

# 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 will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited.**
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

### Mid-Review Modifications

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

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

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

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.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

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application.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

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

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

<b>1. Regulated Entity Name: WISD High School</b>					<b>2. Regulated Entity No.: 107003618</b>				
<b>3. Customer Name: Wimberley ISD</b>					<b>4. Customer No.: 600785158</b>				
<b>5. Project Type:</b> (Please circle/check one)	New		<u>Modification</u>			Extension		Exception	
<b>6. Plan Type:</b> (Please circle/check one)	WPAP	<u>CZP</u>	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
<b>7. Land Use:</b> (Please circle/check one)	Residential		<u>Non-residential</u>			<b>8. Site (acres):</b>		31.537	
<b>9. Application Fee:</b>	6500\$		<b>10. Permanent BMP(s):</b>			VFS, Jellyfish, Bioretention			
<b>11. SCS (Linear Ft.):</b>	N/A		<b>12. AST/UST (No. Tanks):</b>			N/A			
<b>13. County:</b>	Hays		<b>14. Watershed:</b>			Lower Blanco River			

# Application Distribution

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

[http://www.tceq.texas.gov/assets/public/compliance/field\\_ops/eapp/EAPP%20GWCD%20map.pdf](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.)	<u>  </u> X <u>  </u>	—	—
Region (1 req.)	<u>  </u> X <u>  </u>	—	—
County(ies)	<u>  </u> X <u>  </u>	—	—
Groundwater Conservation District(s)	<u>  </u> Edwards Aquifer Authority <u>  </u> Barton Springs/ Edwards Aquifer <u>  </u> Hays Trinity <u>  </u> Plum Creek	<u>  </u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u>  </u> Austin <u>  </u> Buda <u>  </u> Dripping Springs <u>  </u> Kyle <u>  </u> Mountain City <u>  </u> San Marcos <u>  </u> Wimberley <u>  </u> Woodcreek	<u>  </u> Austin <u>  </u> Bee Cave <u>  </u> Pflugerville <u>  </u> Rollingwood <u>  </u> Round Rock <u>  </u> Sunset Valley <u>  </u> West Lake Hills	<u>  </u> Austin <u>  </u> Cedar Park <u>  </u> Florence <u>  </u> Georgetown <u>  </u> Jerrell <u>  </u> Leander <u>  </u> Liberty Hill <u>  </u> Pflugerville <u>  </u> 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.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<u>  </u> Edwards Aquifer Authority <u>  </u> Trinity-Glen Rose	<u>  </u> Edwards Aquifer Authority	<u>  </u> Kinney	<u>  </u> EAA <u>  </u> Medina	<u>  </u> EAA <u>  </u> Uvalde
City(ies) Jurisdiction	<u>  </u> Castle Hills <u>  </u> Fair Oaks Ranch <u>  </u> Helotes <u>  </u> Hill Country Village <u>  </u> Hollywood Park <u>  </u> San Antonio (SAWS) <u>  </u> Shavano Park	<u>  </u> Bulverde <u>  </u> Fair Oaks Ranch <u>  </u> Garden Ridge <u>  </u> New Braunfels <u>  </u> Schertz	NA	<u>  </u> 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.

Lexie England, P.E.

Print Name of Customer/Authorized Agent

1/7/2026

Signature of Customer/Authorized Agent

Date

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

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

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

I Greg Bonewald,  
Print Name

Superintendent,  
Title - Owner/President/Other

of Wimberley ISD,  
Corporation/Partnership/Entity Name

have authorized Lexie England,  
Print Name of Agent/Engineer

of Kimley - Horn,  
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:

*Greg Borewald*  
Applicant's Signature

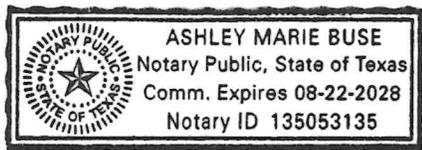
11/14/25  
Date

THE STATE OF TEXAS §

County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared Greg Borewald 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 14 day of November, 2025.



*Ashley Buse*  
NOTARY PUBLIC

Ashley Buse  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 9/22/2028

# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: High School Wimberley ISD

Regulated Entity Location: Wimberley, Texas

Name of Customer: Wimberley Independend School District

Contact Person: Lexie England

Phone: 512-518-6529

Customer Reference Number (if issued):CN 600785158

Regulated Entity Reference Number (if issued):RN 107003618

### 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	31.537 Acres	\$ 6500
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: 1/7/2026

# 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 Core Data Form

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

## SECTION I: General Information

<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</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600785158		RN 107003618

## 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 Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
<i>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).</i>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		<i>If new Customer, enter previous Customer below:</i>	
Wimberley Independent School District			
<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>		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"/> Local <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 checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant			
<b>15. Mailing Address:</b>	Wimberley Independent School District		
	951 FM 2325		
	<b>City</b>	Wimberley	<b>State</b> TX <b>ZIP</b> 78676 <b>ZIP + 4</b>
<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 (if applicable)</b>
( 512 ) 847-2414		( ) -

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

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected, a new permit application is also required.)							
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information							
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>							
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)							
<b>23. Street Address of the Regulated Entity:</b>  (No PO Boxes)							
	City		State		ZIP		ZIP + 4
<b>24. County</b>							

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

<b>25. Description to Physical Location:</b>							
<b>26. Nearest City</b>					<b>State</b>	<b>Nearest ZIP Code</b>	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>							
<b>27. Latitude (N) In Decimal:</b>					<b>28. Longitude (W) In Decimal:</b>		
Degrees	Minutes	Seconds		Degrees	Minutes	Seconds	
<b>29. Primary SIC Code</b>	<b>30. Secondary SIC Code</b>		<b>31. Primary NAICS Code</b>		<b>32. Secondary NAICS Code</b>		
(4 digits)	(4 digits)		(5 or 6 digits)		(5 or 6 digits)		
<b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.)							
<b>34. Mailing Address:</b>							
	City		State		ZIP		ZIP + 4
<b>35. E-Mail Address:</b>							
<b>36. Telephone Number</b>	<b>37. Extension or Code</b>			<b>38. Fax Number (if applicable)</b>			
( ) -				( ) -			

**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 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"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

**SECTION IV: Preparer Information**

<b>40. Name:</b>	Lexie England	<b>41. Title:</b>	Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>
( 512 ) 518-6529		( ) -	lexie.england@kimley-horn.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.

<b>Company:</b>	Kimley Horn	<b>Job Title:</b>	Project Manager
<b>Name (In Print):</b>	Lexie England	<b>Phone:</b>	( 512 ) 518- 6529
<b>Signature:</b>		<b>Date:</b>	1/7/2026

# 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: Lexie England

Date: 1/7/2026

Signature of Customer/Agent:

  
\_\_\_\_\_

## Project Information

1. Current Regulated Entity Name: Wimberley ISD  
Original Regulated Entity Name: Wimberley ISD  
Assigned Regulated Entity Number(s) (RN): 107003618  
Edwards Aquifer Protection Program ID Number(s): 11-13112105  
 The applicant has not changed and the Customer Number (CN) is: 600785158  
 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>31.537</u>	<u>31.537</u>
Type of Development	<u>Public School</u>	<u>Public School</u>
Number of Residential Lots	<u>0</u>	<u>0</u>
Impervious Cover (acres)	<u>15.422</u>	<u>+1.249</u>
Impervious Cover (%)	<u>48.90</u>	<u>52.86</u>
Permanent BMPs	<u>Bioretention</u>	<u>Bioretention</u>
Other	<u>Jellyfish, VFS</u>	<u>Jellyfish, VFS</u>
<b><i>AST Modification</i></b>		
<b><i>Summary</i></b>		
Number of ASTs	<u>0</u>	<u>0</u>
Other	_____	_____
<b><i>UST Modification</i></b>		
<b><i>Summary</i></b>		
Number of USTs	<u>0</u>	<u>0</u>
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.

**Attachment A**  
**Original Approval Letter**

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Zak Covar, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



COPY

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 28, 2014

Mr. Dwain York  
Superintendent  
Wimberley Independent School District  
14401 Ranch Road 12  
Wimberley, Texas 78676

Re: Edwards Aquifer, Travis County

NAME OF PROJECT: WISD High School; Located at 14401 Ranch Road 12; Wimberley, Texas

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

Edwards Aquifer Protection Program ID No. 11-13112105; Investigation No. 1133850; Regulated Entity No. RN107003618

Dear Mr. York:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP Application for the above-referenced project submitted to the Austin Regional Office by Pape-Dawson Engineers on behalf of the Wimberley Independent School District (WISD) on November 21, 2013. Final review of the CZP was completed after additional material was received on February 28, 2014. As presented to the TCEQ, the Temporary 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.*

### BACKGROUND

The existing WISD High School site was developed prior to 1999. The existing impervious cover for the school buildings, parking lots and sidewalks with related parking totals 7.48 acres.

### PROJECT DESCRIPTION

The WISD High School site is a 31.12 acre site that is bounded by Carney Lane (east side), RR 2325 (north side), and Mary Stephenson Lane (south side) in the City of Wimberley, Hays County, Texas. The limits of construction proposed project is five acres being entirely within the Edwards Aquifer Contributing Zone, and is not within the 100-yr flood plain. This site is considered to be a common plan of development with the WISD Administrative Building proposed construction project (EAPP ID No. 11-13112106), due to being part of the same bond project, and located on adjacent properties, separated by Texas Boulevard.

Impervious cover construction at WISD High School occurred prior to adoption of Edwards Aquifer regulations in the Contributing Zone (June 1, 1999). This impervious cover is not included in the proposed project TSS load calculations. The existing impervious cover that occurred prior to 1999 (7.48 acres) includes school buildings, parking lots, and sidewalks. The impervious cover that occurred between 1999 and 2013 (1.84 acres) includes a building and parking lot additions, portable and new buildings, and sidewalks. The proposed construction impervious cover (0.2 acres) includes a new band hall, and a sidewalk enclosure. Future construction impervious projects (0.3 acres) will also be included in the proposed TSS calculations. The total impervious cover of the site is 9.82 acres.

There will not be any storage of regulated quantities of hazardous materials. Wastewater treatment will be provided by the existing Woodcreek Wastewater Treatment Plant (WWTP).

### PERMANENT AND TEMPORARY POLLUTION ABATEMENT MEASURES

Storm water runoff treatment will be accomplished by two (2) Contech Jellyfish structures, and engineered and natural vegetative filter strips designed using the TCEQ Technical Guidance Manual (TGM). The required total TSS removal of 2,100 lbs that is included in this approval is regarding the improvements from 1999 to date, the current proposed improvements, and the future improvements. Jellyfish 01 (JF4-2-1) removes 864 lbs of TSS from a 3.23 acre drainage area with 1.2 acres of impervious cover. Jellyfish 02 (JFCB4-2-1) removes 698 lbs of TSS from a 1.16 acre drainage area with 1.12 acres of impervious cover. The vegetative filter strips remove 1,203 lbs of TSS from an impervious drainage area of 1.34 acres. The total TSS removal provided by the water quality controls is 2765 lbs. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project. The final outfall from the site is to a tributary of the Blanco River.

Temporary Best Management Practices (BMP's) described will be maintained to minimize sedimentation and erosion until construction is completed. Areas not included in the impervious cover will be stabilized with grass seed, and mulch.

### SPECIAL CONDITIONS

- I. All sediment and/or media removed from the water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

### STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

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

During Construction:

7. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
8. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
9. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
10. 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.
11. 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.

12. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 4, above.

After Completion of Construction:

13. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the Austin Regional Office within 30 days of site completion.
14. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
15. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
16. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
17. 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. Dwain York  
Page 5  
February 28, 2014

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Mr. Boyd Guthrie of the Edwards Aquifer Protection Program of the Austin Regional Office at (512)339-2929.

Sincerely,



Carolyn Runyon, Water Section Manager  
Austin Region Office  
Texas Commission on Environmental Quality

CDR/btg

cc: Mr. James R. McCann, P.E., Senior Project Manager, Pape-Dawson Engineers  
The Honorable Bob Flocks, Mayor, City of Wimberley  
Ms. Brooke Leftwich, Environmental Compliance Specialist, Hays County  
Mr. Rick Broun, General Manager, Hays Trinity Groundwater Conservation District  
TCEQ Central Records, Building F, MC 212

**Attachment B**  
**Narrative of Proposed Modification**

## Narrative of Proposed Modification

Wimberley High School is an existing school campus located at 100 Carney Lane, Wimberley, Texas, on a 31.537-acre site. The school is part of the Wimberley Independent School District (WISD), TCEQ regulated entity RN # 107003618.

The existing Wimberley High School site was originally developed with school buildings and related parking lots and sidewalks prior to 1999. No water quality treatment was provided at the time. Improvements constructed prior to June 1, 1999 did not require a contributing zone plan. Between 1999 and 2013, additional development on the campus included several small portables and new buildings, parking lot additions, and sidewalks. The site was further developed in 2014 with the addition of a new band hall and sidewalk enclosure. A Contributing Zone Plan (CZP) for the Wimberley High School site was approved on February 28, 2014. The permanent best management practices (BMPs) included two Contech Jellyfish Stormwater Treatment devices and both engineered and natural vegetative filter strips (VFS).

The proposed modification to the previously approved CZP is for treatment of impervious cover added to the site between 2014 and 2025, and for the site improvements included in the WISD Wimberley HS project. The WISD Wimberley HS project includes the addition of a band practice field, band hall, weight room, and gym addition along with associated sidewalk, parking, drainage, and utility improvements. The project permanent BMPs include two bioretention ponds and vegetative filter strips for the treatment of stormwater runoff. Please refer to the Water Quality Drainage Area Map for the total breakdown of impervious cover and TSS Removal. A breakdown of the existing and proposed VFS with associated treatment areas has been provided in the Vegetative Filter Strip (VFS) Area Breakdown exhibit.

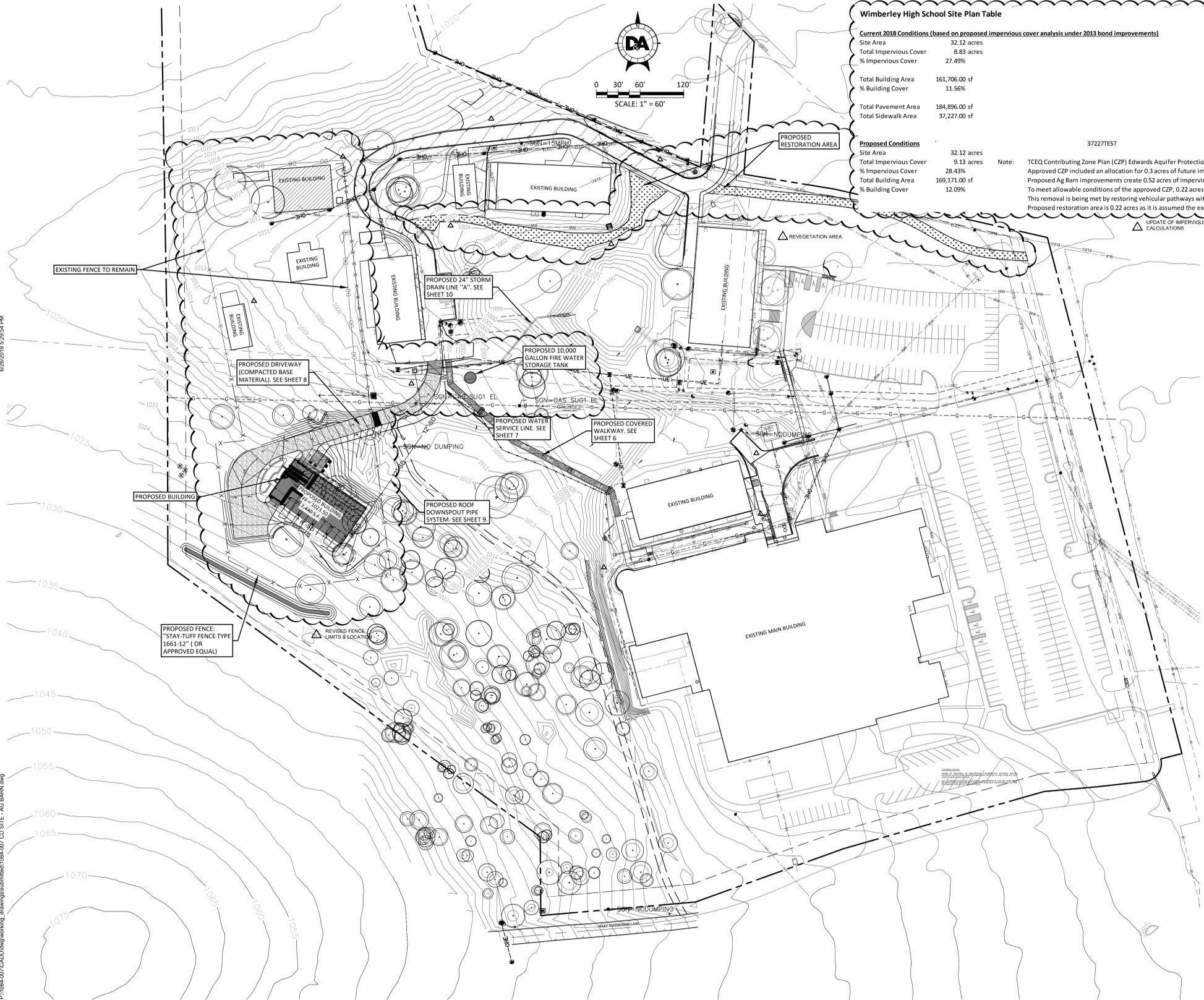
If you have any questions or require additional information, please contact me at 512-518-6529 or [lexie.england@kimley-horn.com](mailto:lexie.england@kimley-horn.com).

Sincerely,  
KIMLEY-HORN & ASSOCIATES



Lexie England, P.E.

**Attachment C**  
**Current Site Plan of the Approved Project**



**Wimberley High School Site Plan Table**

Current 2018 Conditions (based on proposed impervious cover analysis under 2013 bond improvements)	
Site Area	32.12 acres
Total Impervious Cover	8.83 acres
% Impervious Cover	27.49%
Total Building Area	161,706.00 sf
% Building Cover	11.56%
Total Pavement Area	184,896.00 sf
Total Sidewalk Area	37,227.00 sf

Proposed Conditions	
Site Area	32.12 acres
Total Impervious Cover	9.13 acres
% Impervious Cover	28.43%
Total Building Area	169,171.00 sf
% Building Cover	12.09%

Note: TCEQ Contributing Zone Plan (CZP) Edwards Aquifer Protection Program ID No. 11-13112105 (February 28, 2014)  
 Approved CZP included an allocation for 0.3 acres of future impervious cover  
 Proposed Ag Barn improvements create 0.52 acres of impervious cover  
 To meet allowable conditions of the approved CZP, 0.22 acres of impervious cover needs to be removed from the site  
 This removal is being met by restoring vehicular pathways with vegetation and blocking off vehicular access to these areas  
 Proposed restoration area is 0.22 acres as it is assumed the existing vehicular pathways are approx. 80% impervious

**CONTRACTOR NOTES:**  
 EXISTING UNDERGROUND & OVERHEAD UTILITIES IN VICINITY. CONTRACTOR TO CONTACT UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR TO CALL 811 FOR UTILITY LOCATES PRIOR TO EXCAVATION. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS & DEPTH PRIOR TO BEGINNING CONSTRUCTION.  
 CONTRACTOR SHALL CONSIDER PROPOSED UTILITY IMPROVEMENTS AND PROVIDE ADEQUATE HORIZONTAL AND VERTICAL CLEARANCE DURING INSTALLATION OF ALL UTILITY INFRASTRUCTURE.



6/26/2019

**DOUCET-CHAN**  
 -A Division of Doucet & Associates, Inc.-  
 Civil Engineering - Planning - Geospatial  
 7401 B. Highway 71 W. Suite 160  
 Austin, Texas 78735, Phone: (512)-583-2600  
 www.doucetengineers.com  
 Firm Registration Number: 3937

NO.	DESCRIPTION	DATE
△	REVISED FENCE: UPDATE IMP. CALC.; REVEG. AREA	6/26/2019

01/17/2019  
 Project No. 1820.05  
**CONTRACT DOCUMENTS**

OVERALL SITE IMPROVEMENTS

# 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: Lexie England

Date: 1/7/2026

Signature of Customer/Agent:

  
\_\_\_\_\_

Regulated Entity Name: WISD High School

## Project Information

1. County: Hays
2. Stream Basin: Guadalupe
3. Groundwater Conservation District (if applicable): Hays Trinity
4. Customer (Applicant):

Contact Person: Greg Bonewald

Entity: WISD

Mailing Address: 951 FM 2325

City, State: Wimberley

Telephone: 512-847-2414

Email Address: greg.bonewald@wimberleyisd.net

Zip: 78676

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

5. Agent/Representative (If any):

Contact Person: Lexie England

Entity: Kimley-Horn

Mailing Address: 6800 Burleson Road, Building 312, Suite 150

City, State: Austin, Tx

Zip: 78744

Telephone: 512-518-6529

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

Email Address: lexie.english@kimley-horn.com

6. Project Location:

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

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

100 Carney Ln, Wimberley, TX 78676.

Site is encompassed between Carney Ln and Mary Stephenson Ln

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 Public School

12. The type of project is:

- Residential: # of Lots: \_\_\_\_\_
- Residential: # of Living Unit Equivalents: \_\_\_\_\_
- Commercial
- Industrial
- Other: Public School

13. Total project area (size of site): 31.537 Acres

Total disturbed area: 6.3424 Acres

14. Estimated projected population: 0

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

**Table 1 - Impervious Cover**

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	20261.30	÷ 43,560 =	0.4651
Parking	861.04	÷ 43,560 =	0.0198
Other paved surfaces	50046.24	÷ 43,560 =	1.1489
Total Impervious Cover	71168.58	÷ 43,560 =	1.6338

**Total Impervious Cover  $\frac{1.6338}{31.537} \times 100 = 5.18\%$  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 Woodcreek (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

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" = 40'.
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): 48209C0238G.
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.

**Attachment A**  
**Road Map**



**DIRECTION FROM TCEQ HEADQUARTERS TO PROJECT SITE**

1. GET ON S I-35 FROM PARK 35 CIR AND S I-35 FRONTAGE RD
2. TAKE EXIT 215 TOWARD F.M. 1626/KYLE PKWY
3. TURN RIGHT ONTO KOHLERS CROSSING
4. TURN LEFT ONTO JACK C HAYS TRAIL
5. TURN RIGHT ONTO RANCH MARKET RD 150
6. AT TRAFFIC CIRCLE TAKE THE THIRD EXIT ONTO OLD KYLE RD
7. SLIGHT RIGHT ONTO RANCH RD 12 N
8. SLIGHT LEFT ONTO FARM TO MARKET RD 2325
9. TURN LEFT ONTO CARNEY LN
10. WIMBERLEY HIGH SCHOOL DIRECTLY ON YOUR RIGHT



**ROAD MAP**  
November 18, 2025

0 500 1000  
GRAPHIC SCALE IN FEET  
SCALE: 1" = 1000

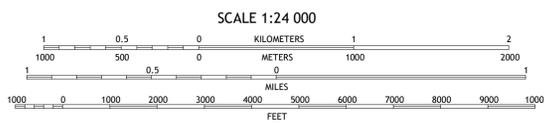
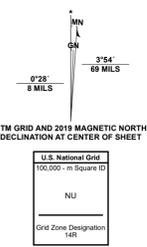
**Attachment B**  
**USGS Quadrangle Map**



**Project Location**

**Produced by the United States Geological Survey**

North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 14R  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.  
Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015 - 2019  
Names.....GNIS, 1979 - 2021  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2019  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 20 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard.



ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	

1 Henly  
2 Dripping Springs  
3 Signal Hill  
4 Rough Hollow  
5 Mountain City  
6 Devils Backbone  
7 Wimberley  
8 San Marcos North

**ROAD CLASSIFICATION**

	Expressway		Local Connector
	Secondary Hwy		Local Road
	Ramp		4WD
	Interstate Route		US Route
			State Route



**Attachment C**  
**Project Narrative**

## Project Narrative

The WISD Wimberley High School project is located at 100 Carney Ln, Wimberley TX. The site is within the City of Wimberley's city limits. The site is composed of one 31.5-acre Hays County tax parcel (HCAD ID 133665) which is currently developed as a High School.

The WISD Wimberley HS project includes the addition of a band practice field, band hall, weight room, and gym addition along with associated sidewalk, parking, drainage, and utility improvements. The proposed improvements will result in the addition of 1.249 acres in impervious cover. The existing and proposed BMPs including vegetative filtration strips, jellyfish, and a biofiltration pond will provide all necessary water quality treatments per TCEQ.

The limits of construction for this site is ±6.3424 acres. The proposed site improvements are not located in the Federal Emergency Management Agency's 100-year floodplain according to the Flood Insurance Rate Map 48209C0238G. This site is located in the Edwards aquifer contributing zone and the Cypress Creek Watershed.

**Attachment D**  
**Factors Affecting Surface Water Quality**

## Factors Affecting Surface Water Quality

No Industrial associated activity discharges are expected for this site. Surface water quality can be affected by disturbance during construction and by development after construction. Soil disturbance from clearing and grubbing and cut / fill operations can lead to discharge of sediment unless adequate temporary erosion control measures are in place. For this project, the use of silt fence, construction entrances, tree protection, inlet protection, pond skimmer, and triangular sediment filter dike will prevent sediment from leaving the site. Siltation collected by the control measures will be cleaned from fences, berms, etc. on a routine schedule as outlined in the SWPPP and contract specifications.

During construction, surface water quality may also be affected by a spill of hydrocarbons or other hazardous substances used in construction. The most likely instances of a spill of hydrocarbons or hazardous substances are:

- a) Refueling construction equipment.
- b) Oil and grease from the asphalt pavement and vehicle traffic.
- c) Performing operator-level maintenance, including adding petroleum, oils, or lubricants.
- d) Normal silt build-up
- e) Unscheduled or emergency repairs, such as hydraulic fluid leaks.
- f) Trash which becomes loose from subdivision residents.
- g) Fertilizers used in the landscaping around the apartment buildings.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table 1 (page 3) of the TCEQ's Small-Business

Handbook for Spill Response (RG-285, June 1997), the contractor is required to clean up the spill and notify the TCEQ as required in RG-285. During business hours report spills to the TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224, the Environmental Response Hotline or (512) 463-7727, the TCEQ Spill Reporting Hotline, which is also answered 24 hours a day. After construction is complete, impervious cover for the tract of land is the major reason for degradation of water quality. Impervious cover includes the building foundations, street pavement and concrete sidewalks. Oil and fuel discharge from vehicles is anticipated. The proposed permanent BMPs on this project will help mitigate these occurrences.

**Attachment E**  
**Volume and Character of Stormwater**

## **Volume and Character of Stormwater**

The volume and character of stormwater runoff from the proposed project are expected to be similar to existing conditions, with minimal changes due to the limited scope of construction. The ponds will remain compliant with TCEQ requirements, ensuring that runoff is released at rates below the design thresholds. These improvements will not negatively impact the quality and quantity of stormwater running off leaving the site.

The existing Wimberley High School site primarily drains from west to east. Stormwater runoff from the site ultimately discharges to an existing culvert at Carney Lane near the center of the east property boundary. The proposed development is maintaining existing drainage patterns to the greatest extent possible.

Stormwater treatment is provided for the proposed improvements in accordance with TCEQ requirements. Vegetative filter strips and two bioretention ponds provide water quality treatment for the proposed impervious cover.

The combined flow from the proposed conditions is less than or equal to the combined flow from the existing conditions for the design storm events. No adverse flooding impacts to other properties will occur because of the proposed improvements.

**Attachment F**  
**Suitability Letter from Authorized Agent**  
**(Not Applicable)**

**Attachment G**  
**Alternative Secondary Containment Methods**  
**(Not Applicable)**

**Attachment H**  
**AST Containment Structure Drawings**  
**(Not Applicable)**

**Attachment I**  
**20% of Less Impervious Cover Waiver**  
**(Not Applicable)**

**Attachment J**  
**BMPs for Upgradient Stormwater**

## **BMPs for Upgradient Stormwater**

Permanent BMPs or measures or not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site. This is because the upgradient area is undeveloped and the surface water runoff does not increase pollutant loads.

**Attachment K**  
**BMPs for On-site Stormwater**

## **BMPs for On-site Stormwater**

All stormwater runoff will flow and discharge into one of the ponds or point of analysis 1 (POA-1) located on the site. There are two ponds that treat the flows. Temporary BMPs such as silt fence, triangular sediment filter dike, concrete washout pit, construction entrance, and inlet protection will be utilized. The construction plans provided in Attachment M include our erosion control plan, the proposed drainage area map, and the plan for the ponds used by the subject site.

**Attachment L**  
**BMPs for Surface Streams**  
**(Not Applicable)**

**Attachment M**  
**Construction Plans**



**KH GENERAL NOTES**

**OVERALL:**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS. THE FINAL GEOTECHNICAL REPORT AND ALL OTHERS AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS, DETAILS, THE MORE RESTRICTIVE SPECIFICATION OR DETAIL SHALL GOVERN.
2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) GENERAL NOTES FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE SPECIFICATIONS AND DETAILS. THE MORE RESTRICTIVE SPECIFICATION OR DETAIL SHALL GOVERN.
3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT ARCHITECT. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE SURVEY DATA AND CORRECT ANY ERRORS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FIRST TO THE OWNER AND ENGINEER IMMEDIATELY.
7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL FURNISH AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.
8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
9. CONTRACTOR SHALL VERIFY ALL HORIZONTAL AND VERTICAL CONTROL INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER. IF APPLICABLE THE CITY AND OWNER, NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
15. THE LOCATION, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHALL BE OBTAINED FROM RECORD DRAWINGS AND FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.
16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS TO EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.
17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWERLINE, AND UTILITY POLE ADJUSTMENTS AS NECESSARY.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT.
19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE FAILURE TO EXISTING UTILITIES OR STRUCTURES, IF IT IS NECESSARY TO MOVE, BRIDGE, SINK, OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFILIATED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
20. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST OF BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
21. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL, AND UTILITY OWNER REGULATIONS PERTAINING TO WORK NEAR OR IN CONTACT WITH POWER LINES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.
23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDUM, PRELIMINARY AND FINAL REPORTS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
24. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL SUBMIT THE DOCUMENTS TO THE ENGINEER AND RESPONSE IS AVAILABLE.
25. NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.
26. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
27. CONTRACTOR BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
28. ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC...) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH THE CITY AND ENGINEER PRIOR TO CONSTRUCTION.
29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE TO BUILDING WORKS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.
30. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.
31. THE PROPOSED BUILDING ON THESE PLANS WAS PROVIDED BY KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE MOST CURRENT VERSION BECAUSE THE ARCHITECT HAS BEEN OBTAINING PERMITS AND APPROVALS FOR THE PROJECT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE FINAL CONSTRUCTION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY, ETC...) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY.
32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE IN ACCORDANCE WITH THE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.
34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
35. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
36. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SURGRADE PREPARATION SPECIFIC TO FLOWWAY ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLOWWAY ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
37. ALL CONTRACTORS MUST PROTECT THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGES RESULTING THEREFROM SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND RESTORE TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CURBS, AND VENT.
38. THE CONTRACTOR SHALL CONFINE ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
40. ALL AREAS EXISTING WITHIN OR NEAR THE CONSTRUCTION AREA SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CURBS, AND VENT.
41. THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION.
42. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
44. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
45. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
46. THESE PLANS DO NOT EXTEND TO OR INCLUDE: DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK, THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
47. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.
48. CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.
49. LIGHT POLE SIGNS, AND OTHER STRUCTURES SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
50. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
51. TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH CITY OF PAVEMENT OR FINISHED GRADE.
52. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHAL TO LEARN OF ANY REQUIREMENTS.
54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN.
55. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS.
56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

**EROSION CONTROL**

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TDR 150007.
3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.
4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.
5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES. BEST MANAGEMENT PRACTICES (BMPs), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND REPORT TO THE CITY.
7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAIL.
8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.
10. THE CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT

EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL

11. OFF-SITE SOIL BORROW, SPILL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMPs TO CONTROL EROSION, AND CONSTRUCTION OF PERMANENT GRADING AND CONSTRUCTION OF PERMANENT STRUCTURES PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO ACCOMMODATE ANY CHANGES TO THE PROJECT. CONTRACTOR SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER RUNOFF. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY EROSION CONTROL PLANS ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPs, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY.
14. CONTRACTOR SHALL CONSTRUCT A STABLE CONSTRUCTION ENTRANCE AND EXIT PRIOR TO ANY WORK BEING PERFORMED WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.
15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.
16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONE PER DAY FOR THE DURATION OF CONSTRUCTION.
17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP.
18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10,000 SQUARE FEET.
19. ALL FINES IMPROPER FOR SEDIMENT OR DIRT DISCHARGED FROM THE DESIGN SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE, VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
21. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS OTHERWISE SPECIFIED.
22. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIALS, AND TRASH AS CONSTRUCTION PROGRESSES.
23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS DEFINED AS THE APPLICATION OF A COVERING TO PREVENT EROSION OF IMPROVED STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERMANENT VEGETAL COVER.
24. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE CREGGED, AND THE SEWAGE GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
25. ANY SEQUENCE OF CONSTRUCTION SHALL BE REVIEWED IN A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY PRIOR TO ANY DRAINAGE CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

**STORM WATER DISCHARGE AUTHORIZATION:**

1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150007.
3. CONTRACTOR SHALL SUBMIT ALL EROSION CONTROL DEVICES AND INSPECTION REPORTS TO THE CITY AND ENGINEER PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MSA (TYPICALLY THE CITY) RECEIVING DISCHARGE FROM THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SIGNAGE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).
5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPECTIVE RESPONSIBILITIES TO THE CITY AND OWNER STANDARD.
6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE AND AVAILABLE TO THE CITY AND OWNER STANDARD.
7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBANCE ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND ALL NEGATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURE. A TRANSFER OF FUNDING, IF APPLICABLE, SHALL BE PROVIDED TO THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOI SHALL BE PROVIDED TO THE OPERATOR OF ANY MSA RECEIVING DISCHARGE FROM THE SITE.

**DEMOLITION:**

1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.
2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND STRUCTURES, AND THAT THE INFORMATION IS ACCURATE, COMPLETE, OR COMPREHENSIVE. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, ETC... TO ACCOMPLISH THIS GOAL. ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN.
  - a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER.
  - b. ASBESTOS BUILDING INSPECTION REPORT(S) BY THE OWNER.
  - c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
  - d. ALL OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE.
5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE.
6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE BY THE CITY CONTRACTORS. CONTRACTOR SHALL REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY WITH ALL APPLICABLE REGULATIONS.
7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, ETC... TO ACCOMPLISH THIS GOAL.
8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS. THAT ARE ALSO TO BE REMOVED.

**GRADING:**

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY.
3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHALL BE BASED ON THE PAVED TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE RELYING GRADE FOR TOP OF CURB ELEVATION.
4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVED AREA TO TOP OF FINISHED GRADE.
5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS TO BE USED FOR THE PURPOSES OF PERFORMING THE GRADING OPERATIONS. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE PAVEMENT SECTION.
8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER.
9. ALL EXCAVATION AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNSUABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECTS PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
13. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNER'S APPROVAL. TO DO SO.
14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL.
15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
16. NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED.
17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF.
18. REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS.
19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE.
20. CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING.
21. ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
22. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FOR INSTALLATION AND PREPARATION IN THE BUILDING PAD.
24. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SURGRADE PREPARATION SPECIFIC TO FLOWWAY ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLOWWAY ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDINGS DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION.
26. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO PREVENT THE TRACKING OF CONSTRUCTION DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER.
27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS. THE CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT

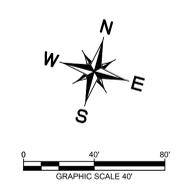
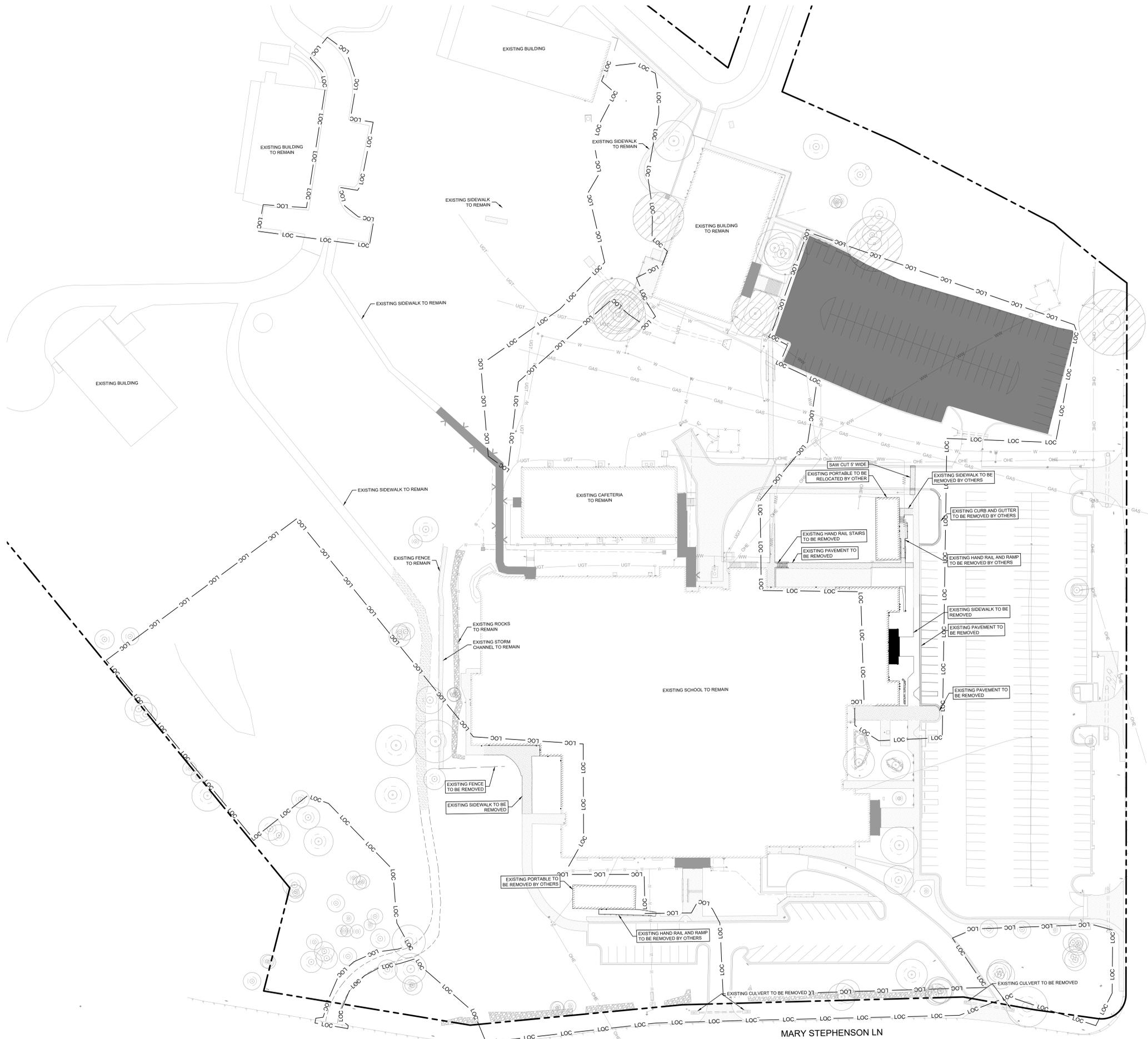
28. EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.
29. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND PROTECTED TREE CRITICAL ROOT ZONES. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
30. TREE PLANTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
31. TREE PLANTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
32. NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY HAS OTHERWISE CONFIRMED THAT THE TREE IS NOT NEEDED FOR THE PROJECT.
33. NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNERS REPRESENTATIVE.
34. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
35. AFTER PLACEMENT OF SURGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED.
36. CONTRACTOR SHALL VERIFY THE FIELD TO ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED.

**RETAINING WALLS:**

1. RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEVATIONS AT THE TOP AND BOTTOM OF THE WALL.
2. ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE.
3. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE PLANS. STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS, WALLINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFORMED BY A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET.
4. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJACENT BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTABILITY NOTES.
5. RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.

**PAVING:**

1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY STANDARD DETAILS AND SPECIFICATIONS. THE FINAL GEOTECHNICAL REPORT AND ALL OTHERS AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION OR DETAIL SHALL GOVERN.
2. ALL PRIVATE ON-SITE PAVING AND PAVING SURGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION) AND THE CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT.
3. ALL PAVEMENT PAVING AND PAVING SURGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED.
4. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SURGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SURGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR.
6. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SURGRADE. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SURGRADE TESTING.
7. SHALL BE RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT.
9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TAS STANDARDS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT.
10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPES, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS, LATEST EDITION.
11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT, AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
12. CONTRACTOR SHALL CONSIDER THE REQUIREMENTS OF THE FAIR HOUSING ACT AND THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LINES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPES WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND MARKINGS SHALL BE PERMANENT AND SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT.
15. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.
16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL BE SUPPLIED BY BAR CHAIRS. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
17. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
18. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIIUS SPOTS SHALL BE 2 FEET.
19. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
20. ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT.
21. FUTURE LINES SHALL BE MARKED AND LABELED AS A FIRE LINE AND PER CITY STANDARD.
22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED.
23. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL NECESSARY SIGNAGE, INCLUDING BUT NOT LIMITED TO: PAVEMENT MARKINGS, PARKING MARKINGS, AND OTHER MARKINGS. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
24. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
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30. CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND DIMENSIONS OF ALL EXISTING UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/STEPS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.



**LEGEND**

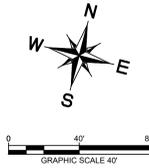
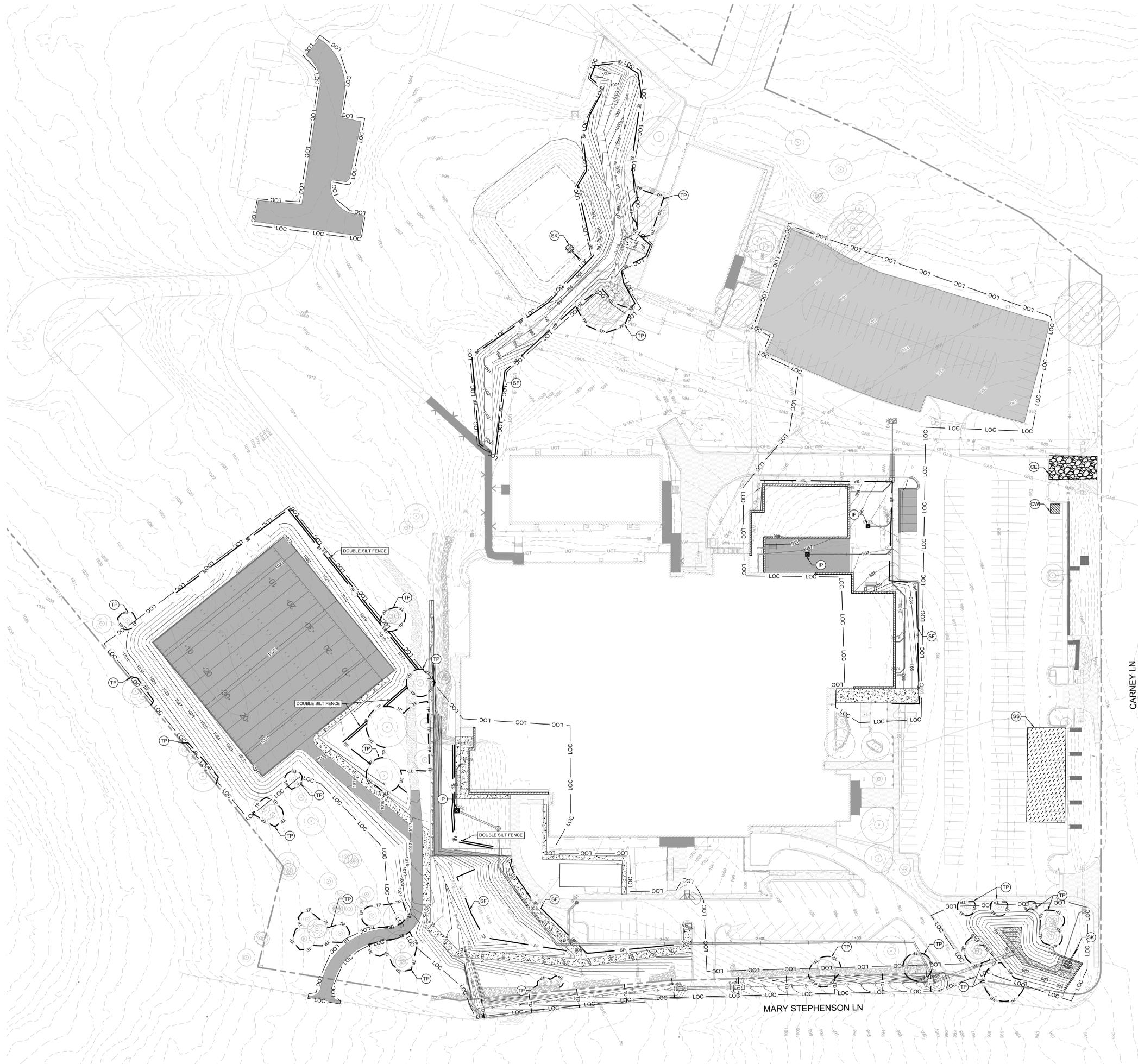
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	WATER LINE
	WASTEWATER LINE
	STORM SEWER LINE
	OVERHEAD ELECTRIC
	FIRE HYDRANT
	WATER VALVE
	WASTEWATER CLEANOUT
	STORM SEWER GRATE INLET
	ELECTRIC BOX
	UTILITY POLE
	GUY ANCHOR
	SIGN
	DEMOLITION AREA: ITEMS TO BE REMOVED AS NOTED
	LIMITS OF CONSTRUCTION AREA
	EXISTING TREES TO REMAIN
	EXISTING TREES TO BE REMOVED



NO.	DESCRIPTION	DATE	Revisions:

**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV = 980.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 980.49
BM #4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 979.47



LEGEND

---	PROPERTY LINE
---	LIMITS OF CONSTRUCTION
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
---	SILT FENCE
---	TREE PROTECTION
---	TRIANGULAR SEDIMENT FILTER DIKE
---	CONCRETE WASHOUT PIT
---	STAGING AND SPOILS AREA
---	CONSTRUCTION ENTRANCE
---	POND SKIMMER
---	INLET PROTECTION



**WIMBERLEY ISD**  
**WIMBERLEY HIGH SCHOOL**  
100 CARNEY LANE, WIMBERLEY, TEXAS, 78676

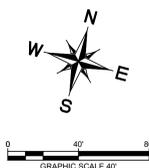
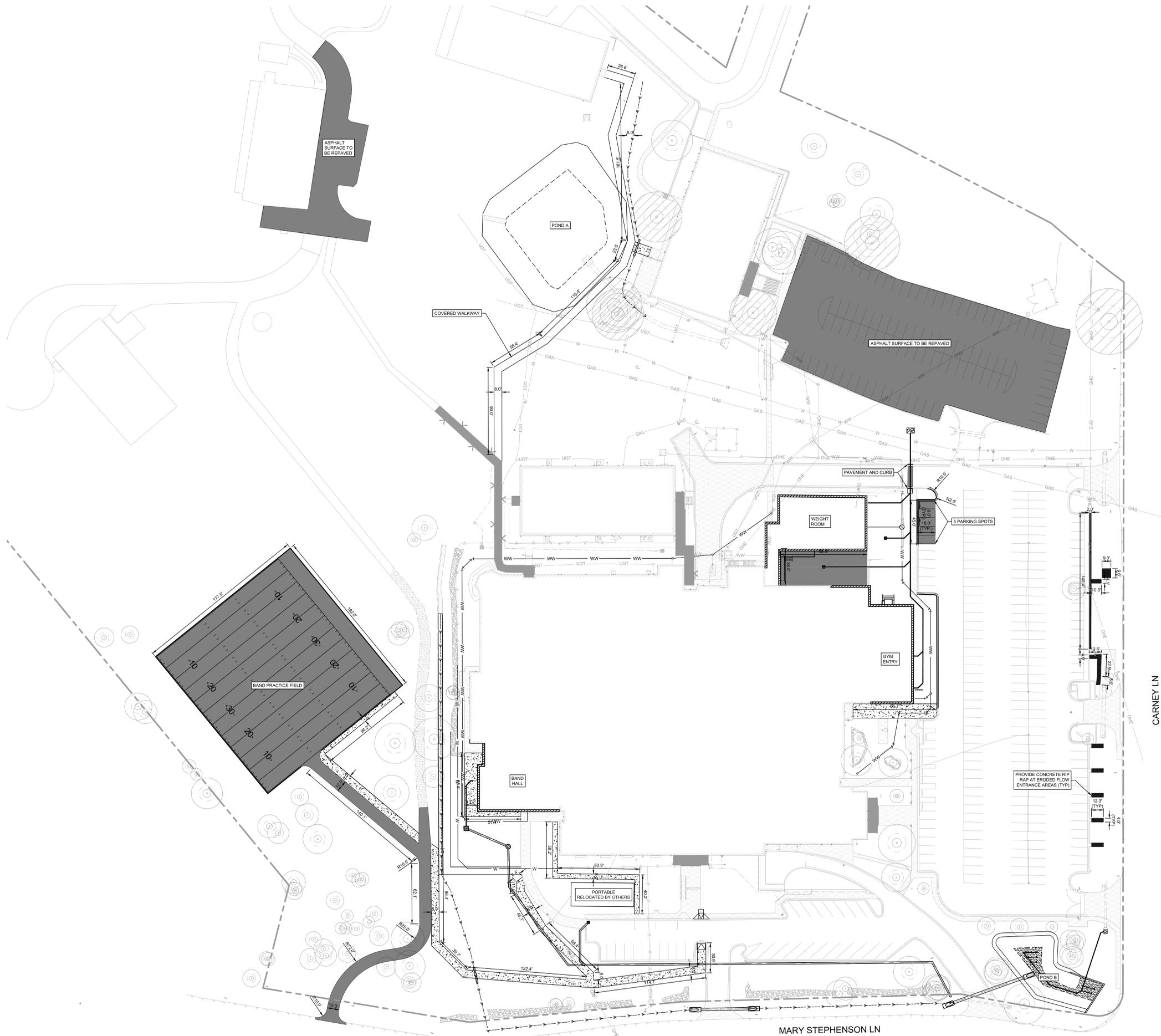


NO.	DESCRIPTION	DATE

BENCHMARKS

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BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 980.49
BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 970.47

11/19/2025  
Project No. 2523.01  
PACKAGE 2 - 100%  
DESIGN DEVELOPMENT  
EROSION CONTROL  
PLAN



**LEGEND**

	PROPERTY LINE
	LIMITS OF CONSTRUCTION
	WATER LINE
	WASTEWATER LINE
	STORM LINE
	FENCE
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT
	EXISTING WATER LINE
	EXISTING WASTEWATER LINE
	EXISTING STORM LINE
	EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE RIP RAP

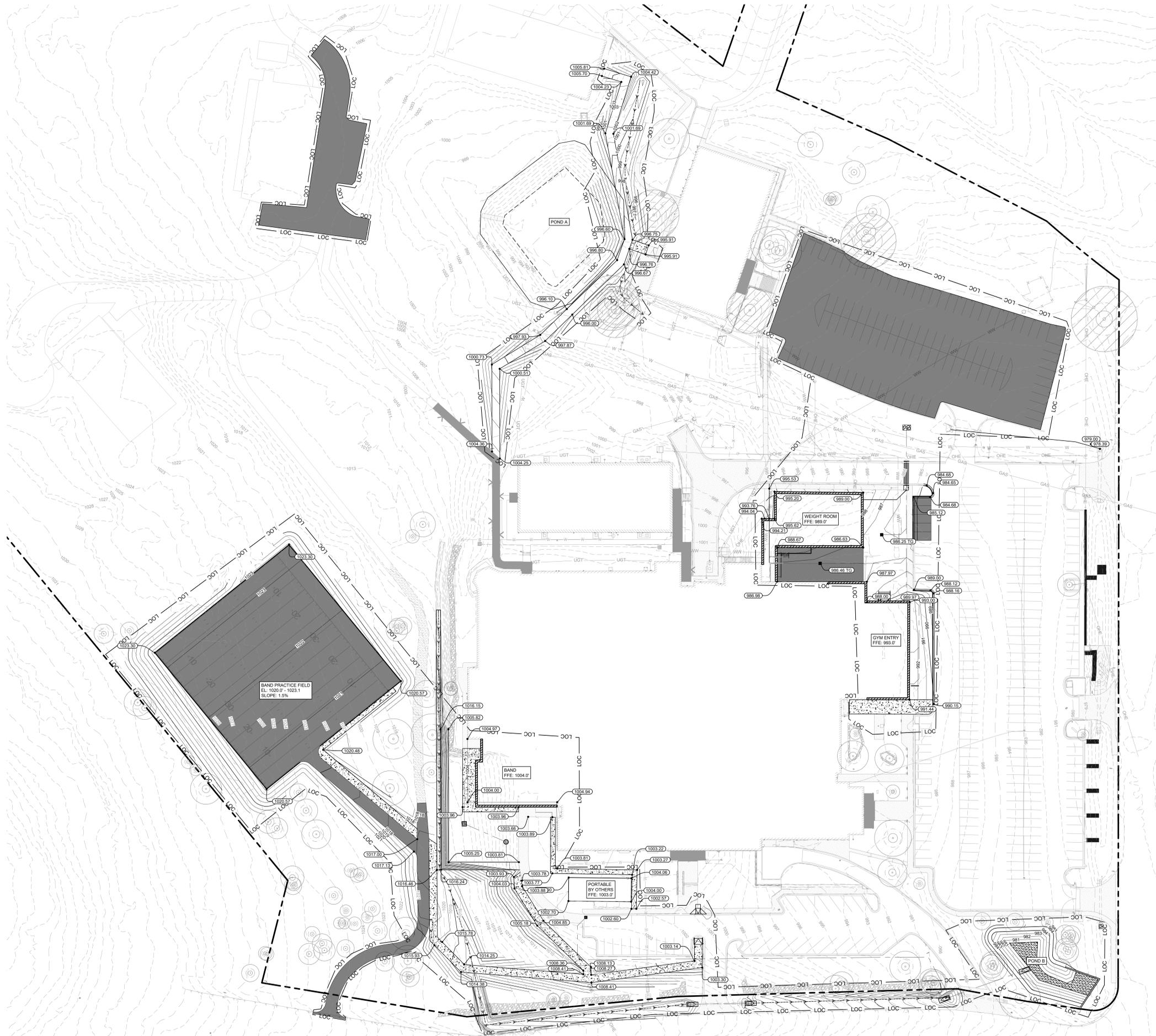
IMPERVIOUS COVER	
TOTAL SITE AREA (AC)	31.537
AREA OF DISTURBANCE (SF)	276275
AREA OF DISTURBANCE (AC)	6.3424
EXISTING IMPERVIOUS COVER (%)	45.73
EXISTING IMPERVIOUS COVER (SF)	62822
PROPOSED IMPERVIOUS COVER (%)	49.69
PROPOSED IMPERVIOUS COVER (SF)	682628

**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV = 972.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 980.56
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BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 970.47



NO.	DESCRIPTION	DATE	REVISIONS



0 40' 80'  
GRAPHIC SCALE 40'

LEGEND

---	PROPERTY LINE
XXX.XX	PROPOSED ELEVATION
ME XXX.XX	MATCH EXISTING ELEVATION
---	PROPOSED CONTOUR
---	EXISTING CONTOUR

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV: #972.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: #980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: #980.49
BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: #970.47

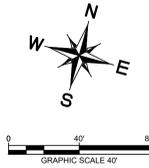
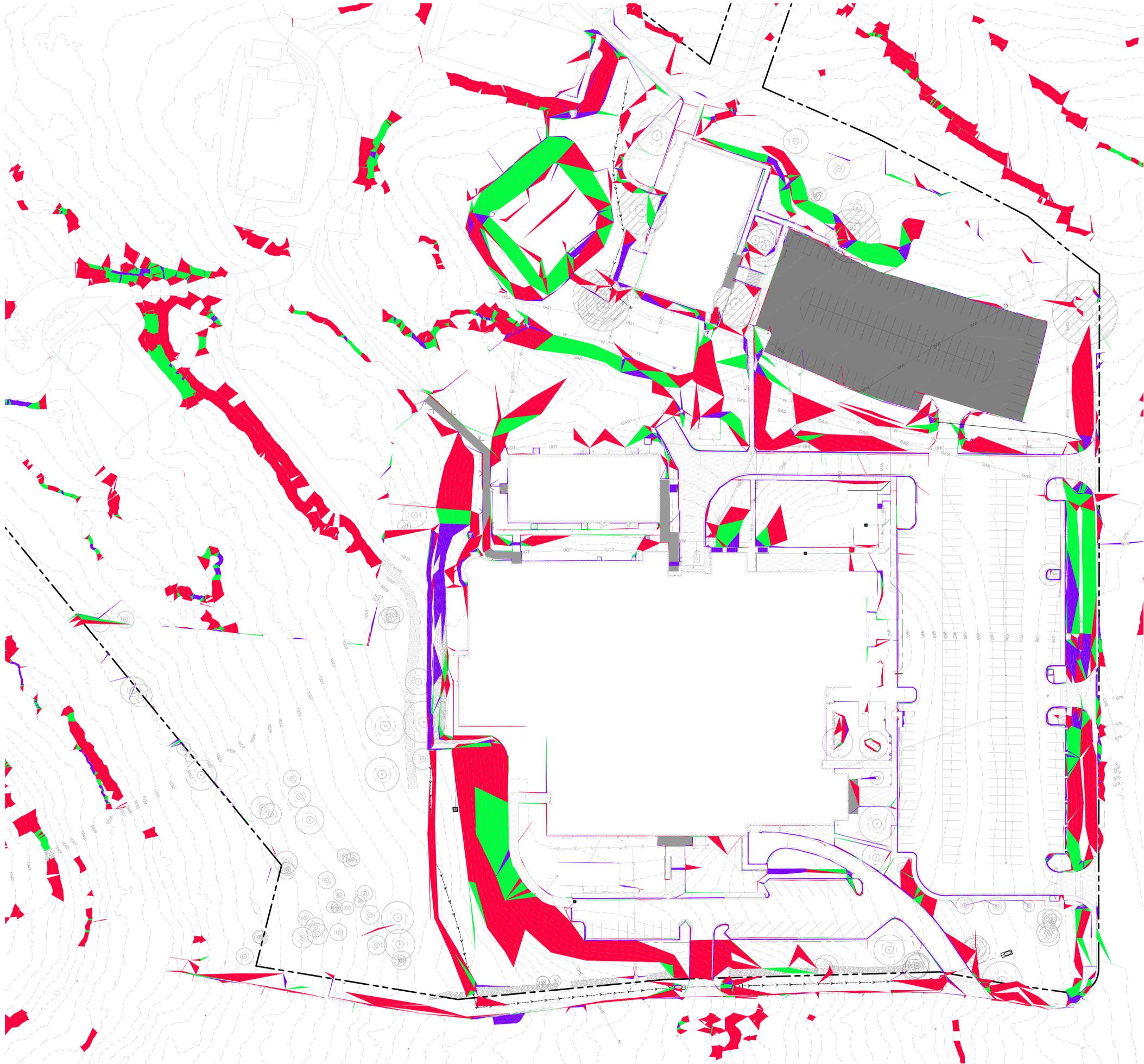


**WIMBERLEY ISD**  
**WIMBERLEY HIGH SCHOOL**  
100 CARNEY LANE, WIMBERLEY, TEXAS, 78676



NO.	DESCRIPTION	DATE

11/19/2025  
Project No. 2525.01  
**PACKAGE 2 - 100%  
DESIGN DEVELOPMENT  
OVERALL GRADING  
PLAN**



Slopes Table			
Number	Minimum Slope	Maximum Slope	Color
1	15.00%	25.00%	Red
2	25.00%	35.00%	Green
3	35.00%	100.00%	Purple

**BENCHMARKS**

- BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"  
ELEV = 972.96
- BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING"  
ELEV = 980.56
- BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING"  
ELEV = 980.49
- BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING"  
ELEV = 970.47



**WIMBERLEY ISD**  
**WIMBERLEY HIGH SCHOOL**  
 100 CARNEY LANE, WIMBERLEY, TEXAS, 78676



NO.	DESCRIPTION	Revisions:	DATE

11/19/2025  
 Project No. 2525.01  
**PACKAGE 2 - 100%  
 DESIGN DEVELOPMENT**  
 SLOPE MAP

DRAINAGE AREA	SHEET FLOW			UNPAVED SHALLOW CONCENTRATED			PAVED SHALLOW CONCENTRATED			CHANNEL FLOW			TOTAL TC (min)	TC MINIMUM (min)		
	Length (ft)	Manning's n	Slope (ft/ft)	T <sub>100</sub> (min)	Length (ft)	Slope (ft/ft)	T <sub>100</sub> (min)	Length (ft)	Slope (ft/ft)	T <sub>100</sub> (min)	Length (ft)	Slope (ft/ft)			Velocity (ft/s)	T <sub>100</sub> (min)
EDA-1	100	0.15	0.02	8.65	1058	0.08	3.96	-	-	0	796	0.03	2.0	6.55	12.5	12.5
REACH-1	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-
EDA-2	100	0.15	0.01	9.72	695	0.08	2.48	-	-	0	1244	0.04	2.0	10.37	22.6	22.6
EDA-3	100	0.15	0.01	9.96	426	0.09	1.45	-	-	0	1308	0.05	2.0	10.90	22.2	22.2

2yr 24hr Atlas 14 rainfall depth (in) = 4.16

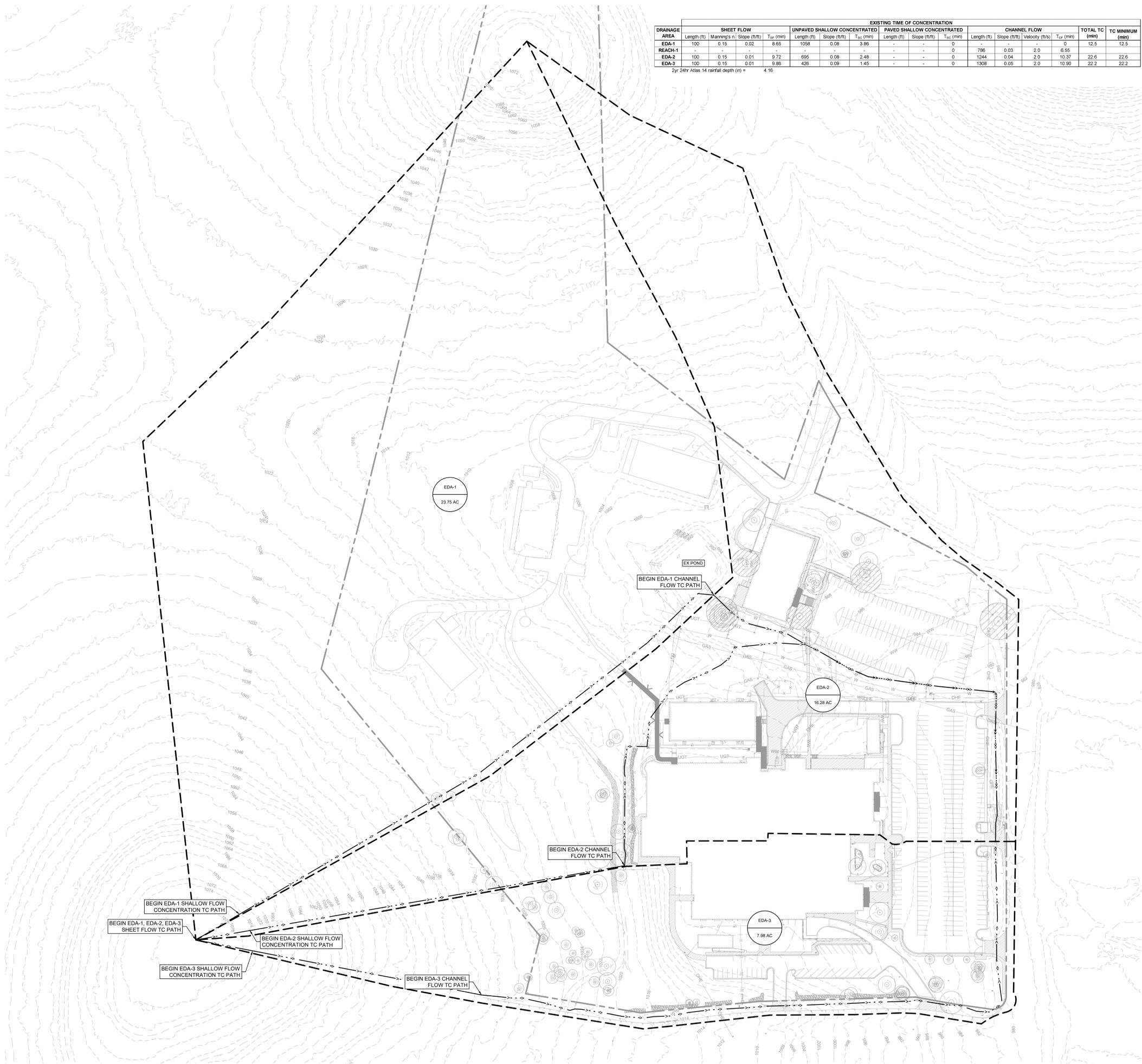
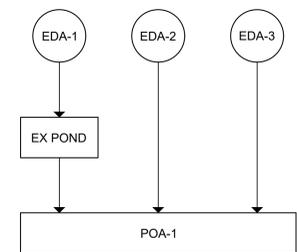


LEGEND

	AREA DESIGNATOR
	AREA IN ACRES
	PROPERTY LINE
	TIME OF CONCENTRATION FLOW LINE
	EXISTING DRAINAGE DIVIDE
	EXISTING CONTOUR
	EXISTING STORM LINE
	EXISTING FLOW DIRECTION
	EXISTING STORM INLET
	EXISTING STORM MANHOLE
	EXISTING STORM HEADWALL

NOTES:

- ALL DRAINAGE CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH ATLAS-14 RAINFALL INTENSITY VALUES.



BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.49
BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=970.47



NO.	DESCRIPTION	DATE	Revisions:

DRAINAGE AREA	SHEET FLOW			PROPOSED TIME OF CONCENTRATION						CHANNEL FLOW			TOTAL TC (min)	TC MINIMUM (min)	
	Length (ft)	Manrogs (ft)	Slope (ft/ft)	Length (ft)	Slope (ft/ft)	T <sub>cp</sub> (min)	Length (ft)	Slope (ft/ft)	T <sub>cp</sub> (min)	Length (ft)	Slope (ft/ft)	Velocity (ft/s)			T <sub>cp</sub> (min)
PDA-1	100	0.15	0.02	8.65	1058	0.08	3.86	-	-	0	-	-	0	12.5	12.5
REACH-1	-	-	-	-	-	-	-	-	-	786	0.03	2.0	6.55	-	-
PDA-2	100	0.15	0.07	5.31	95	0.06	0.41	-	-	0	941	0.04	2.0	7.84	13.6
PDA-3	100	0.15	0.01	9.86	426	0.09	1.45	-	-	0	1308	0.05	2.0	10.90	22.2

2yr 24hr Atlas 14 rainfall depth (in) = 4.16

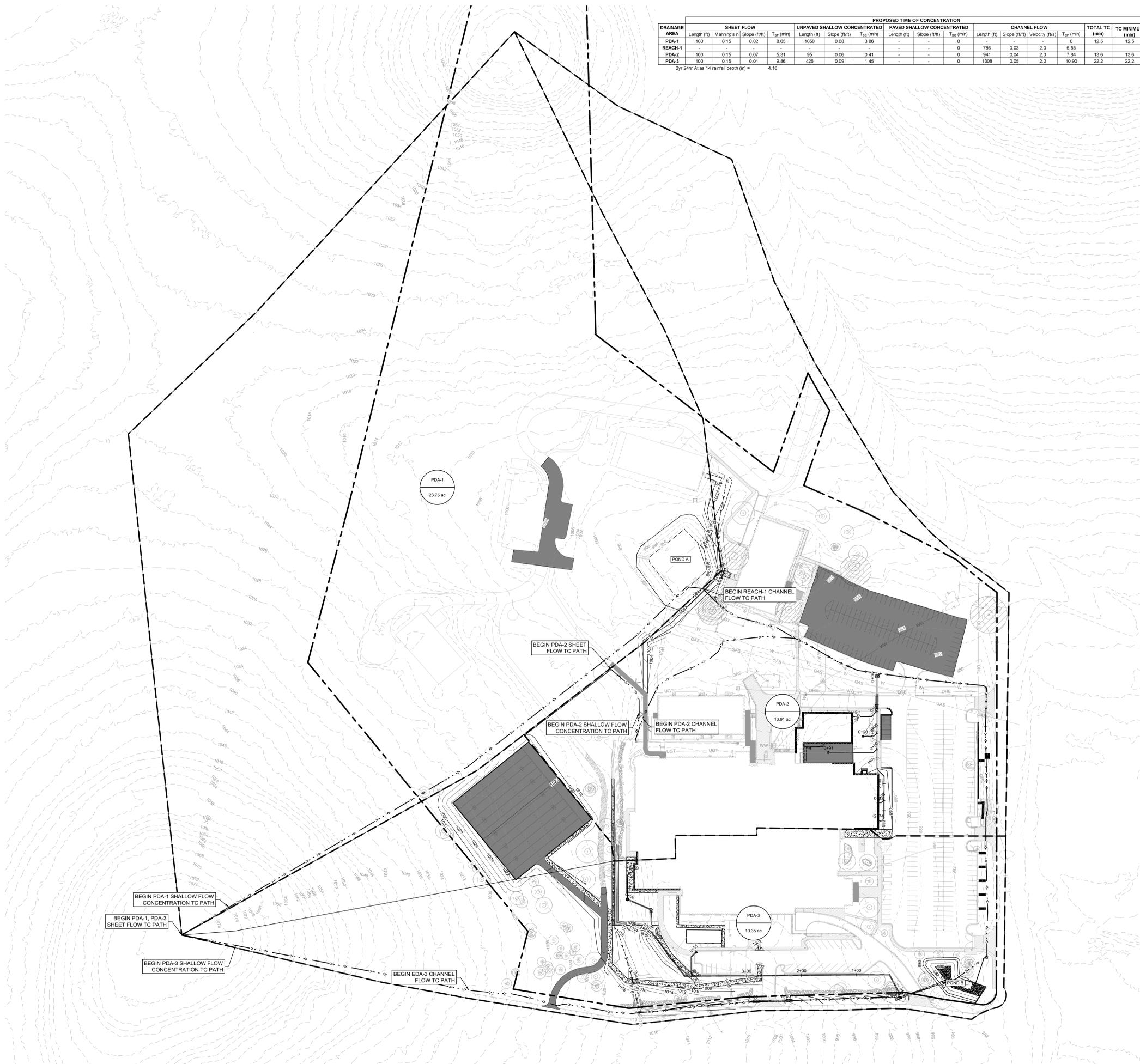
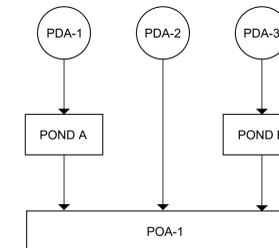


LEGEND

	AREA DESIGNATOR
	AREA IN ACRES
	PROPERTY LINE
	TIME OF CONCENTRATION FLOW LINE
	PROPOSED DRAINAGE DIVIDE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED STORM LINE
	PROPOSED FLOW DIRECTION
	PROPOSED STORM GRATE INLET
	PROPOSED STORM MANHOLE

NOTES:

- ALL DRAINAGE CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH ATLAS-14 RAINFALL INTENSITY VALUES.



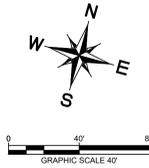
BENCHMARKS

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BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=970.47



NO.	DESCRIPTION	DATE	REVISIONS
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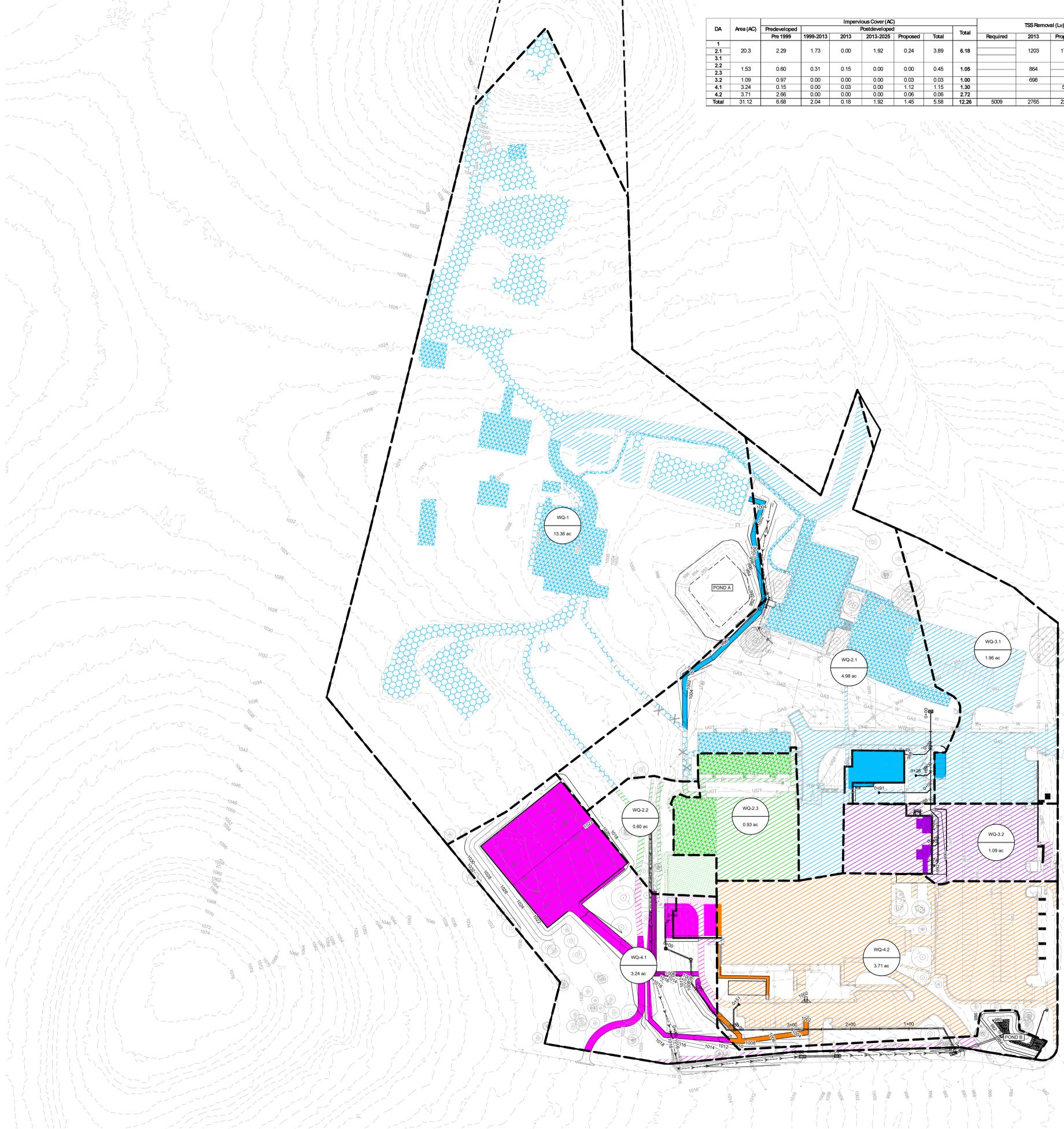
DA	Area (AC)	Impervious Cover (AC)						Total	TSS Removal (Lb)				BMP	Sizing	Units
		Pre 1999	1999-2013	2013	2013-2025	Proposed	Total		Required	2013	Proposed	Total			
1															
2.1	20.3	2.29	1.73	0.00	1.92	0.24	3.89	6.18		1203	1730	2933	VFS	3.32	AC Treated
3.1													VFS		
2.2	1.53	0.60	0.31	0.15	0.00	0.00	0.45	1.05		664		664	Jellyfish 1	0.44	CFS
2.3															
3.2	1.09	0.97	0.00	0.00	0.00	0.03	0.03	1.00		666		666	Jellyfish 2	0.22	CFS
4.1	3.34	0.16	0.00	0.03	0.00	1.12	1.15	1.30			530	530	Bioretention	1238	CF
4.2	3.71	2.66	0.00	0.00	0.00	0.06	0.06	2.72			0	0	Bypass	N/A	N/A
<b>Total</b>	<b>31.12</b>	<b>6.68</b>	<b>2.04</b>	<b>0.18</b>	<b>1.92</b>	<b>1.45</b>	<b>5.58</b>	<b>12.26</b>	<b>5009</b>	<b>2765</b>	<b>2260</b>	<b>5025</b>			



LEGEND

- X-1 AREA DESIGNATOR
- X.X AC AREA IN ACRES
- PROPERTY LINE
- TIME OF CONCENTRATION FLOW LINE
- PROPOSED DRAINAGE DIVIDE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED STORM LINE
- PROPOSED FLOW DIRECTION
- PROPOSED STORM GRATE INLET
- PROPOSED STORM MANHOLE
- PROPOSED IMPERVIOUS COVER
- EXISTING IMPERVIOUS COVER: PRE-1999
- EXISTING IMPERVIOUS COVER: 1999-2013
- EXISTING IMPERVIOUS COVER: 2013-2025
- CONTRIBUTING TO VFS (84% IC MANAGED)
- CONTRIBUTING TO JELLYFISH 1
- CONTRIBUTING TO JELLYFISH 2
- BYPASS WATER QUALITY
- CONTRIBUTING TO BIORETENTION

NOTES:  
 1. ALL DRAINAGE CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH ATLAS-14 RAINFALL INTENSITY VALUES.



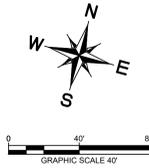
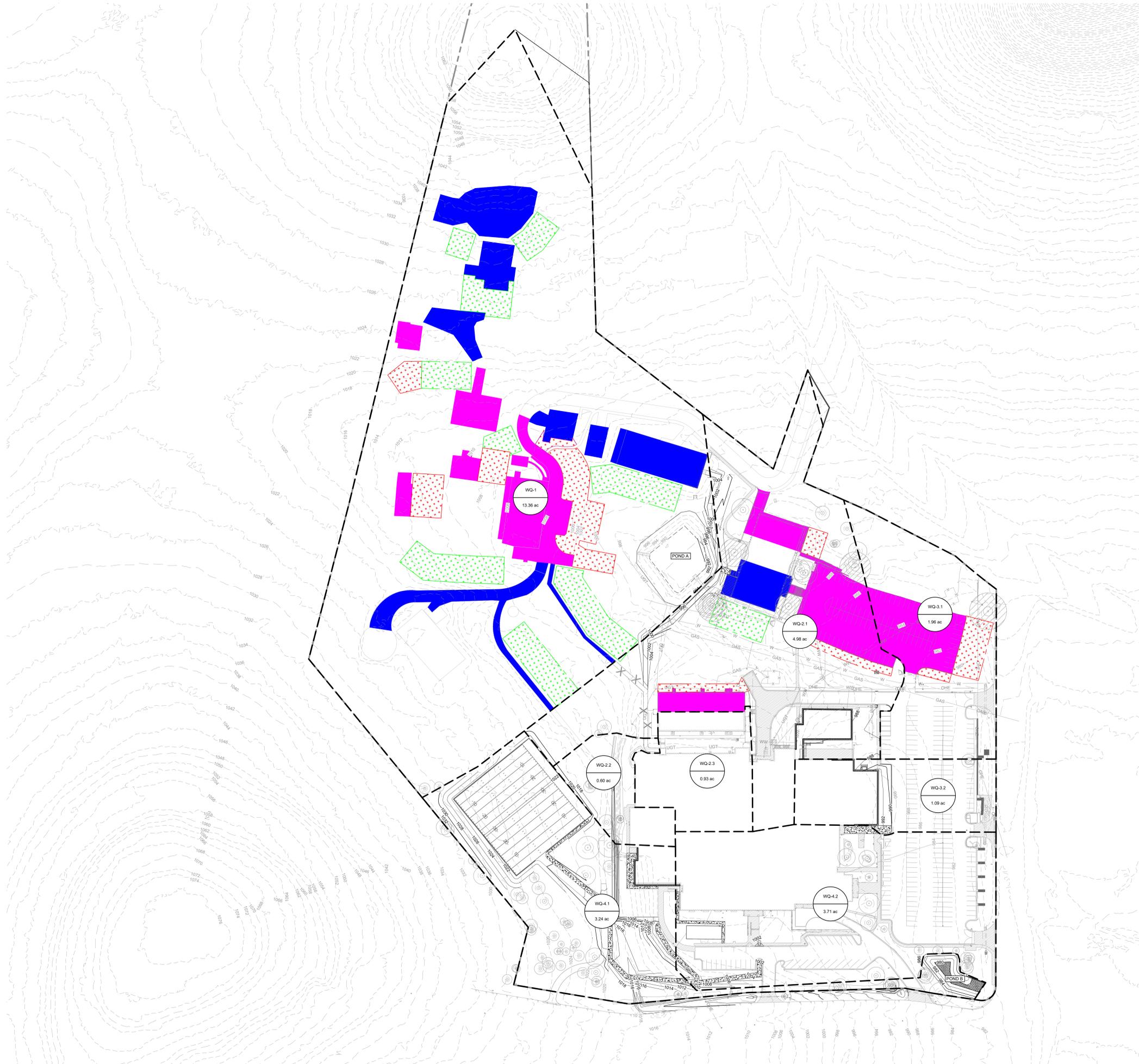
**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV = 980.56
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BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 970.47



Revisions:

NO.	DESCRIPTION	DATE



**LEGEND**

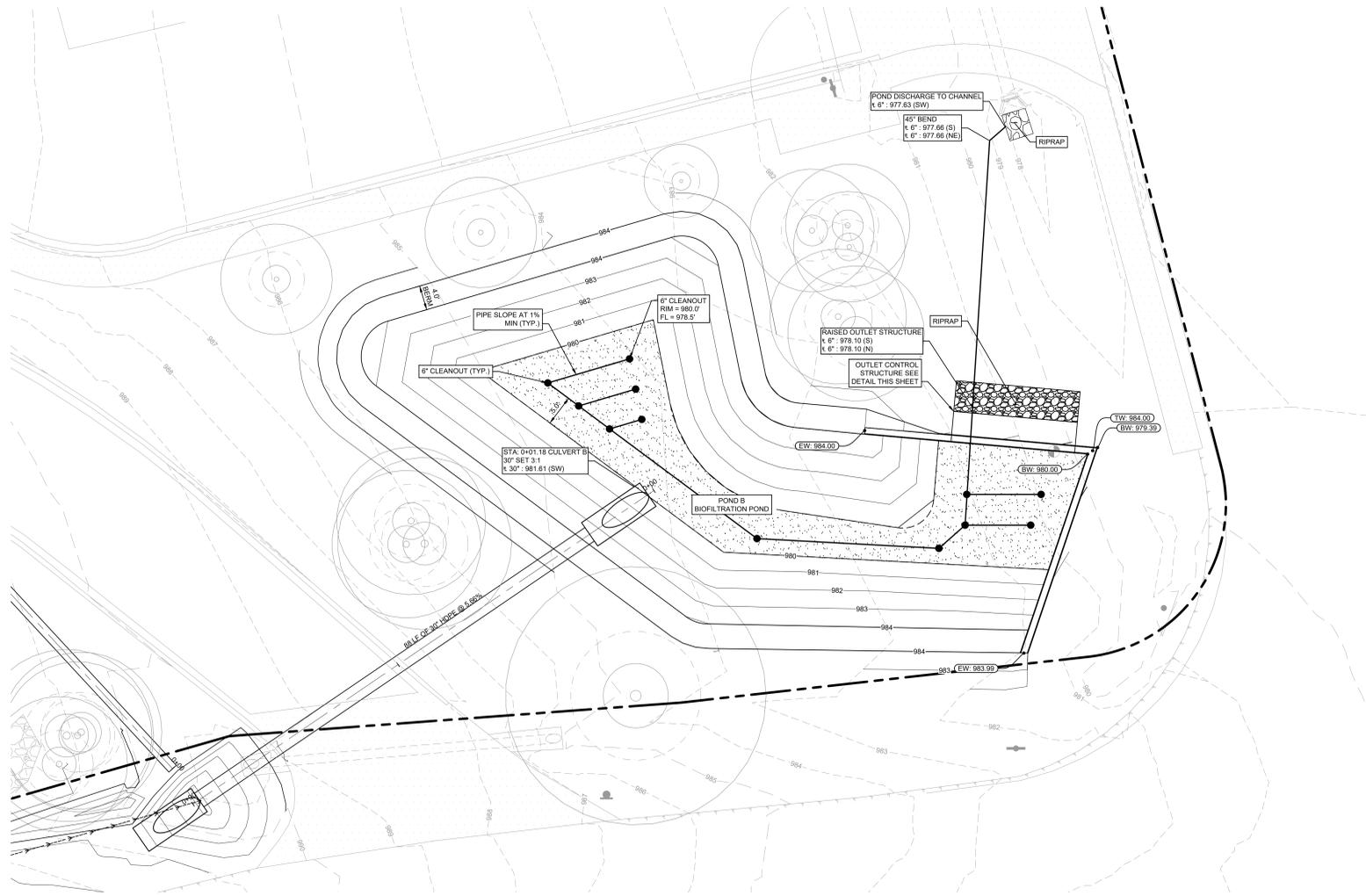
	AREA DESIGNATOR
	AREA IN ACRES
	PROPERTY LINE
	WATER QUALITY DIVIDE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	2013 C2P VEGETATIVE FILTER STRIP
	PROPOSED VEGETATIVE FILTER STRIP
	IMPERVIOUS COVER TREATED BY 2013 C2P VEGETATIVE FILTER STRIP
	IMPERVIOUS COVER TREATED BY PROPOSED VEGETATIVE FILTER STRIP

VEGETATIVE FILTER STRIP (VFS) WATER QUALITY TREATMENT SUMMARY TABLE		
IMPERVIOUS COVER	AREA	
	AC	%
TREATED BY 2013 C2P	1.921	85
TREATED BY PROPOSED	1.385	85
NOT TREATED	0.582	15
<b>TOTAL AREA</b>	<b>3.888</b>	

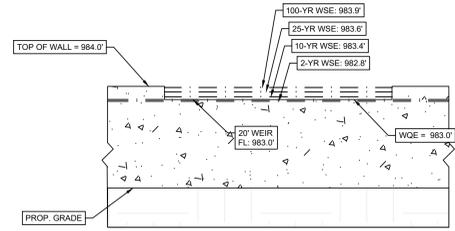


NO.	DESCRIPTION	DATE	REVISIONS

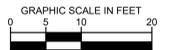
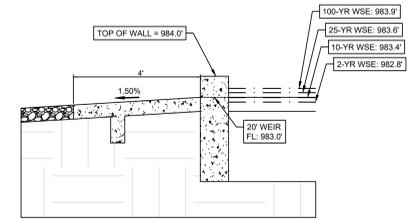




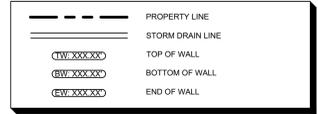
**OUTLET CONTROL STRUCTURE SECTION A-A**



**OUTLET CONTROL STRUCTURE SECTION B-B**



**LEGEND**



**NOTES:**

- ALL EARTHEN EMBANKMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE NO STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.

**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV = 972.96
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NO.	DESCRIPTION	DATE	Revisions:



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:

Page 3-29 Equation 3.3. Lr = 27.2(Au x P) Calculations from RG-348 Pages 3-27 to 3-30
where: Lr TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
Au = Net increase in impervious area for the project
P = Average annual precipitation, inches

Table with 2 columns: Category and Value. Includes Site Data: Determine Required Load Removal Based on the Entire Project. Total project area included in plan = 31.12 acres, etc.

\* The values entered in these fields should be for the total project area.
Number of drainage basins / outfalls areas leaving the plan area = 5

2. Drainage Basin Parameters (This information should be provided for each basin):
Drainage Basin/Outfall Area No. = 1, 2, 1, 3, 1
Total drainage basin/outfall area = 20.30 acres, etc.

3. Indicate the proposed BMP Code for this basin.
Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent
Aquaglogic Cartridge Filter, Bioretention, etc.

4. Calculate Maximum TSS Load Removed (Lr) for this Drainage Basin by the selected BMP Type.
RG-348 Page 3-33 Equation 3.7. Lr = (BMP efficiency) x P x (A1 x 34.6 + Au x 0.54)
where: Lr = TSS Load removed from this catchment area by the proposed BMP

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area.
Desired Lr TSS BASIS = 2933 lbs.
F = 0.47

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.
Rainfall Depth = 0.38 inches
Post Development Runoff Coefficient = 0.28
On-site Water Quality Volume = 7349 cubic feet

7. Retention/Irrigation System
Required Water Quality Volume for retention basin = NA cubic feet
Irrigation Area Calculations: Soil infiltration/permeability rate = 0.1 in/hr

8. Extended Detention Basin System
Required Water Quality Volume for extended detention basin = NA cubic feet

9. Filter area for Sand Filters
9A. Full Sedimentation and Filtration System
Water Quality Volume for sedimentation basin = NA cubic feet

9B. Partial Sedimentation and Filtration System
Water Quality Volume for combined basins = NA cubic feet

10. Bioretention System
Required Water Quality Volume for Bioretention Basin = NA cubic feet

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:

Page 3-29 Equation 3.3. Lr = 27.2(Au x P) Calculations from RG-348 Pages 3-27 to 3-30
where: Lr TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
Au = Net increase in impervious area for the project
P = Average annual precipitation, inches

Table with 2 columns: Category and Value. Includes Site Data: Determine Required Load Removal Based on the Entire Project. Total project area included in plan = 31.12 acres, etc.

\* The values entered in these fields should be for the total project area.
Number of drainage basins / outfalls areas leaving the plan area = 5

2. Drainage Basin Parameters (This information should be provided for each basin):
Drainage Basin/Outfall Area No. = 2, 2, 2, 3
Total drainage basin/outfall area = 1.93 acres, etc.

3. Indicate the proposed BMP Code for this basin.
Proposed BMP = Contech StormFilter
Removal efficiency = 83 percent
Aquaglogic Cartridge Filter, Bioretention, etc.

4. Calculate Maximum TSS Load Removed (Lr) for this Drainage Basin by the selected BMP Type.
RG-348 Page 3-33 Equation 3.7. Lr = (BMP efficiency) x P x (A1 x 34.6 + Au x 0.54)
where: Lr = TSS Load removed from this catchment area by the proposed BMP

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area.
Desired Lr TSS BASIS = 864 lbs.
F = 0.86

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.
Rainfall Depth = 1.38 inches
Post Development Runoff Coefficient = 0.48
On-site Water Quality Volume = 3773 cubic feet

7. Retention/Irrigation System
Required Water Quality Volume for retention basin = NA cubic feet
Irrigation Area Calculations: Soil infiltration/permeability rate = 0.1 in/hr

8. Extended Detention Basin System
Required Water Quality Volume for extended detention basin = NA cubic feet

9. Filter area for Sand Filters
9A. Full Sedimentation and Filtration System
Water Quality Volume for sedimentation basin = NA cubic feet

9B. Partial Sedimentation and Filtration System
Water Quality Volume for combined basins = NA cubic feet

10. Bioretention System
Required Water Quality Volume for Bioretention Basin = NA cubic feet

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:

Page 3-29 Equation 3.3. Lr = 27.2(Au x P) Calculations from RG-348 Pages 3-27 to 3-30
where: Lr TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
Au = Net increase in impervious area for the project
P = Average annual precipitation, inches

Table with 2 columns: Category and Value. Includes Site Data: Determine Required Load Removal Based on the Entire Project. Total project area included in plan = 31.12 acres, etc.

\* The values entered in these fields should be for the total project area.
Number of drainage basins / outfalls areas leaving the plan area = 5

2. Drainage Basin Parameters (This information should be provided for each basin):
Drainage Basin/Outfall Area No. = 3, 2
Total drainage basin/outfall area = 1.09 acres, etc.

3. Indicate the proposed BMP Code for this basin.
Proposed BMP = Contech StormFilter
Removal efficiency = 83 percent
Aquaglogic Cartridge Filter, Bioretention, etc.

4. Calculate Maximum TSS Load Removed (Lr) for this Drainage Basin by the selected BMP Type.
RG-348 Page 3-33 Equation 3.7. Lr = (BMP efficiency) x P x (A1 x 34.6 + Au x 0.54)
where: Lr = TSS Load removed from this catchment area by the proposed BMP

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area.
Desired Lr TSS BASIS = 698 lbs.
F = 0.74

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.
Rainfall Depth = 0.89 inches
Post Development Runoff Coefficient = 0.76
On-site Water Quality Volume = 2632 cubic feet

7. Retention/Irrigation System
Required Water Quality Volume for retention basin = NA cubic feet
Irrigation Area Calculations: Soil infiltration/permeability rate = 0.1 in/hr

8. Extended Detention Basin System
Required Water Quality Volume for extended detention basin = NA cubic feet

9. Filter area for Sand Filters
9A. Full Sedimentation and Filtration System
Water Quality Volume for sedimentation basin = NA cubic feet

9B. Partial Sedimentation and Filtration System
Water Quality Volume for combined basins = NA cubic feet

10. Bioretention System
Required Water Quality Volume for Bioretention Basin = NA cubic feet

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:

Page 3-29 Equation 3.3. Lr = 27.2(Au x P) Calculations from RG-348 Pages 3-27 to 3-30
where: Lr TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
Au = Net increase in impervious area for the project
P = Average annual precipitation, inches

Table with 2 columns: Category and Value. Includes Site Data: Determine Required Load Removal Based on the Entire Project. Total project area included in plan = 31.12 acres, etc.

\* The values entered in these fields should be for the total project area.
Number of drainage basins / outfalls areas leaving the plan area = 5

2. Drainage Basin Parameters (This information should be provided for each basin):
Drainage Basin/Outfall Area No. = 4, 1
Total drainage basin/outfall area = 3.24 acres, etc.

3. Indicate the proposed BMP Code for this basin.
Proposed BMP = Bioretention
Removal efficiency = 89 percent
Aquaglogic Cartridge Filter, Bioretention, etc.

4. Calculate Maximum TSS Load Removed (Lr) for this Drainage Basin by the selected BMP Type.
RG-348 Page 3-33 Equation 3.7. Lr = (BMP efficiency) x P x (A1 x 34.6 + Au x 0.54)
where: Lr = TSS Load removed from this catchment area by the proposed BMP

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area.
Desired Lr TSS BASIS = 550 lbs.
F = 0.39

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.
Rainfall Depth = 0.28 inches
Post Development Runoff Coefficient = 0.31
On-site Water Quality Volume = 1009 cubic feet

7. Retention/Irrigation System
Required Water Quality Volume for retention basin = NA cubic feet
Irrigation Area Calculations: Soil infiltration/permeability rate = 0.1 in/hr

8. Extended Detention Basin System
Required Water Quality Volume for extended detention basin = NA cubic feet

9. Filter area for Sand Filters
9A. Full Sedimentation and Filtration System
Water Quality Volume for sedimentation basin = NA cubic feet

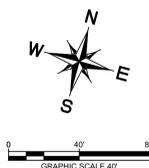
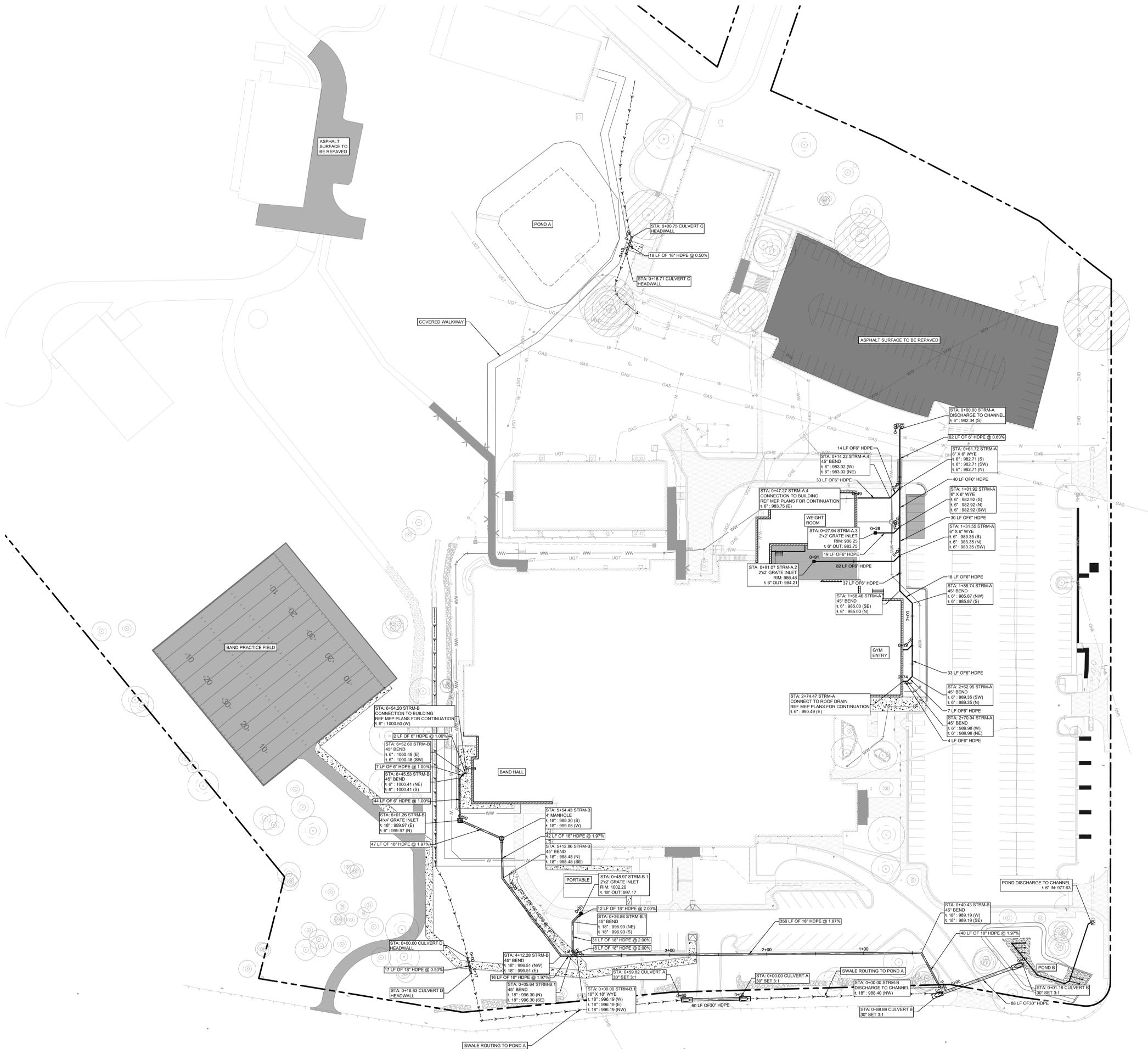
9B. Partial Sedimentation and Filtration System
Water Quality Volume for combined basins = NA cubic feet

10. Bioretention System
Required Water Quality Volume for Bioretention Basin = 1211 cubic feet



BENCHMARKS

Table with 2 columns: Benchmark ID and Description. Includes BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL", etc.



LEGEND

---	PROPERTY LINE
---	WASTEWATER LINE
---	WATER LINE
---	STORM DRAIN LINE
⊕	WASTEWATER MANHOLE
⊕	FDC
⊕	FIRE HYDRANT
⊕	STORM AREA INLET
⊕	STORM MANHOLE
---	EXISTING OVERHEAD POWER LINE
---	EXISTING WATER LINE
---	EXISTING WASTEWATER LINE
---	EXISTING STORM LINE
⊕	EXISTING WATER VALVE
⊕	EXISTING FIRE HYDRANT
⊕	EXISTING WASTEWATER MANHOLE
⊕	EXISTING WASTEWATER CLEANOUT
⊕	EXISTING STORM GRATE INLET
⊕	EXISTING UTILITY POLE
⊕	EXISTING LIGHT POLE
⊕	EXISTING ELECTRICAL BOX
⊕	EXISTING TELECOM
⊕	EXISTING TREE

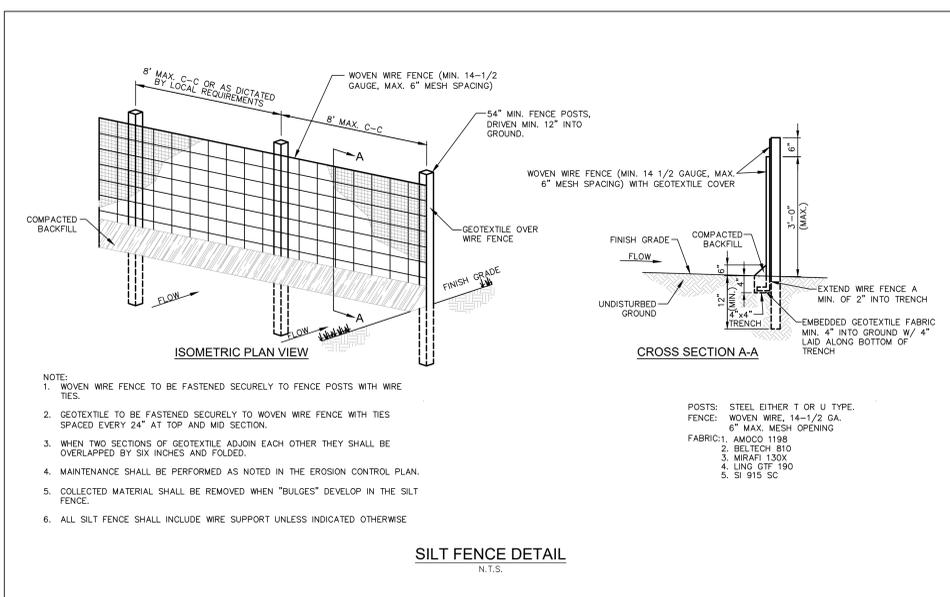
BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV=972.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV=980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV=980.49
BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV=970.47



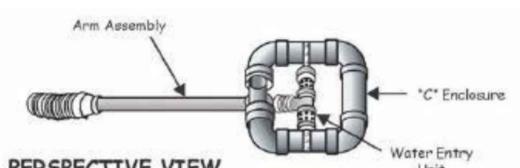
NO.	DESCRIPTION	DATE



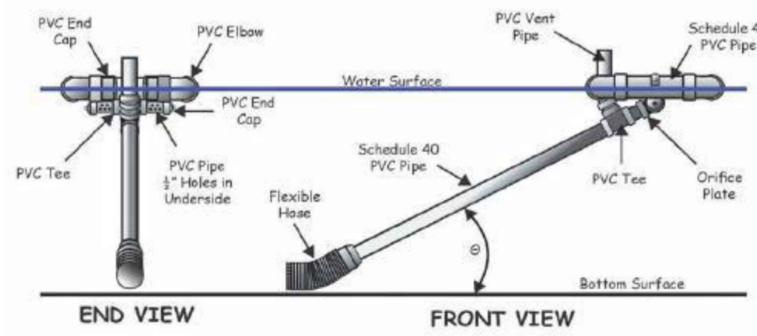


- NOTE:
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
  - GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN.
  - COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
  - ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE.

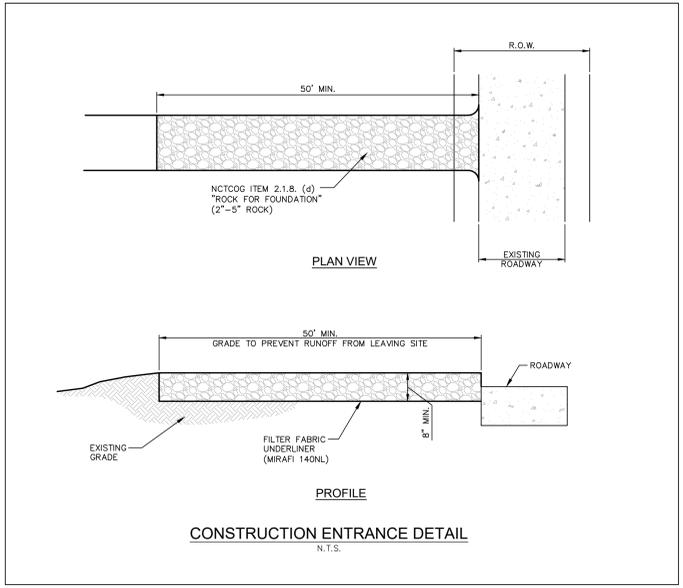
**SILT FENCE DETAIL**  
N.T.S.



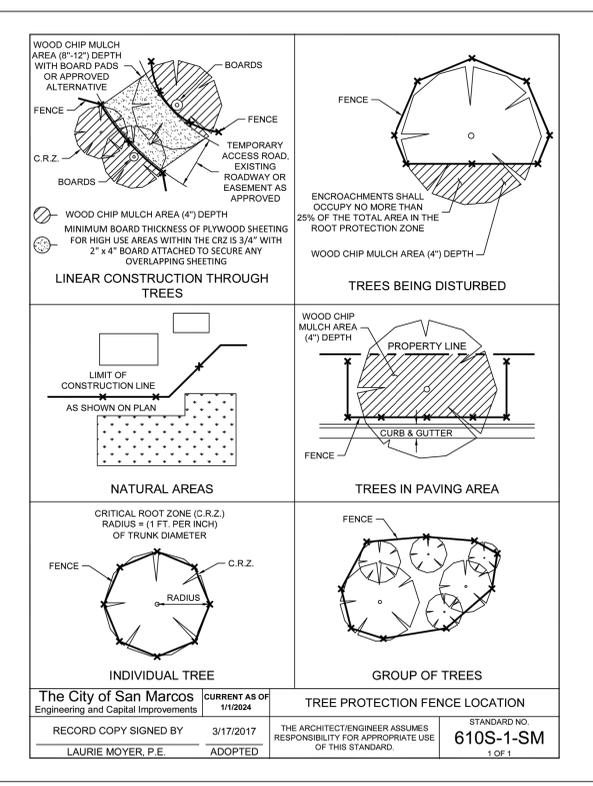
**PERSPECTIVE VIEW**



**Figure 6.64a Schematic of a skimmer, from Pennsylvania Erosion and Sediment Pollution Control Manual, March, 2000.**

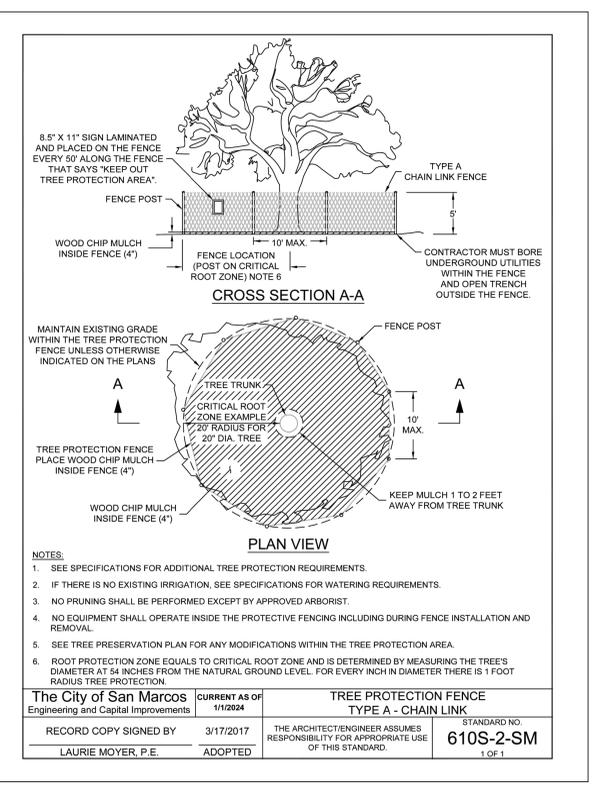


**CONSTRUCTION ENTRANCE DETAIL**  
N.T.S.



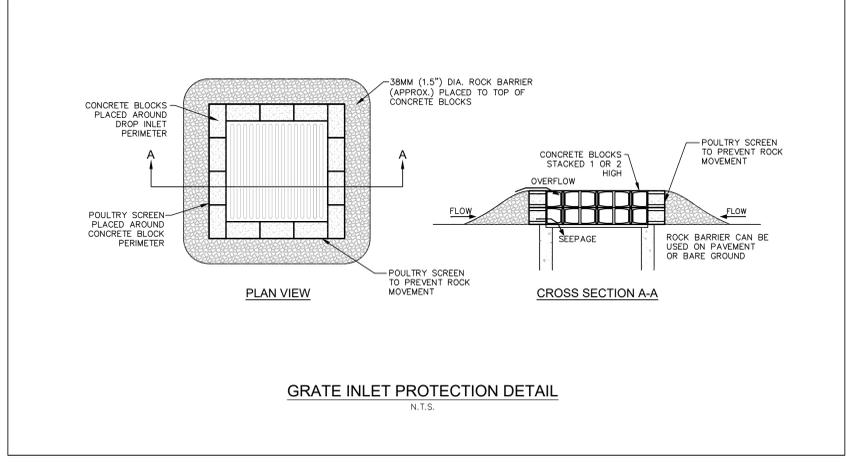
**The City of San Marcos** CURRENT AS OF 1/1/2024  
Engineering and Capital Improvements  
RECORD COPY SIGNED BY 3/17/2017  
LAURIE MOYER, P.E. ADOPTED

**TREE PROTECTION FENCE LOCATION** STANDARD NO. 610S-1-SM 1 OF 1  
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

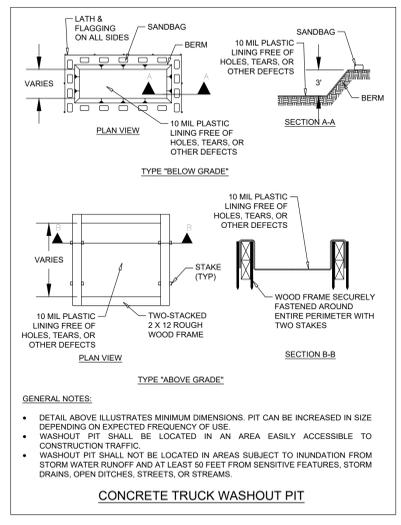


**The City of San Marcos** CURRENT AS OF 1/1/2024  
Engineering and Capital Improvements  
RECORD COPY SIGNED BY 3/17/2017  
LAURIE MOYER, P.E. ADOPTED

**TREE PROTECTION FENCE TYPE A - CHAIN LINK** STANDARD NO. 610S-2-SM 1 OF 1  
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



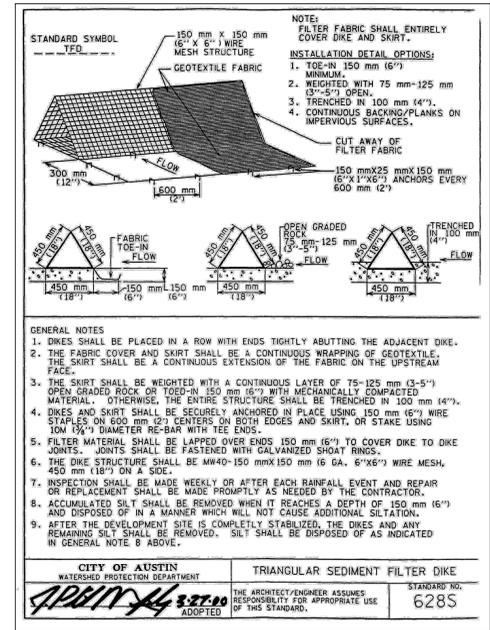
**GRATE INLET PROTECTION DETAIL**  
N.T.S.



**CONCRETE TRUCK WASHOUT PIT**

GENERAL NOTES:

- DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
- WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
- WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF AND AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.



**CITY OF AUSTIN** WATERSHED PROTECTION DEPARTMENT  
RECORD COPY SIGNED BY 3/27/20 ADOPTED

**TRIANGULAR SEDIMENT FILTER DIKE** STANDARD NO. 628S  
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

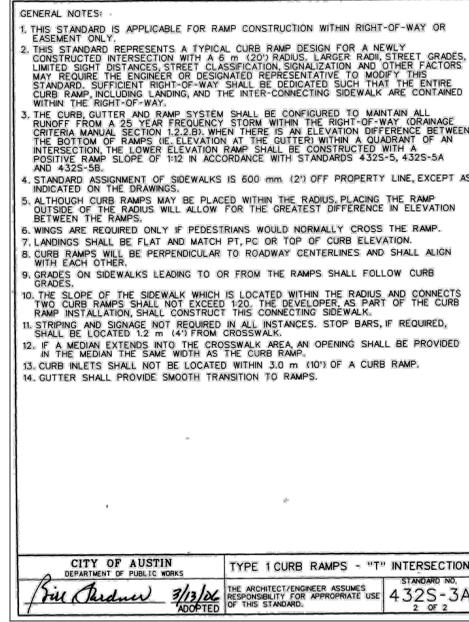
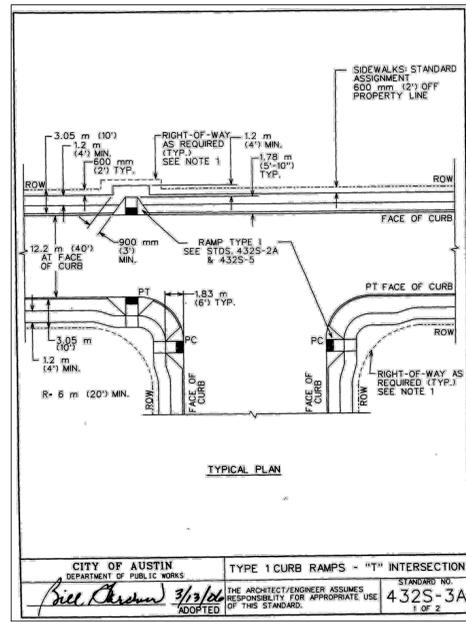
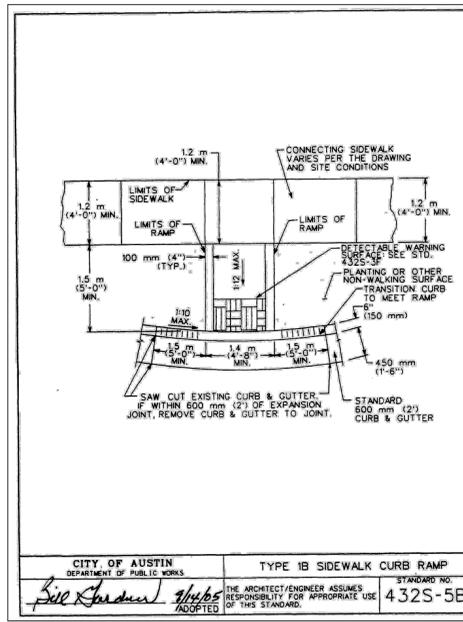
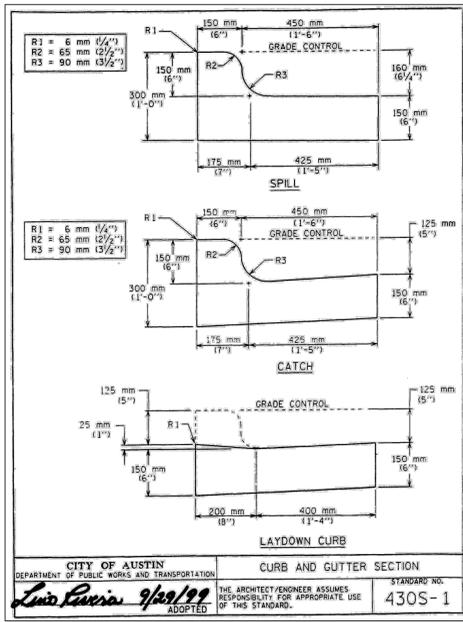
**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.98
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.49
BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=970.47

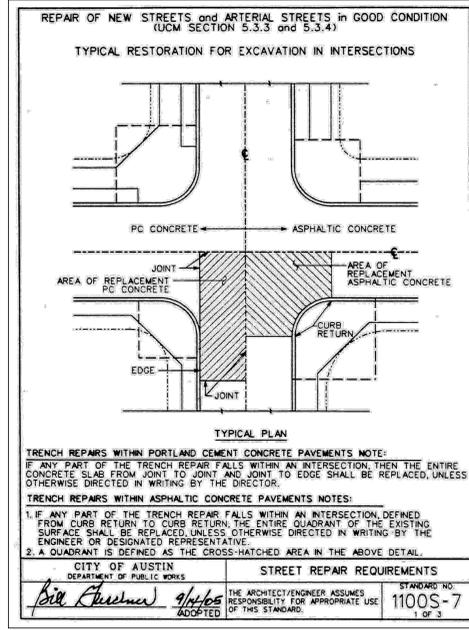
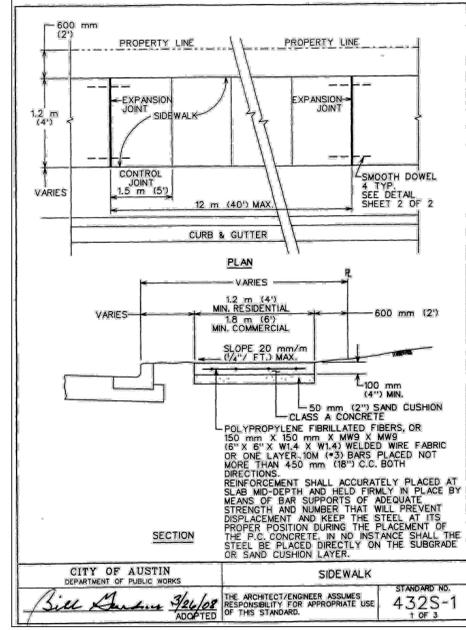
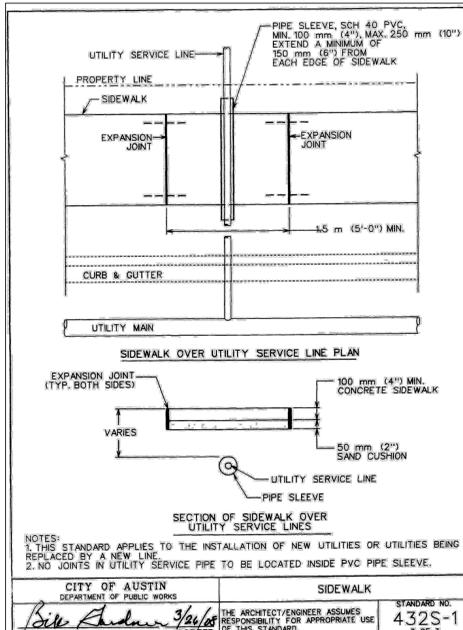
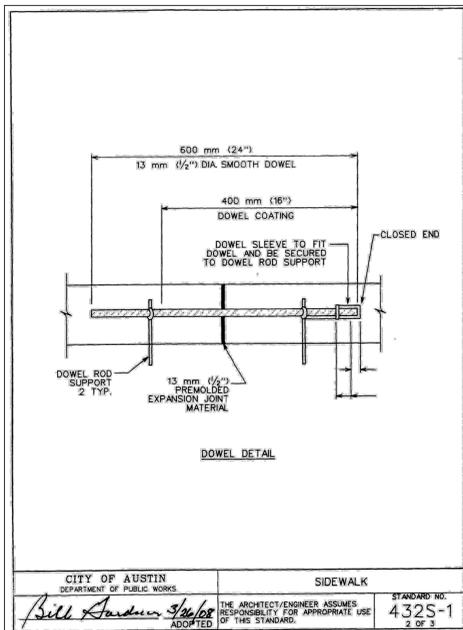


Revisions:

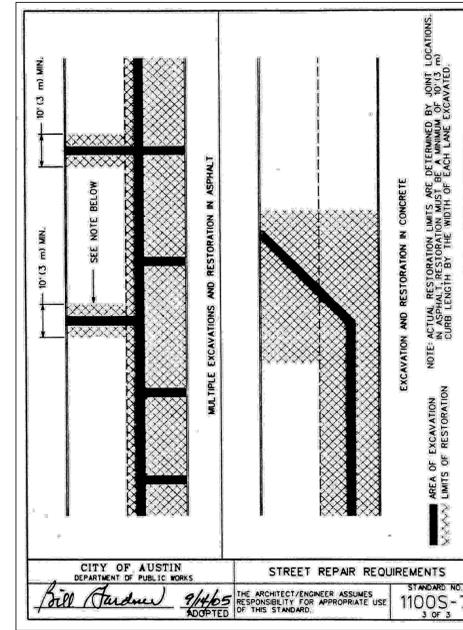
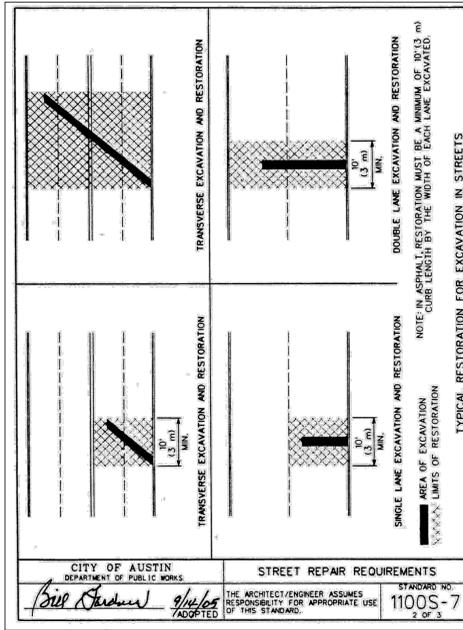
NO.	DESCRIPTION	DATE
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- GENERAL NOTES:**
- THIS STANDARD IS APPLICABLE FOR RAMP CONSTRUCTION WITHIN RIGHT-OF-WAY OR EASEMENT ONLY.
  - THIS STANDARD REPRESENTS A TYPICAL CURB RAMP DESIGN FOR A NEWLY CONSTRUCTED INTERSECTION WITH A 6 m (20') RADIUS. LARGER RADIUS STREET GRADES, LIMITED SIGHT DISTANCES, STREET CLASSIFICATION, SIGNALIZATION AND OTHER FACTORS MAY REQUIRE THE ENGINEER OR DESIGNATED REPRESENTATIVE TO MODIFY THIS STANDARD. SUFFICIENT RIGHT-OF-WAY SHALL BE DEDICATED SUCH THAT THE ENTIRE CURB RAMP, INCLUDING LANDING AND THE INTERCONNECTING SIDEWALK, ARE CONTAINED WITHIN THE RIGHT-OF-WAY.
  - THE CURB, GUTTER AND RAMP SYSTEM SHALL BE CONFIGURED TO MAINTAIN ALL RUNOFF FROM A 25 YEAR FREQUENCY STORM WITHIN THE RIGHT-OF-WAY (DRAINAGE CRITERIA MANUAL SECTION 1.2.2.B). WHEN THERE IS AN ELEVATION DIFFERENCE BETWEEN THE BOTTOM OF RAMPS (i.e. ELEVATION AT THE GUTTER) WITHIN A QUADRANT OF AN INTERSECTION, THE LOWER ELEVATION RAMP SHALL BE CONSTRUCTED WITH A POSITIVE RAMP SLOPE OF 1:12 IN ACCORDANCE WITH STANDARDS 432S-5, 432S-5A AND 432S-5B.
  - STANDARD ASSIGNMENT OF SIDEWALKS IS 600 mm (2') OFF PROPERTY LINE, EXCEPT AS INDICATED ON THE DRAWINGS.
  - ALTHOUGH CURB RAMPS MAY BE PLACED WITHIN THE RADIUS, PLACING THE RAMP OUTSIDE OF THE RADIUS WILL ALLOW FOR THE GREATEST DIFFERENCE IN ELEVATION BETWEEN THE RAMPS.
  - LANDINGS SHALL BE FLAT AND MATCH PT. PC OR TOP OF CURB ELEVATION.
  - CURB RAMPS WILL BE PERPENDICULAR TO ROADWAY CENTERLINES AND SHALL ALIGN WITH EACH OTHER.
  - GRADES ON SIDEWALKS LEADING TO OR FROM THE RAMPS SHALL FOLLOW CURB GRADES.
  - THE SLOPE OF THE SIDEWALK WHICH IS LOCATED WITHIN THE RADIUS AND CONNECTS TWO CURB RAMPS SHALL NOT EXCEED 1:20. THE DEVELOPER, AS PART OF THE CURB RAMP INSTALLATION, SHALL CONSTRUCT THIS CONNECTING SIDEWALK.
  - STRIPING AND SIGNAGE NOT REQUIRED IN ALL INSTANCES. STOP BARS, IF REQUIRED, SHALL BE LOCATED 1.2 m (4') FROM CROSSWALK.
  - IF A MEDIAN EXTENDS INTO THE CROSSWALK AREA AN OPENING SHALL BE PROVIDED IN THE MEDIAN THE SAME WIDTH AS THE CURB RAMP.
  - CURB INLETS SHALL NOT BE LOCATED WITHIN 3.0 m (10') OF A CURB RAMP.
  - GUTTER SHALL PROVIDE SMOOTH TRANSITION TO RAMPS.



- REPAIR OF NEW STREETS and ARTERIAL STREETS IN GOOD CONDITION (UCM SECTION 5.3.3 and 5.3.4)**
- TYPICAL RESTORATION FOR EXCAVATION IN INTERSECTIONS**
- TRENCH REPAIRS WITHIN PORTLAND CEMENT CONCRETE PAVEMENTS NOTE:**  
IF ANY PART OF THE TRENCH REPAIR FALLS WITHIN AN INTERSECTION, THEN THE ENTIRE CONCRETE SLAB FROM JOINT TO JOINT AND JOINT TO EDGE SHALL BE REPLACED, UNLESS OTHERWISE DIRECTED IN WRITING BY THE DIRECTOR.
- TRENCH REPAIRS WITHIN ASPHALTIC CONCRETE PAVEMENTS NOTES:**  
1. IF ANY PART OF THE TRENCH REPAIR FALLS WITHIN AN INTERSECTION, DEFINED FROM CURB RETURN TO CURB RETURN, THE ENTIRE QUADRANT OF THE EXISTING SURFACE SHALL BE REPLACED, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.  
2. A QUADRANT IS DEFINED AS THE CROSS-HATCHED AREA IN THE ABOVE DETAIL.



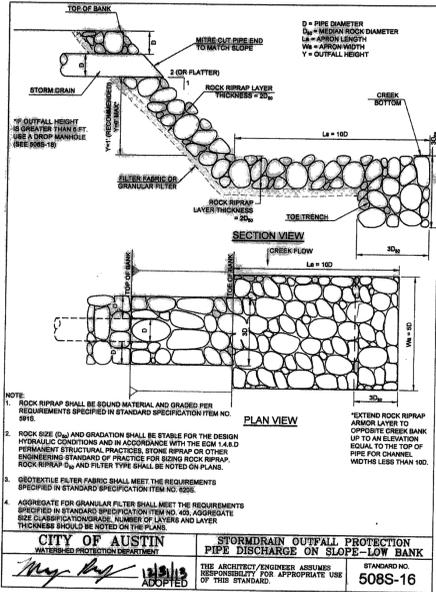
**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV: 982.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: 980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: 980.49
BM #4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: 970.47



Revisions:

NO.	DESCRIPTION	DATE



**CROSS PIPE LENGTHS AND PIPE RUNNER LENGTHS**

Nominal Pipe Size (D)	Pipe Culvert Length	Cross Pipe Length	3:1 Side Slope						4:1 Side Slope					
			0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew				
24"	1'-7"	3'-3"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27"	1'-8"	3'-8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30"	1'-10"	3'-11"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33"	1'-11"	4'-2"	6'-2"	6'-2"	7'-3"	7'-3"	8'-6"	8'-6"	10'-0"	10'-0"	11'-2"	11'-2"	12'-7"	12'-7"
36"	2'-1"	4'-5"	6'-11"	6'-11"	7'-9"	7'-9"	9'-6"	9'-6"	11'-1"	11'-1"	12'-7"	12'-7"	14'-2"	14'-2"
42"	2'-4"	4'-11"	6'-8"	6'-8"	8'-10"	8'-10"	11'-2"	11'-2"	13'-0"	13'-0"	14'-2"	14'-2"	16'-7"	16'-7"
48"	2'-7"	5'-3"	10'-1"	10'-1"	11'-9"	11'-9"	N/A	N/A	12'-7"	12'-7"	14'-2"	14'-2"	16'-7"	16'-7"
54"	3'-0"	5'-11"	11'-8"	11'-8"	12'-1"	12'-1"	N/A	N/A	15'-8"	15'-8"	N/A	N/A	N/A	N/A
60"	3'-3"	6'-5"	12'-3"	12'-3"	N/A	N/A	N/A	N/A	17'-9"	17'-9"	N/A	N/A	N/A	N/A

**CONDITIONS WHERE PIPE RUNNERS ARE NOT REQUIRED**

Nominal Pipe Size (D)	Multiple Pipe Culverts	Single Pipe Culvert
12" thru 21"	Skews thru 45°	Skews thru 45°
24"	Skews thru 45°	Skews thru 30°
27"	Skews thru 30°	Skews thru 15°
30"	Skews thru 15°	Skews thru 15°
33"	Skews thru 15°	Always required
36"	Normal (no skew)	Always required
42" thru 60"	Always required	Always required

**ESTIMATED CONCRETE RIPRAP QUANTITIES (CY)**

Nominal Pipe Size (D)	3:1 Side Slope			4:1 Side Slope		
	0° Skew	15° Skew	30° Skew	0° Skew	15° Skew	30° Skew
12"	0.4	0.4	0.5	0.3	0.3	0.3
15"	0.5	0.5	0.5	0.6	0.6	0.6
18"	0.5	0.5	0.6	0.6	0.6	0.7
21"	0.6	0.6	0.7	0.7	0.7	0.8
24"	0.6	0.7	0.7	0.8	0.8	0.8
27"	0.7	0.7	0.8	0.9	0.9	0.9
30"	0.8	0.8	0.9	0.9	0.9	1.0
33"	0.8	0.8	0.9	1.0	1.0	1.1
36"	0.9	0.9	1.1	1.1	1.2	1.2
42"	1.0	1.0	1.1	1.2	1.3	1.4
48"	1.1	1.1	1.2	N/A	1.4	1.5
54"	1.2	1.2	N/A	N/A	1.6	1.8
60"	1.4	N/A	N/A	N/A	N/A	2.3

**TYPICAL PIPE CULVERT MITERS**

**CONDITIONS WHERE PIPE RUNNERS ARE NOT REQUIRED**

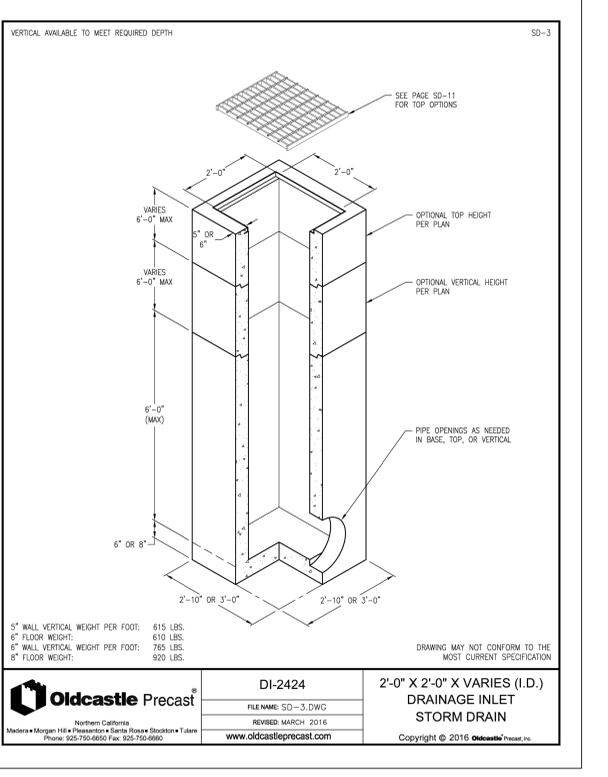
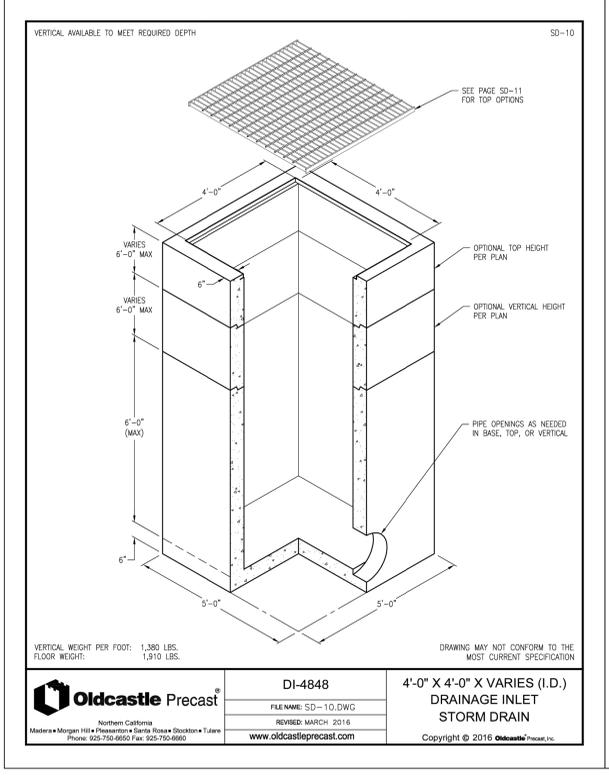
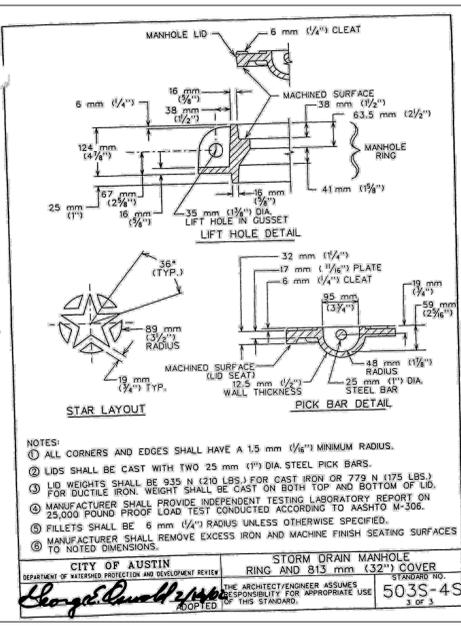
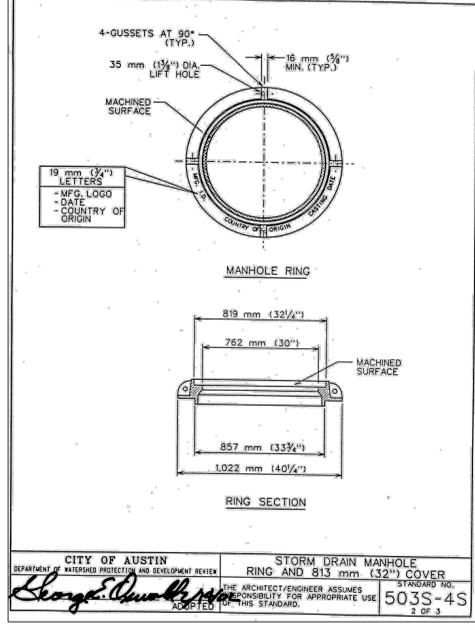
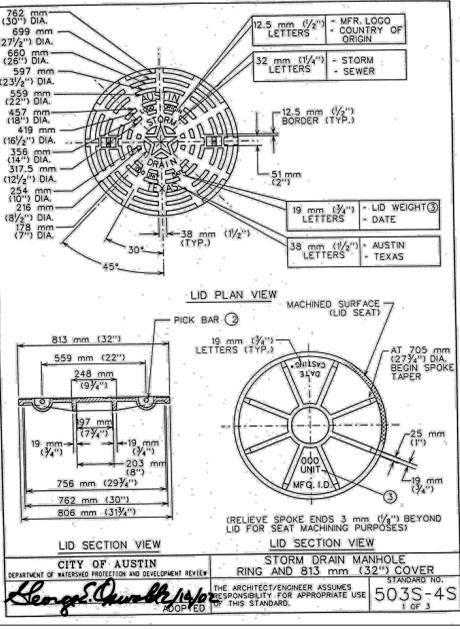
**STANDARD PIPE SIZES AND MAX PIPE RUNNER LENGTHS**

**ESTIMATED CONCRETE RIPRAP QUANTITIES (CY)**

**ISOMETRIC VIEW OF TYPICAL INSTALLATION**

**NOTE:**  
 1. Provide pipe runner of the size shown in the tables. Provide cross pipe of the same size as the pipe runner. Provide cross pipe stub out and bottom anchor plate of the next smaller size pipe as shown on the Standard Pipe Sizes and Max Pipe Runner Lengths table. Conditions must be met!  
 2. For 60" culvert pipes, the skew must not exceed 0°. For 54" culvert pipes, the skew must not exceed 15°. For 48" culvert pipes, the skew must not exceed 30°. For all culvert pipe sizes 42" and less, the skew must not exceed 45°.  
 3. If the above conditions cannot be met, the designer should consider using a safety and treatment with "bar" strips. For further information, refer to the TxDOT Roadway Design Manual.  
 4. Miter in slope of mitered end of pipe culvert.  
 5. Riprap placed beyond the limits shown will be paid for as concrete riprap in accordance with Item 622 "Riprap".  
 6. Quantities shown are for one end of one reinforced concrete pipe (RCP) culvert. For multiple pipe culverts or for corrugated metal pipe (CMP) culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

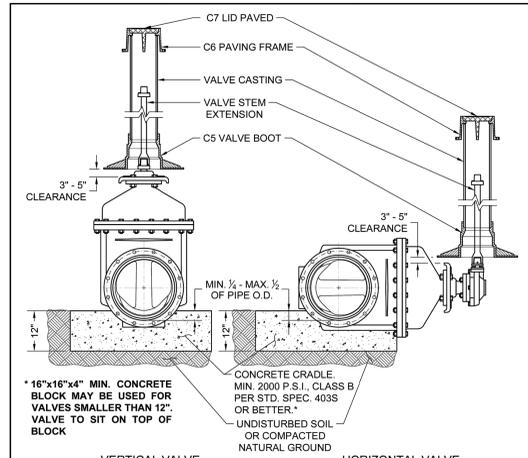
**CITY OF AUSTIN**  
 DEPARTMENT OF WATER RESOURCES PROTECTION AND DEVELOPMENT REVIEW  
 STORM DRAIN MANHOLE RING AND 813 mm (32") COVER  
 THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.  
 503S-4S  
 1 OF 3



**BENCHMARKS**

BM#	DESCRIPTION	ELEVATION
BM#1	1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"	ELEV: 892.96
BM#2	NAIL WITH SHINER STAMPED "MTR ENGINEERING"	ELEV: 880.56
BM#3	NAIL WITH SHINER STAMPED "MTR ENGINEERING"	ELEV: 880.49
BM#4	NAIL WITH SHINER STAMPED "MTR ENGINEERING"	ELEV: 890.47





**VERTICAL VALVE**  
ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

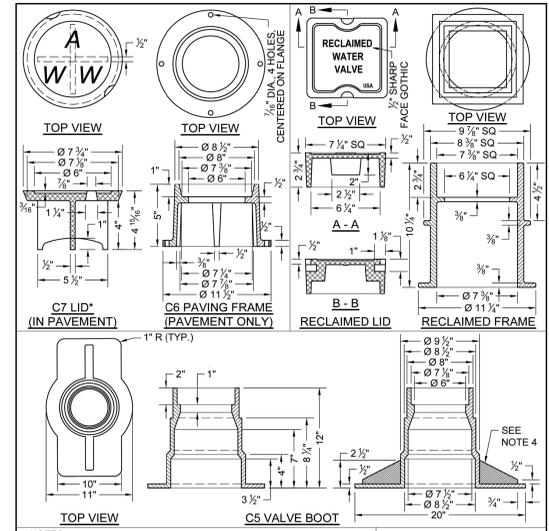
**HORIZONTAL VALVE**  
ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

**NOTES:**

- WELD SOCKET 2 1/2" x 2" DEEP TO 1" SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT. (SCH. 80 FOR LENGTHS OVER 10')
- VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.
- NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2" LONG WELDED TO TOP OF ROD.
- VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3' DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12" AND 18" FROM FINISHED GRADE.

**RECLAIMED WATER:** ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL LWW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	STANDARD NO. 511-AW-01 1 OF 4
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	05/18/2016 ADOPTED



**NOTES:**

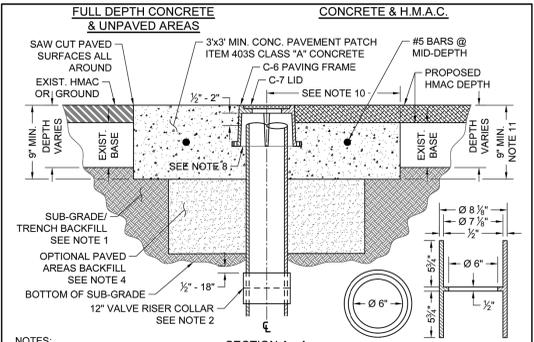
- MATERIAL SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
- THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER, AND THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH LID, FRAME, COLLAR AND BASE.
- DRAFT AND SHRINKAGE ALLOWANCE SHALL BE IN ACCORDANCE WITH NORMAL FOUNDRY PRACTICE.
- CASTING FINISH BY MANUFACTURER SHALL INCLUDE REMOVAL OF FINIS AND FLASHING, AND PAINT WITH BLACK ASPHALT COATING.

**WEIGHTS:**

C7 LID: 13 LBS  
RECLAIMED LID: 15 LBS  
C6 FRAME: 23 LBS  
RECLAIMED FRAME: 33 LBS  
C5 BASE: 78 LBS

\* LETTERING SHALL BE 1 1/2" TYP.  
2 PICK BAR SLOTS REQUIRED

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	STANDARD NO. 511-AW-01 2 OF 4
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	05/18/2016 ADOPTED



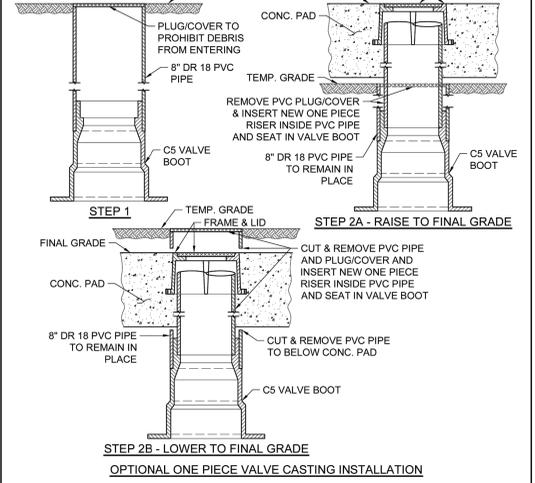
**NOTES:**

- SUB-GRADE/TRENCH BACKFILL SHALL BE COMPACTED AS PER ITEM 201S, SUB-GRADE PREPARATION.
- TO ADJUST VALVE CASTINGS TO FINAL GRADE, REMOVE RISER PIPE BELOW SUB-GRADE AND INSTALL APPROPRIATE LENGTH OF NEW RISER PIPE TO ACHIEVE FINAL GRADE. CONNECT THE TWO PIECES OF RISER PIPE WITH A 6" COLLAR MIN. 12" LENGTH APPROXIMATELY CENTERED ON THE JOINT WITH THE TOP OF SLEEVE LOCATED 1/2" - 18" BELOW SUB-GRADE. THE INSIDE "LIP" OF COLLAR TO BE PAINTED WITH FLUORESCENT WHITE PAINT OR COVERED WITH FLUORESCENT WHITE TAPE ALTERNATE: FOR OPTIONAL SINGLE PIECE RISER INSTALLATION SEE SHEET 4 OF 4.
- CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE NUT OF THE VALVE; NUT SHALL OPERATE WITH NO OBSTRUCTION.
- WHERE CASTINGS TO BE REMOVED REQUIRE EXCAVATION GREATER THAN 20" DEEP, CONTRACTOR MAY ELECT TO FILL EXCAVATION WITH CONTROLLED LOW STRENGTH MATERIAL (SPEC. ITEM 402S) TO THE UNDERSIDE OF THE CONCRETE. PAVEMENT PATCH IN LIEU OF COMPACTED BACKFILL.
- REINFORCING STEEL SHALL MEET SPEC. ITEM 406S.7.
- NO MORE THAN 2 SECTIONS OF PIPE SHALL BE USED FROM VALVE TO FINAL GRADE.
- BELL AND SPIGOT IS ACCEPTABLE FOR DEPTH OVER 18".

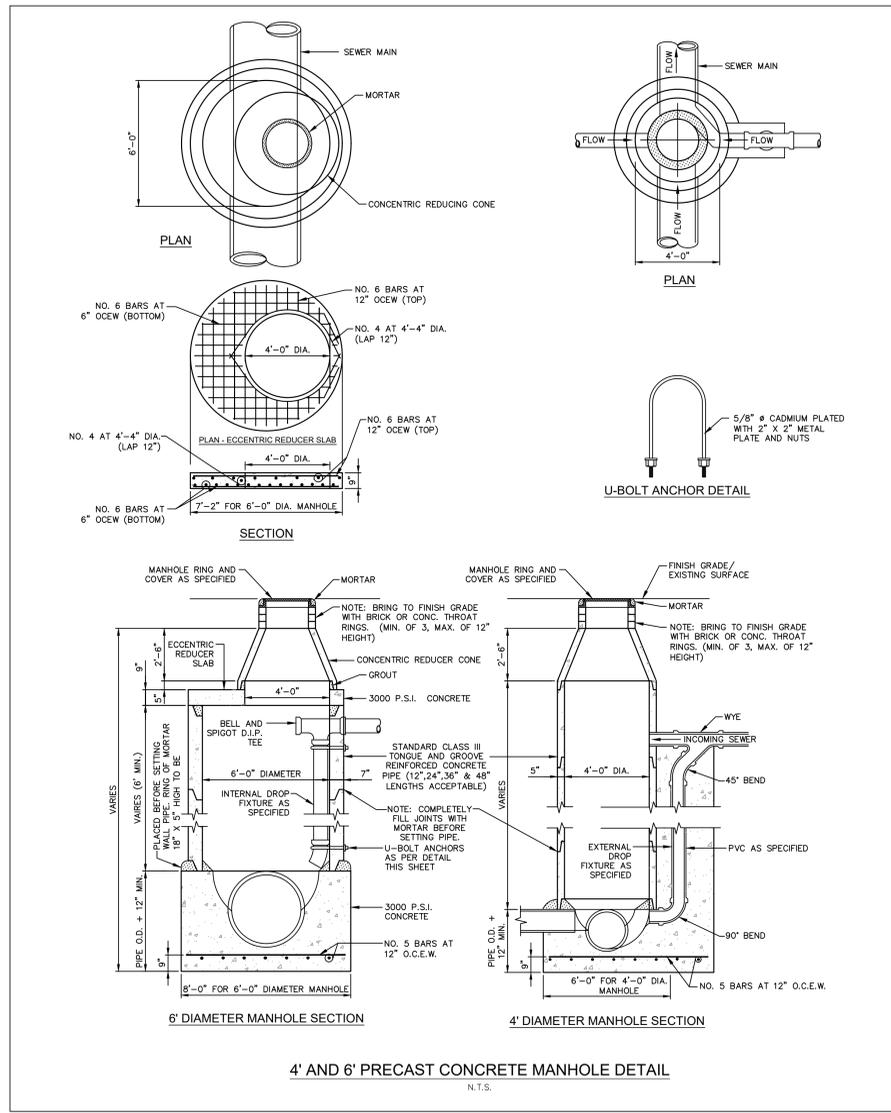
CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	STANDARD NO. 511-AW-01 3 OF 4
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	05/18/2016 ADOPTED

**NOTES (CONT):**

- PAVING FRAME SHALL BE FLUSH WITH THE CONC. PAD AND PLACED 1/2" - 2" ABOVE RISER PIPE (FRAME SHALL NOT REST ON RISER).
- IN UNPAVED AREAS, INSTALL ONE DELINEATOR STAKE IMMEDIATELY ADJACENT TO THE EDGE OF THE CONCRETE PAD. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES.
- VALVE SHALL TYPICALLY BE CENTERED IN CONCRETE DIAMOND BUT MAY BE OFFSET WITH A MIN. OF 12" FROM CENTER OF VALVE LID TO EDGE OF CONCRETE IN ALL DIRECTIONS.
- MIN. TOTAL DEPTH OF ASPHALT PLUS CONC. IS 9" AND MIN. DEPTH OF CONC. PAD SHALL BE 5"



CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	STANDARD NO. 511-AW-01 4 OF 4
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	05/18/2016 ADOPTED



**4\"/>**

**BENCHMARKS**

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV: #972.96	11/19/2025
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: #980.56	Project No. 2525.01
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: #980.49	PACKAGE 2 - 100% DESIGN DEVELOPMENT
BM #4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV: #970.47	UTILITY DETAILS



**Attachment N**  
**Inspection, Maintenance, Repair and Retrofit Plan**

## Inspection, Maintenance, Repair, and Retrofit Plan

The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site specific and weather-related conditions

It is the responsibility of the owner to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility for the maintenance will be required to be transferred through the lease agreement, binding covenants, closing documents, or other binding legal instrument.

Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities. All inspections shall be documented.

### Inspection and Maintenance for BMPs

The below procedures apply to both the detention pond and biofiltration pond. Biofiltration ponds may have somewhat higher maintenance requirements than a detention pond since they are active stormwater controls. The maintenance activities are identical to those of detention ponds with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

**Inspections.** Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operations of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in pervious sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of the BMP should be identified and repaired/revegetated immediately.

**Mowing.** The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

**Litter and Debris Removal.** Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

**Erosion Control.** The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may

be necessary. Correction of erosion control should take place whenever required based on periodic inspections.

**Nuisance Control.** Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

**Structural Repairs and Replacement.** With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

**Sediment Removal.** A properly designed biofiltration pond will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

**Logic Controller.** The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) operate properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed during the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset. A ladder may be required during the inspection process to access the controller box.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Signature of Owner/Responsible Party:



A handwritten signature in blue ink, reading "Greg Bonebrake", is written over a horizontal line.

**Attachment O**  
**Pilot-Scale Field Testing Plan**  
**(Not Applicable)**

**Attachment P**  
**Measures for Minimizing Surface Stream**  
**Contamination**  
**(Not Applicable)**

# 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: Lexie England

Date: 1/7/2026

Signature of Customer/Agent:

  
\_\_\_\_\_

Regulated Entity Name: Wimberley ISD

## 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: Blanco River

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

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

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

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

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

### ***Soil Stabilization Practices***

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

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

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

### ***Administrative Information***

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

**Attachment A**  
**Spill Response Actions**

## Spill Response Actions

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

### Cleanup

- Clean up leaks and spills immediately.
- 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.
- Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

### Minor Spills

- 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.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
  - Contain the spread of the spill.
  - Recover spilled materials.
  - Clean the contaminated area and properly dispose of contaminated materials.

### Semi-Significant Spills

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

Spills should be cleaned up immediately:

- Contain spread of the spill.
- Notify the project foreman immediately.
- 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.

- If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

## **Significant/Hazardous Spills**

For significant or hazardous spills that are in reportable quantities:

- 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.
- 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.
- Notification should first be made by telephone and followed up with a written report.
- 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.
- Other agencies which may need to be consulted include, but not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

TCEQ Reportable Quantities Link:

<https://www.tceq.texas.gov/response/spills>

**Attachment B**  
**Potential Sources of Contamination**

## **Potential Sources of Contamination**

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

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

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

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

Potential Source: Construction Debris.

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

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

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

Potential Source: Silt leaving the site; Sediment from soil, sand, gravel and excavated materials stockpiled on site.

Preventative Measures: Silt fence shall be installed on the downgradient side of the stockpiled materials. Contractor will install all temporary best management practices prior to start of construction including the stabilized construction entrance to prevent tracking onto adjoining streets.

**Attachment C**  
**Sequence of Major Activities**

## Sequence of Major Activities

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site. The sequence of major construction activities will be as follows. Approximate acreage to be disturbed is listed in parentheses next to each activity.

### **Intended Schedule or Sequence of Major Activities:**

1. Construct Access (6.3424 acres).
2. Installation of Temporary BMPs (up to 6.3424 acres)
3. Wet and Dry Utility Construction (up to 6.3424 acres)
4. Final Subgrade Preparation (up to 4.8643 acres)
5. Installation of Base Materials (1.1854 acres)
6. Concrete (foundations, curbs, flatwork) (1.1854 acres)
7. Building Construction (0.3945 acres)
8. Topsoil, Irrigation, and Landscaping (up to 3.6153 Acres)
9. Site Cleanup and Removal of Temporary BMPs (up to 4.8643 Acres)

The maximum total construction time is not expected to exceed 12 months.

**Attachment D**  
**Temporary Best Management Practices and**  
**Measures**

## **Temporary Best Management Practices and Measures**

Temporary BMPs will be installed prior to soil distributing and construction activity:

A. Sediment Control Fence – This BMP prevents the transport of sediment from going off-site during storm events. This BMP is used in grass areas and will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area.

B. Triangular Filter Dike – This BMP prevents the transport of sediment from going off-site during storm events. This BMP is used on paved areas and will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area.

C. Temporary Seeding – This BMP stabilizes the soil from being washed away in a storm event

D. Offsite Vehicle Tracking Controls – This BMP removes excess dirt/mud on road daily, haul roads dampened for dust control, loaded haul trucks to be covered with tarpaulin, stabilized construction entrance.

E. Concrete Washout Pit – This BMP will be used to collect all excess concrete during construction.

F. Practices may also be implemented on site for interim and permanent stabilization. Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, and other similar measures.

**Attachment E**  
**Request to Temporarily Seal a Feature**  
**(Not Applicable)**

**Attachment F**  
**Structural Practices**

## Structural Practices

Structural BMPs will be used to limit runoff discharge of pollutants from exposed areas of the site. BMPs will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed at the site entry/exit point to reduce tracking onto adjoining streets. A construction staging area will be used onsite to perform all vehicle maintenance and for equipment and material storage. A concrete truck washout pit will be placed on site to provide containment and easier cleanup of waste from concrete operations. The location of all structural temporary BMP's are shown on the erosion control plan sheet and details and specifications are provided on the erosion control details sheet which can be found at the end of this report under Section 9.

### Description of Temporary BMPs

#### Sediment Removal Mat construction Entrance/Exit

A sediment removal mat is an alternative to a temporary gravel construction entrance. The purpose of sediment removal mat construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A sediment removal mat has pyramid-like shapes jutting out of the mat that causes loose sediment to fall off the tires. A sediment removal mat is ideal for laying on existing concrete because the bottom of the mat is flat. Stabilized construction entrances should be located at any point where traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress.

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

#### Silt Fence

The purpose of a silt fence is to intercept and detain water-borne sediment on pervious areas from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

#### Triangular Sediment Filter Dike

The purpose of a triangular filter dike is to intercept and detain water-borne sediment on impervious areas from unprotected areas of a limited extent. Triangular filter dike is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to

percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Triangular filter dike should not be used where there is a concentration of water in a channel or drainage way.

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

## **Concrete Washout Area**

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

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- For onsite washout:
  - Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
  - Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

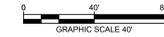
Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed with sufficient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

When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

**Attachment G**  
**Drainage Area Map**

DRAINAGE AREA	SHEET FLOW			UNPAVED SHALLOW CONCENTRATED			PAVED SHALLOW CONCENTRATED			CHANNEL FLOW			TOTAL TC (min)	TC MINIMUM (min)	
	Length (ft)	Manning's n	Slope (ft/ft)	T <sub>100</sub> (min)	Length (ft)	Slope (ft/ft)	T <sub>100</sub> (min)	Length (ft)	Slope (ft/ft)	T <sub>100</sub> (min)	Length (ft)	Slope (ft/ft)			Velocity (ft/s)
EDA-1	100	0.15	0.02	8.65	1058	0.08	3.96	-	-	0	796	0.03	2.0	6.55	12.5
REACH-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EDA-2	100	0.15	0.01	9.72	695	0.08	2.48	-	-	0	1244	0.04	2.0	10.37	22.6
EDA-3	100	0.15	0.01	9.96	426	0.09	1.45	-	-	0	1308	0.05	2.0	10.90	22.2

2yr 24hr Atlas 14 rainfall depth (in) = 4.16

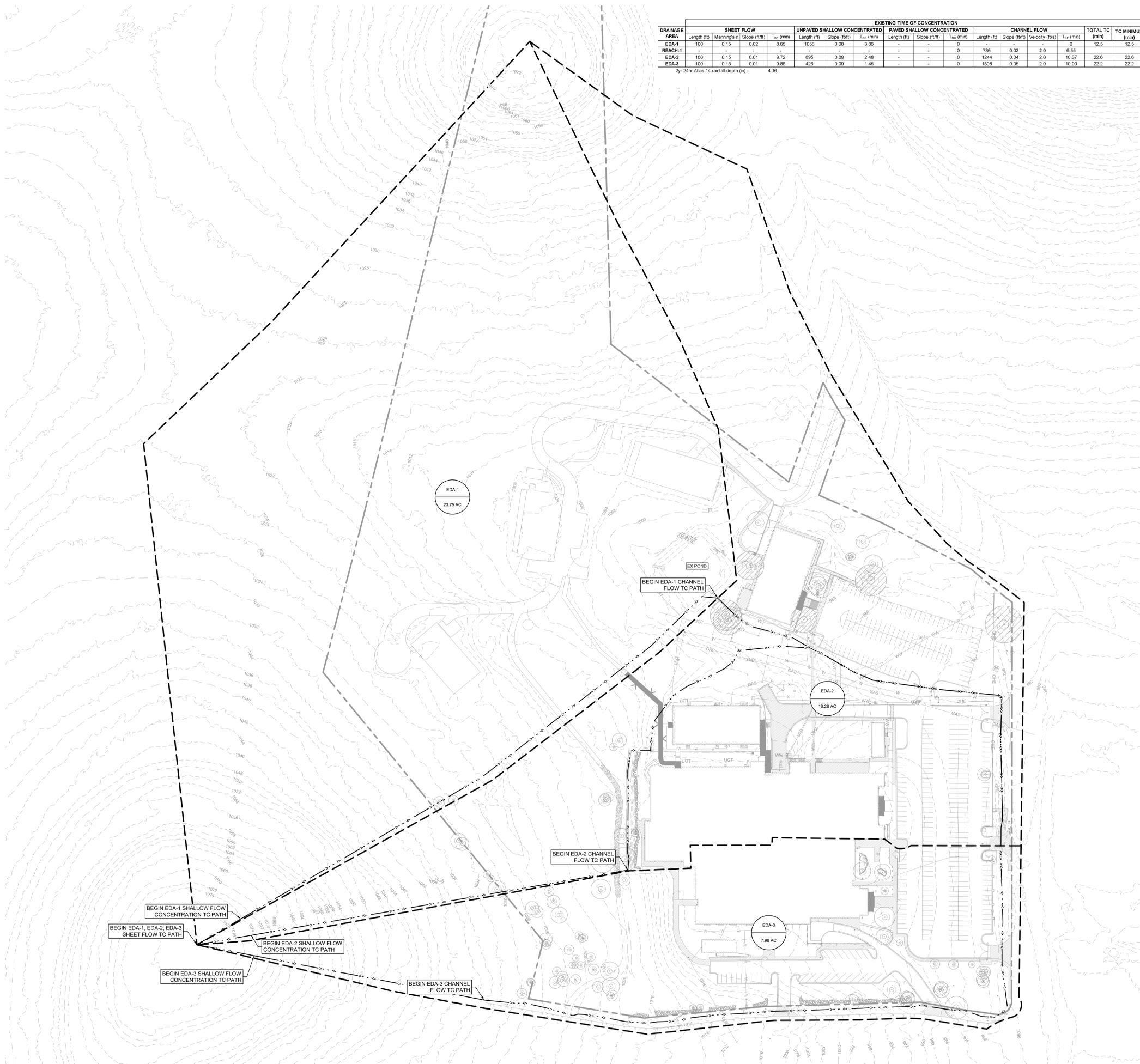
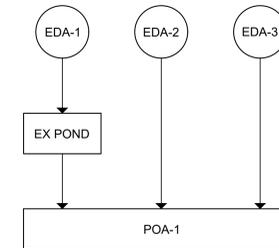


LEGEND

	AREA DESIGNATOR
	AREA IN ACRES
	PROPERTY LINE
	TIME OF CONCENTRATION FLOW LINE
	EXISTING DRAINAGE DIVIDE
	EXISTING CONTOUR
	EXISTING STORM LINE
	EXISTING FLOW DIRECTION
	EXISTING STORM INLET
	EXISTING STORM MANHOLE
	EXISTING STORM HEADWALL

NOTES:

- ALL DRAINAGE CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH ATLAS-14 RAINFALL INTENSITY VALUES.



BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.49
BM#4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=970.47



NO.	DESCRIPTION	DATE	Revisions:

DRAINAGE AREA	SHEET FLOW			PROPOSED TIME OF CONCENTRATION						CHANNEL FLOW			TOTAL TC (min)	TC MINIMUM (min)	
	Length (ft)	Manrogs (ft)	Slope (ft/ft)	Length (ft)	Slope (ft/ft)	T <sub>cp</sub> (min)	Length (ft)	Slope (ft/ft)	T <sub>cp</sub> (min)	Length (ft)	Slope (ft/ft)	Velocity (ft/s)			T <sub>cp</sub> (min)
PDA-1	100	0.15	0.02	8.65	1058	0.08	3.86	-	-	0	-	-	0	12.5	12.5
REACH-1	-	-	-	-	-	-	-	-	-	0	786	0.03	2.0	6.55	-
PDA-2	100	0.15	0.07	5.31	95	0.06	0.41	-	-	0	941	0.04	2.0	7.84	13.6
PDA-3	100	0.15	0.01	9.86	426	0.09	1.45	-	-	0	1308	0.05	2.0	10.90	22.2

2yr 24hr Atlas 14 rainfall depth (in) = 4.16

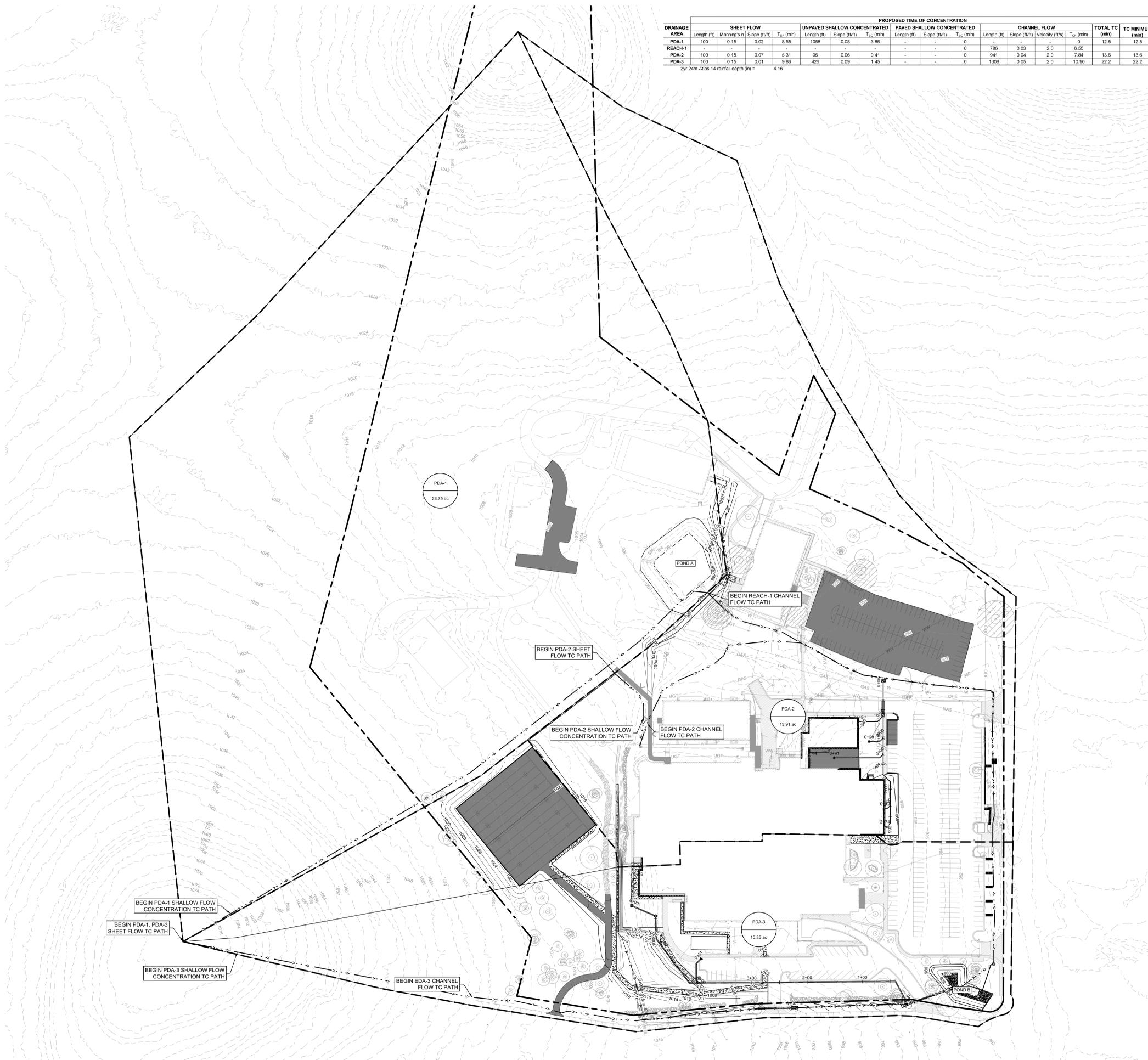
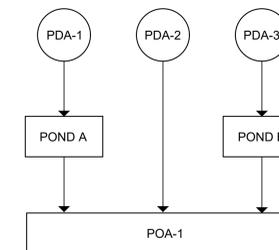


LEGEND

	AREA DESIGNATOR
	AREA IN ACRES
	PROPERTY LINE
	TIME OF CONCENTRATION FLOW LINE
	PROPOSED DRAINAGE DIVIDE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED STORM LINE
	PROPOSED FLOW DIRECTION
	PROPOSED STORM GRATE INLET
	PROPOSED STORM MANHOLE

NOTES:

- ALL DRAINAGE CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH ATLAS-14 RAINFALL INTENSITY VALUES.



BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV = 972.96
BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 980.56
BM #3: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 980.49
BM #4: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV = 970.47



Revisions:  
 NO. DESCRIPTION DATE

**Attachment H**  
**Temporary Sediment Pond(s) Plans and**  
**Calculations**  
**(Not Applicable)**

**Attachment I**  
**Inspection and Maintenance for BMPs**

## Inspection and Maintenance for BMPs

### Personnel Responsible for Inspections

The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification. Documentation of the inspector's qualifications is to be included in the attached Inspector Qualifications Log.

### Inspection Schedule

The primary operator is required to choose one of the two inspections listed below.

Option 1: Once every seven calendar days. If this alternative schedule is developed, then the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.

Option 2: Once every 14 calendar days and within 24 hours of the end of a storm event of two inches or greater.

The inspections may occur on either schedule provided that documentation reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be changed a maximum of one time each month, the schedule change must be implemented at the beginning of a calendar month, and the reason for the schedule change must be documented (e.g., end of "dry" season and beginning of "wet" season).

If option 2 is the chosen frequency of inspections a rain gauge must be properly maintained on site or the storm event information from a weather station that is representative of the site location. For any day of rainfall during normal business hours that measures 0.25 inches or greater, proper documentation of the total rainfall measured for that day must be recorded.

Personnel provided by the permittee must inspect:

- Disturbed areas of the construction site that have not been finally stabilized;
- Areas used for storage of materials that are exposed to precipitation;
- Structural controls (for evidence of, or the potential for, pollutants entering the drainage system);
- Sediment and erosion control measures identified in the SWP3 (to ensure they are operating correctly); and
- Locations where vehicles enter or exit the site (for evidence of off-site sediment tracking).

### Reductions in Inspection Frequency

Where sites have been finally or temporarily stabilized or where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), inspections must be conducted at least once every month. In arid, semi-arid, or drought-stricken areas, inspections must



be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater. A record of the total rainfall measured, as well as the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections in the attached Rain Gauge Log.

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

### **Inspection Report Forms**

Use the Inspection Report Forms given as a checklist to ensure that all required areas of the construction site are addressed. There is space to document the inspector's name as well as when the inspections regularly take place. The tables will document that the required area was inspected. (If there were any areas of concern, briefly describe them in this space with a more detailed description in the narrative section. Use the last table to document any discharges found during the inspections).

Describe how effective the installed BMPs are performing. Describe any BMP failures that were noted during the investigation and describe any maintenance required due to the failure. If new BMPs are needed as the construction site changes, the inspector can use the space at the bottom of the section to list BMPs to be implemented before the next inspection.

Describe the inspector's qualifications, how the inspection was conducted, and describe any areas of non-compliance in detail. If an inspection report does not identify any incidents of non-compliance, then it must contain a certifying signature stating that the facility or site is in compliance. The report must be signed by a person and in a manner required by 30 TAC 305.128. There is space at the end of the form to allow for this certifying signature.

Whenever an inspection shows that BMP modifications are needed to better control pollutants in runoff, the changes must be completed within seven calendar days following the inspection. If existing BMPs are modified or if additional BMPs are needed, you must describe your implementation schedule, and wherever possible, make the required BMP changes before the next storm event.

The Inspection Report Form functions as the required report and must be signed in accordance with TCEQ rules at 30 TAC 305.128.

### **Corrective Action**

#### **Personnel Responsible for Corrective Actions**

Both Primary and Secondary Operators are responsible for maintaining all necessary Corrective Actions. If an individual is specifically identified as the responsible party for modifying the contact information for that individual should be documented in the attached Inspector Qualifications Log.

#### **Corrective Action Forms**

The Temporary BMPs must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation

schedule must be described in the attached forms and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable. Actions taken as a result of inspections must be properly documented by completing the corrective action forms given.

## **Maintenance**

Below are some maintenance practices to be used to maintain erosion and sediment controls:

- All measures will be maintained in good working order. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection.
- 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). See Attachment A: Spill Response Actions.
- BMP Maintenance (as applicable)
- For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event, if feasible. If the permittee does not own or operate the off-site conveyance, then the permittee must work with the owner or operator of the property to remove the sediment.
- Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

To maintain the above practices, the following will be performed:

- Maintenance and repairs will be conducted before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. Following an inspection, deficiencies should be corrected no later than seven (7) calendar days after the inspection.

## **BMP-Specific Inspection and Maintenance Schedules**

### **Temporary Seeding**

- Temporary Seeding should be inspected weekly and after each rain event to locate and repair any erosion.

- Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.
- If the vegetated cover is less than 80%, the area should be reseeded.

## **Offsite Vehicle Tracking Controls**

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

## **Sediment Control Fence**

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

## **Concrete Washout**

- Inspect all washout facilities daily and after significant rainfall event to check for leaks and assess the condition of plastic linings and sidewalls.
- Any damage to the washout container should be repaired promptly to ensure its effectiveness.

**Attachment J**  
**Schedule of Interim and Permanent Soil**  
**Stabilization Practices**

# Schedule of Interim and Permanent Soil Stabilization Practices

## Schedule of Interim and Permanent Soil Stabilization

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

Records of the following shall be maintained:

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

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

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

Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of the site.

In arid areas (areas with an average rainfall of 0-10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practical.