

**CONTRIBUTING ZONE  
PLAN MODIFICATION  
FOR  
CISD TIMBERWOOD PARK ELEMENTARY**

**PREPARED FOR:**



**DATE: JUNE 2024**

**PREPARED BY:**



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

***Moy Tarin Ramirez Engineers, LLC***

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# **CISD TIMBERWOOD PARK ELEMENTARY CONTRIBUTING ZONE PLAN MODIFICATION**

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# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### Our Review of Your Application

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

### Administrative Review

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

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

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

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

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

### Technical Review

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



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

### Mid-Review Modifications

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

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

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

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

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

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

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

<b>1. Regulated Entity Name: Cisd TIMBERWOOD PARK ELEMENTARY</b>					<b>2. Regulated Entity No.: 105112585</b>				
<b>3. Customer Name: Comal ISD</b>					<b>4. Customer No.: 600249825</b>				
<b>5. Project Type:</b> (Please circle/check one)	New	Modification			Extension		Exception		
<b>6. Plan Type:</b> (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
<b>7. Land Use:</b> (Please circle/check one)	Residential	Non-residential			<b>8. Site (acres):</b>			10.554 acres	
<b>9. Application Fee:</b>	\$6,500	<b>10. Permanent BMP(s):</b>				/FS, Basin			
<b>11. SCS (Linear Ft.):</b>	N/A	<b>12. AST/UST (No. Tanks):</b>				N/A			
<b>13. County:</b>	Comal	<b>14. Watershed:</b>				Headwaters Cibolo Creek			



# Application Distribution

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

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

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

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



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

Sean Smith, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date

6/17/24

**\*\*FOR TCEQ INTERNAL USE ONLY\*\***

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



# Modification of a Previously Approved Contributing Zone Plan

## Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), Effective June 1, 1999

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

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

## Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Modification of a Previously Approved Contributing Zone Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

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

Date: 6/17/24

Signature of Customer/Agent:



## Project Information

1. Current Regulated Entity Name: CISD Timberwood Park Elementary  
Original Regulated Entity Name: CISD Timberwood Park Elementary  
Assigned Regulated Entity Number(s) (RN): 105112585  
Edwards Aquifer Protection Program ID Number(s): 2597.00  
☒ 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):



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

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

<b><i>CZP Modification</i></b>	<b><i>Approved Project</i></b>	<b><i>Proposed Modification</i></b>
<b><i>Summary</i></b>		
Acres	<u>See Attached Summary</u>	<u>10.554</u>
Type of Development	_____	<u>Elementary School</u>
Number of Residential Lots	_____	<u>0</u>
Impervious Cover (acres)	_____	<u>4.97</u>
Impervious Cover (%)	_____	<u>47.09</u>
Permanent BMPs	_____	<u>VFS, Sand Filter Basin</u>
Other	_____	_____
<b><i>AST Modification</i></b>		
<b><i>Summary</i></b>		
Number of ASTs	_____	_____
Other	_____	_____
<b><i>UST Modification</i></b>		
<b><i>Summary</i></b>		
Number of USTs	_____	_____
Other	_____	_____

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



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

6. ☒ **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
- ☐ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
- ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
- ☒ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
7. ☐ Acreage has not been added to or removed from the approved plan.
- ☒ Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.
8. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.



## SUMMARY OF PREVIOUS & PROPOSED MODIFICATIONS

<b><i>CZP Modification Summary</i></b>	<b><i>Pre-June 1, 1999</i></b>	<b><i>Original CZP</i></b>	<b><i>Proposed Modification 1</i></b>
Acres	10.66	10.66	10.554
Type of Development	Undeveloped	Elementary School	Elementary School
Number of Residential Lots	N/A	N/A	N/A
Total Impervious Cover (acres)	N/A	4.32	4.97
Impervious Cover (%)	N/A	40.53%	47.09%
Permanent BMPs	N/A	Sand Filter Basin, VFS	Sand Filter Basin, VFS
Other	N/A	N/A	N/A
Approval Letter Date	N/A	January 19, 2007	TBD



Kathleen Hartnett White, *Chairman*  
Larry R. Soward, *Commissioner*  
Martin A. Hubert, *Commissioner*  
Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

January 19, 2007

Mr. Marc Walker  
Comal Independent School District  
1421 N. Business 35  
New Braunfels, Texas 78130

Re: Edwards Aquifer, Bexar County

NAME OF PROJECT: Timberwood Park Elementary; Located at the southeast corner of Borgfield Road and Old Blanco Road, San Antonio, Texas

TYPE OF PLAN: Request for the Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer; Edwards Aquifer Protection Program ID No. 2597.00; Investigation No. 532852; Regulated Entity No. RN105112585

Dear Mr. Walker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP 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 November 21, 2006. Final review of the CZP was completed after additional material was received on January 8, 2007. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) 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 elementary school project will have an area of approximately 10.66 acres. The impervious cover for the project will consist of the building rooftop, driveways, parking areas, utilities, recreation areas (basketball courts) and a water quality basin totaling 4.32 acres (40.53%). Project wastewater will be disposed of by an on-site sewage facility. According to a

REPLY TO: REGION 13 • 14250 JUDSON RD. • SAN ANTONIO, TEXAS 78233-4480 • 210/490-3096 • FAX 210/545-4329

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000 • Internet address: [www.tceq.state.tx.us](http://www.tceq.state.tx.us)

Printed on recycled paper using soy-based ink

6374-02



letter dated November 17, 2006, signed by Bobby Howell with Bexar County Infrastructure Services Department, the site in the development is acceptable for the use of on-site sewage facilities.

#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site and potentially flowing across and off the site after construction, one sedimentation filtration basin and two engineered filter strips designed using the TCEQ technical guidance documents, "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices" (2005), will be constructed. The water quality basin will provide treatment for approximately 2,998.80 pounds of total suspended solids (TSS) generated from the 4.05 acres of impervious cover. The basin is designed with a capture volume of 13,846 cubic feet (12,853 cubic feet required) and a sand filter area of 2,475 square feet (1,285 square feet required). The two engineered filter strips will treat stormwater runoff from 0.16 acres of impervious cover. The approved measures have been presented to meet the required 80% removal of the increased load in TSS for the proposed development.

#### SPECIAL CONDITIONS

- I. The holder of the approved Edwards Aquifer CZP must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the application.
- II. Permanent pollution abatement measures shall be operational prior to occupancy of the facility.
- III. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetative filter strips, sediment traps, rock berms, silt fence rings, etc.
- IV. All sediment and or media removed from the partial sedimentation/filtration basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- V. 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.

#### 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.



Prior to Commencement of Construction:

2. 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 CZP is enclosed.
3. 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 CZP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
4. Modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
5. 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.
6. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved CZP, 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.
7. 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 days of completion of the drilling operation. Voids may be filled with gravel.



During Construction:

8. 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.
9. 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 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.
10. No wells exist 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.
11. 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.
12. 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.
13. 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:

14. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. 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 the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved 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.
17. 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.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.



Mr. Marc Walker  
January 19, 2007  
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If you have any questions or require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

Sincerely,



Glenn Shankle  
Executive Director  
Texas Commission on Environmental Quality

GS/CEF

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

cc: Mr. Ruben Cervantes, P.E., Pape-Dawson Engineers, Inc.  
Ms. Renee Green, Bexar County Public Works  
Mr. Robert J. Potts, Edwards Aquifer Authority  
TCEQ Central Records, Building F, MC 212



## **ATTACHMENT B**

### **NARRATIVE OF PROPOSED MODIFICATION**

The proposed project will be providing new playground equipment, new rubberized surface, synthetic turf play areas, and associated concrete flatwork. The previously approved impervious cover total on-site is currently 4.32 acres, or 40.53%, according to the TCEQ approval letter dated January 19, 2007. The existing permanent BMPs are a sedimentation/filtration basin and vegetative filter strips. The original Contributing Zone Plan for this site was approved on January 19, 2007. Since that approval date, the property acreage has decreased to 10.554 acres due to a right-of-way dedication for Borgfeld Road.

The Timberwood Park Elementary School property is located at 26715 S Glenrose Rd, San Antonio, TX 78260 and is located in the Edwards Aquifer Contributing Zone. An OSSF was previously approved for this property, but will now be removed. A sanitary sewer force main will be extended into the property and convey wastewater from the property to the Dos Rios/Leon Creek Wastewater Treatment Plant. A CZP Exception Request was submitted to TCEQ for the extension of the sanitary sewer on 5/23/2024. TCEQ responded on 6/7/2024 stating that a Contributing Zone Plan was not required for the scope of work associated with the sanitary sewer extension.

Upon comparison of the original approved CZP and the current site conditions, we have concluded that an alternate site plan was constructed, with more impervious cover than was previously approved in 2006. The true existing condition for this site was calculated based on the best available data including on-site survey and high resolution aeriels. The current existing impervious cover on-site was calculated to be 4.41 acres. This proposed project will be providing approximately 0.56 acres of new impervious cover, for a total of 4.97 acres of impervious cover or 47.09%. The increase in impervious cover will be treated with existing VFS, new VFS, and the expanded sand filter basin.







# Contributing Zone Plan Application

## Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

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

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

## Signature

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

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

Date: 6/17/24

Signature of Customer/Agent:



Regulated Entity Name: CISD Timberwood Park Elementary

## Project Information

1. County: Bexar
2. Stream Basin: Headwaters Cibolo Creek
3. Groundwater Conservation District (if applicable): Trinity Glen Rose
4. Customer (Applicant):

Contact Person: Jeffrey Smith

Entity: Comal Independent School District

Mailing Address: 1404 IH 35 North

City, State: New Braunfels, TX

Telephone: (830) 221-2101

Email Address: jeffrey.smith@comalisd.org

Zip: 78130-2817

Fax: \_\_\_\_\_



5. Agent/Representative (If any):

Contact Person: Sean Smith, P.E.

Entity: Moy Tarin Ramirez Engineers, LLC

Mailing Address: 12770 Cimarron Path #100

City, State: San Antonio, TX

Zip: 78249

Telephone: (210) 698-5051

Fax: (210) 698-5085

Email Address: ssmith@mtrengineers.com

6. Project Location:

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

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

26715 S Glenrose Rd, San Antonio, TX 78260

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

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

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

10. ☒ **Attachment C - Project Narrative.** A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

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

11. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site



- ☐ Existing paved and/or unpaved roads  
☐ Undeveloped (Cleared)  
☐ Undeveloped (Undisturbed/Not cleared)  
☒ Other: Existing Elementary School site

12. The type of project is:

- ☐ Residential: # of Lots: \_\_\_\_\_  
☐ Residential: # of Living Unit Equivalents: \_\_\_\_\_  
☐ Commercial  
☐ Industrial  
☒ Other: Elementary School

13. Total project area (size of site): 10.554 Acres

Total disturbed area: 1.519 Acres

14. Estimated projected population: 800

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

**Table 1 - Impervious Cover**

<i><b>Impervious Cover of Proposed Project</b></i>	<i><b>Sq. Ft.</b></i>	<i><b>Sq. Ft./Acre</b></i>	<i><b>Acres</b></i>
Structures/Rooftops	59,677.20	÷ 43,560 =	1.37
Parking	79,279.20	÷ 43,560 =	1.82
Other paved surfaces	77,535.60	÷ 43,560 =	1.78
Total Impervious Cover	216,492	÷ 43,560 =	4.97

**Total Impervious Cover 4.97 ÷ Total Acreage 10.554 X 100 = 47.09% Impervious Cover**

16. ☒ **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

### ***For Road Projects Only***

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

☒ N/A



18. Type of project:

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

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

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: \_\_\_\_\_

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

Length of R.O.W.: \_\_\_\_\_ feet.

Width of R.O.W.: \_\_\_\_\_ feet.

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

21. Pavement Area:

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

Width of pavement area: \_\_\_\_\_ feet.

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

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

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

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

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

***Stormwater to be generated by the Proposed Project***

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

***Wastewater to be generated by the Proposed Project***

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

☒ N/A



26. Wastewater will be disposed of by:

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

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

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

☒ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the Dos Rios/Leon Creek (name) Treatment Plant. The treatment facility is:

☒ Existing.

☐ Proposed.

☒ N/A

### ***Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons***

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

☒ N/A

27. Tanks and substance stored:

**Table 2 - Tanks and Substance Storage**

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

**Total x 1.5 = \_\_\_\_\_ Gallons**

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

5 of 11



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

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

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

**Table 3 - Secondary Containment**

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

**Total: \_\_\_\_\_ Gallons**

30. Piping:

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

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

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

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

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

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



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

## **Site Plan Requirements**

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

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.  
Site Plan Scale: 1" = 100'.
35. 100-year floodplain boundaries:
- ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
- ☒ No part of the project site is located within the 100-year floodplain.  
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA Panel 48029C0110G, effective 9/29/2010.
36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- ☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☐ Surface waters (including wetlands).  
☒ N/A
43. ☐ Locations where stormwater discharges to surface water.  
☒ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.  
☒ Temporary aboveground storage tank facilities will not be located on this site.



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

### ***Permanent Best Management Practices (BMPs)***

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

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.  
☐ N/A
48. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.  
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.  
☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: \_\_\_\_\_.  
☐ N/A
49. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.  
☐ N/A
50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.  
☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.  
☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.  
☒ The site will not be used for low density single-family residential development.



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

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

52. ☒ **Attachment J - BMPs for Upgradient Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. ☒ **Attachment K - BMPs for On-site Stormwater.**

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

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

☐ N/A

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



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

☐ N/A

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

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

☐ N/A

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

☒ N/A

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

☐ N/A

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

59. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
60. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development,



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

### ***Administrative Information***

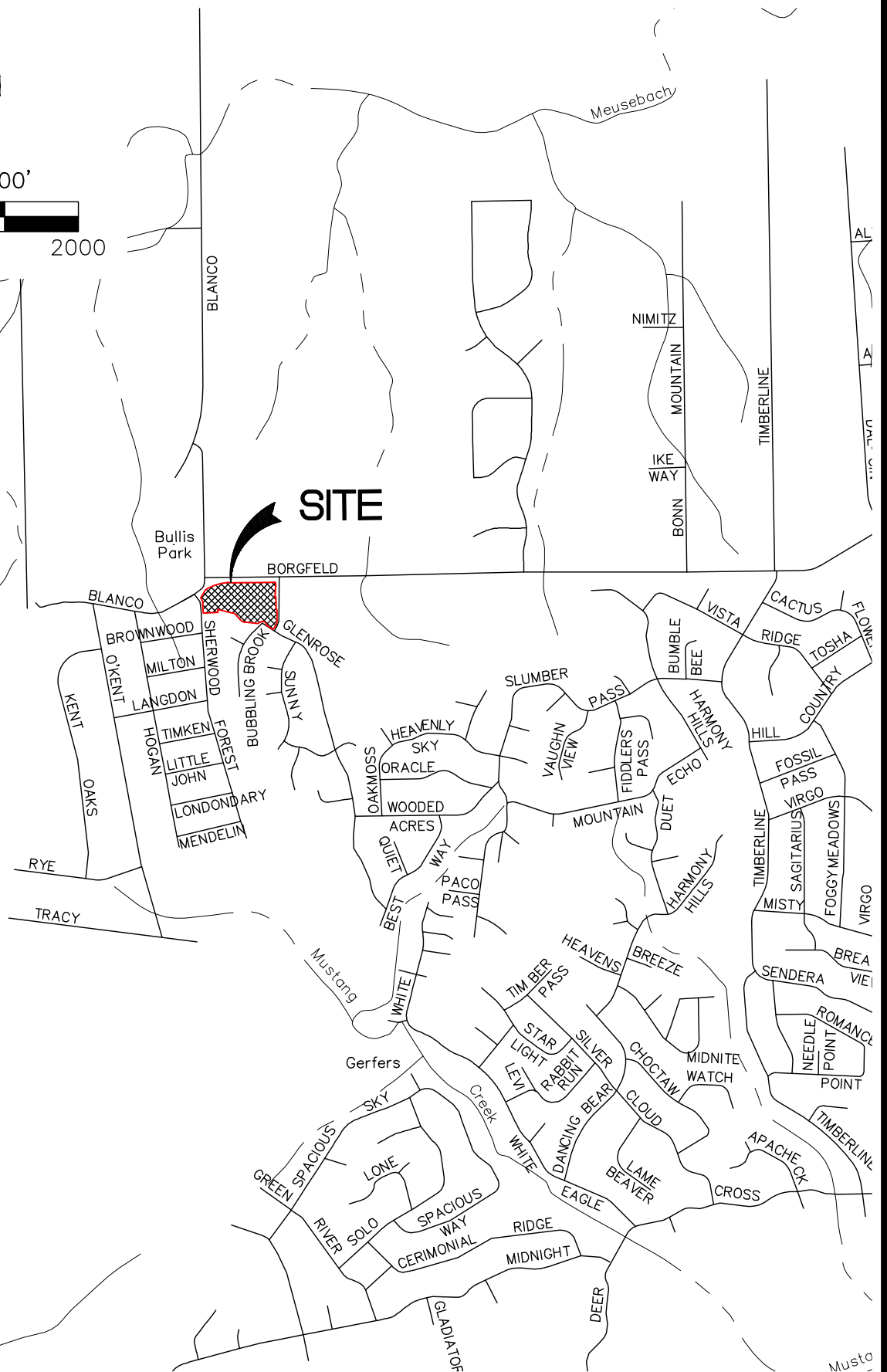
- 61. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
- 62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
- ☒ The Temporary Stormwater Section (TCEQ-0602) is included with the application.



SCALE: 1"=2000'



2000 1000 0 2000



***Moy Tarin Ramirez Engineers, LLC***

TBPE F-5297 & TBPLS F-10131500

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

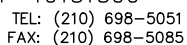
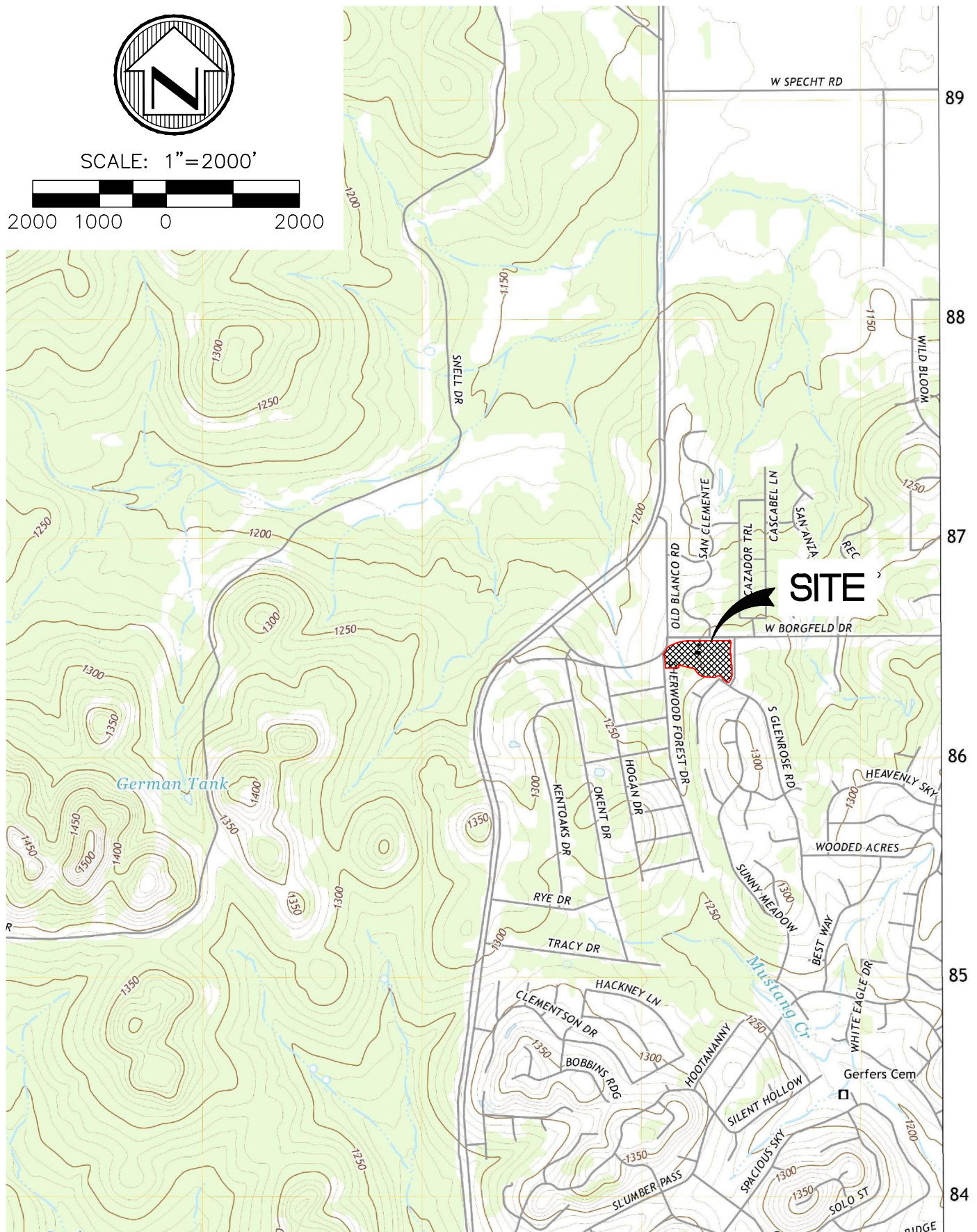
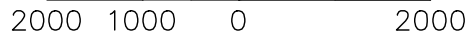
- **Engineers**
- **Surveyors**
- **Planners**

**CISD TIMBERWOOD  
PARK ELEMENTARY**

## LOCATION MAP

**DATE: JUNE 2024**





**DATE: JUNE 2024**



## **ATTACHMENT C**

### **PROJECT DESCRIPTION**

The proposed project will be providing new playground equipment, new rubberized surface, artificial turf play areas, and associated concrete flatwork at Timberwood Park Elementary School. The original Contributing Zone Plan was approved on January 19, 2007 for 4.320 acres of impervious cover.

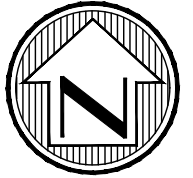
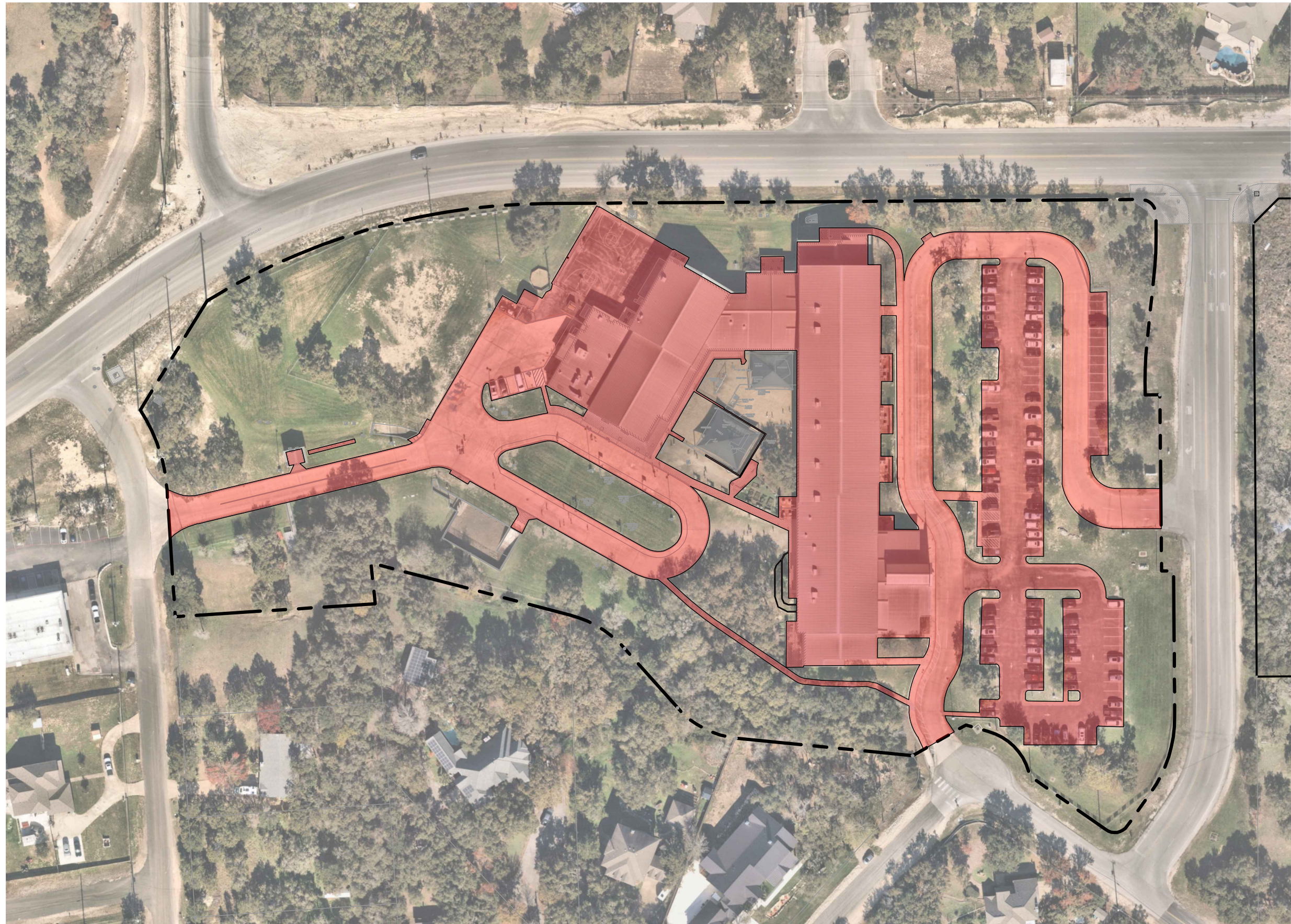
The overall acreage of the Timberwood Park Elementary School property is 10.554, which has decreased acres since the original CZP was approved. This decrease in acreage is due to a right-of-way dedication for Borgfeld road. The project site is located at 26715 S Glenrose Rd, San Antonio, TX 78260 and is located in the Edwards Aquifer Contributing Zone.

This property was previously served by an on-site sewage facility. A CZP Exception Request was submitted to TCEQ on 5/23/2024 for the extension of a sanitary sewer force main into the site. Wastewater generated by this property will now be treated at the Dos Rios/Leon Creek Wastewater Treatment Plant. The TCEQ issued a response on 6/7/2024 stating that a Contributing Zone Plan would not be required for the scope of work associated with the sanitary sewer extension.

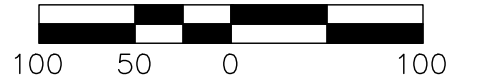
Current development consists of an elementary school with buildings, concrete sidewalks, and asphalt parking. Upon comparing the original CZP to current site conditions, it appears an alternate site plan was constructed, resulting in more impervious cover than previously approved. An existing impervious cover analysis was performed using the latest available on-site survey data and high resolution aerials. The current calculated impervious cover on-site is 4.41 acres. Additionally, a portion of the flow from upgradient impervious cover is not intercepted as previously stated in the 2006 CZP. Flow from approximately 0.15 acres of upgradient impervious cover enters the site and ultimately drains to the existing sand filter basin.

The proposed impervious cover onsite will increase by approximately 0.56 acres, bringing the total site impervious cover to 4.97 acres, or 47.09 percent. 0.19 acres of the new impervious cover on-site are comprised of synthetic turf which provides equivalent water protection through the use of an underdrain and liner. The remaining increase in impervious cover will be treated with the addition of new engineered VFS and an expansion to the existing sand filter basin. Due to the current existing impervious cover conditions on-site, the existing sand filter basin is undersized to treat the impervious cover within its drainage area. The expanded basin has been designed to account for the correct volume and sand filter area required to treat both existing and proposed impervious cover located within its drainage area. The basin also includes treatment for the previously untreated upgradient stormwater entering the site.





SCALE: 1"=100'

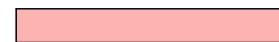


**MTR**  
**Moy Tarin Ramirez Engineers, LLC**  
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12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051  
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

- Engineers
- Surveyors
- Planners



PROJECT AREA



IMPERVIOUS COVER

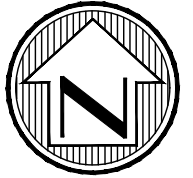
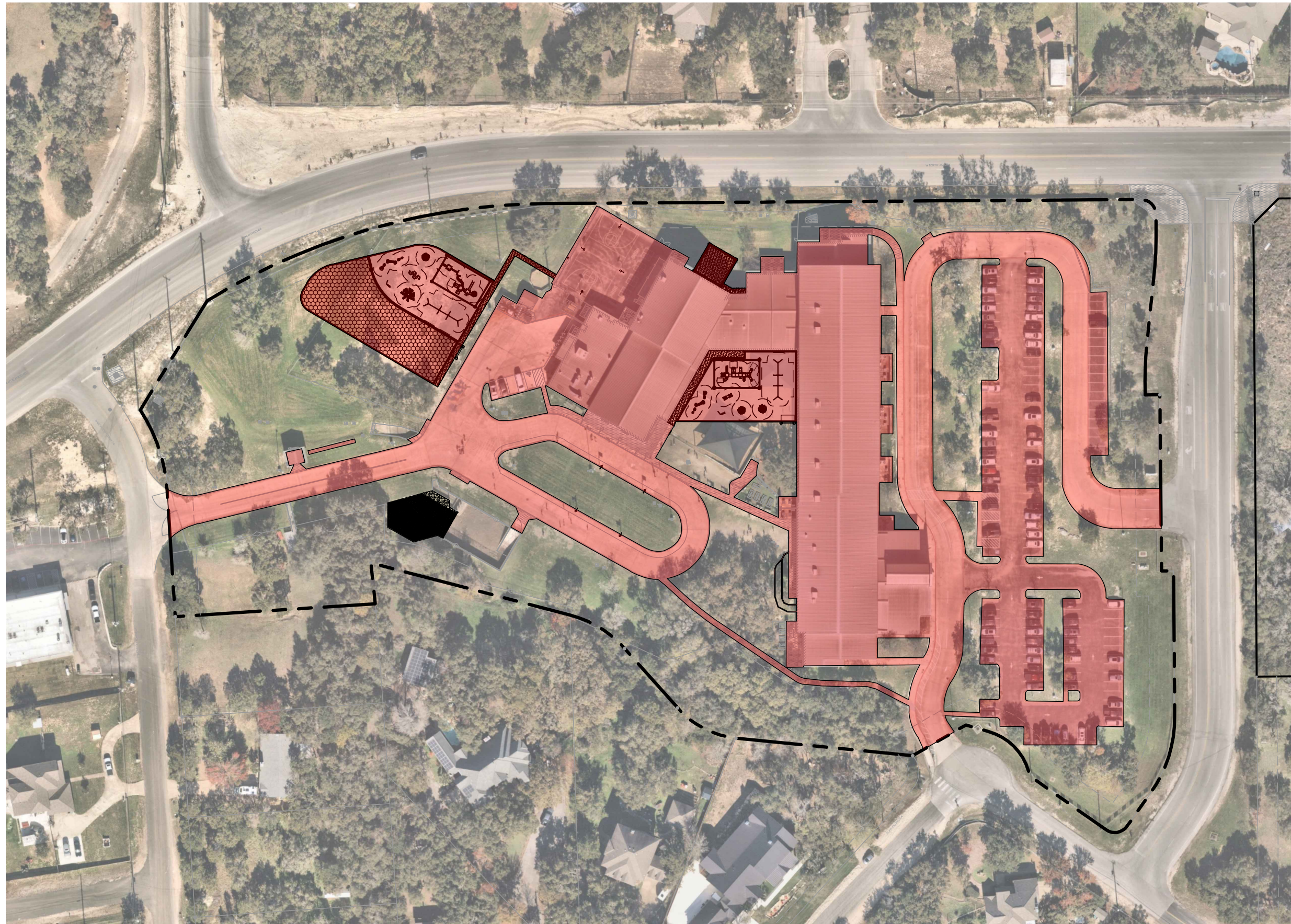
TOTAL PROJECT AREA = 459,798 S.F.  
EXISTING IMPERVIOUS COVER = 192,061 S.F.

CISD  
**TIMBERWOOD PARK ELEMENTARY**  
**EXISTING IMPERVIOUS COVER EXHIBIT**

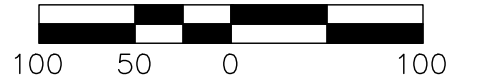
PROJ. #: 01.08

JUNE 2024





SCALE: 1"=100'



**MTR**  
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- Engineers
- Surveyors
- Planners



PROJECT AREA  
IMPERVIOUS COVER

TOTAL PROJECT AREA = 459,798 S.F.  
EXISTING IMPERVIOUS COVER = 192,061 S.F.  
PROPOSED IMPERVIOUS COVER = 216,492 S.F.  
INCREASE IN IMPERVIOUS COVER = 24,431 S.F.

CISD  
**TIMBERWOOD PARK ELEMENTARY**  
**PROPOSED IMPERVIOUS COVER EXHIBIT**  
PROJ. #: 01.08 JUNE 2024



## **ATTACHMENT D**

### **FACTORS AFFECTING SURFACE WATER QUALITY**

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



## ATTACHMENT E

### VOLUME AND CHARACTER OF STORM WATER

#### **Volume of Storm Water**

Stormwater generated on-site generally sheet flows from east to west, eventually routed under Borgfeld Dr and approximately 2,000' to the FEMA 1% Annual Chance Floodplain. The rational method ( $Q=CIA$ ) was used to calculate the 25-year storm event. The drainage area to the sand filter basin approved in the original CZP appears to be incorrect in the current condition, according to the best available current lidar data. The proposed drainage area to the sand filter basin is presented as follows and compared to the approved sand filter basin drainage area approved in 2006.

#### **Sand Filter Basin Drainage Area**

Approved Existing Conditions

Area = 6.71 acres

Impervious Cover = 4.05 acres

$Q_{25}$  = 35.00 cfs

Proposed Conditions

Area = 7.375 acres

Impervious Cover = 4.88 acres

$Q_{25}$  = 38.44 cfs

#### **Character of Storm Water**

Stormwater runoff generated from the site during construction will be typical of an elementary school educational facility with buildings, parking lots, and basin maintenance projects. The runoff should consist of small amounts of suspended solids created by sediments from disturbed soils, construction dust, sawdust and hydrocarbons from construction equipment. Temporary BMP's have been selected from the TCEQ Publication, "Complying with the Edwards Aquifer Rules: Technical Guidance for Best Management Practices," to treat the required volume and character of storm water runoff to remove the increased total suspended solids (TSS) due to the proposed 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 an elementary 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 with the expanded sand filter basin and the existing/proposed VFS.



## **ATTACHMENT J**

### **BMP'S FOR UPGRADIENT STORM WATER**

Per the original approved CZP, upgradient water is intercepted through culverts underneath the cul-de-sac at the Bubbling Brook and S. Glenrose Road intersection. However, a flow analysis based on 2019 TNRIS lidar contours shows that upgradient flow from S. Glenrose Rd flows into the property and ultimately makes its way to the sand filter basin. The sand filter basin has been expanded with this modification to treat both the on-site impervious cover and the upgradient stormwater. The off-site drainage is shown on the Drainage Area Map included with this application.



## ATTACHMENT K

### BMP'S FOR ON-SITE STORM WATER

During construction, temporary Best Management Practices (BMPs) such as silt fences and bagged gravel inlet filters will be strategically placed to minimize sediment leaving the site. After construction, permanent BMPs, including a sand filter basin and engineered Vegetative Filter Strips (VFS), will treat on-site runoff.

The original approved Contributing Zone Plan (CZP) specified 4.32 acres of impervious cover on the site. However, recent inspections of aerial images and the latest lidar data indicate that a modified version of the approved plan was built. The current impervious cover is calculated to be 4.41 acres. This modification results in an increase of 0.56 acres, bringing the total to 4.97 acres of impervious cover. There were 0.48 acres of impervious cover on-site before 1999, which was removed with the 2006 CZP. This 0.48 acres is grandfathered and is subtracted from the total area requiring treatment. Additionally, 0.19 acres of the new impervious cover consist of synthetic turf, which provides equivalent water protection due to its underdrain and liner. Consequently, only runoff from 4.3 acres of impervious cover requires treatment. The Total Suspended Solids (TSS) removal requirement for these 4.3 acres is 3,509 pounds.

All new impervious cover is within the drainage area leading to the sand filter basin. Of the 4.3 acres requiring treatment, 0.15 acres of impervious cover is treated with existing VFS, while 0.12 acres of impervious cover is uncaptured and will be treated via overtreatment in the sand filter basin. The remaining 4.03 acres of impervious cover flows to the sand filter basin, however, 0.17 acres will be treated with new VFS before reaching the basin. Ultimately, the sand filter basin must remove 3,248 pounds of TSS (3,150 pounds from the 3.86 acres of untreated impervious cover within its drainage area + 98 pounds for the overtreatment of 0.12 acres). The required capture volume for this 20,941 CF and the minimum sand filter area is 2,093 SF. The provided capture volume for the basin is 24,749 CF and the provided sand filter area is 2,390 SF. The 0.15 acres of upgradient impervious cover is accounted for in Item 6 of the TSS calculations worksheet for the sand filter basin.

Please refer to the following table for a summary of the impervious cover treatment on-site.

<b>Permanent BMP</b>	<b>Acres of Impervious Cover Treated</b>
Existing VFS	0.15
New VFS before reaching basin	0.17
Sand Filter Basin	3.86
Sand Filter Basin (Overtreatment)	0.12
<b>Total</b>	<b>4.30</b>



Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name:

Date Prepared:

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

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

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where:

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

$A_N$  = Net increase in impervious area for the project

$P$  = Average annual precipitation, inches

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

County =	Bexar	
Total project area included in plan *	10.55	acres
Predevelopment impervious area within the limits of the plan *		acres
Total post-development impervious area within the limits of the plan *	4.30	acres
Total post-development impervious cover fraction *	0.41	
P =	30	inches

$L_{M \text{ TOTAL PROJECT}}$  = 3509 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 1

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

Drainage Basin/Outfall Area No. =	1	
Total drainage basin/outfall area =	7.00	acres
Predevelopment impervious area within drainage basin/outfall area =		acres
Post-development impervious area within drainage basin/outfall area =	3.86	acres
Post-development impervious fraction within drainage basin/outfall area =	0.55	
$L_{M \text{ THIS BASIN}}$ =	3150	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter  
Removal efficiency = 89 percent

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

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

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

where:

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

$A_i$  = Impervious area proposed in the BMP catchment area

$A_p$  = Pervious area remaining in the BMP catchment area

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

$A_C$ =	7.00	acres
$A_i$ =	3.86	acres
$A_p$ =	3.14	acres
$L_R$ =	3611	lbs





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

Desired  $L_M$  THIS BASIN = **3248** lbs. 3150 + 98 pounds for 0.12 acres of overtreatment

F = **0.90**

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

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = **1.70** inches  
Post Development Runoff Coefficient = **0.39**  
On-site Water Quality Volume = **16745** cubic feet

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

Off-site area draining to BMP = **0.37** acres  
Off-site Impervious cover draining to BMP = **0.15** acres  
Impervious fraction of off-site area = **0.41**  
Off-site Runoff Coefficient = **0.31**  
Off-site Water Quality Volume = **707** cubic feet

Storage for Sediment = **3490**

Total Capture Volume (required water quality volume(s) x 1.20) = **20941** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.

The values for BMP Types not selected in cell C45 will show NA.

**7. Retention/Irrigation System**

Designed as Required in RG-348

Pages 3-42 to 3-46

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

Irrigation Area Calculations:

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

**8. Extended Detention Basin System**

Designed as Required in RG-348

Pages 3-46 to 3-51

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

**9. Filter area for Sand Filters**

Designed as Required in RG-348

Pages 3-58 to 3-63

**9A. Full Sedimentation and Filtration System**

Water Quality Volume for sedimentation basin = **20941** cubic feet

Minimum filter basin area = **930** square feet

Maximum sedimentation basin area = **8372** square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = **2093** square feet For maximum water depth of 8 feet

**9B. Partial Sedimentation and Filtration System**

Water Quality Volume for combined basins = **20941** cubic feet

Minimum filter basin area = **1674** square feet

Maximum sedimentation basin area = **6698** square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = **419** square feet For maximum water depth of 8 feet



Texas Commission on Environmental Quality

**TSS Removal Calculations 04-20-2009**

Project Name:

Date Prepared:

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

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**1. The Required Load Reduction for the total project:**

Calculations from RG-348

Pages 3-27 to 3-30

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

where:

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

$A_N$  = Net increase in impervious area for the project

$P$  = Average annual precipitation, inches

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

County =	Bexar	
Total project area included in plan *	10.55	acres
Predevelopment impervious area within the limits of the plan *		acres
Total post-development impervious area within the limits of the plan *	4.30	acres
Total post-development impervious cover fraction *	0.41	
P =	30	inches

$L_{M \text{ TOTAL PROJECT}}$  = 3509 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 1

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

Drainage Basin/Outfall Area No. =	1	
Total drainage basin/outfall area =	0.32	acres
Predevelopment impervious area within drainage basin/outfall area =		acres
Post-development impervious area within drainage basin/outfall area =	0.32	acres
Post-development impervious fraction within drainage basin/outfall area =	1.00	
$L_{M \text{ THIS BASIN}}$ =	261	lbs.

**3. Indicate the proposed BMP Code for this basin.**

Proposed BMP = Vegetated Filter Strips  
Removal efficiency = 85 percent

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

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

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

where:

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

$A_i$  = Impervious area proposed in the BMP catchment area

$A_p$  = Pervious area remaining in the BMP catchment area

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

$A_C$  = 0.32 acres  
 $A_i$  = 0.32 acres  
 $A_p$  = 0.00 acres  
 $L_R$  = 282 lbs





**5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area**Desired  $L_M$  THIS BASIN = 261 lbs.

F = 0.92

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

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = 2.00 inches  
Post Development Runoff Coefficient = 0.82  
On-site Water Quality Volume = 1896 cubic feet

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

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

Storage for Sediment = 379

Total Capture Volume (required water quality volume(s) x 1.20) = 2276 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.

The values for BMP Types not selected in cell C45 will show NA.

**7. Retention/Irrigation System**

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

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

**8. Extended Detention Basin System**

Designed as Required in RG-348

Pages 3-46 to 3-51

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

**9. Filter area for Sand Filters**

Designed as Required in RG-348

Pages 3-58 to 3-63

**9A. Full Sedimentation and Filtration System**

Water Quality Volume for sedimentation basin = NA cubic feet

Minimum filter basin area = NA square feet

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

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

**9B. Partial Sedimentation and Filtration System**

Water Quality Volume for combined basins = NA cubic feet

Minimum filter basin area = NA square feet

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

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



## **ATTACHMENT L**

### **BMP's FOR SURFACE STREAMS**

There are no surface streams on the project site. Permanent and temporary BMPs, as shown on the Site Plan, will be used to minimize sediments leaving the site and flowing into off-site surface streams during and after construction.

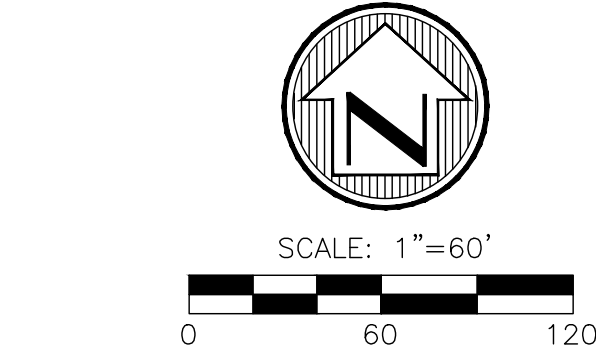


## **ATTACHMENT P**

### **MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION**

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





- LEGEND**
- PROPERTY LINE
  - EXISTING CONTOUR
  - SILT FENCE
  - BAGGED GRAVEL INLET FILTER
  - RUBBERIZED PLAYGROUND SURFACE
  - NEW CONCRETE SIDEWALK/FLATWORK
  - ARTIFICIAL TURF PLAY AREA

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
CONTRIBUTING ZONE PLAN  
GENERAL CONSTRUCTION NOTES**

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

Austin Regional Office  
12100 Park 28 Circle, Building A  
Austin, Texas 78753-1908  
Phone (512) 339-2929  
Fax (512) 339-2766

San Antonio Regional Office  
14250 Jurine Road  
San Antonio, Texas 78233-4480  
Phone (210) 498-3096  
Fax (210) 545-4320

**GENERAL NOTES:**

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

REVISIONS		NO.	DATE	DESCRIPTION	BY

PROJECT #	DATE	BY	DATE

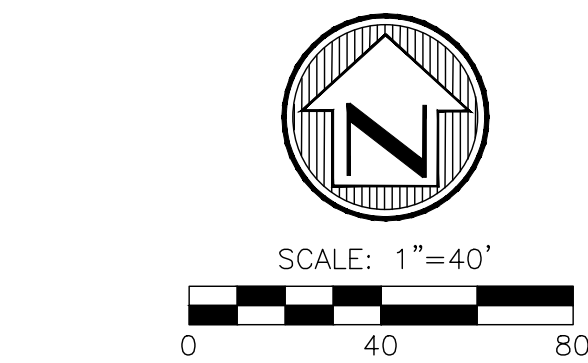
**Engineers**  
**Surveyors**  
**Planners**

**MIR**  
**Moy Tatin Ramirez Engineers, LLC**  
TPEELS: ENGINEERING F-5297/SURVEYING F-0115100  
12770 CHAMBERLAIN PATH, SUITE 100  
SAN ANTONIO, TEXAS 78249  
TEL: (210) 698-5051  
FAX: (210) 698-5065












**PLAYGROUND UPGRADES - PACKAGE C - GROUP 6**  
**TIMBERWOOD PARK ELEMENTARY SCHOOL**  
**CONTRIBUTING ZONE PLAN / STORM WATER POLLUTION PREVENTION PLAN**





- ### LEGEND

  -  PROPERTY LINE
  -  EXISTING CONTOUR
  -  SILT FENCE
  -  BAGGED GRAVEL INLET FILTER
  -  RUBBERIZED PLAYGROUND SURFACE
  -  NEW CONCRETE SIDEWALK/FLATWORK
  -  ARTIFICIAL TURF PLAY AREA
  -  NEW ASPHALT PAVEMENT
  -  SOLID SOD

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
CONTRIBUTING ZONE PLAN  
GENERAL CONSTRUCTION NOTES

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY SIGNIFICANT DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
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  - THE ACTIVITY START DATE; AND
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7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY, LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION MEASURES SHALL BE INITIATED AS EARLY AS POSSIBLE PRIOR TO THE 14 DAY OR INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14 DAY STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
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  - ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER, OR
  - ANY CHANGE OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

Austin Regional Office	San Antonio Regional Office
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Austin, Texas 78753-1808	San Antonio, Texas 78233-4480
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Fax (512) 339-3795	Fax (210) 545-4329

GENERAL NOTES:

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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, SIDEWALKS, GRASS SOG, GRASS SEEDING AND MULCH.
6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.

[illegible]

**MTR**

- Engineers
- Surveyors
- Planners

**Moy Tarin Ramirez Engineering, LLC**  
TBPCL: ENGINEERING F-5287/SURVEYING F-101.31500  
TEL: (210) 698-5051  
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SAN ANTONIO, TEXAS 78249



PLAYGROUND UPGRADES - PACKAGE C - GROUP 6  
TIMBERWOOD PARK ELEMENTARY SCHOOL

# CONTRIBUTING ZONE PLAN / STORM WATER POLLUTION PREVENTION PLAN

SHEET

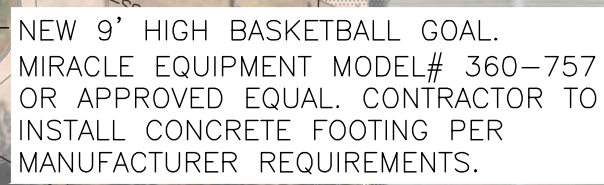
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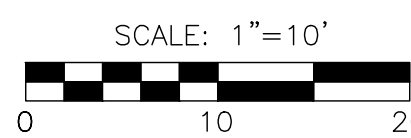
THE PAVEMENT MARKING PAINT TO BE USED ON THIS PROJECT WILL BE GORILLA PAINT. THE PAVEMENT MARKING PAINT SHALL BE WHITE OR APPROVED EQUAL. WHITE PAINT 22W-008 AND LEAD-FREE YELLOW 22Y-006.

**SURFACE PREPARATION:** SURFACES WILL BE CLEAN, DRY AND FREE FROM LOOSE OR PEELING SURFACES. DO NOT APPLY WHEN AIR TEMPERATURES ARE BELOW 50°F (6°C). SURFACES SHOULD BE DRY FOR 24 HOURS AFTER RAIN OR OTHER PRECIPITATION BEFORE THE BELOW. IT IS RECOMMENDED TO PLACE AN INCONSPICUOUS TEST PATCH TO DETERMINE THE DRYING TIME OF THE PAINT. WAIT 24 HOURS AFTER A RAIN TO PAINT ASPHALT SURFACES.


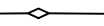






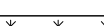

**APPLICATION RATES:** APPLY PAINT AT FILM THICKNESS AND SPREADING RATE AS FOLLOWS: 1.00 LBS. PER 100 SQ. YDS. FOR WHITE PAINT AND 1.50 LBS. PER 100 SQ. YDS. FOR YELLOW PAINT. SURFACES SHALL BE PAINTED WITH TWO (2) COATS OF 15.0 MILS. WET, 8.0 MILS. DRY. THE FIRST COAT SHALL BE APPLIED TO THE SURFACE AND ALLOWED TO DRY FOR A MINIMUM OF 10 DAYS BEFORE THE ASPHALT PLACEMENT AND THE PERMANENT TRAFFIC STRIPING AND MARKINGS.

IF 10 DAYS CANNOT BE ACHIEVED CONTRACTOR TO PROVIDE TWO (2) ADDITIONAL COATS OF PAINT. THE SECOND COAT SHALL BE APPLIED TO THE SURFACE AND ALLOWED TO DRY FOR A MINIMUM OF 10 DAYS AFTER ASPHALT PLACEMENT. ALL ADDITIONAL COATS ARE TO BE COORDINATED WITH THE OWNER AND WILL NOT DISRUPT TRAFFIC.





802.97+	EXISTING SPOT ELEVATION
<b>XXX.XX</b> +	PROPOSED ELEVATION
TC	TOP OF CURB ELEVATION
NG	NATURAL GROUND ELEVATION
INV	INVERT ELEVATION
TOG	TOP OF GRATE ELEVATION
TOC	TOP OF CONCRETE ELEVATION
TOB	TOP OF COMPACTED BASE ELEVATION

	NEW CONTOUR
	EXISTING CONTOUR
	CHAINLINK FENCE
	DRAINAGE FLOW ARROW
	EQUIPMENT FALL ZONE AREA (TYP.)
	SOLID SOD AREA
	POURED-IN-PLACE RUBBER
	SYNTHETIC TURF
	NEW CONCRETE FLATWORK
	NEW CONCRETE RIPRAP

- 1 NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE SECTION DETAIL NO. 5, SHEET C5.0.
- 2 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 5, SHEET C5.0.
- 3 EXISTING CONCRETE SIDEWALK/FLATWORK/STRUCTURAL CONCRETE TO REMAIN IN PLACE.
- 4 NEW SYNTHETIC TURF PLAYGROUND SECTION. REFERENCE DETAIL NO. 1, SHEET C5.1.
- 5 NEW POURED-IN-PLACE RUBBER PLAYGROUND SECTION. REFERENCE DETAIL NO. 2, SHEET C5.2.
- 6 NEW PLAYGROUND EQUIPMENT. CONTRACTOR TO INSTALL PLAYGROUND EQUIPMENT PER MANUFACTURING REQUIREMENTS.
- 7 NEW SHADE STRUCTURE. REFERENCE SPECIFICATIONS. REFERENCE DIMENSIONAL CONTROL PLANS FOR DIMENSIONS.
- 8 NEW DUAL FOUNDATION CANTILEVER SHADE STRUCTURE. REFERENCE SPECIFICATIONS.
- 9 CONTRACTOR TO GRADE AREA TO DRAIN.
- 10 NEW SOLID SOD. REFERENCE LANDSCAPING NOTES.
- 11 NEW 6" PERFORATED PIPE. REFERENCE DETAIL NO. 1, SHEET C5.1.
- 12 NEW SDR26 2" PVC DRAINAGE PIPE. REFERENCE SIZE, LENGTH AND INVERT ELEVATIONS SHOWN ON PLAN.
- 13 NEW CLEANDORT. REFERENCE DETAIL NO. 4, SHEET C5.0.
- 14 CONTRACTOR TO PROVIDE SANITARY WYE BEND CONNECTION.
- 15 CONTRACTOR TO PROVIDE MANUFACTURED BEND.
- 16 EXISTING CHAIN-LINK FENCE TO REMAIN IN PLACE. CONTRACTOR TO REMOVE AND REPLACE AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
- 17 NEW 6" CHAIN-LINK FENCING. REFERENCE DETAIL NO. 2, SHEET C5.2.
- 18 NEW CONCRETE HEADER (FLUSH) CURB.
- 19 CONTRACTOR TO PROVIDE THICKENED EDGE. REFERENCE DETAIL NO. 5E, SHEET C5.0.
- 20 EXISTING GRASS INLET TO REMAIN IN PLACE. CONTRACTOR TO ADJUST LID TO FINISH GRADE.
- 21 NEW LOCATION OF RELOCATED GASS PIT.
- 22 CONTRACTOR TO SEAL LINER AROUND PIPE AND TRANSITION TO SOLID PIPE. SEAL PER MANUFACTURER REQUIREMENTS.
- 23 NEW .5" J-DRAIN MWP-12 12" FLAT DRAIN (NO FILTER SOCK) OR APPROVED EQUIV.
- 24 NEW CHAIN-LINK FENCE TO MATCH EXISTING. CONTRACTOR TO PROVIDE TERMINAL POST AT JUNCTURE.
- 25 CONCRETE RAMP AT 12:1 MAX. SLOPE. CONTRACTOR TO PROVIDE ADJUSTABLE CURB ON INSIDE OF RAMP. RAISLS TO EXTEND 1'-0" MIN BEYOND LIMITS OF RAMP. SPECIFY RAMP LENGTH AND SPOUT ELEVATION. REFERENCE MANUFACTURING DETAIL NO. 11, SHEET C5.0 AND SECTION DETAIL NO. 6, SHEET C5.0.
- 26 NEW 9' HIGH BASKETBALL GOAL. MIRACLE EQUIPMENT MODEL# 360-757 OR EQUIV. CONTRACTOR TO INSTALL CONCRETE FOOTING PER MANUFACTURER REQUIREMENTS.
- 27 CONTRACTOR TO CLEAN EXISTING WATER QUALITY BASIN. CONTRACTOR TO REMOVE AND REPLACE EXISTING SAND FILTER MATERIAL.
- 28 NEW CONCRETE WATER QUALITY BASIN. REFERENCE WATER QUALITY BASIN SECTION DETAIL NO. 2, SHEET C5.0.

MATCHLINE ~ SEE SHEET C4.2

PLAYGROUND UPGRADES - PACKAGE C - GROUP 6  
TIMBERWOOD PARK ELEMENTARY SCHOOL  
SITE GRADING AND DRAINAGE PLAN

SHEET  
C4.1

[illegible]

**MTR**

- Engineers
- Surveyors
- Planners

***Moy Tarin Ramirez Engineers, LLC***

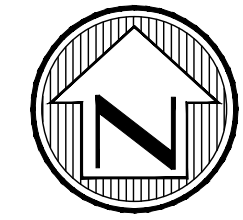
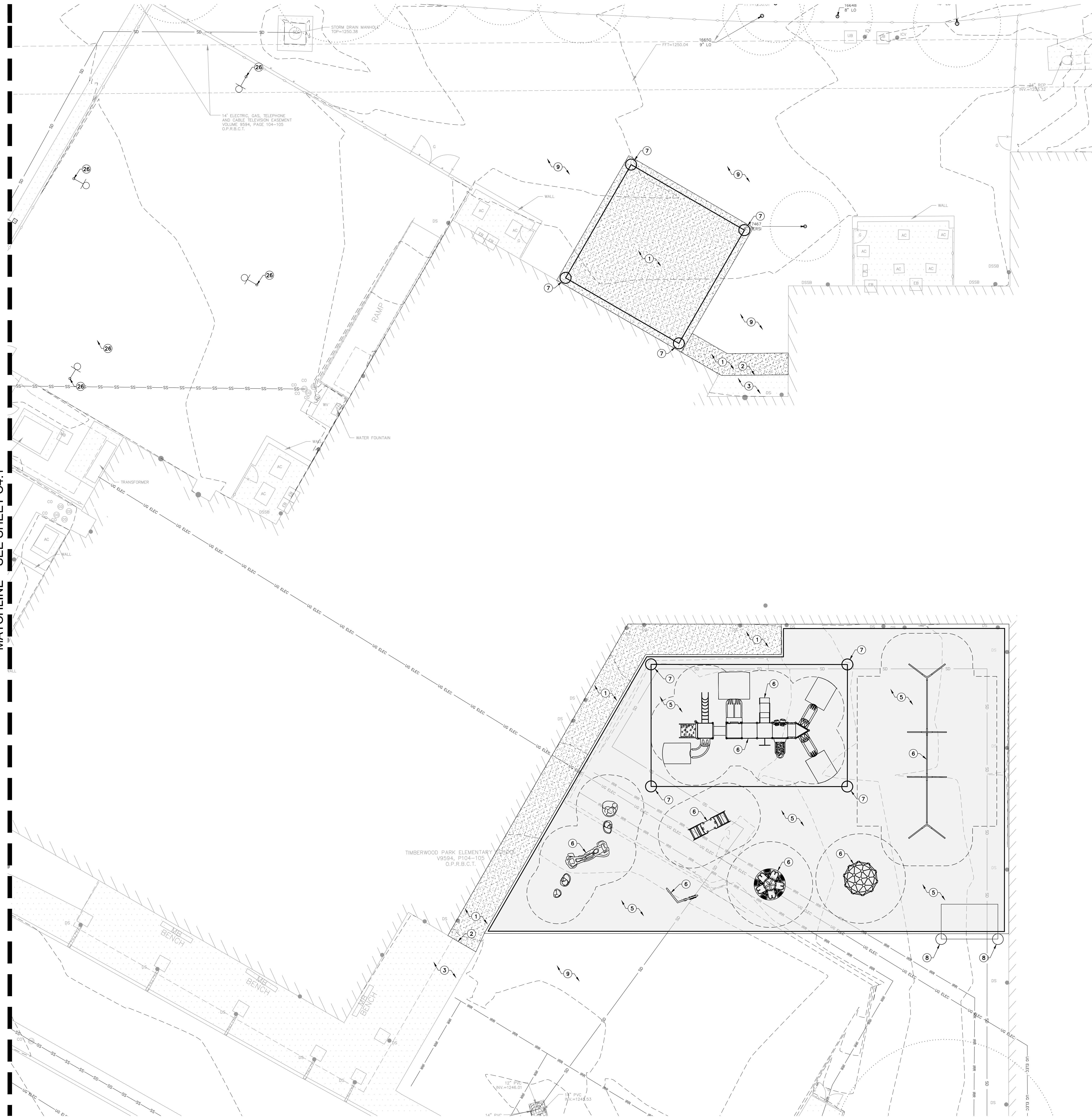
TELEPHONE: ENGINEERING F-5287/SURVEYING F-10131500  
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12770 CHARRON PATH, SUITE 100  
SAN ANTONIO, TEXAS 78249



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MATCHLINE ~ SEE SHEET C4.1



LEGEND

- |                                 |                                 |
|---------------------------------|---------------------------------|
| SDZ 97+                         | EXISTING SPOT ELEVATION         |
| XXXXXX                          | PROPOSED ELEVATION              |
| TC                              | TOP OF CURB ELEVATION           |
| NG                              | NATURAL GROUND ELEVATION        |
| INV                             | INVERT ELEVATION                |
| TOG                             | TOP OF GRATE ELEVATION          |
| TOC                             | TOP OF CONCRETE ELEVATION       |
| TOB                             | TOP OF COMPACTED BASE ELEVATION |
| 1004                            | NEW CONTOUR                     |
| 1004                            | EXISTING CONTOUR                |
| CHAINLINK FENCE                 | CHAINLINK FENCE                 |
| DRAINAGE FLOW ARROW             | DRAINAGE FLOW ARROW             |
| EQUIPMENT FALL ZONE AREA (TYP.) | EQUIPMENT FALL ZONE AREA (TYP.) |
| SOLID SOD AREA                  | SOLID SOD AREA                  |
| POURED-IN-PLACE RUBBER          | POURED-IN-PLACE RUBBER          |
| SYNTHETIC TURF                  | SYNTHETIC TURF                  |
| NEW CONCRETE FLATWORK           | NEW CONCRETE FLATWORK           |
| NEW CONCRETE RIPRAP             | NEW CONCRETE RIPRAP             |

SITE GRADING/DRAINAGE KEYNOTES:

- NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE SECTION DETAIL NO. 5, SHEET C5.0.
- NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 5, SHEET C5.0.
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PLAYGROUND UPGRADES - PACKAGE C - GROUP 6  
TIMBERWOOD PARK ELEMENTARY SCHOOL  
SITE GRADING AND DRAINAGE PLAN

NO.	DATE	DESCRIPTION	BY
1	08/11/2023	REVISED PER ADDENDUM #1	

Engineers  
Surveyors  
Planners  
**MTR**  
Moy Tarin Ramirez Engineers, LLC  
TEPELS: ENGINEERING F-5297/SURVEYING F-1011500  
12770 CHARRON PATH, SUITE 100  
SAN ANTONIO, TEXAS 78249  
TEL: (210) 698-5051  
FAX: (210) 698-5065



SHEET  
C4.2

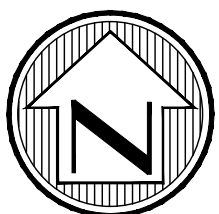
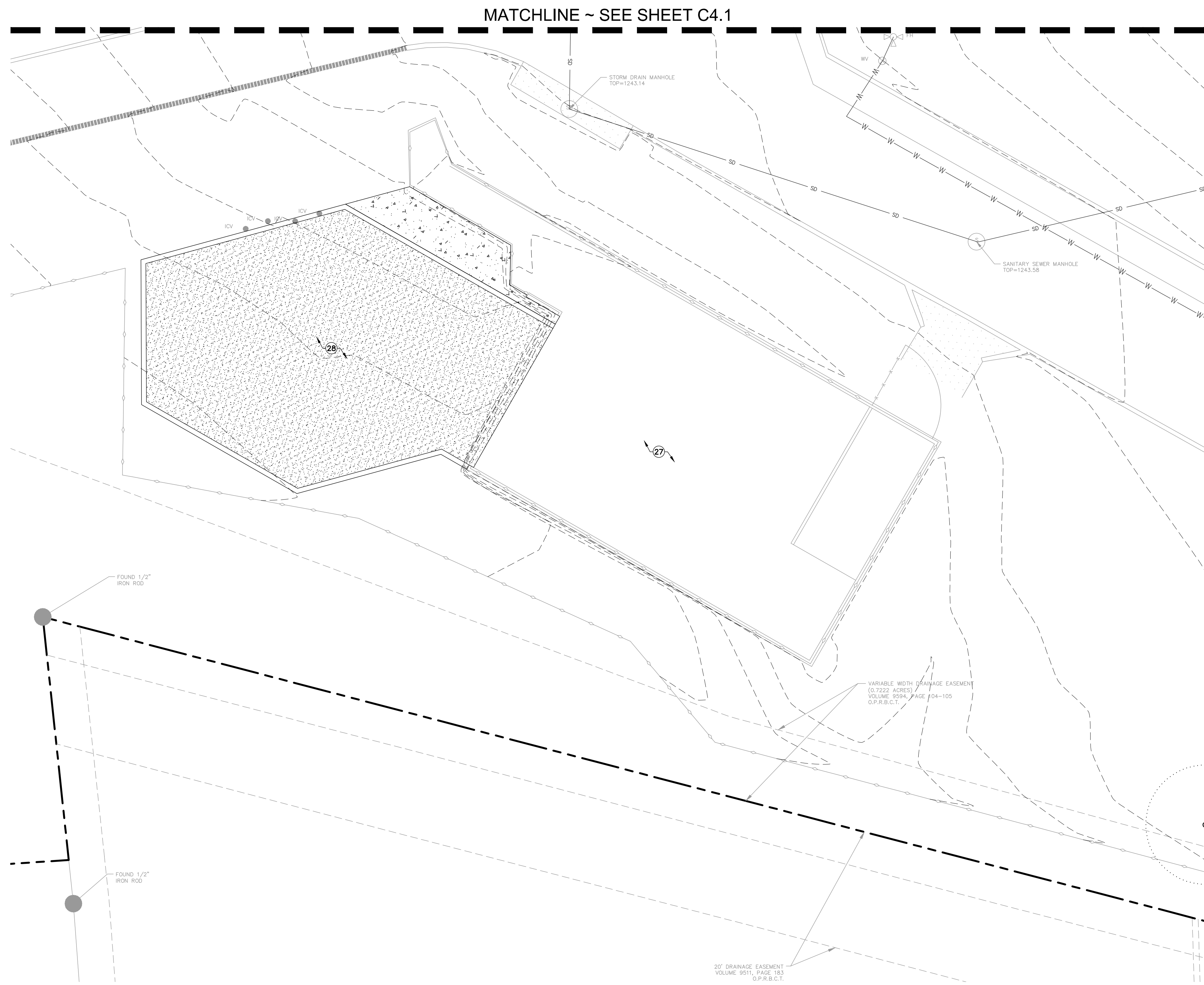


WEIR CALCULATION

$$Q_{25} = CLH^{3/2}$$
$$L = \frac{Q_{25}}{CH^{3/2}}$$
$$L = 38.44 \text{ CFS} / (3.087 \times 1.50^{3/2})$$
$$L = 6.78 \text{ FT REQUIRED}$$
$$12.00 \text{ FT PROVIDED}$$

POND PARAMETERS

REQUIRED CAPTURE VOLUME = 20,941 CF  
DESIGN CAPTURE VOLUME = 24,749 CF  
REQUIRED SAND FILTER AREA = 2,093 SF  
DESIGN SAND FILTER AREA = 2,390 SF



SCALE: 1"=10'

LEGEND

- 802.97+ EXISTING SPOT ELEVATION  
XXX.XX+ PROPOSED ELEVATION  
TO TOP OF CURB ELEVATION  
NG TOP OF NATURAL GROUND ELEVATION  
INV INVERT ELEVATION  
TOG TOP OF GRATE ELEVATION  
TOC TOP OF CONCRETE ELEVATION  
TOB TOP OF COMPACTED BASE ELEVATION  
1004 NEW CONTOUR  
1004 EXISTING CONTOUR  
CHAINLINK FENCE  
DRAINAGE FLOW ARROW  
EQUIPMENT FALL ZONE AREA (TYP.)  
SOLID SOD AREA  
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PLAYGROUND UPGRADES - PACKAGE C - GROUP 6  
TIMBERWOOD PARK ELEMENTARY SCHOOL  
SITE GRADING AND DRAINAGE PLAN

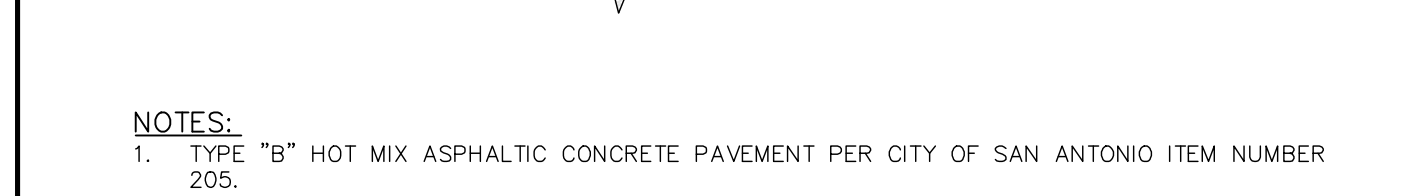
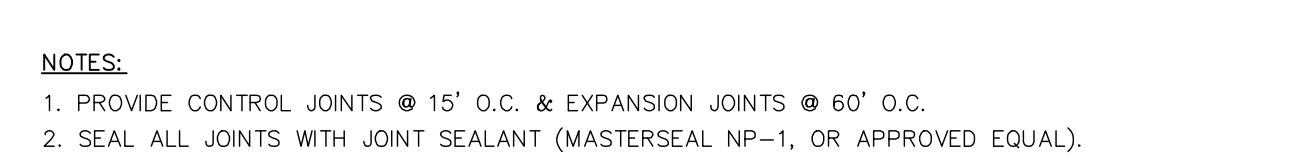
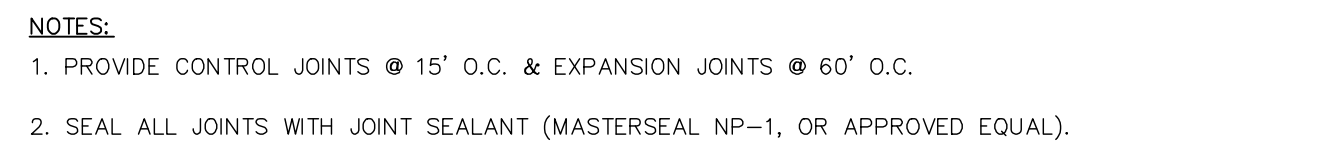
Engineers  
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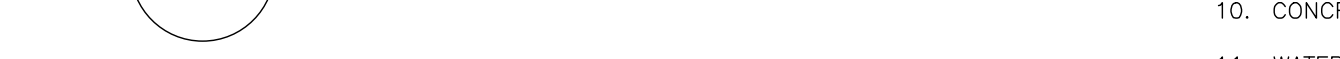
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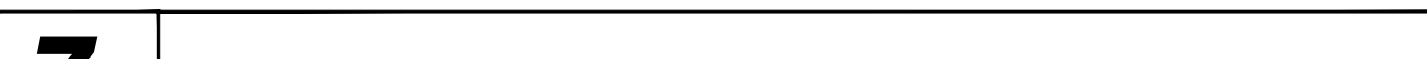


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1. GENERAL NOTES FOR CONCRETE SIDEWALKS:
2. ALL SIDEWALKS SHALL BE A MINIMUM 3000 PSI CONCRETE WITH NO. 3 BARS AT 12" INCHES ON CENTER.
3. SLOPE SIDEWALKS AWAY FROM BLDG. AS INDICATED ON DRAWINGS OR AT 2% MAX.
4. PROVIDE SIDEWALK WITH A HORIZONTAL (CROSS) BRUSH FINISH ON ALL SURFACES.
5. GROOVE CONTRACTION JOINTS SHALL BE SPACED 5 FT. ON CENTERS, WITH 1/2" ELECTROMETRIC EXPANSION JOINTS AT EVERY 10 FT.
6. PROVIDE A 1/2" ELECTROMETRIC EXPANSION JOINT ALONG NEW BUILDING BETWEEN ALL NEW SIDEWALK. SEAL WITH NPI JOINT SEALANT.
7. ALL BASE MATERIAL UNDER SIDEWALKS TO BE MOISTURE CONTROLLED AND COMPACTED.
8. MAINTAIN 2" OF CLEAR COVER BETWEEN REINFORCING STEEL AND EDGE OF CONCRETE
9. ALL DOWEL BARS SHALL BE SMOOTH AND ALL REINFORCING BARS SHALL BE DEFORMED "REBAR" BOTH DOWELS AND REBAR SHALL BE AT A MINIMUM GRADE 60.
10. CONTRACTOR SHALL SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE.
11. CONCRETE FLATWORK 3,000 PSI SLUMP = 4.0"  $\pm$  1.0".
12. WATER TO CEMENT RATIO (LBS/LBS) CANNOT EXCEED 0.50.

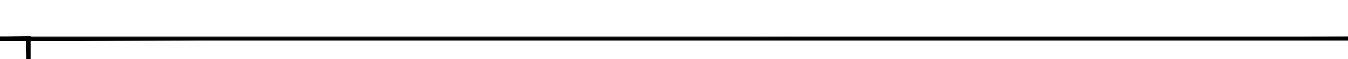
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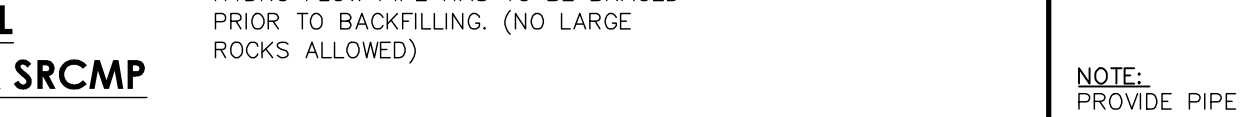


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SCALE: NONE	
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SCALE: NONE **SWALE DETAIL**



SCALE: NONE

SCALE: NONE

- Engineers
- Surveyors
- Planners

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**neers, LLC**  
 NG F-10131500  
 : (210) 698-5051  
 FAX: (210) 698-5085

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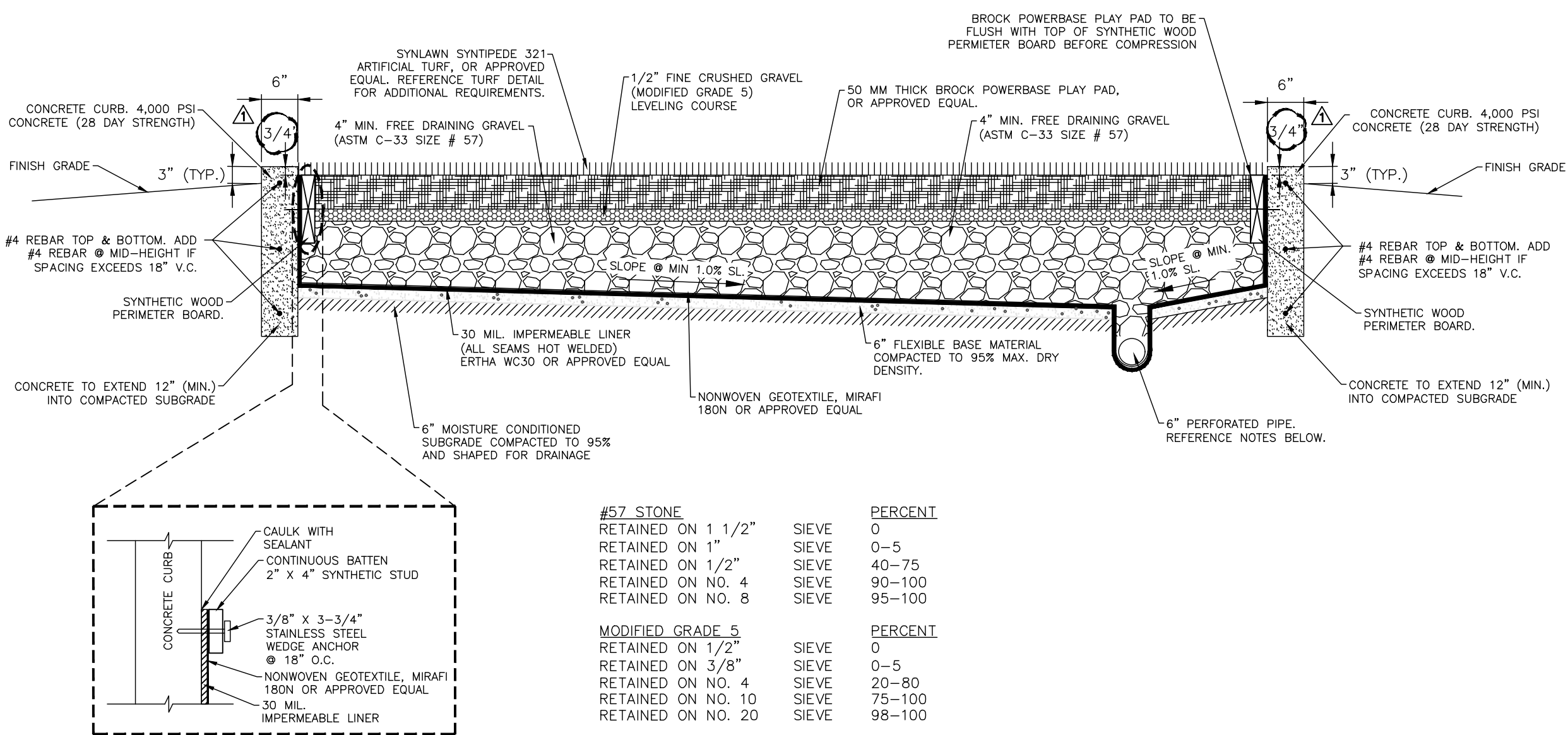
ND UPGR  
WOOD PA

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SHEET  
C5.0

— 100 —





- NOTE:
1. SYNTHETIC TURF AND FALL ZONE PROTECTION TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS BY FACTORY AUTHORIZED INSTALLER.
  2. TURF AND FALL PROTECTION SYSTEM SHALL BE CAPABLE OF DRAINING AT A RATE OF 5 IN/HR MINIMUM.
  3. IMPERMEABLE LINER SEAMS SHALL BE THERMALLY FUSED DUAL TRACK WELDED AND SHALL BE AIR CHANNEL TESTED ALONG ITS ENTIRE LENGTH PER MANUFACTURER RECOMMENDATIONS. GLUING OF LINER SEAMS IS NOT AN ACCEPTABLE ALTERNATIVE.
  4. 6\"/>
  5. TOP OF BROCK POWERBASE PLAY PAD TO BE INSTALLED FLUSH WITH THE TOP OF THE SYNTHETIC WOOD PERIMETER BOARD BEFORE COMPRESSION.

#57 STONE		PERCENT
RETAINED ON 1 1/2"	SIEVE	0
RETAINED ON 1"	SIEVE	0-5
RETAINED ON 1/2"	SIEVE	40-75
RETAINED ON NO. 4	SIEVE	90-100
RETAINED ON NO. 8	SIEVE	95-100

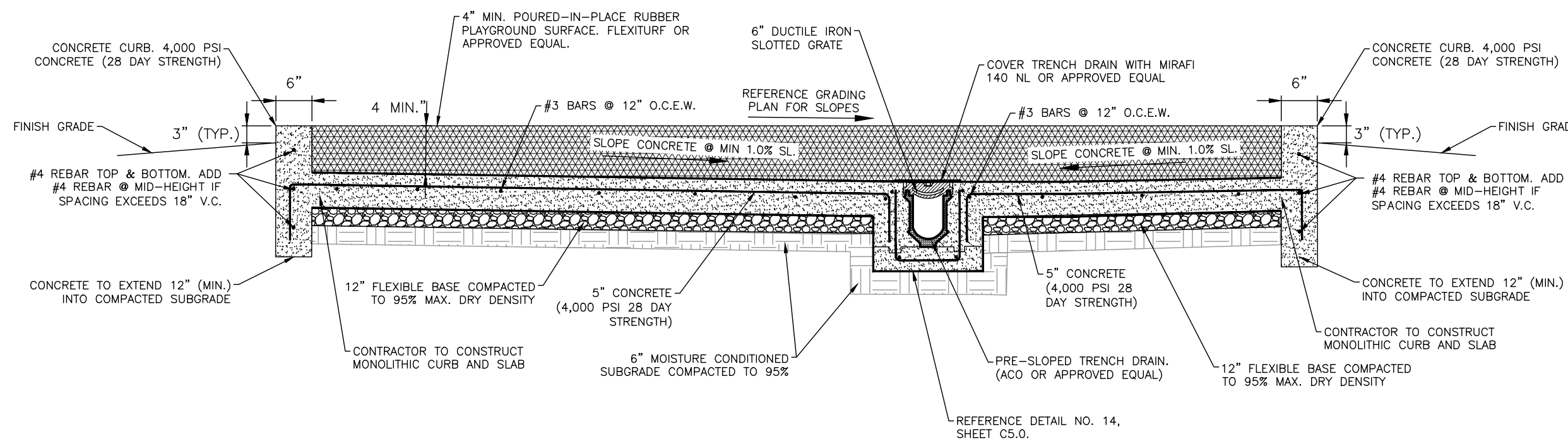
MODIFIED GRADE 5		PERCENT
RETAINED ON 1/2"	SIEVE	0
RETAINED ON 3/8"	SIEVE	0-5
RETAINED ON NO. 4	SIEVE	20-80
RETAINED ON NO. 10	SIEVE	75-100
RETAINED ON NO. 20	SIEVE	98-100

### TURF SPECIFICATION

Product SKU:	ST321
Grass Zone Yarn/Color:	Polyethylene/Field/Appalo
Grass Zone Denier:	5000/6
Thatch Zone Yarn/Color:	Polyethylene/Turf Green
Thatch Zone Denier:	5040/2
Grass Zone Yarn Shape:	Omega
Finished Pile Height:	1.5/8\"/>
Finished Pile Weight:	80 oz.
Backing: Primary	2-part 13/18 6 oz. PP - Secondary
Tuft Gauge:	3/8\"/>
Total Weight:	105 oz.
Tuft Area:	>8 sq. ft.
Fall Rating:	30 feet
Permeability:	>45 inches per /5Y
Features:	Deluster, UV Stabilizers, EnviroLoc™, HeartBlock™, Plant-Based
Test Data:	ASTM E648, ASTM F1292, ASTM F955, 78 Test, Critical Radiant Flux

### PowerBase PLAY – Typical Properties

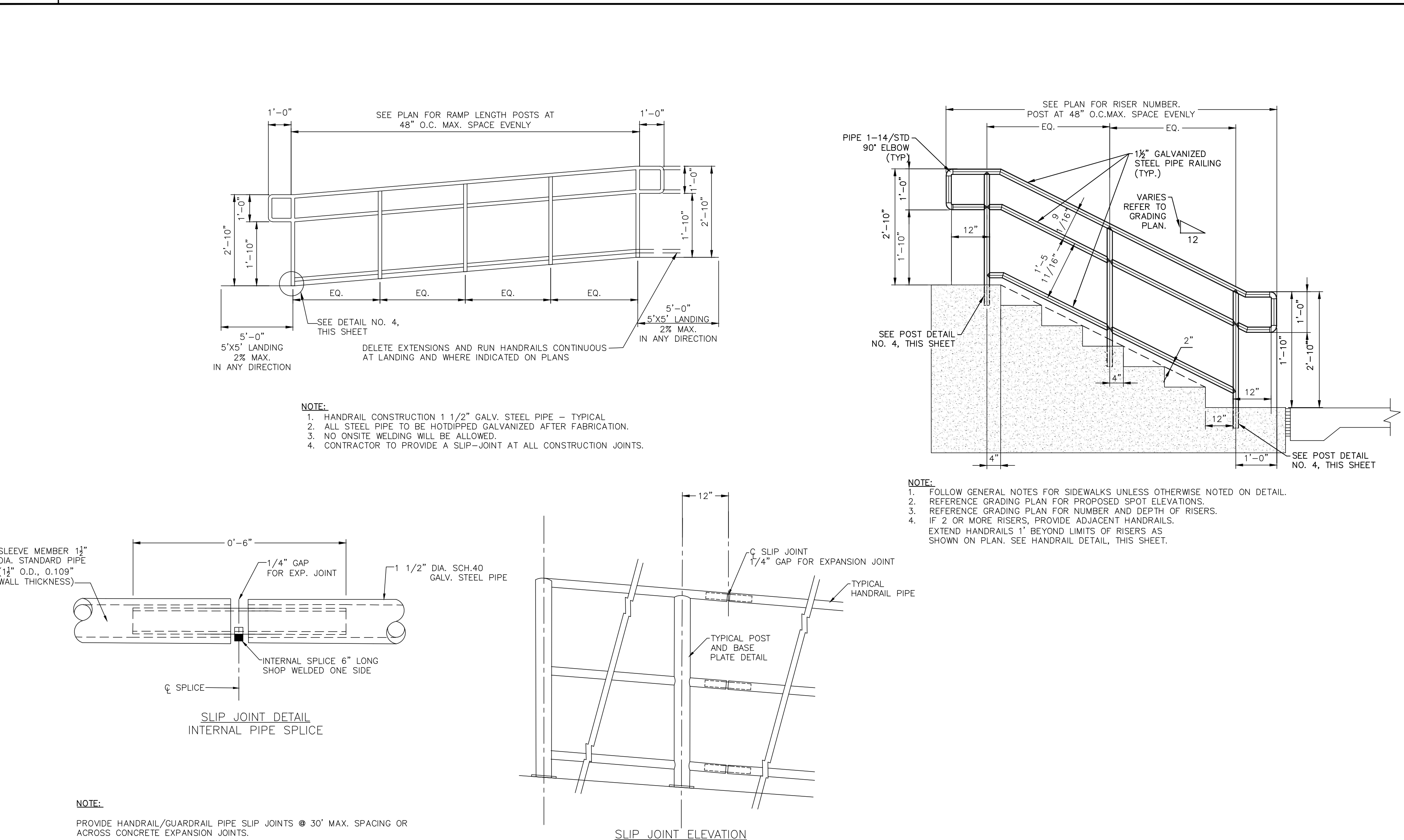
Product Number	PLB50	
Material Type	Expanded Polypropylene	
Product Format	Edge locking panel	
Product Thickness	1.97 in (50 mm)	
Part Size, nominal net coverage	16.89 sq ft (1.57 sq m)	
Panel Length	59.8 in (1.52 m)	
Panel Width	40.7 in (1.03 m)	
Panel Weight	4.0 lbs (1.8 kg)	
Tensile Strength <sup>1</sup>	0.41 MPa - 58 psi	ASTM D3574-08 Test E
Tensile Elongation <sup>2</sup>	15%	ASTM D3574-08 Test E
Compression Strength <sup>3</sup> @ 25% strain @ 50% strain	0.18 MPa - 26 psi 0.27 MPa - 39 psi	ASTM 3575-08 Test D
Vertical Permeability <sup>4</sup>	> 250 in/hr	ASTM F1551
Water Absorption <sup>5</sup> After 24 hrs immersion	0.81%	ASTM C272
Dimensional Stability – Linear Thermal Expansion <sup>6</sup> per 1° C per 20° C	0.08 mm/m 1.65 mm/m	ASTM D698
Flammability <sup>7</sup>	< 100 mm/min. PASS	FMVSS 302
Resistance to Chemicals <sup>8</sup>	1/2	JSP Method based on ASTM F625
Resistance to Acid and Alkaline Liquids <sup>9</sup> % tensile strength loss - 100 yr Model	0% after 12 days	EN 14030:2010 ISO 12960:1998
Resistance to Oxidation (Accelerated Aging) <sup>10</sup> % tensile strength loss - 100 yr Model	0% after 56 days @ 110°C	ISO 13438:2004
Microbiological Analysis		
bacteria resistance <sup>11</sup>	no growth	ASTM G22-76
fungi resistance <sup>12</sup>	no growth	ASTM G21-96
Environmental Standards Testing		
Cradle to Cradle <sup>13</sup>	Certified	Cradle to Cradle Products Innovation Institute EPA 90108, 7470A, 7471A EPA 82808 EPA 8270C
Heavy Metals / Mercury <sup>14</sup>	Compliant to EPA human health standards, surface water quality, groundwater quality	
VOC's <sup>14</sup>	Compliant	
SVOC's <sup>14</sup>	Compliant	
CCR Title 22 <sup>15</sup>	Compliant	
COEHIA Proposition 65 <sup>15</sup>	Compliant	



- GENERAL NOTES:
1. PROVIDE CONCRETE WITH A HORIZONTAL (CROSS) BRUSH FINISH ON ALL SURFACES.
  2. PROVIDE A 1/4\"/>
  3. ALL BASE MATERIAL UNDER SIDEWALKS TO BE MOISTURE CONDITIONED AND COMPACTED.
  4. MAINTAIN 2\"/>
  5. ALL DOWEL BARS SHALL BE SMOOTH AND ALL REINFORCING BARS SHALL BE DEFORMED "REBAR" BOTH DOWELS AND REBAR SHALL BE AT A MINIMUM GRADE 60.
  6. CONTRACTOR SHALL SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE.
  7. CONCRETE FLATWORK 4,000 PSI. SLUMP = 4.0\"/>
  8. WATER TO CEMENT RATIO (LBS/LBS) CANNOT EXCEED 0.50.
  9. AT TRENCH DRAIN, RUBBER WILL BE DEEPER THAN MINIMUM 4\"/>

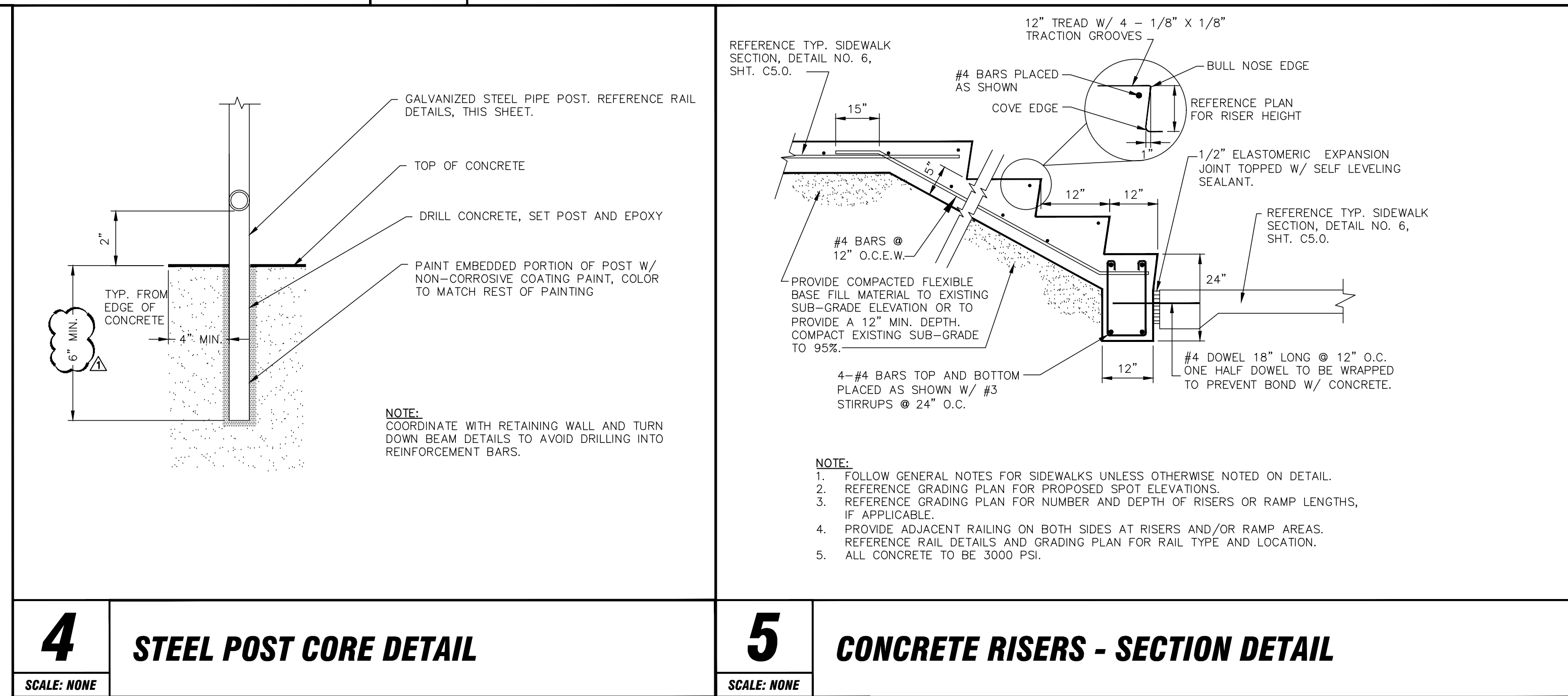
## 1 SYNTHETIC PLAYGROUND TURF SECTION

SCALE: NONE



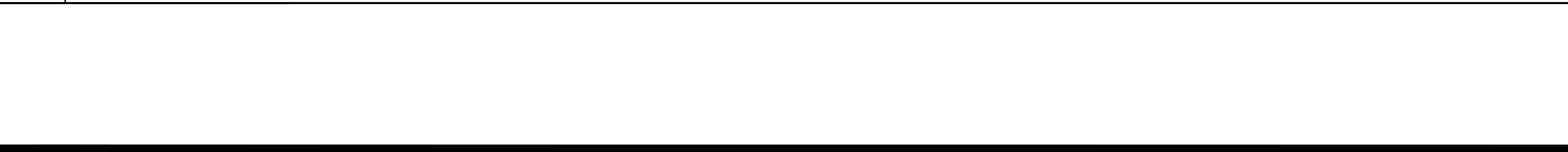
## 2 POURED-IN-PLACE RUBBER SECTION

SCALE: NONE



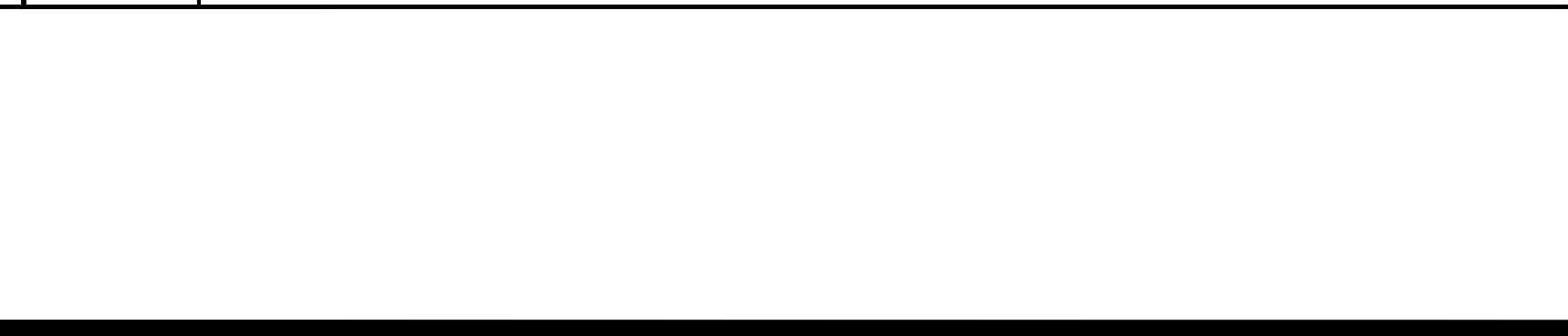
## 3 TYPICAL RAIL AT RAMP AND CONCRETE STEPS WITH SLIP JOINT DETAIL

SCALE: NONE



## 6 SECTION DETAIL

SCALE: NONE



REVISIONS

NO.	DATE	DESCRIPTION
1	10/22/2023	REVISED PER ADDENDUM #3

BY

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PROJ. #

CDN. #

WM. #

SWGE. #

DATE

Engineers

Surveyors

Planners

MIR

Moy Tarin Ramirez Engineers, LLC

TEPBL: ENGINEERING F-5297/SURVEYING F-10115000

12770 CHARRON PATH, SUITE 100

SAN ANTONIO, TEXAS 78249

TEL: (210) 696-5051

FAX: (210) 696-5065

SEAL OF TEXAS

SEAN S. SMITH

113308

REGISTERED PROFESSIONAL ENGINEER

6/17/24



## ATTACHMENT N

### INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

#### DRAINAGE BASINS

- Monthly: The vegetative growth in the basin shall be checked. The growth shall not exceed 18 inches in height.
- Quarterly: The level of accumulated silt shall be checked. If depth of silt exceeds 6 inches, it shall be removed and disposed of “properly” and in an “approved” location.
- The basin shall be checked for accumulation of debris and trash. The debris and trash shall be removed if excessive. All debris and trash shall be removed at least every six months.
- Annually: The basin shall be inspected for structural integrity and repaired if necessary.
- After Rainfall: The basin shall be checked after each rainfall occurrence to ensure that it drains within 24 hours after the storm is over. If it does not drain within this time, corrective maintenance will be accomplished.

“Proper” disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality and Comal County guidelines and specifications.

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

#### ENGINEERED VEGETATIVE FILTER STRIPS

Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Once established, all



vegetated BMPs require some basic maintenance to ensure the health of the plants including:

- Pest Management. An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.
- Seasonal Mowing and Lawn Care. If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower (or removal of clippings). If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.
- Inspection. Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.
- Debris and Litter Removal. Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e., level spreaders) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than 4 times per year.
- Sediment Removal. Sediment removal is not normally required in filter strips, since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.
- Grass Reseeding and Mulching. A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Corrective maintenance, such as



weeding or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established.



## RECORD KEEPING

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

Malcolm Mulvaney  
Print Name

M. Mulvaney  
Signature of Applicant/Owner/Agent

6/5/2024  
Date



# Temporary Stormwater Section

## Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

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

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

## Signature

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

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

Date: 6/17/24

Signature of Customer/Agent:



Regulated Entity Name: CISD TIMBERWOOD PARK ELEMENTARY

## Project Information

### Potential Sources of Contamination

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

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

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

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

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



- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

### ***Sequence of Construction***

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

### ***Temporary Best Management Practices (TBMPs)***

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

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



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



- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

## ***Soil Stabilization Practices***

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

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



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

### ***Administrative Information***

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



## **ATTACHMENT A**

### **SPILL RESPONSE ACTIONS**

#### **1. Housekeeping**

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

#### **2. Product Specific Practices**

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



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

### 3. Spill Control and Response Measures

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

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

#### **Cleanup**

- (1) Clean up leaks and spills immediately
- (2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- (3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in TCEQ Technical Guidance Manual RG-348 for specific information.

#### **Minor Spills**

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



(7) Clean the contaminated area and properly dispose of contaminated materials.

### **Semi-Significant Spills**

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

Spills should be cleaned up immediately:

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

### **Significant/Hazardous Spills**

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- (5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

#### **D. Vehicle and Equipment Maintenance**

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.



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

E. Vehicle and Equipment Fueling

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

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

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

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



**ATTACHMENT B**  
**POTENTIAL SOURCES OF CONTAMINATION**

<b>Potential Source</b>	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.
<b>Potential Source</b>	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.
<b>Potential Source</b>	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.
<b>Potential Source</b>	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.
<b>Potential Source</b>	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.
<b>Potential Source</b>	Sediment from soil, sand, gravel and excavated materials stockpiled on site.
Preventive Measure	Silt fence shall be installed on the downgradient side of all stockpiled materials. Reinforced rock berms shall be installed at all downstream discharge locations.



**ATTACHMENT C**  
**SEQUENCE OF MAJOR ACTIVITIES**

Construction Sequencing

- A. Installation of temporary BMPs as shown on the CZP Site Plan. Silt fence will be placed along the down gradient boundary.
- B. Demolition and grading.
- C. Seeding and soil stabilization.



## **ATTACHMENT D**

### **TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES**

#### Description of Temporary Best Management Practices:

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

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

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

#### Up gradient storm water flowing across the site:

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

#### Onsite storm water flowing across and off the site:

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

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

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

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

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



## **ATTACHMENT F**

### **STRUCTURAL PRACTICES**

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







**ATTACHMENT I**  
**INSPECTION AND MAINTENANCE FOR BMPS**

Silt Fence

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed in the course of construction activity.

Bagged Gravel Inlet Filter

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



# ***CISD TIMBERWOOD PARK ELEMENTARY***

## ***Responsible Party Form***

---

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

\_\_\_\_\_  
Inspector's Name

\_\_\_\_\_  
Inspector's Signature

\_\_\_\_\_  
Name of Owner/Operator

\_\_\_\_\_  
Date

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



## **ATTACHMENT J**

### **SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES**

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 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.

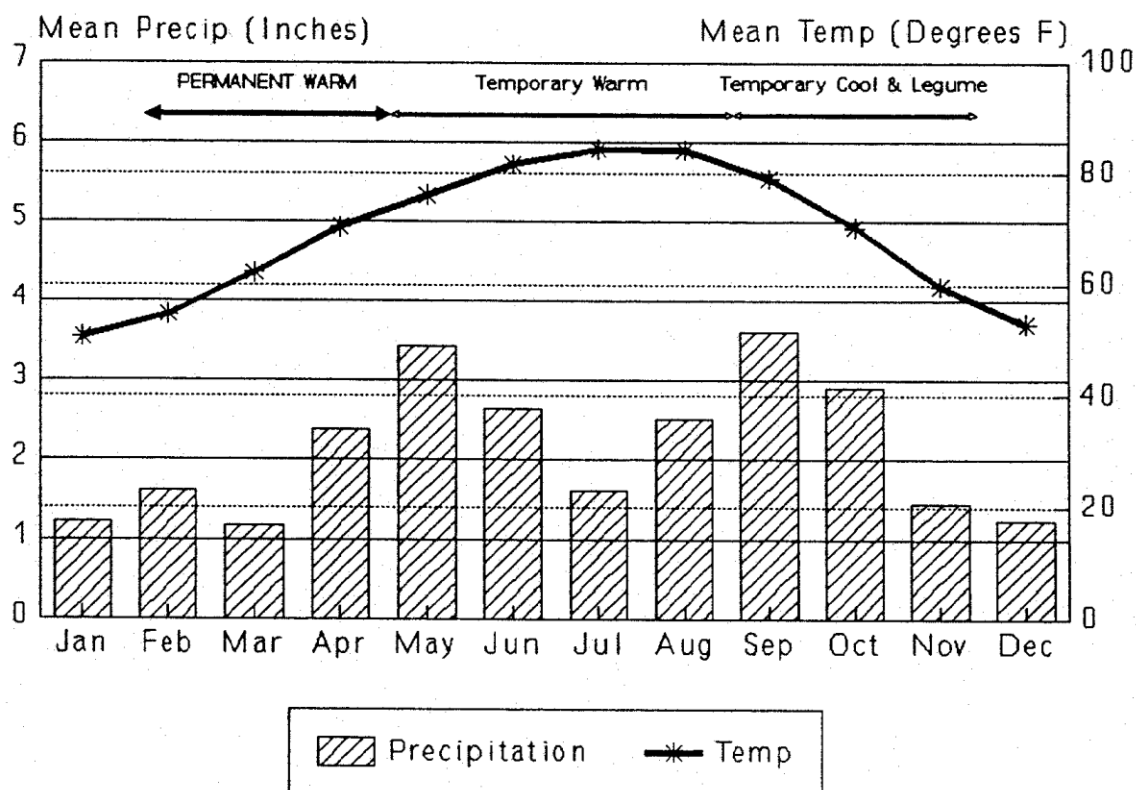
**Installation:**

(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 Uvalde Counties (Northcutt, 1993)**

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

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

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



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

**Irrigation:**

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

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

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

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

**Inspection and Maintenance Guidelines:**

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

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

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



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

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

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.



SIGNATURE PAGE:

[Signature]  
Applicant's Signature

May 23, 2024  
Date

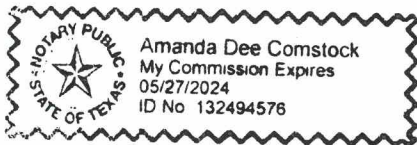
THE STATE OF TEXAS §

County of COMAL §

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

GIVEN under my hand and seal of office on this 23<sup>rd</sup> day of MAY, 2024

Amanda Dee Comstock  
NOTARY PUBLIC



AMANDA DEE COMSTOCK  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: MAY 27, 2024



# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: CISD Timberwood Park Elementary

Regulated Entity Location: 26715 S Glenrose Rd, San Antonio, TX 78260

Name of Customer: Comal ISD

Contact Person: Jeffrey Smith

Phone: (830) 221-2101

Customer Reference Number (if issued): CN 600249825

Regulated Entity Reference Number (if issued): RN 105112565

### Austin Regional Office (3373)

☐ Hays

☐ Travis

☐ Williamson

### San Antonio Regional Office (3362)

☒ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☐ Austin Regional Office

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

### Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	10.554 Acres	\$ 6,500.00
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: 

Date 6/17/2024



# 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***

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

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

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

### ***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

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

### ***Exception Requests***

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

### ***Extension of Time Requests***

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





TCEQ Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
<b>2. Customer Reference Number (if issued)</b>	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number (if issued)</b>
CN 600249825		RN 105112565

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
<b>15. Mailing Address:</b>			
	City	State	ZIP
<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number</b> (if applicable)	
( ) -		( ) -	

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)		
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information		
<b>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).</b>		
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)		
CISD TIMBERWOOD PARK ELEMENTARY		



23. Street Address of the Regulated Entity: (No PO Boxes)	26715 S Glenrose Rd						
	City	San Antonio	State	TX	ZIP	78260	ZIP + 4
24. County	Comal						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City	San Antonio				State	TX	Nearest ZIP Code	78260
27. Latitude (N) In Decimal:	29.707372		28. Longitude (W) In Decimal:	98.510956				
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29	42	26.54	98	30	39.44			
29. Primary SIC Code (4 digits)	8211	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)	611110	32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Elementary School								
34. Mailing Address:	26715 S Glenrose Rd							
	City	San Antonio	State	TX	ZIP	78260	ZIP + 4	
35. E-Mail Address:	jeffrey.smith@comalisd.org							
36. Telephone Number	( 830 ) 885-8500		37. Extension or Code			38. Fax Number (if applicable)	( ) -	

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

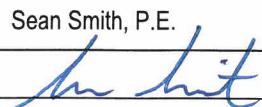
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source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

#### SECTION IV: Preparer Information

40. Name:	Sean Smith, P.E.	41. Title:	Senior Vice President
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 210 ) 698-5051		( 210 ) 698-5085	ssmith@mtrengineers.com

#### SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Moy Tarin Ramirez Engineers, LLC	Job Title:	Senior Vice President
Name (In Print):	Sean Smith, P.E.	Phone:	( 210 ) 698- 5051
Signature:		Date:	6/17/24