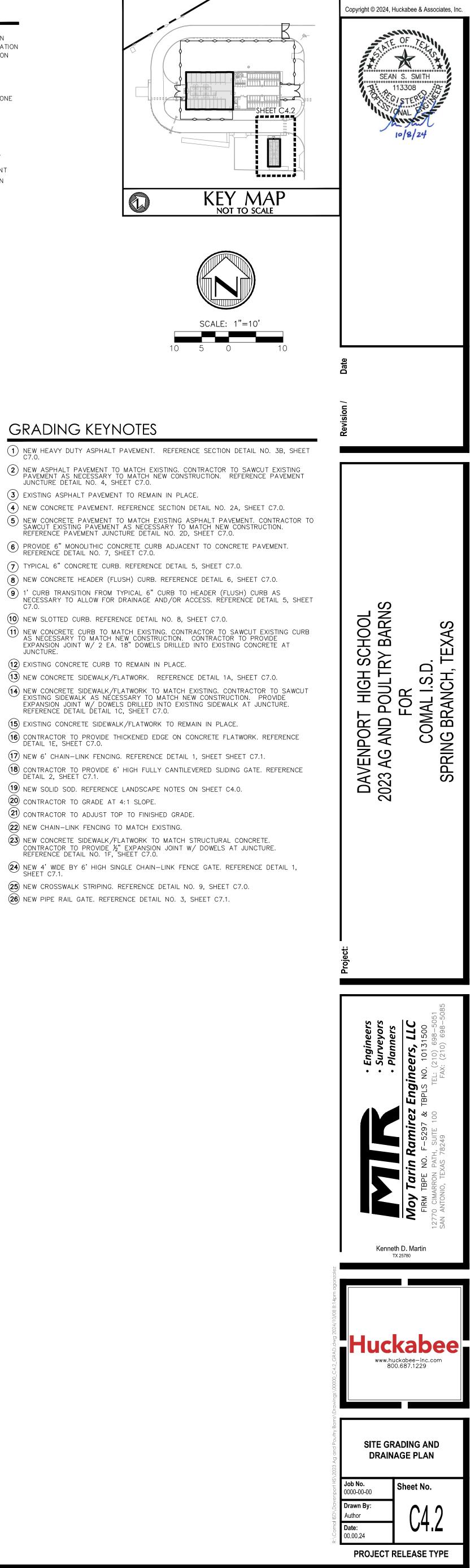


TOP

TOG

TOP OF WALL ELEVATION TOP OF MANHOLE ELEVATION TOP OF GRATE ELEVATION TOP OF CURB GUTTER TOP OF SIDEWALK EASEMENT E.G.T.CATV ELECTRIC, GAS, TELEPHONE & CABLE T.V. RIGHT OF WAY HIGH POINT SIDEWALK RAMP DRAINAGE FLOW ARROW PROPOSED FIRE HYDRANT

PROPOSED TRAFFIC SIGN

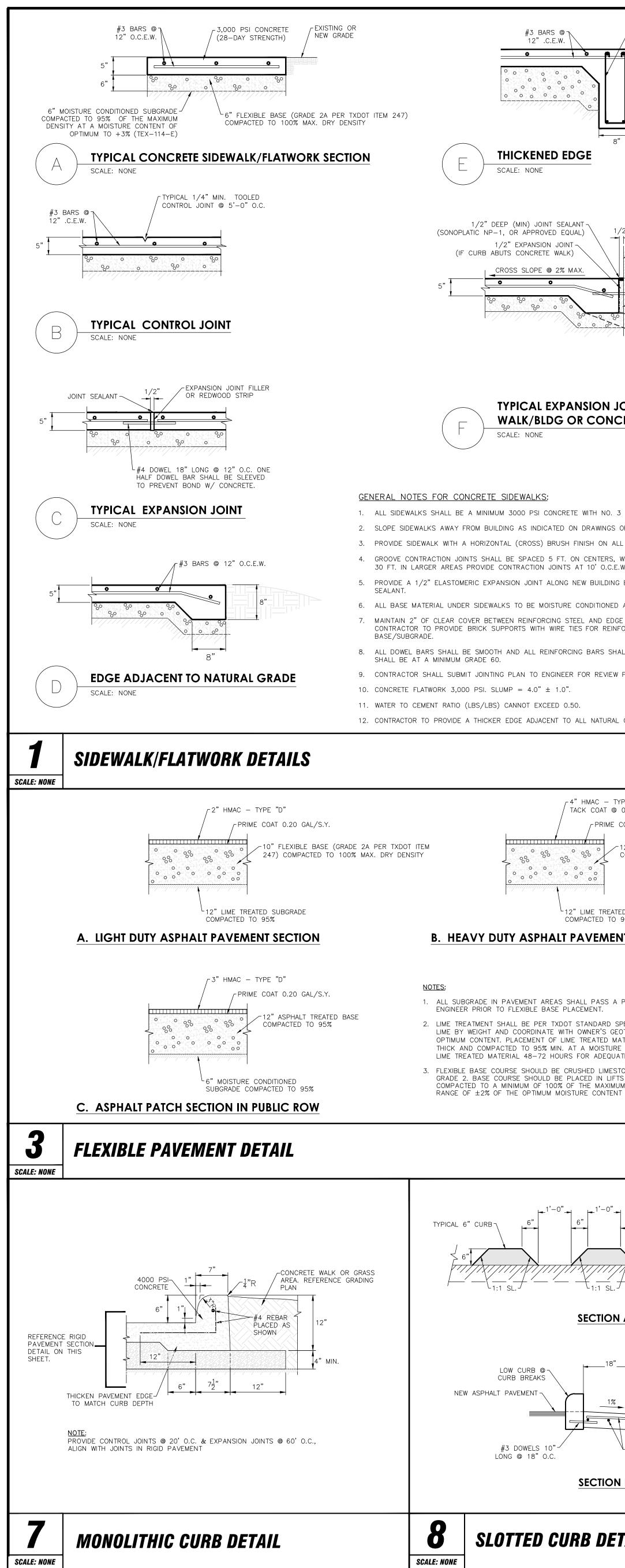




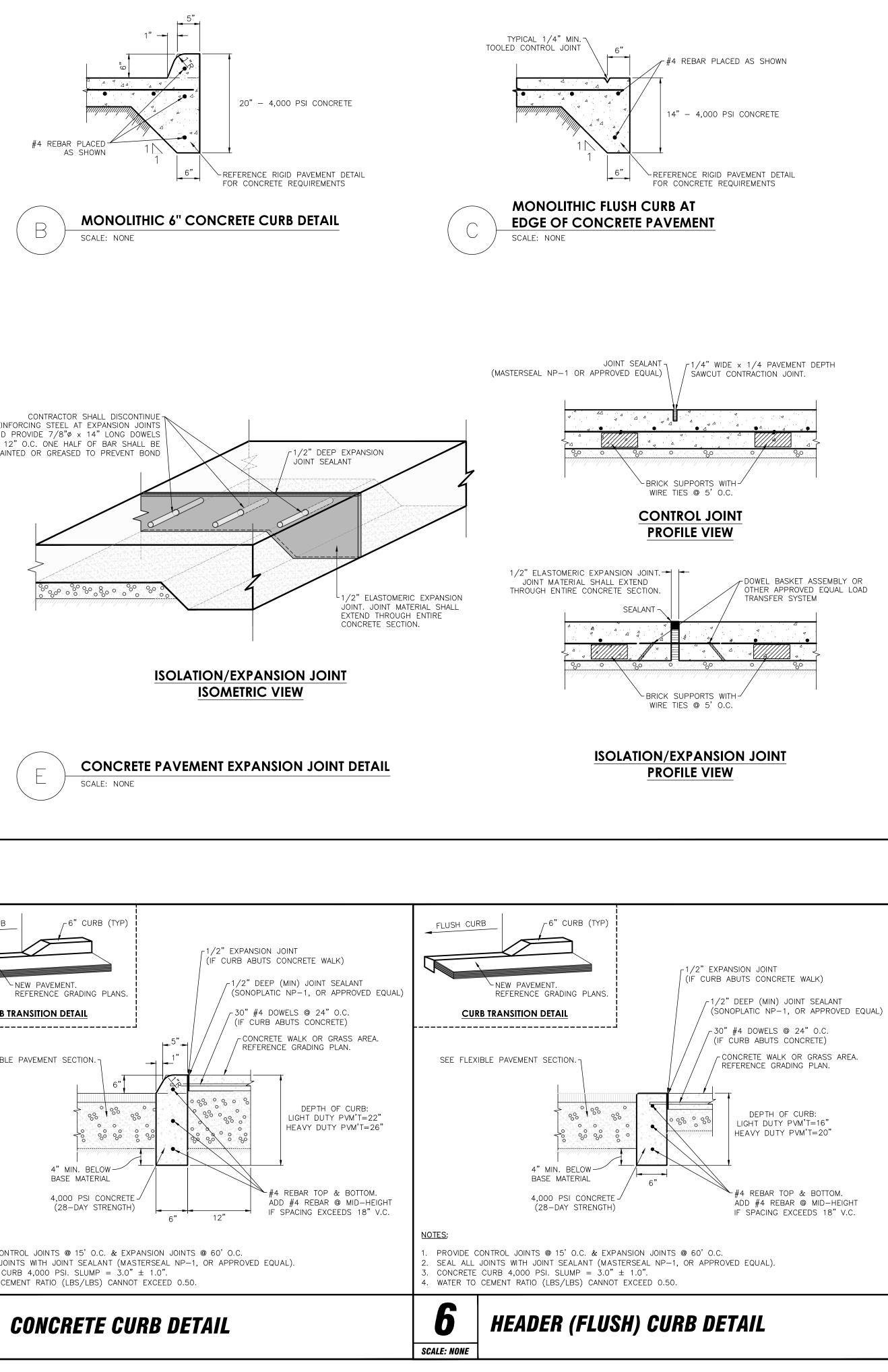
## GRADING KEYNOTES

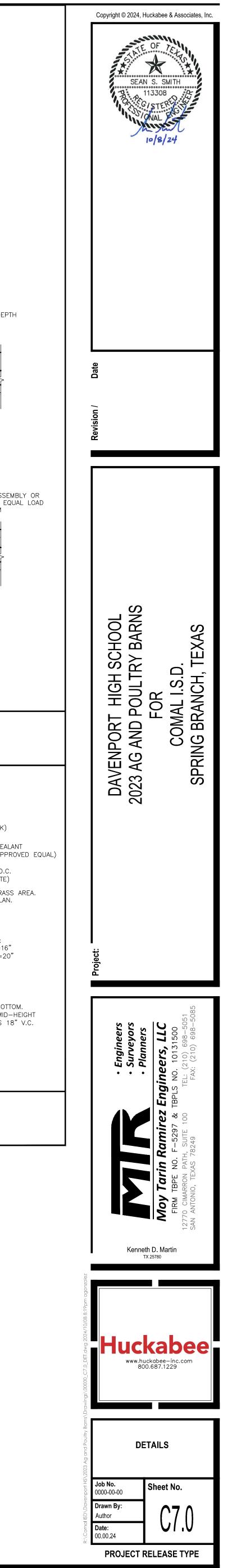
- (3) EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
- (4) NEW CONCRETE PAVEMENT. REFERENCE SECTION DETAIL NO. 2A, SHEET C7.0.
- 6 PROVIDE 6" MONOLITHIC CONCRETE CURB ADJACENT TO CONCRETE PAVEMENT. REFERENCE DETAIL NO. 7, SHEET C7.0.
- $\overline{(7)}$  TYPICAL 6" CONCRETE CURB. REFERENCE DETAIL 5, SHEET C7.0.
- (9) 1' CURB TRANSITION FROM TYPICAL 6" CURB TO HEADER (FLUSH) CURB AS NECESSARY TO ALLOW FOR DRAINAGE AND/OR ACCESS. REFERENCE DETAIL 5, SHEET
- (10) NEW SLOTTED CURB. REFERENCE DETAIL NO. 8, SHEET C7.0.
- JUNCTURE.
- (12) EXISTING CONCRETE CURB TO REMAIN IN PLACE.
- (13) NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL 1A, SHEET C7.0. 14 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING SIDEWALK AS NECESSARY TO MATCH NEW CONSTRUCTION. PROVIDE EXPANSION JOINT W/ DOWELS DRILLED INTO EXISTING SIDEWALK AT JUNCTURE. REFERENCE DETAIL DETAIL 1C, SHEET C7.0.
- (15) EXISTING CONCRETE SIDEWALK/FLATWORK TO REMAIN IN PLACE.

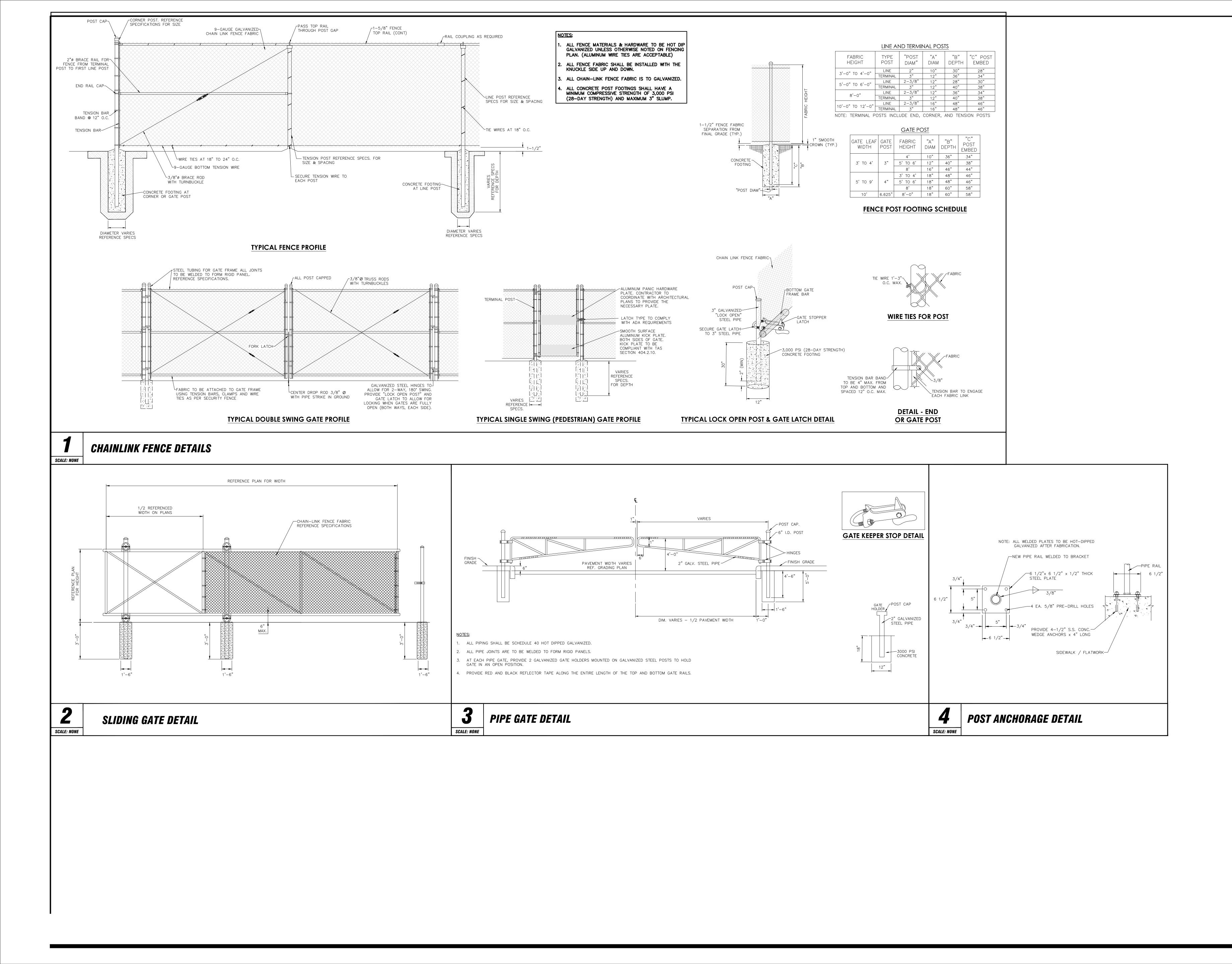
- (20) CONTRACTOR TO GRADE AT 4:1 SLOPE.
- (21) CONTRACTOR TO ADJUST TOP TO FINISHED GRADE.
- (22) NEW CHAIN-LINK FENCING TO MATCH EXISTING.
- (23) NEW CONCRETE SIDEWALK/FLATWORK TO MATCH STRUCTURAL CONCRETE. CONTRACTOR TO PROVIDE ½" EXPANSION JOINT W/ DOWELS AT JUNCTURE. REFERENCE DETAIL NO. 1F, SHEET C7.0.
- 24 NEW 4' WIDE BY 6' HIGH SINGLE CHAIN-LINK FENCE GATE. REFERENCE DETAIL 1, SHEET C7.1.
- (25) NEW CROSSWALK STRIPING. REFERENCE DETAIL NO. 9, SHEET C7.0.

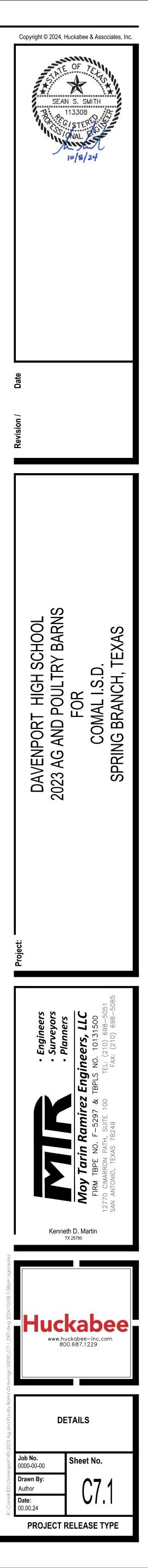


TAIL	<b>9</b> STRIPED CROSSWALK DETAIL	
#3 BARS @ 12" O.C.E.W. B		
5" 3000 PSI CONCRETE RIPRAP OVER 3" COMPACTED FLEXIBLE BASE. FINISH GRADE.	NEW CONCRETE CURB. NEW CONCRETE CURB. REFERENCE GRADING PLAN.	
FLUSH CURB TO ALLOW FOR DRAINAGE.	2' X 6' PAINT STRIPING. REFERENCE SPECIFICATIONS FOR COLOR & PAINT TYPE.	
6" TYPICAL 6" CURB	6'-0"	
	4 ASPHALT PAVEMENT JUNCTURE DETAIL SCALE: NONE	<b>5</b> Scale: NONE
PROOF ROLL OBSERVED BY THE GEOTECHNICAL PECIFICATION, ITEM 260. PROVIDE AN ESTIMATED 7% OTECHNICAL ENGINEER FOR DETERMINATION OF ATERIAL SHALL BE IN LOOSE LIFTS NOT TO EXCEED 8" E CONTENT OF OPTIMUM TO +3% (ASTM D698). ALLOW TE CURING. TONE CONFORMING TO TXDOT ITEM 247, TYPE A, S WITH A MAXIMUM THICKNESS OF 8 IN. AND M DENSITY AT A MOISTURE CONTENT WITHIN THE T AS DETERMINED BY TEX-113-E	<ul> <li>NOTES:</li> <li>1. APPLY PRIMER IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS. <ul> <li>A. APPLY PRIMER EVENLY AND SMOOTHLY ON BASE OR SUB-BASE OVER SUB-GRADE SURFACE AT UNIFORM RATE NOT TO EXCEED 0.20 GALLONS/SQUARE YARD OF SURFACE OR AS APPROVED BY CIVIL ENGINEER.</li> <li>B. USE CLEAN SAND TO BLOT EXCESS PRIMER.</li> </ul> </li> <li>2. APPLY TACK COAT IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS. <ul> <li>A. APPLY TACK COAT IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS.</li> <li>A. APPLY AT A RATE OF 0.11 GALLONS/SQUARE YARD OR SURFACE OR AS APPROVED BY CIVIL ENGINEER.</li> <li>B. APPLY TACK COAT TO CONTACT SURFACES OF EXISTING ASPHALT SURFACES WHERE THE NEW ENTRANCE DRIVES TRANSITION TO THE EXISTING STREET.</li> </ul> </li> <li>3. PLACE ASPHALT WITHIN TWENTY-FOUR (24) HOURS OF APPLYING PRIMER OR TACK COAT.</li> </ul>	NOTES: 1. PROVIDE CON 2. SEAL ALL JOI 3. CONCRETE CU 4. WATER TO CE
ed subgrade 95% NT SECTION	6" MOISTURE CONDITIONED SUBGRADE COMPACTED TO 95% SEE FLEXIBLE PAVEMENT SECTION. REFERENCE DETAIL NO 3, THIS SHEET.	SEE FLEXIBLE
COAT 0.20 GAL/S.Y. 12" FLEXIBLE BASE (GRADE 2A PER TXDOT ITEM 247) COMPACTED TO 95% MAX. DRY DENSITY	CUT 1:1 & TACK COAT NEW PAVEMENT STRUCTURE PRIME COAT REMOVE EXISTING BASE COURSE	<u>CURB T</u>
ΎΡΕ "D" (2–2" LIFTS WITH 0.10 GAL/S.Y. BETWEEN LIFTS)	2 SCALE: NONE	FLUSH CURB
GRADE AND LANDSCAPE AREAS. REFERENCE SECTION D.	WEIGHT AND COORDINATE WITH OWNER'S GEOTECHNICAL ENGINEER FOR DETERMINATION OF OPTIMUM CONTENT. PLACEMENT OF LIME TREATED MATERIAL SHALL BE IN LOOSE LIFTS NOT TO EXCEED 8" THICK AND COMPACTE 95% MIN. AT A MOISTURE CONTENT OF OPTIMUM TO +3% (TEX-121-E). ALLOW LIME TREATED MATERIAL 48- HOURS FOR ADEQUATE CURING.	D TO
ALL BE DEFORMED "REBAR" BOTH DOWELS AND REBAR PRIOR TO PLACEMENT OF CONCRETE.	<ol> <li>CONCRETE PAVEMENT 4,000 PSI. SLUMP = 4.0" ± 1.0".</li> <li>WATER TO CEMENT RATIO (LBS/LBS) CANNOT EXCEED 0.50.</li> <li>LIME TREATMENT SHALL BE PER TXDOT STANDARD SPECIFICATION, ITEM 260. PROVIDE AN ESTIMATED 7% LIM VELOUE AND COOPERINATE WITH OWNER'S CONTENT AND SPECIFICATION.</li> </ol>	
BETWEEN ALL NEW SIDEWALK. SEAL WITH NP1 JOINT AND COMPACTED. E OF CONCRETE, BASE MATERIAL AND/OR SUBGRADE. FORCING STEEL. NO REBAR SHALL EXTEND INTO	<ol> <li>DOWELS SHALL BE PLACED PARALLEL TO EACH OTHER AND PERPENDICULAR TO JOINT FACE.</li> <li>MAINTAIN 2" OF CLEAR COVER BETWEEN REINFORCING STEEL AND EDGE OF CONCRETE, BASE MATERIAL AND/O SUBGRADE. CONTRACTOR TO PROVIDE BRICK SUPPORTS WITH WIRE TIES FOR REINFORCING STEEL. NO REBAR S EXTEND INTO BASE/SUBGRADE.</li> <li>NO VEHICULAR, CONSTRUCTION, OR PEDESTRIAN TRAFFIC SHALL BE ALLOWED ON CONCRETE PAVEMENT BEFOR SEALANT HAS CURED PER MANUFACTURER SPECIFICATIONS OR 24 HOURS FOLLOWING APPLICATION OF SEALAN WHICHEVER IS LONGER.</li> </ol>	SHALL
5 BARS AT 12" INCHES ON CENTER. OR AT 2% MAX. L SURFACES. WITH 1/2" ELASTOMERIC EXPANSION JOINTS AT EVERY W. WITH 1/2" EXPANSION JOINTS AT 30' O.C.E.W.	<ul> <li><u>GENERAL NOTES FOR CONCRETE PAVEMENT:</u></li> <li>1. PROVIDE CONTROL JOINTS @ 15' O.C.E.W. &amp; EXPANSION JOINTS @ 60' O.C.E.W.</li> <li>2. SEAL ALL JOINTS WITH JOINT SEALANT (MASTERSEAL NP-1, OR APPROVED EQUAL).</li> <li>3. CONTRACTOR SHALL SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE PARA</li> </ul>	AVEMENT.
	EDGE SECTION/JUNCTURE DETAIL SCALE: NONE	
OINT @ CONCRETE CRETE PAVEMENT INTERFACE	12" 6"	@ 12 PAIN
	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	REINF AND
DRILLED INTO STRUCTURAL CONCRETE. (AT DOORWAYS & STOOPS ONLY)	FLEXIBLE NEW RIGID PAVEMENT PAVEMENT #4 BARS AS SHOWN	
$72^{"}$ FACE OF BUILDING -1/2" DOWEL 32" LONG ©12" O.C.	RIGID PAVEMENT DETAIL SCALE: NONE	
	12" FLEXIBLE BASE (GRADE 2A PER TXDOT ITEM 247) COMPACTED TO 100% MAX. DRY DENSITY	
12"	7" - 4,000 PSI CONCRETE	
STIRRUPS AT 12" O.C. PROVIDE BARS AT MID-HGT. IF SPACING EXCEEDS 18" (MAX. SPACING 18")	#4 BARS @ 12" O.C.E.W.	
4−#4 BARS TOP_& BOT. W. #3		









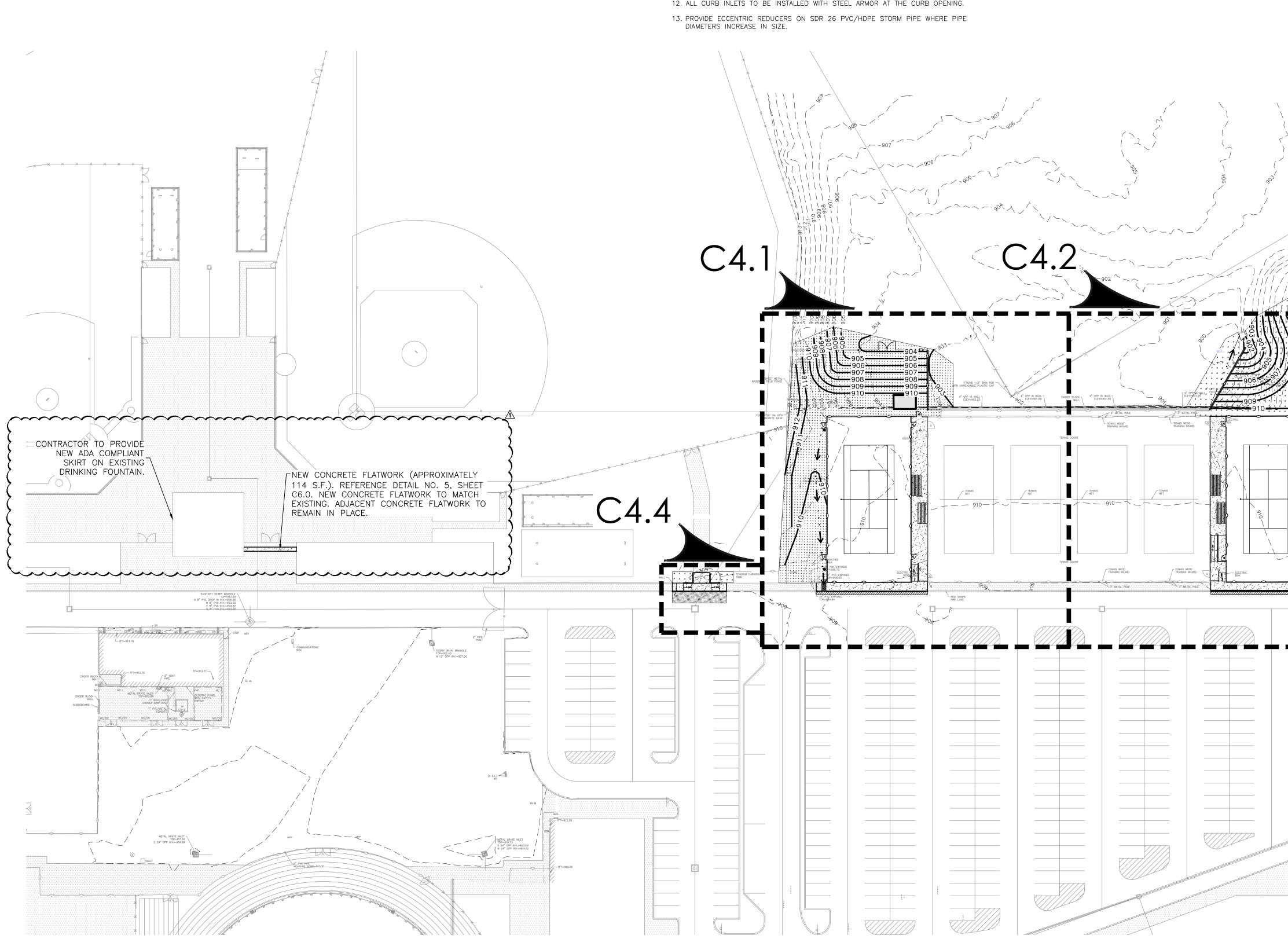
# GENERAL NOTES:

- 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK. 2. 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 WILL NOT BE HELD LIABLE FOR WASTE MATERIAL. 3. CONTRACTOR IS REQUIRED TO SET AND VERIFY ALL PROJECT ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. "MATCH EXISTING" SHALL BE
- UNDERSTOOD TO SIGNIFY THE SAME MATERIALS AS WELL AS VERTICAL AND HORIZONTAL ALIGNMENT. 4. GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSION & GRADE
- CONDITIONS (BOTH NEW AND EXISTING). HE SHALL REPORT ANY DISCREPANCIÈS TO THE PROJECT ENGÍNEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK AS HE WILL BE RESPONSIBLE FOR ALL WORK AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.
- 5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
- 6. 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 AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION.
- 7. ANY EXISTING OFF-SITE IMPROVEMENTS AND/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.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, CURBS, CONCRETE DRIVEWAYS, SIDEWALK STRUCTURES AND PAVEMENT, THAT ARE NOT INDICATED TO BE REMOVED. AN INVENTORY OF EXISTING CONDITIONS SHALL BE CONDUCTED WITH THE CONTRACTOR AND OWNER PRIOR TO DEMOLITION.

- 9. 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.
- 11. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 12. NOTIFY OWNER 72 HOURS IN ADVANCE OF UTILITY SHUTDOWN.
- 13. ADJUST ALL EXISTING VALVES & UTILITIES TO REMAIN TO FINISH GRADE. REFERENCE GRADING & UTILITY PLAN.
- 14. CONTRACTOR SHALL COORDINATE ALL DEMOLITION CONSTRUCTION ACTIVITIES WITH OTHER DISCIPLINES AS REQUIRED.
- 15. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH UTILITY PLANS.

EXISTING TREES.

- 16. CONTRACTOR IS RESPONSIBLE FOR CLEARING THE ALIGNMENT FOR ALL NEW FENCING. CLEARING TO INCLUDE ALL VEGETATION, TREE LIMBS, AND SHRUBS WITHIN 5' OF NEW FENCE ALIGNMENT ON EACH SIDE. 17. CONTRACTOR TO REFERENCE LANDSCAPE PLANS FOR THE REMOVAL OF
- 18. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL SILT FROM THE DRAINAGE SYSTEM AND FLUSH THE DRAINAGE SYSTEM UPON SUBSTANTIAL COMPLETION OF THE PROJECT.



# 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 III, 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:  $\frac{3}{4}$ "X $\frac{3}{4}$ "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 BANDS WITH TECHNO ANGLES. CONTRACTOR TO PROVIDE 5-C BANDS WITH BAR BOLT AND STRAP CONNECTION.
- 4. THICKNESS: 0.064" (16 GAUGE) E) HDPE STORM PIPE TO BE ADS DUAL WALL PIPE N-12 OR APPROVED EQUAL. 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. 6. GROUT INVERTS OF ALL JUNCTION BOXES AND GRATE INLETS TO DRAIN.
- 7. ALL JUNCTION BOXES SHALL HAVE MANHOLES FOR ACCESS WITH BOLTED MANHOLE
- 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.
- 12. ALL CURB INLETS TO BE INSTALLED WITH STEEL ARMOR AT THE CURB OPENING.

# LANDSCAPING:

PROVIDE 4" OF APPROVED TOPSOIL ALONG WITH SOL 419) ON ALL AREAS SHOWN TO RECEIVE SOLID SOD AREA). CONTRACTOR TO NOTIFY ENGINEER PRIOR TO VERIFY TOPSOIL DEPTH.

PROVIDE 4" OF APPROVED TOPSOIL ALONG WITH SOL ON ALL AREAS SHOWN TO RECEIVE SOLID SOD INSID CONTRACTOR TO NOTIFY ENGINEER PRIOR TO SOD PL TOPSOIL DEPTH.

PROVIDE 4" OF APPROVED TOPSOIL ON ALL OTHER A REGRADING / CONSTRUCTION ACTIVITIES ALONG WITH TOPSOIL TO BE NEWEARTH ENRICHED TOPSOIL, OR / GRASS SEED HYDROMULCHING WILL BE DONE UTILIZIN SEEDS, MULCH, WATER AND TACKYFIER AND WILL BE TRUCK OR TRAILER AND SPRAYED OVER PREPARED (

IF HYDROMULCH SEED IS APPLIED AFTER SEPTEMBER UNHULLED COMMON BERMUDA (CYNODON CACTYLON) S.F. AND WINTER RYE GRASS (LOLIUM PERENNE) -

CONTRACTOR SHALL PROVIDE AND MAINTAIN AN ABOV TEMPORARY IRRIGATION SYSTEM WITH TIMER UNTIL T SEED IS ESTABLISHED. IF WATER IS NOT READILY AVA RESPONSIBLE FOR TRUCKING WATER TO ESTABLISH V WILL BE RESPONSIBLE FOR MAINTAINING THE REVEGE PROJECT ENGINEER CONFIRMS THETEMPORARY IRRIGA CONTRACTOR TO MOW AND EDGE NEWLY PLANTED GF GROWTH REACHES 2 ½". MAINTAIN AT THIS HEIGHT CONTRACTOR TO VERIFY WATER SOURCES PRIOR TO WATER IS NOT READILY AVAILABLE, CONTRACTOR TO BE BROUGHT TO THE SITE AT THEIR EXPENSE. IF WA CONTRACTOR TO PROVIDE BACKFLOW PREVENTOR ON IRRIGATION.

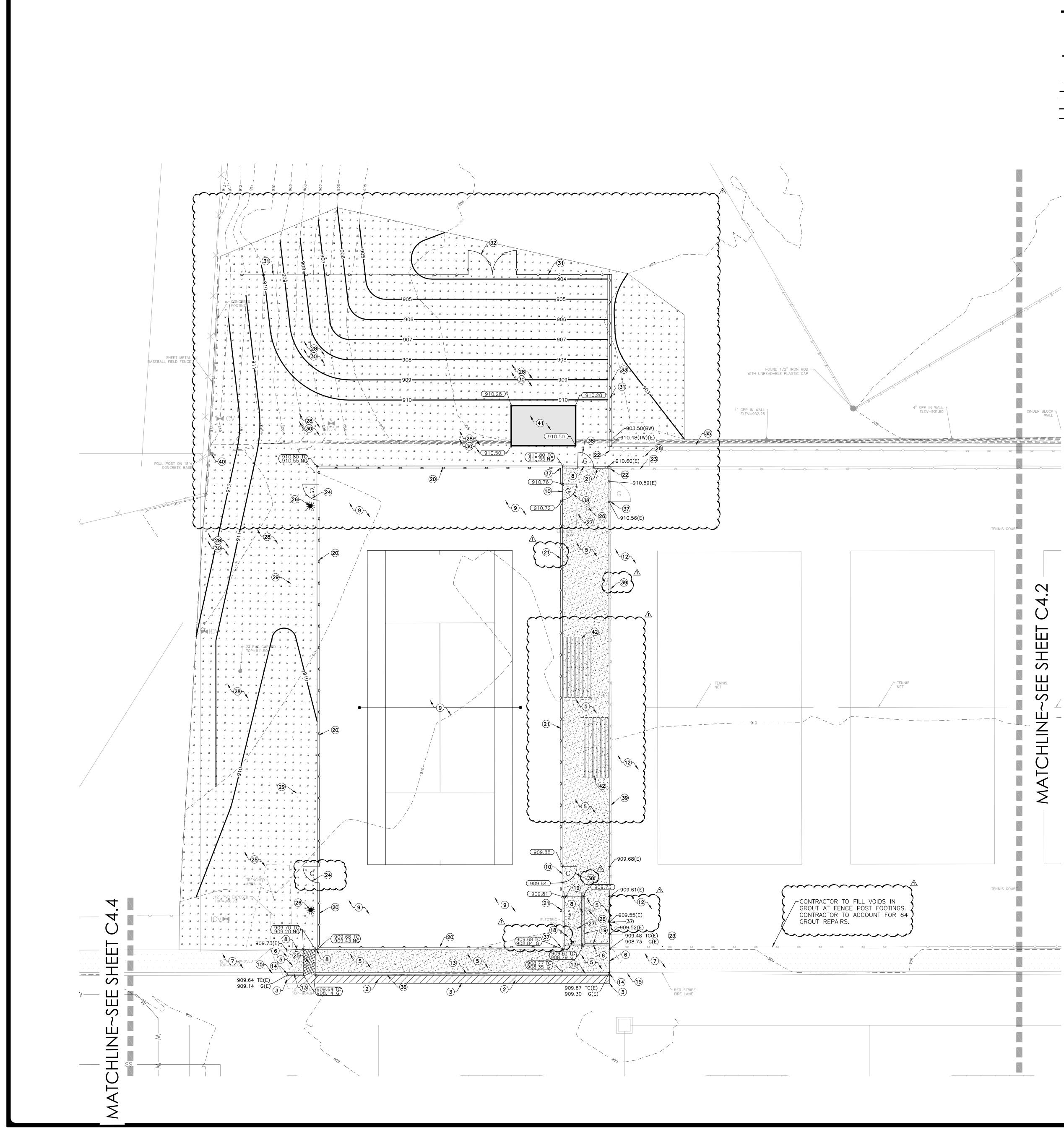
\*\*SUBSTANTIAL COMPLETION WILL NOT BE ACCEPTED HYDROMULCH SEED HAS BEEN ESTABLISHED\*\*

## VINYL COATED CHAIN-L

1. ALL VINYL COATED FENCING TO BE CLASS 2B THE BONDED. COLOR TO BE BLACK. 2. ALL VINYL COATED FENCING CORE WIRE TO BE PE THE HEIGHT OF FENCE SPECIFIED.

	LEGEND				
SOLID SOD (BERMUDA TIF OD (OUTSIDE OF PLAYFIELD TO SOD PLACEMENT TO SOLID SOD (BERMUDA TIFTUF) SIDE PLAYFIELD AREA. PLACEMENT TO VERIFY R AREAS DISTURBED BY TH GRASS HYDROMULCH. R APPROVED EQUAL. IZING A SLURRY BLEND OF BE TRANSPORTED IN A TANK, D GROUND. BER 15, SEED MIX SHALL BE IN) – 2 POINDS PER 1000 – 4 POUNDS PER 1000 – 4 POUNDS PER 1000 S.F. SOVE GROUND PVC THE HYDROMULCH GRASS AVAILABLE, CONTRACTOR IS I VEGETATION. CONTRACTOR EGETATED AREAS UNTIL THE IGATION CAN BE REMOVED. GRASS WEEKLY WHEN WEEKLY. TO SUBMITTING BIDS. IF O ACCOUNT FOR WATER TO WATER IS AVAILABLE, ON PROPOSED TEMPORARY ED UNTIL SOLID SOD AND INTIL SOLID SOD AND DUNTIL SOLID SOD AND PER SPECIFICATION FOR	+ 802.97 (802.00)+ - 1004 1004 RCP AS PVC INV	NEW LIGHT DUTY ASPHALT NEW CONCRETE FLATWORK PROPERTY LINE EXISTING SPOT ELEVATION PROPOSED ELEVATION EXISTING CONTOUR NEW CONTOUR CHAINLINK FENCE FLOW LINE GRADE BREAK REINFORCED CONCRETE PIPE ALUMINIZED STEEL PIPE POLYVINYL CHLORIDE PIPE INVERT ELEVATION OF PIPE	TW TOP TOG TC G SW ESM'T E.G.T.CA R.O.W. HP TOG TC G SW ESM'T E.G.T.CA	TOP OF WALL ELEVATION TOP OF GRATE ELEVATION TOP OF GRATE ELEVATION TOP OF CURB GUTTER TOP OF SIDEWALK EASEMENT TV ELECTRIC, GAS, TELEPHONE & CABLE T.V. RIGHT OF WAY HIGH POINT SIDEWALK RAMP DRAINAGE FLOW ARROW PROPOSED FIRE HYDRANT PROPOSED TRAFFIC SIGN	<image/>





# LEGEND

(802.00)+

RCP

PVC

INV

AS

NEW CONCRETE FLATWORK

NEW LIGHT DUTY ASPHALT

----- PROPERTY LINE + 802.97 EXISTING SPOT ELEVATION

PROPOSED ELEVATION

- ----------------- EXISTING CONTOUR
- ← CHAINLINK FENCE
- ← · · · → FLOW LINE ----- GRADE BREAK

REINFORCED CONCRETE PIPE ALUMINIZED STEEL PIPE POLYVINYL CHLORIDE PIPE INVERT ELEVATION OF PIPE

TOP TOG ESM'T R.O.W. ΗP

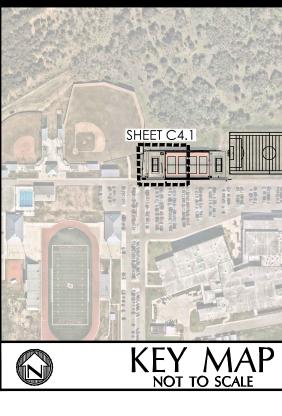
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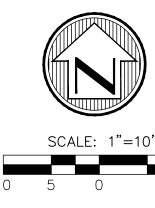
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TOP OF GRATE ELEVATION TOP OF CURB GUTTER TOP OF SIDEWALK EASEMENT E.G.T.CATV ELECTRIC, GAS, TELEPHONE & CABLE T.V. RIGHT OF WAY HIGH POINT

TOP OF WALL ELEVATION TOP OF MANHOLE ELEVATION

SIDEWALK RAMP DRAINAGE FLOW ARROW PROPOSED FIRE HYDRANT PROPOSED TRAFFIC SIGN





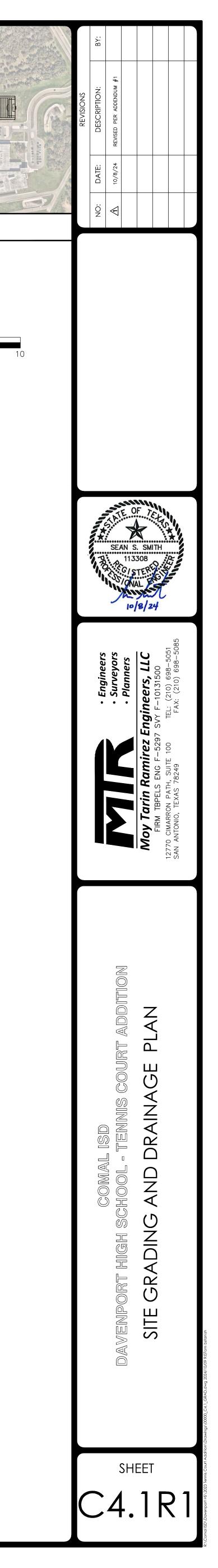
## GRADING KEYNOTES

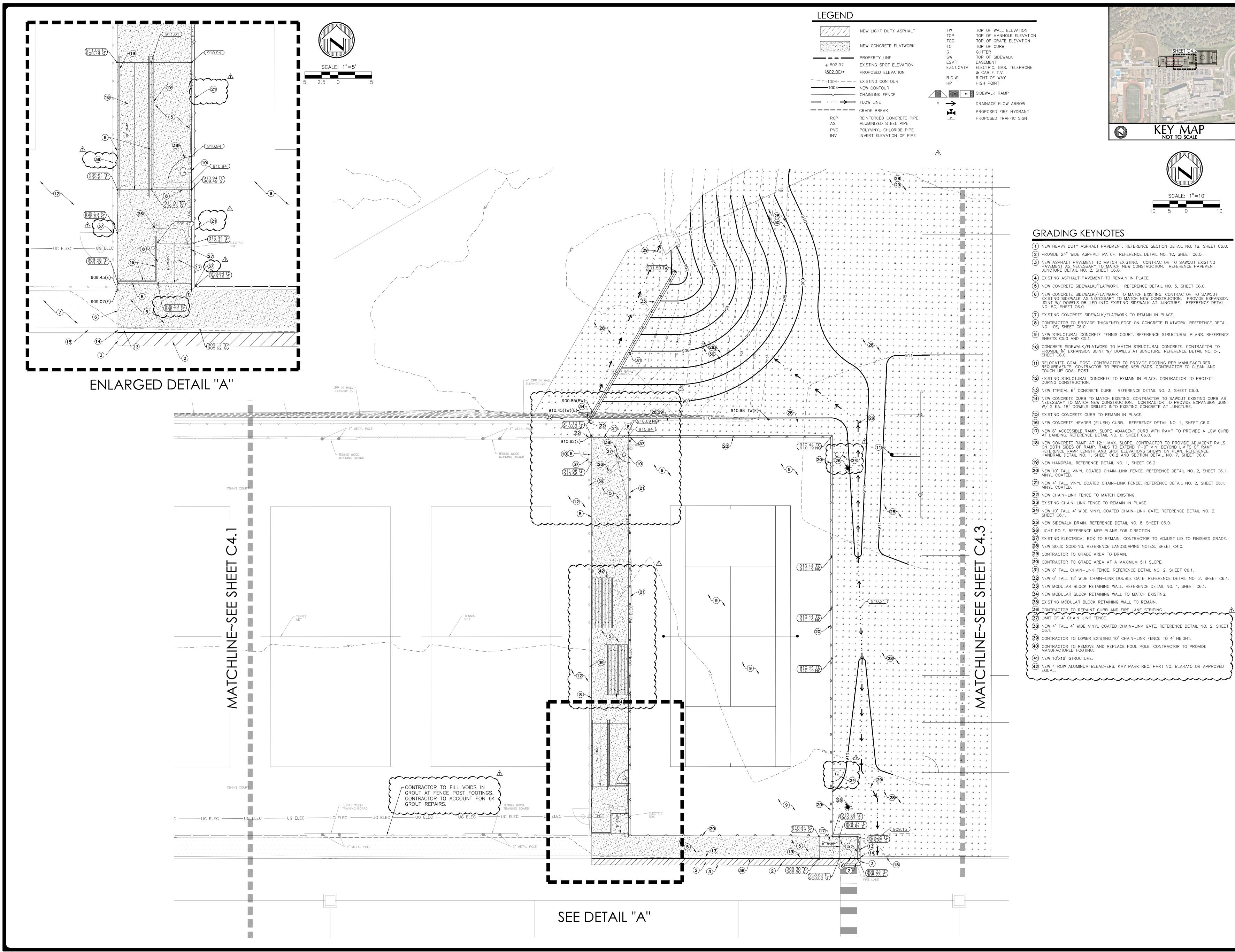
- (1) NEW HEAVY DUTY ASPHALT PAVEMENT. REFERENCE SECTION DETAIL NO. 1B, SHEET C6.0.
- (2) PROVIDE 24" WIDE ASPHALT PATCH. REFERENCE DETAIL NO. 1C, SHEET C6.0.
- 3 NEW ASPHALT PAVEMENT TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING PAVEMENT AS NECESSARY TO MATCH NEW CONSTRUCTION. REFERENCE PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C6.0.
- (4) EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
- (5) NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 5, SHEET C6.0. 6 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING SIDEWALK AS NECESSARY TO MATCH NEW CONSTRUCTION. PROVIDE EXPANSION JOINT W/ DOWELS DRILLED INTO EXISTING SIDEWALK AT JUNCTURE. REFERENCE DETAIL NO. 5C, SHEET C6.0.
- (7) EXISTING CONCRETE SIDEWALK/FLATWORK TO REMAIN IN PLACE.
- (8) CONTRACTOR TO PROVIDE THICKENED EDGE ON CONCRETE FLATWORK. REFERENCE DETAIL NO. 10E, SHEET C6.0.
- (9) NEW STRUCTURAL CONCRETE TENNIS COURT. REFERENCE STRUCTURAL PLANS. REFERENCE SHEETS C5.0 AND C5.1.
- (10) CONCRETE SIDEWALK/FLATWORK TO MATCH STRUCTURAL CONCRETE. CONTRACTOR TO PROVIDE ½" EXPANSION JOINT W/ DOWELS AT JUNCTURE. REFERENCE DETAIL NO. 5F,
- SHEET C6.0.
- (12) EXISTING STRUCTURAL CONCRETE TO REMAIN IN PLACE. CONTRACTOR TO PROTECT
- DURING CONSTRUCTION.
- (13) NEW TYPICAL 6" CONCRETE CURB. REFERENCE DETAIL NO. 3, SHEET C6.0.
- 14 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING CURB AS NECESSARY TO MATCH NEW CONSTRUCTION. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 EA. 18" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
- (15) EXISTING CONCRETE CURB TO REMAIN IN PLACE.
- (16) NEW CONCRETE HEADER (FLUSH) CURB. REFERENCE DETAIL NO. 4, SHEET C6.0.
- 17) NEW 6' ACCESSIBLE RAMP. SLOPE ADJACENT CURB WITH RAMP TO PROVIDE A LOW CURB AT LANDING. REFERENCE DETAIL NO. 6, SHEET C6.0.
- 18 NEW CONCRETE RAMP AT 12:1 MAX. SLOPE. CONTRACTOR TO PROVIDE ADJACENT RAILS ON BOTH SIDES OF RAMP. RAILS TO EXTEND 1'-0" MIN. BEYOND LIMITS OF RAMP. REFERENCE RAMP LENGTH AND SPOT ELEVATIONS SHOWN ON PLAN. REFERENCE HANDRAIL DETAIL NO. 1, SHEET C6.2 AND SECTION DETAIL NO. 7, SHEET C6.0.
- (19) NEW HANDRAIL. REFERENCE DETAIL NO. 1, SHEET C6.2.
- NEW 10' TALL VINYL COATED CHAIN-LINK FENCE. REFERENCE DETAIL NO. 2, SHEET C6.1. VINYL COATED.
- (21) NEW 4' TALL VINYL COATED CHAIN-LINK FENCE. REFERENCE DETAIL NO. 2, SHEET C6.1. VINYL COATED.
- (22) NEW CHAIN-LINK FENCE TO MATCH EXISTING.
- (23) EXISTING CHAIN-LINK FENCE TO REMAIN IN PLACE.
- (24) New 10' Tall 4' wide vinyl coated chain-link gate. Reference detail no. 2,
- SHEET C6.1. (25) NEW SIDEWALK DRAIN. REFERENCE DETAIL NO. 8, SHEET C6.0.
- (26) LIGHT POLE. REFERENCE MEP PLANS FOR DIRECTION.
- (27) EXISTING ELECTRICAL BOX TO REMAIN. CONTRACTOR TO ADJUST LID TO FINISHED GRADE.
- (28) NEW SOLID SODDING. REFERENCE LANDSCAPING NOTES, SHEET C4.0. (29) CONTRACTOR TO GRADE AREA TO DRAIN.
- (30) CONTRACTOR TO GRADE AREA AT A MAXIMUM 5:1 SLOPE.
- (31) NEW 6' TALL CHAIN-LINK FENCE. REFERENCE DETAIL NO. 2, SHEET C6.1.
- (32) NEW 6' TALL 12' WIDE CHAIN-LINK DOUBLE GATE. REFERENCE DETAIL NO. 2, SHEET C6.1.
- (33) NEW MODULAR BLOCK RETAINING WALL. REFERENCE DETAIL NO. 1, SHEET C6.1.
- (34) NEW MODULAR BLOCK RETAINING WALL TO MATCH EXISTING.
- (35) EXISTING MODULAR BLOCK RETAINING WALL TO REMAIN. (36) CONTRACTOR TO REPAINT CURB AND FIRE LANE STRIPING.
- ' (37) LIMIT OF 4' CHAIN-LINK FENCE.
- (38) NeW 4' Tall 4' wide vinyl coated chain-link gate. Reference detail no. 2, sheet
- (39) CONTRACTOR TO LOWER EXISTING 10' CHAIN-LINK FENCE TO 4' HEIGHT.
- (40) CONTRACTOR TO REMOVE AND REPLACE FOUL POLE. CONTRACTOR TO PROVIDE
- MANUFACTURED FOOTING.
- (**41**) NEW 10'X16' STRUCTURE. (42) NEW 4 ROW ALUMINUM BLEACHERS. KAY PARK REC. PART NO. BLA4A15 OR APPROVED

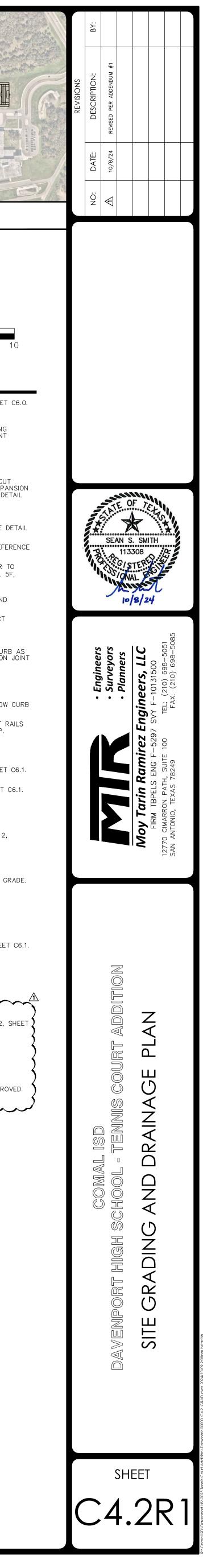
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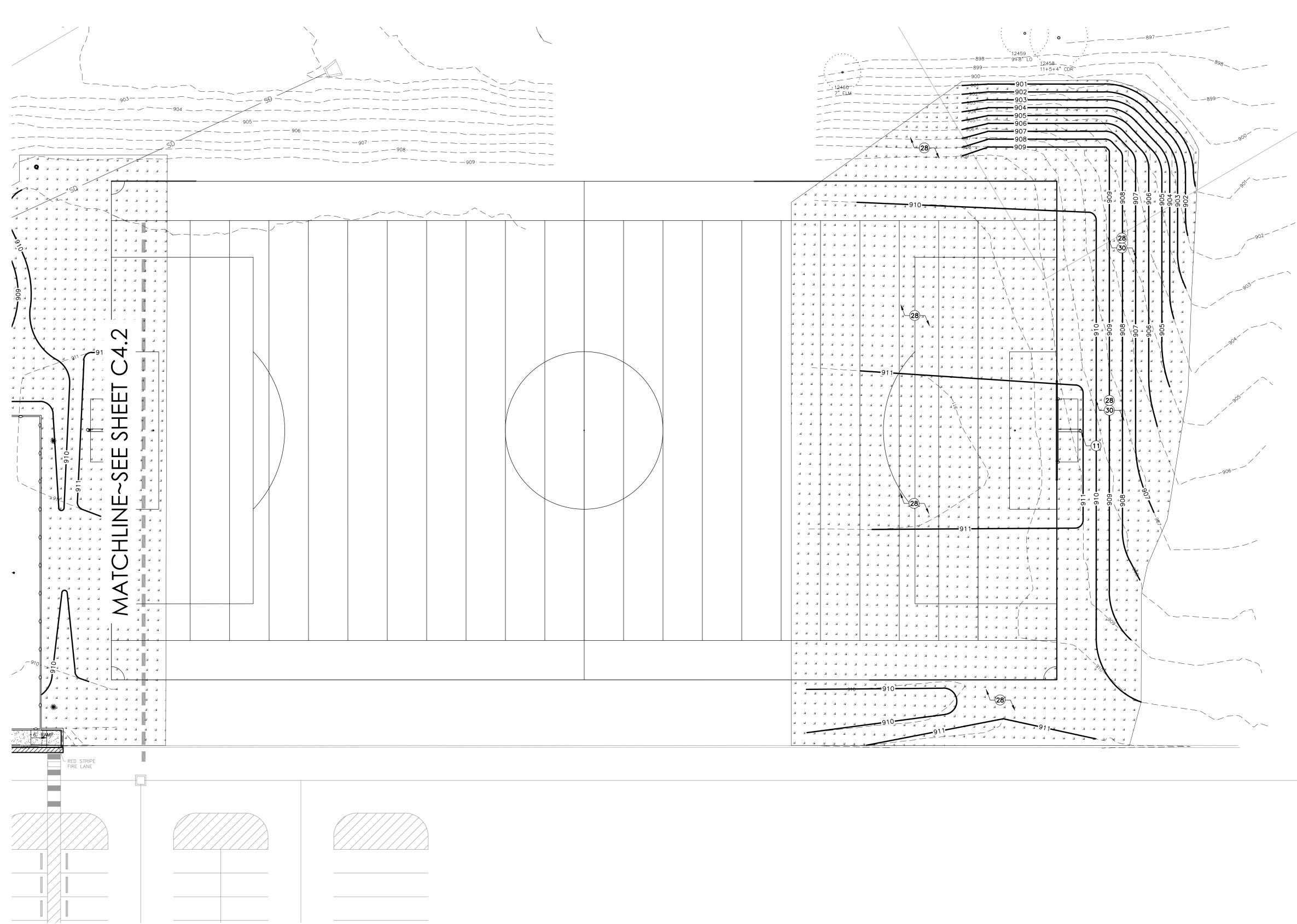
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CINDER BLOCK









## LEGEND

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RCP

PVC

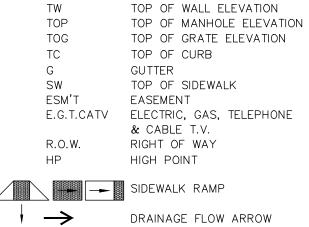
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NEW LIGHT DUTY ASPHALT NEW CONCRETE FLATWORK

----- PROPERTY LINE + 802.97 EXISTING SPOT ELEVATION (802.00) + PROPOSED ELEVATION ------------ EXISTING CONTOUR ← CHAINLINK FENCE

----- GRADE BREAK REINFORCED CONCRETE PIPE ALUMINIZED STEEL PIPE POLYVINYL CHLORIDE PIPE INVERT ELEVATION OF PIPE

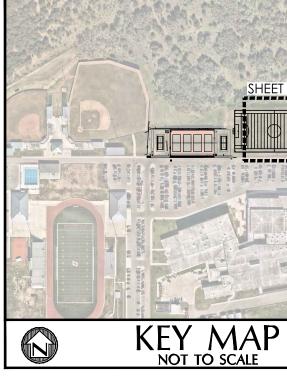


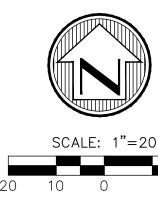
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TOP OF GRATE ELEVATION TOP OF CURB GUTTER TOP OF SIDEWALK EASEMENT E.G.T.CATV ELECTRIC, GAS, TELEPHONE & CABLE T.V. RIGHT OF WAY HIGH POINT

PROPOSED FIRE HYDRANT

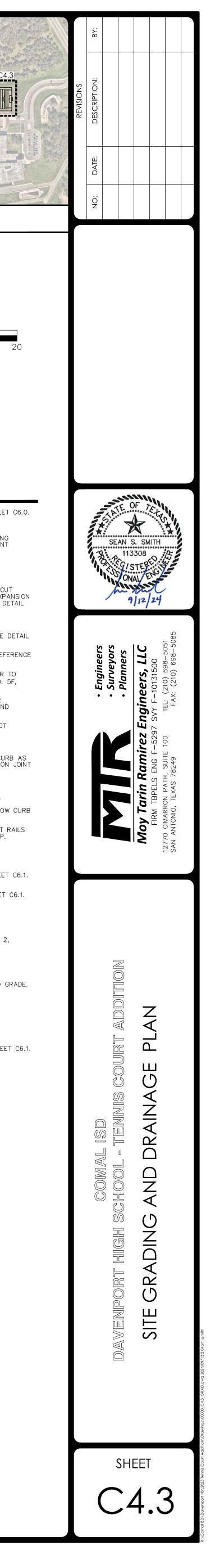
PROPOSED TRAFFIC SIGN

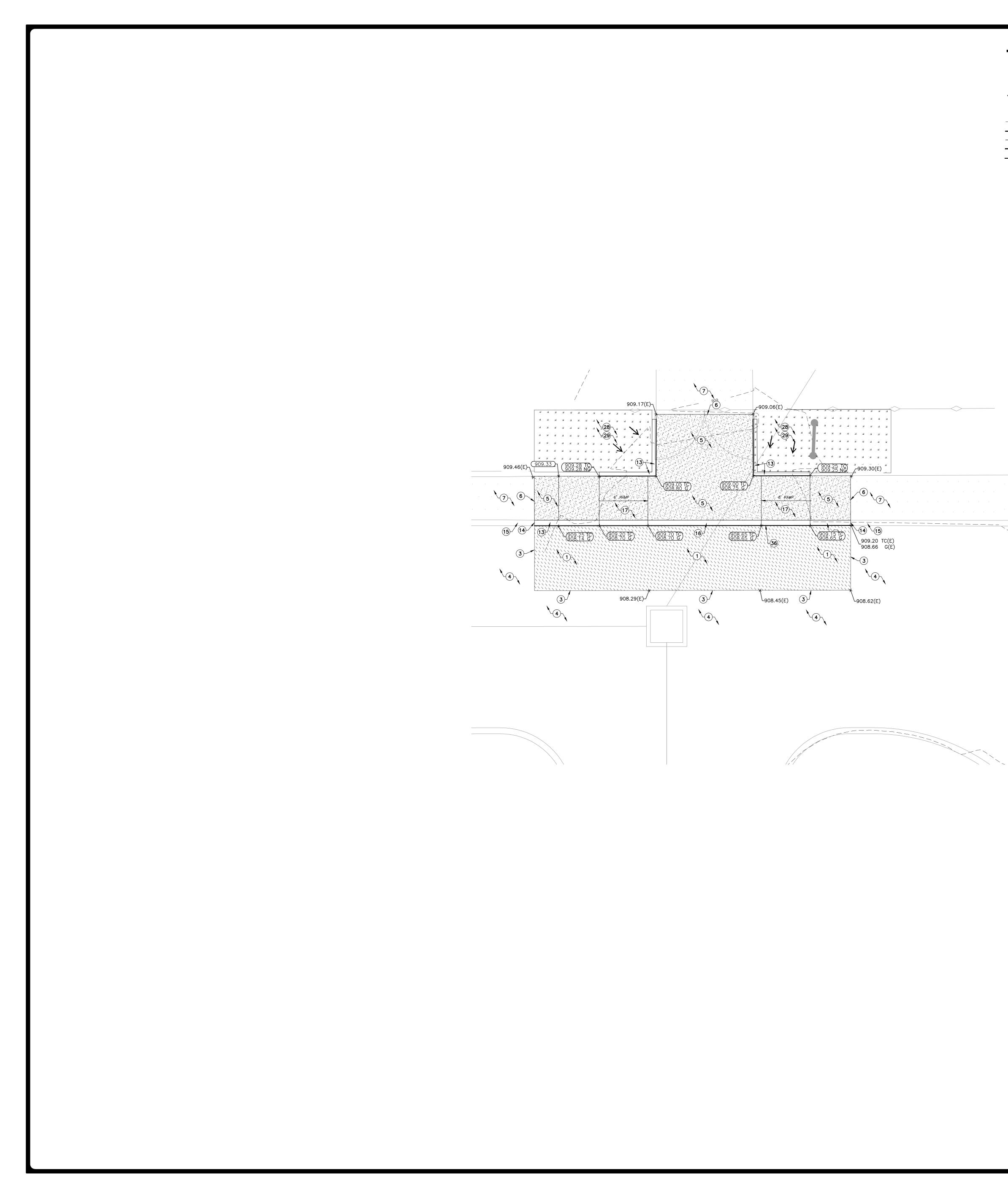


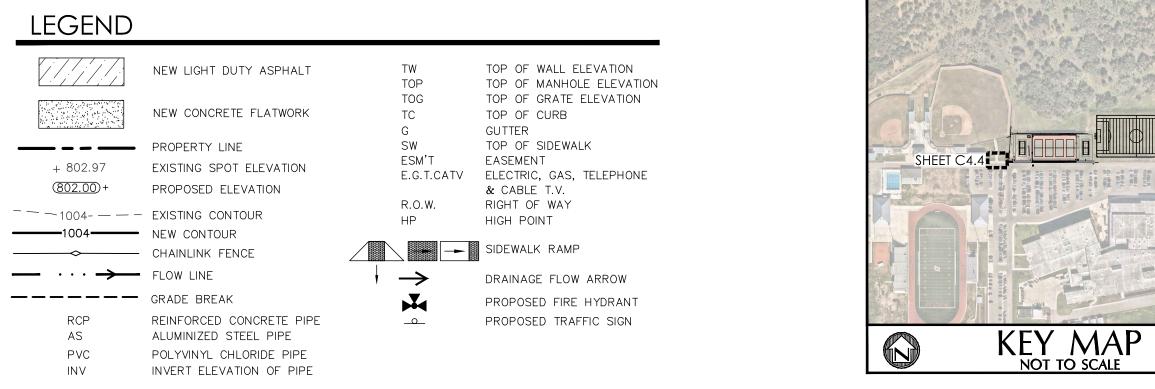


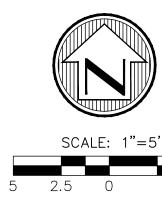
## GRADING KEYNOTES

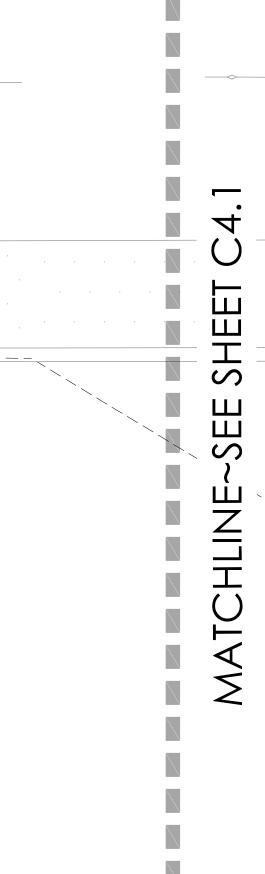
- (1) NEW HEAVY DUTY ASPHALT PAVEMENT. REFERENCE SECTION DETAIL NO. 1B, SHEET C6.0.
- **2**) PROVIDE 24" WIDE ASPHALT PATCH. REFERENCE DETAIL NO. 1C, SHEET C6.0. NEW ASPHALT PAVEMENT TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING PAVEMENT AS NECESSARY TO MATCH NEW CONSTRUCTION. REFERENCE PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C6.0.
- (4) EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
- (5) NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 5, SHEET C6.0.
- (6) NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING SIDEWALK AS NECESSARY TO MATCH NEW CONSTRUCTION. PROVIDE EXPANSION JOINT W/ DOWELS DRILLED INTO EXISTING SIDEWALK AT JUNCTURE. REFERENCE DETAIL NO. 5C, SHEET C6.O.
- (7) EXISTING CONCRETE SIDEWALK/FLATWORK TO REMAIN IN PLACE. (8) CONTRACTOR TO PROVIDE THICKENED EDGE ON CONCRETE FLATWORK. REFERENCE DETAIL
- NO. 10E, SHEET C6.0.
- (9) NEW STRUCTURAL CONCRETE TENNIS COURT. REFERENCE STRUCTURAL PLANS. REFERENCE SHEETS C5.0 AND C5.1.
- 10 CONCRETE SIDEWALK/FLATWORK TO MATCH STRUCTURAL CONCRETE. CONTRACTOR TO PROVIDE ½" EXPANSION JOINT W/ DOWELS AT JUNCTURE. REFERENCE DETAIL NO. 5F, SHEET C6.0.
- 11 RELOCATED GOAL POST. CONTRACTOR TO PROVIDE FOOTING PER MANUFACTURER REQUIREMENTS. CONTRACTOR TO PROVIDE NEW PADS. CONTRACTOR TO CLEAN AND TOUCH UP GOAL POST.
- (12) EXISTING STRUCTURAL CONCRETE TO REMAIN IN PLACE. CONTRACTOR TO PROTECT DURING CONSTRUCTION.
- (13) NEW TYPICAL 6" CONCRETE CURB. REFERENCE DETAIL NO. 3, SHEET C6.0. 14 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING CURB AS NECESSARY TO MATCH NEW CONSTRUCTION. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 EA. 18" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
- (15) EXISTING CONCRETE CURB TO REMAIN IN PLACE.
- (16) NEW CONCRETE HEADER (FLUSH) CURB. REFERENCE DETAIL NO. 4, SHEET C6.0.
- (17) NEW 6' ACCESSIBLE RAMP. SLOPE ADJACENT CURB WITH RAMP TO PROVIDE A LOW CURB AT LANDING. REFERENCE DETAIL NO. 6, SHEET C6.0.
- (18) NEW CONCRETE RAMP AT 12:1 MAX. SLOPE. CONTRACTOR TO PROVIDE ADJACENT RAILS ON BOTH SIDES OF RAMP. RAILS TO EXTEND 1'-0" MIN. BEYOND LIMITS OF RAMP. REFERENCE RAMP LENGTH AND SPOT ELEVATIONS SHOWN ON PLAN. REFERENCE HANDRAIL DETAIL NO. 1, SHEET C6.2 AND SECTION DETAIL NO. 7, SHEET C6.0.
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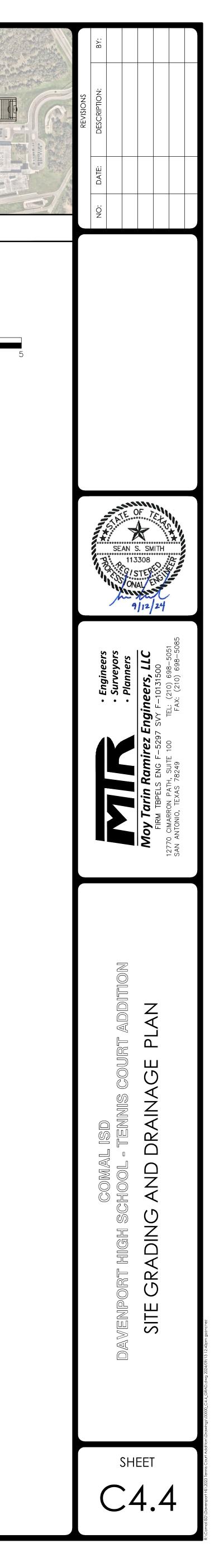


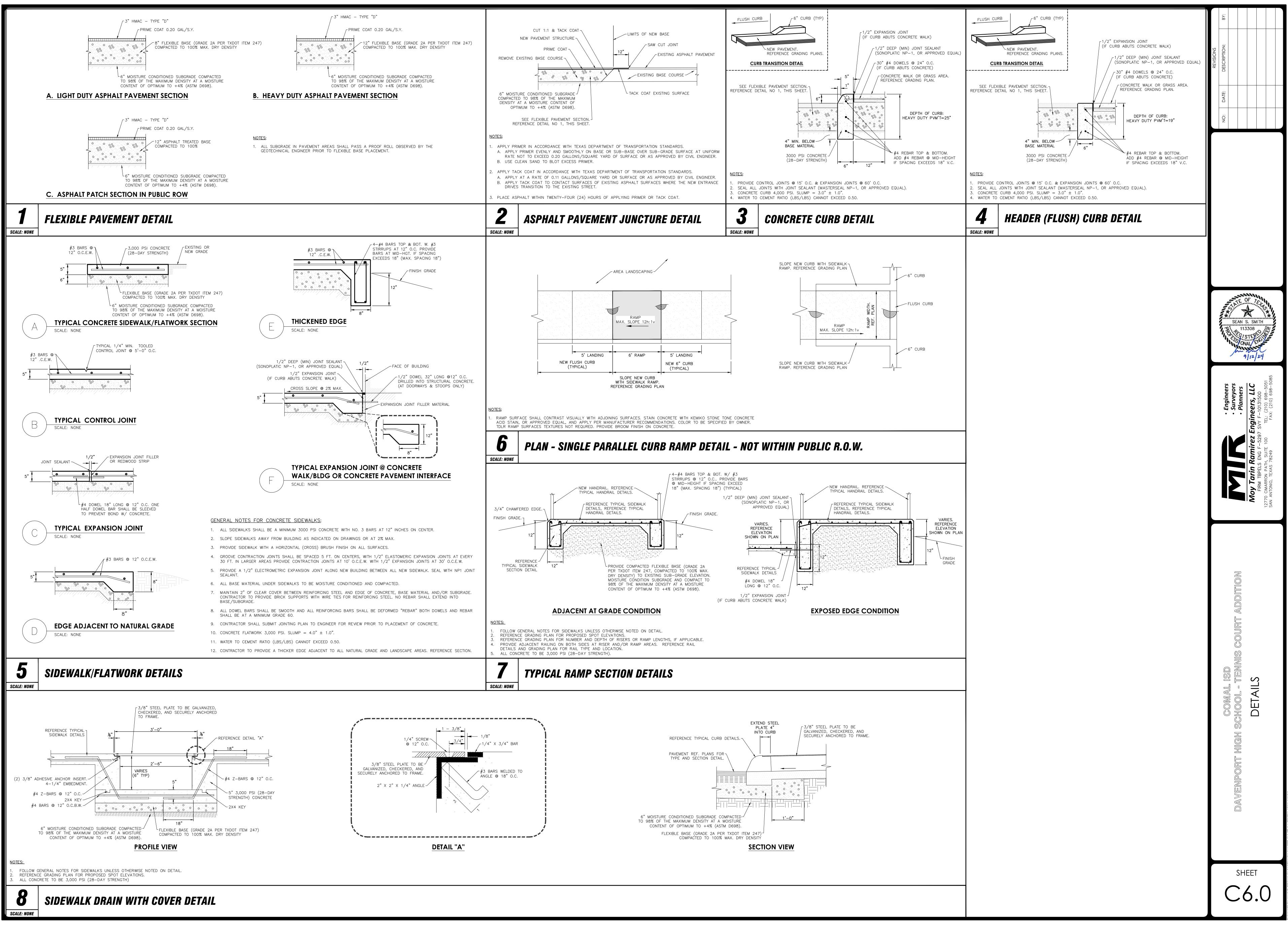


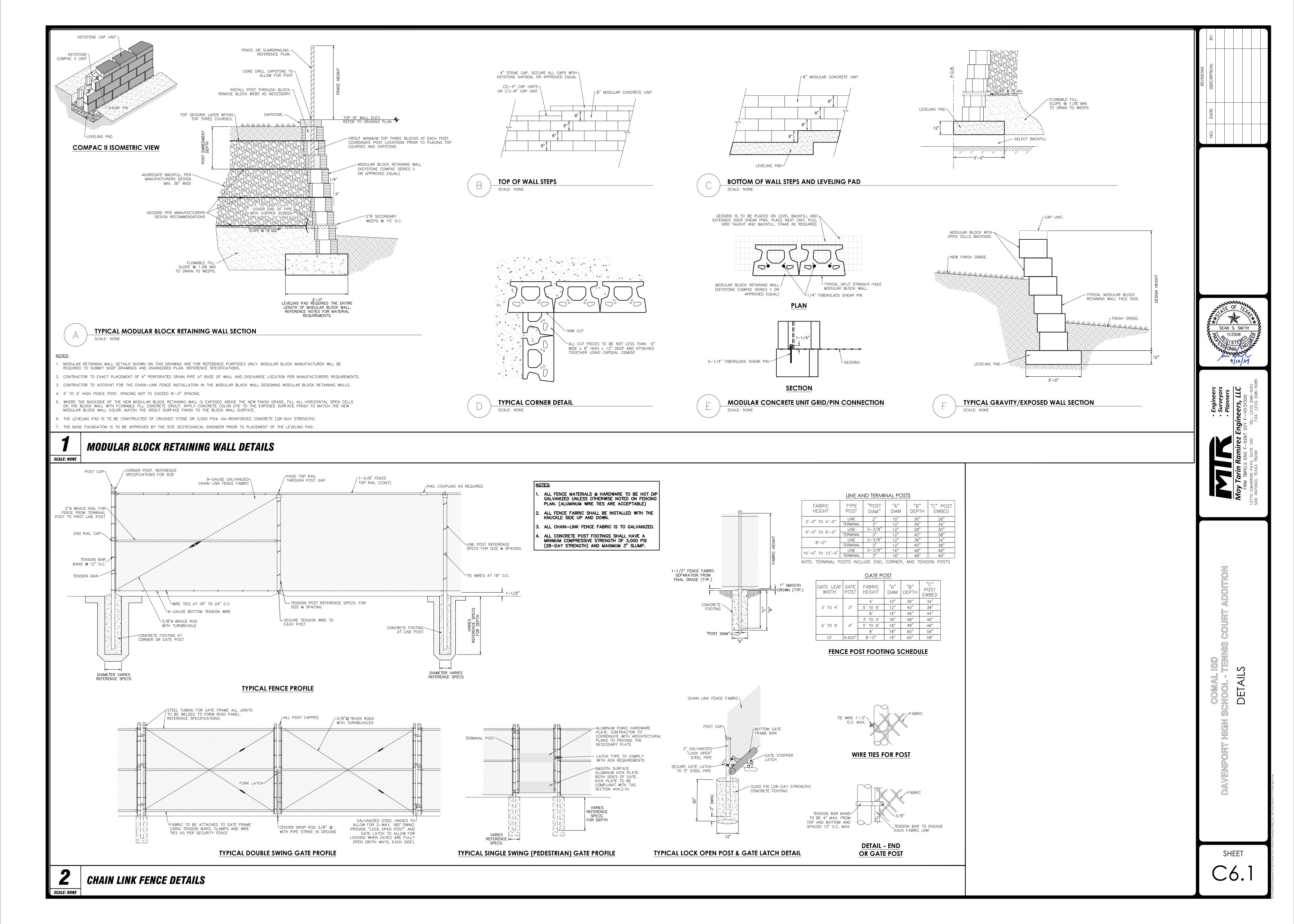


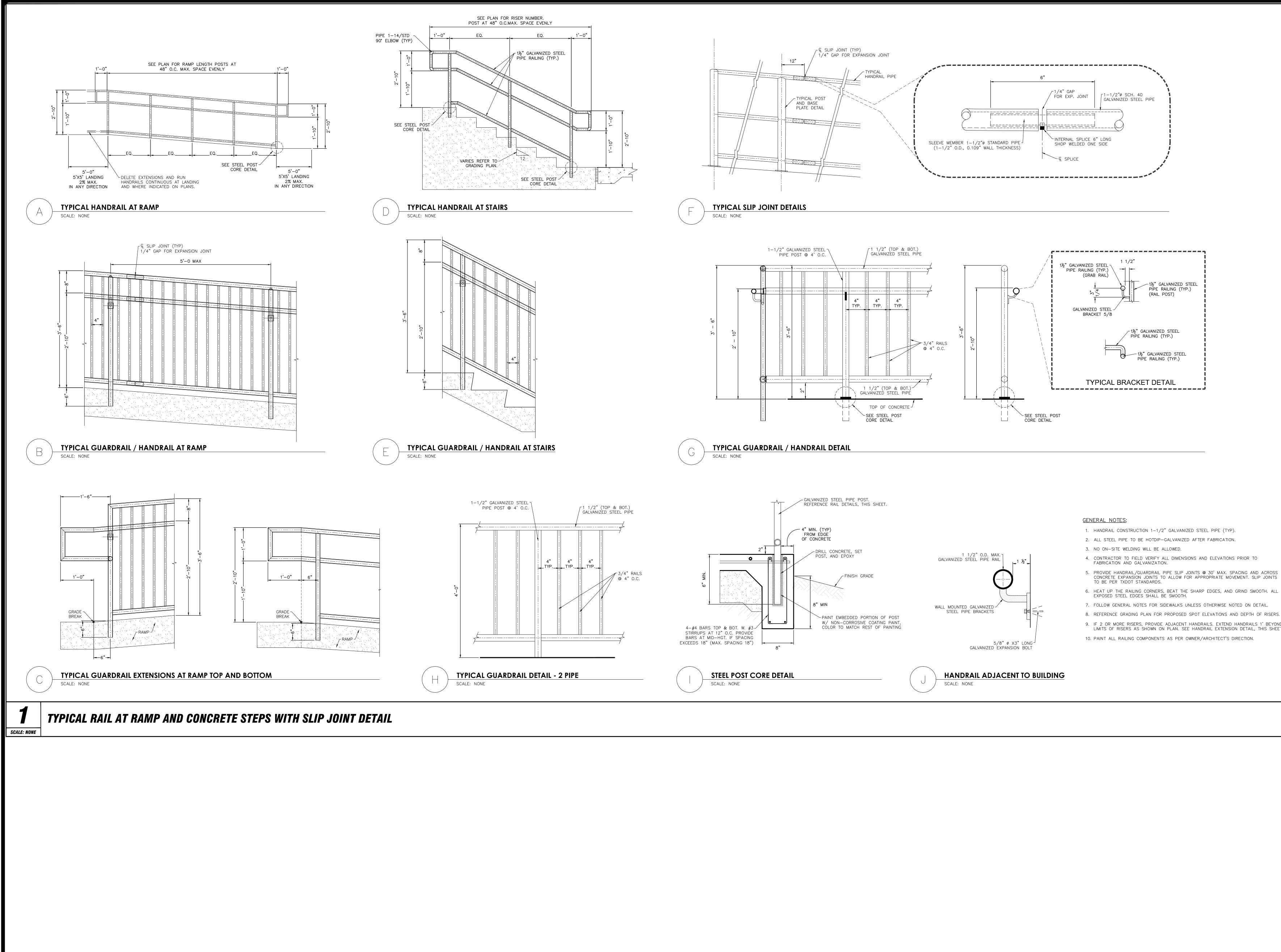
## GRADING KEYNOTES

- (1) NEW HEAVY DUTY ASPHALT PAVEMENT. REFERENCE SECTION DETAIL NO. 1B, SHEET C6.0.
- (2) provide 24" wide asphalt patch. Reference detail no. 1C, sheet C6.0.
- (3) NEW ASPHALT PAVEMENT TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING PAVEMENT AS NECESSARY TO MATCH NEW CONSTRUCTION. REFERENCE PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C6.0. (4) EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
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- 11 RELOCATED GOAL POST. CONTRACTOR TO PROVIDE FOOTING PER MANUFACTURER REQUIREMENTS. CONTRACTOR TO PROVIDE NEW PADS. CONTRACTOR TO CLEAN AND TOUCH UP GOAL POST.
- (12) existing structural concrete to remain in place. Contractor to protect during construction.
- (13) NEW TYPICAL 6" CONCRETE CURB. REFERENCE DETAIL NO. 3, SHEET C6.0.
- 14 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO SAWCUT EXISTING CURB AS NECESSARY TO MATCH NEW CONSTRUCTION. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 EA. 18" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE. (15) EXISTING CONCRETE CURB TO REMAIN IN PLACE.
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- (35) EXISTING MODULAR BLOCK RETAINING WALL TO REMAIN. (36) CONTRACTOR TO REPAINT CURB AND FIRE LANE STRIPING.









- 1. HANDRAIL CONSTRUCTION 1-1/2" GALVANIZED STEEL PIPE (TYP).
- 2. ALL STEEL PIPE TO BE HOTDIP-GALVANIZED AFTER FABRICATION.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND GALVANIZATION.

- 6. HEAT UP THE RAILING CORNERS, BEAT THE SHARP EDGES, AND GRIND SMOOTH. ALL
- 7. FOLLOW GENERAL NOTES FOR SIDEWALKS UNLESS OTHERWISE NOTED ON DETAIL.
- 8. REFERENCE GRADING PLAN FOR PROPOSED SPOT ELEVATIONS AND DEPTH OF RISERS.
- 9. IF 2 OR MORE RISERS, PROVIDE ADJACENT HANDRAILS. EXTEND HANDRAILS 1' BEYOND LIMITS OF RISERS AS SHOWN ON PLAN. SEE HANDRAIL EXTENSION DETAIL, THIS SHEET.
- 10. PAINT ALL RAILING COMPONENTS AS PER OWNER/ARCHITECT'S DIRECTION.



## ATTACHMENT G

#### INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

#### 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:

 $\cdot$  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 Mulvonens Print Name MALLAN

ture of Applicant/Owner/Agent

6/5/2024

## ATTACHMENT I

#### MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Both permanent and temporary BMP's, as shown on the WPAP Site Plan, shall be used to minimize contamination to surface streams, both during and after construction. During construction, temporary BMPs will consist of silt fence, bagged gravel inlet filters, and rock berms. After construction, the permanent BMPs for the overall site will consist of the existing batch detention basins, natural VFS, and proposed engineered VFS.

The proposed BMPs and other storm drainage systems are designed to avoid or minimize surface stream contamination and changes in the way in which water enters a stream. The runoff from the increase in impervious cover will be treated with the existing partial sedimentation/filtration basin and new vegetative filter strips.

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

M. Applicant's Signature

Mm 23, 202/ Date

THE STATE OF TEXAS § County of CEMAL §

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

GIVEN under my hand and seal of office on this 23 day of MAY ,2024

Amanda Dre Comfoch NOTARY PUBLIC



AMANDA DEE COMSTOCK Typed or Printed Name of Notary

MY COMMISSION EXPIRES: MAY 27,2024

# **Application Fee Form**

<b>Texas Commission on Environmer</b>	ntal Quality							
Name of Proposed Regulated Entity: <u>CISD Davenport High School</u>								
Regulated Entity Location: 23255 FM3009, San Antonio, TX 78266								
Name of Customer: <u>Comal ISD</u>								
Contact Person: Jeffrey Smith Phone: 830-221-2000								
Customer Reference Number (if issued):CN <u>600249825</u>								
Regulated Entity Reference Number (if issued):RN <u>110247541</u>								
Austin Regional Office (3373)								
Hays	Travis	Πw	illiamson					
San Antonio Regional Office (3362	2)							
Bexar	Medina		valde					
Comal	Kinney		laide					
			la ta tha Tayas					
Application fees must be paid by c Commission on Environmental Qu								
form must be submitted with you	•							
Austin Regional Office	an Antonio Regional C							
🔀 Mailed to: TCEQ - Cashier	Overnight Delivery to: TCEQ - Cashier							
Revenues Section	12100 Park 35 Circle							
Mail Code 214	В	Building A, 3rd Floor						
P.O. Box 13088	A	Austin, TX 78753						
Austin, TX 78711-3088	(!	512)239-0357						
Site Location (Check All That Appl	y):							
🔀 Recharge Zone	Contributing Zone	Transi	tion Zone					
Type of Plar	ז	Size	Fee Due					
Water Pollution Abatement Plan, (	Contributing Zone							
Plan: One Single Family Residentia	l Dwelling	Acres	\$					
Water Pollution Abatement Plan, G	Contributing Zone							
Plan: Multiple Single Family Reside	ential and Parks	Acres	\$					
Water Pollution Abatement Plan, G	Contributing Zone							
Plan: Non-residential		113.7 Acres	\$ 10,000					
Sewage Collection System		L.F.	\$					
Lift Stations without sewer lines		Acres	\$					
Underground or Aboveground Stor	rage Tank Facility	Tanks	\$					
Piping System(s)(only)		Each	\$					
Exception		Each	\$					
Extension of Time		Each	\$					
		10/7/24						

TCEQ-0574 (Rev. 02-24-15)

## **Application Fee Schedule**

**Texas Commission on Environmental Quality** 

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

## Water Pollution Abatement Plans and Modifications

## Contributing Zone Plans and Modifications

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

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

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

# Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

### **Exception Requests**

	Project	Fee
Exception Request		\$500

## Extension of Time Requests

Project	Fee
Extension of Time Request	\$150



## **TCEQ Core Data Form**

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

### **SECTION I: General Information**

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🛛 New Pe	rmit, Regis	stration or Authori	zation (Core	Data Fo	rm should b	e subr	itted witl	h the p	rogram applicatio	n.)	
Renewa	l (Core Da	ta Form should b	e submitted v	vith the i	renewal form	n)	🗌 Of	ther			
2. Customer	<sup>r</sup> Referenc	e Number <i>(if i</i> ss	sued)		this link to se		3. Reg	ulated	Entity Reference	e Number <i>(i</i>	f issued)
CN 6002	49825				or RN number ntral Registry		RN 1	11024	47541		
SECTION	II: Cu	stomer Info	ormation								
4. General C	ustomer I	nformation	5. Effective	e Date fo	or Custome	er Infor	mation I	Update	es (mm/dd/yyyy)		
New Cust				•	to Custome				- •	•	Entity Ownership
	-	me (Verifiable wit							,		
			-	•			•			rrent and	active with the
Texas Sec	retary o	f State (SOS)	or Texas C	Comptr	roller of P	ublic	Ассои	ints (	CPA).		
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) <u>If new Customer, enter previous Customer below:</u>											
7. TX SOS/C	PA Filing	Number	8. TX State	Tax ID	(11 digits)		9. I	Federa	I Tax ID (9 digits)	10. DUN	<b>5 Number</b> (if applicable)
11. Type of C	Customer:	Corporati	ion		🗌 Indivi	dual		Par	tnership: 🔲 Gene	ral 🗌 Limited	
Government:	🗌 City 🔲	County 🗌 Federal 🗌	State 🗌 Othe	r	Sole	Proprie	torship		Other:		
12. Number									endently Owned	and Opera	ted?
0-20	_ 21-100	101-250	251-500		501 and hig			Yes	∐ No		
14. Custome	e <b>r Role</b> (Pr	oposed or Actual) -	- as it relates to	o the Reg	ulated Entity	listed o	n this forn	n. Pleas	e check one of the	following	
Owner		Operat			Owner of the second sec	•					
	nal Licens	ee 🔄 Respo	onsible Party		Volunta	ry Clea	inup App	licant	Other:		
15. Mailing Address:											
	City			St	tate		ZIP			ZIP + 4	
16. Country	Mailing In	formation (if outsi	ide USA)			17.6	E-Mail A	ddress	(if applicable)	1	ł
	-		·								
18. Telephor	ne Numbe	r		19. Ex	tension or	Code			20. Fax Numbe	er (if applicat	ole)
( )	-								( )	-	

## **SECTION III: Regulated Entity Information**

	tity Information (If 'New Regulated Entity" is selected below this form should be	e accompanied by a permit applicatior	)
New Regulated Entity 🛛 Update to Regulated Entity Name 🗌 Update to Regulated Entity Information	Update to Regulated Entity Name Update to Regulated Entity Inform	mation	

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 Davenport High School

23. Street Address of	23255 F	M3009								
the Regulated Entity:										
(No PO Boxes)	City	SanAntoni	o State	TX	2	ZIP	78266		ZIP + 4	
24. County	Comal									
	Er	nter Physical Lo	ocation Descrip	tion if no	street	t address	s is provid	ed.		
25. Description to Physical Location:										
26. Nearest City							State		Nea	rest ZIP Code
San Antonio							TX		782	266
27. Latitude (N) In Decin	nal:	29.656998		2	8. Lon	gitude (V	V) In Decir	nal:	98.31014	7
Degrees	Minutes	S	Seconds	D	egrees		Mir	utes		Seconds
29	3	9	25.2			98		1	8	36.5
29. Primary SIC Code (4	digits) 30. S	Secondary SIC	Code (4 digits)	<b>31. Pr</b> i (5 or 6		NAICS C	ode	<b>32. Se</b> (5 or 6 d	condary NA	CS Code
8211				6111	10					
33. What is the Primary	Business of	this entity? (	Do not repeat the SI	C or NAICS	descrip	tion.)				
High School	-									
	23255 FM3009									
34. Mailing	ailing									
Address:	City	Con Antonio	Ctoto	тх	1	ZIP	782	66	ZIP + 4	
	City	San Antonio	State					.00	ZIP + 4	
35. E-Mail Address:	1		07 Estens	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		comalis		and Mirror	han /if ann li	a a h la )
	one Number		37. Extens	ion or Co	ae		38.1		hber <i>(if appli</i>	cadle)
	21-2101							(	) -	
D. TCEQ Programs and ID rm. See the Core Data Form in				ermits/regi	stration	numbers	that will be a	affected b	by the updates	submitted on this
Dam Safety	Districts		Edwards Aq	uifer		Emissic	ons Inventor	y Air	Industrial	Hazardous Waste
								,		
Municipal Solid Waste	New So	urce Review Air				Petrole	um Storage	Tank	PWS	
Sludge	Storm W	/ater	Title V Air			Tires			Used Oil	
Voluntary Cleanup	U Waste V	Vater	U Wastewater	Agriculture		Water F	Rights		Other:	
ECTION IV: Pre	parer In	formation								
40. Name: Sean Smith, 1	P.E.			41. Tit	le:	Senio	r Vice P	reside	nt	
2. Telephone Number 4	3. Ext./Code	e 44. Fax	Number	45. E	-Mail	Address				
210) 698-5051		(210)	698-5085	ssm	ith@	mtreng	gineers.c	om		
ECTION V: Aut	horized §	Signature								
. By my signature below,			owledge, that th	e informa	tion pr	ovided in	this form	is true a	nd complete,	and that I have

identified in field 39.

Company:	Moy Tarin Ramirez Engineers, LLC	r Vice President				
Name (In Print):	Sean Smith, P.E.		Phone:	(210)698-	5051	
Signature:	h. l.A		Date:	10/7/	24	