CONTRIBUTING ZONE PLAN MODIFICATION

DANFORTH JUNIOR HIGH SCHOOL
200 TEXAN BLVD
WIMBERLEY, HAYS COUNTY, TEXAS

Prepared For:

WIMBERLEY INDEPENDENT SCHOOL DISTRICT

951 FM 2325
Wimberley, TX 78676
(512) 847-2414

Prepared By:

KIMLEY-HORN AND ASSOCIATES, INC.

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Firm No. 928
KHA Project No. 068733904

January 2026

02/11/2026

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SECTION 1:
EDWARDS AQUIFER APPLICATION COVER PAGE

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

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

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

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

Technical Review

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

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

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

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: DANFORTH JR HIGH WIMBERLEY ISD						**2. Regulated Entity No.:** 106900806 & 107003626			
3. Customer Name: WIMBERLEY ISD						**4. Customer No.:** CN600785158			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**		41.31 AC	
9. Application Fee:	$8,000.00		**10. Permanent BMP(s):**			3 Jellyfish, 2 batch detention ponds, 1 VFS			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			1 - Temporary AST diesel tank			
13. County:	Hays		**14. Watershed:**			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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	X	___	___
Region (1 req.)	X	___	___
County(ies)	X	___	___
Groundwater Conservation District(s)	X Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos X Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Allison Kennaugh, P.E.
Print Name of Customer/Authorized Agent Allison Kennaugh 1/19/2026
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):	

SECTION 2:
MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN FORM

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: Allison Kennaugh, P.E.

Date: 1/19/2026

Signature of Customer/Agent:

Allison Kennaugh

Project Information

1. Current Regulated Entity Name: DANFORTH JR HIGH WIMBERLEY ISD
   Original Regulated Entity Name: N/A
   Assigned Regulated Entity Number(s) (RN): 106900806 & 107003626
   Edwards Aquifer Protection Program ID Number(s): 11-13091102, 11-14040902 & 11-13112106
   ☐ The applicant has not changed and the Customer Number (CN) is: CN600785158
   ☒ 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):

[X] 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. [X] 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.

CZP Modification Summary	***Approved Project***	***Proposed Modification***
	DJHS CZP, DJHS CZP MOD & Admin Building CZP 11-13091102, 11-14040902 & 11-13112106	
Acres	23.93 AC & 2.33 AC	41.308 AC
Type of Development	SCHOOL & ADMIN BUILDING	SCHOOL
Number of Residentia	N/A	N/A
Lots	1 & 1	1
Impervious Cover (acr	10.07 AC & 1.19 AC	+ 5.70 AC Total Site IC: 21.39 AC
Impervious Cover (%)	42% & 51.07%	+ 13.80% Total Site IC: 51.79%
Permanent BMPs	2 - JELLYFISH, VFS & N/A	2 - BATCH WQ DETENTION PONDS, 1-VFS, 1 - JELLY FISH, 2 - EXISTING JELLY FISH UNITS TO REMAIN
Other		

AST Modification Summary	***Approved Project***	***Proposed Modification***
Number of ASTs	N/A	1 - Temporary diesel tank
Other	N/A	N/A

UST Modification Summary	***Approved Project***	***Proposed Modification***
Number of USTs	N/A	N/A
Other	N/A	N/A

5. [X] **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. [X] **Attachment C: Current Site Plan of the Approved Projec**t. 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.
   - [X] 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.
   [X] Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.

8. [X] 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.

ORIGINAL APPROVAL LETTER AND APPROVED MODIFICATION LETTERS

Bryan W. Shaw, Ph.D., *Chairman*
Carlos Rubinstein, *Commissioner*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*

COPY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 4, 2013

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

Re: Edwards Aquifer, Hays County
NAME OF PROJECT: Danforth Jr. High Wimberley ISD; Located at Carney Lane, RR 2325, and Texan Boulevard; 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. 11-13091102; Investigation No. 1120804; Regulated Entity No. RN106900806

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 Wimberley Independent School District on September 11, 2013. Final review of the CZP application was completed after additional material was received on November 25, 2013. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

BACKGROUND

Improvements constructed prior to June 1, 1999 did not require a contributing zone plan. Existing development on the site consists of school buildings, a softball field, a football field, tennis courts and associated parking and sidewalks. The total impervious cover (IC) existing on site prior to 1999 was 8.0 acres.

In 2009 a gymnasium, an administrative building, and associated sidewalks were constructed. No water quality treatment was provided. These improvements added 0.4 acres of IC to the site. Treatment for this increase in IC will be provided with this project.

PROJECT DESCRIPTION

The proposed improvements in this project consist of the construction of a tennis building, tennis courts, field house, and related parking and sidewalk infrastructure. The total proposed IC is 2.6 acres. The total IC requiring treatment is 3.0 acres (0.4 acres from the 2009 improvements, and 2.6 acres from the proposed improvements).

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, two (2) Jellyfish Filter units, selected using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will treat stormwater runoff. The total required TSS load removal generated by the 3.0 acres of IC is 2,693 lbs. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

TSS removal will be provided with two (2) Jellyfish Filters. Drainage Area 03 will drain to Jellyfish 02. Jellyfish 02 will treat the 2009 improvements as well as the proposed parking lot and sidewalk within Drainage Area 03. Drainage Area 04 will drain to Jellyfish 03. Jellyfish 03 will treat the impervious cover from the proposed buildings, parking lot, and sidewalk infrastructure. Jellyfish 02 (JF4-2-1) in Drainage Area 03 provides 1,661 lbs of TSS removal. Jellyfish 03 (JF4-2-1) in Drainage Area 04 provides 1,633 lbs of removal. The total combined TSS removal provided is 3,294 lbs, which exceeds the required 2,693 lbs.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

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

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.

5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the 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.

7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.

9. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during

construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment.

After Completion of Construction:

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

15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

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 Ms. Tracey Janus, G.I.T. 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/taj

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

cc: Mr. James R. McCann, P.E., Pape-Dawson Engineers
Ms. Brooke Leftwich, Environmental Compliance Specialist, Hays County
The Honorable Bob Flocks, Mayor, City of Wimberley
Mr. Rick Broun, General Manager, Hays Trinity Groundwater Conservation District
TCEQ Central Records, Building F, MC212

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

June 4, 2014

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

Re: Edwards Aquifer, Hays County
NAME OF PROJECT: Danforth Jr. High Wimberley ISD; Located at Carney Lane, RR 2325, and Texan Boulevard; Wimberley, Texas
TYPE OF PLAN: Request for Modification of an Approved Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer
Edwards Aquifer Protection Program ID No. 11-14040902; Investigation No. 1163443; Regulated Entity No. RN106900806

Dear Mr. York:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the modification of an approved CZP application for the above-referenced project submitted to the Austin Regional Office by Pape-Dawson Engineers on behalf of Wimberley Independent School District on April 9, 2014. Final review of the modification on an approved CZP application was completed after additional material was received on May 30, 2014. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

BACKGROUND

Improvements constructed prior to June 1, 1999 did not require a contributing zone plan. Existing development on the site consists of school buildings, a softball field, a football field, tennis courts and associated parking and sidewalks. The total impervious cover (IC) existing on site prior to 1999 was 8.0 acres.

In 2009 a gymnasium, an administrative building, and associated sidewalks were constructed. No water quality treatment was provided. These improvements added 0.4 acres of IC to the site. Treatment for this increase in IC will be provided with this project.

A CZP application was submitted to the Austin Region Office and approved on December 4, 2013 (EAPP ID No.: 11-13091102; Investigation No.: 1120804). This application approved a project consisting of tennis building, tennis courts, field house, and related parking and sidewalk infrastructure. The total proposed IC is 2.6 acres. The total IC requiring treatment is 3.0 acres (0.4 acres from the 2009 improvements, and 2.6 acres from the proposed improvements). Two (2) Jellyfish Filter units were proposed to treat 3.0 acres of impervious cover. The total impervious cover on site was proposed to be 11.0 acres (8.0 acres of impervious cover existing prior to 1999, and 3.0 acres of impervious cover added after 1999).

PROJECT DESCRIPTION

The CZP MOD proposes several changes to the previously approved CZP. A parking lot will be constructed instead of the previously approved softball field. Modifications to sidewalks and the proposed parking field house are also included within this modification. The proposed impervious cover (pre-1999 and post-1999) after this modification will be 10.16 acres of impervious cover. Treatment will be provided for 2.77 acres of impervious cover that was added after 1999 (including the 2009 improvements and the proposed improvements in this application).

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, two (2) Jellyfish Filter units and vegetative filter strip, selected using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will treat stormwater runoff. The total required TSS load removal generated by the 2.77 acres of IC that will be constructed with this project is 2,486 lbs. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The vegetative filter strip will treat 0.57 acres of impervious cover from the parking lot. There will be 0.09 acres of impervious cover in the parking lot that will not be treated by VFS. Overtreatment will be provided with the JellyFish 01 unit.

TSS removal for the remaining increase in impervious cover (2.2 acres) will be provided with two (2) Jellyfish Filters. Drainage Area 03 will drain to Jellyfish 02. Jellyfish 02 will treat the 2009 improvements and will provide overtreatment within Drainage Area 03. Drainage Area 04 will drain to Jellyfish 01. Jellyfish 01 will treat the impervious cover from the proposed buildings, parking lot, and sidewalk infrastructure. Jellyfish 02 (JF4-2-1) in Drainage Area 03 provides 1,072 lbs of TSS removal. Jellyfish 01 (JF4-2-1) in Drainage Area 04 provides 1,495 lbs of removal. The total TSS removal required for the impervious cover (2.2 acres) being treated by the Jellyfish Filters is 1,975 lbs of TSS. The combined TSS removal provided is by the Jellyfish Filters is 2,567 lbs of TSS, which exceeds the required 1,972 lbs of TSS. Remaining treatment capacity for the Jellyfish Filters is 592 lbs of TSS.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved

plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

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

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.

5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the 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.

7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.

9. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment.

After Completion of Construction:

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

15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

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 Ms. Tracey Janus, G.I.T. 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/taj

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

cc: Mr. James R. McCann, P.E., Pape-Dawson Engineers
Ms. Brooke Leftwich, Environmental Compliance Specialist, Hays County
The Honorable Bob Flocks, Mayor, City of Wimberley
Mr. Rick Broun, General Manager, Hays Trinity Groundwater Conservation District
TCEQ Central Records, Building F, MC212

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 26, 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 Administration Building; Located at 951 FM 2335; 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. 11-13112106; Investigation No. 1133850; Regulated Entity No. RN107003626

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. 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 site was developed prior to 1999 and previously served as a transportation facility for WISD. The existing impervious cover for the transportation facility with related parking infrastructure totals 1.44 acres (62,726 sq. ft.).

PROJECT DESCRIPTION

The proposed Administration Building project will have an area of approximately 2.33 acres. The impervious cover will consist of approximately 0.4 acres of structures/rooftops, 0.69 acres of parking, and 0.1 acres of other paved surfaces for a total of 1.19 acres of impervious cover, which is a net decrease of 0.25 acres from the existing impervious cover that pre-dated the Edwards Aquifer regulations on the Contributing Zone, prior to 1999. Permanent water quality controls are not required due to the net decrease in impervious cover from the existing impervious cover.

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.

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).

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.

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

NARRATIVE OF PROPOSED MODIFICATION

Project Background

Danforth Junior High School is an existing school campus located at 200 Texan Blvd, Wimberley, Texas on a 41.308-acre site. The site is currently being re-platted to combine adjacent tracts owned by the district into one (1) Lot totaling 41.308 acres. The new campus includes the Danforth Jr High campus, WISD Administration Building, Scudder Primary School campus, and some additional undeveloped lots. The Danforth Jr High Wimberley ISD (RN) - TCEQ regulated entity RN# 106900806 and WISD Administration Building (RN) - TCEQ regulated entity RN# 107003626 are both part of the Wimberley Independent School District (CN), under TCEQ CN600785158.

Narrative of Previously Approved Project

The existing Danforth Jr High School site was initially developed prior to June 1st, 1999. The original development consisted of school buildings, a softball field, a football field, tennis courts, parking, and sidewalks. The total impervious cover (IC) existing on site prior to 1999 was 8.0 acres. No water quality treatment facilities or contributing zone plans were provided at that time. Improvements constructed prior to June 1, 1999, do not require a contributing zone plan. Additional facilities were constructed in 2009, including a gymnasium, an administrative building, and associated parking and sidewalks. These improvements added 0.4 acres of IC to the site. However, no water quality treatment was provided. The site was further developed in 2013 following the approval of a Contributing Zone Plan (CZP) on December 4th, 2013 (Permit No. 11-13091102). The development proposed a tennis building, tennis courts, a field house, WQ BMPs, and associated parking and sidewalks. The total proposed IC was 2.6 acres. The total IC requiring treatment was 3.0 acres (0.4 acres from the 2009 improvements and 2.6 acres from the 2013 improvements) according to the CZP. Two (2) Contech Jellyfish Stormwater Treatment devices were proposed to treat the 3.0 acres of impervious cover. The total impervious cover onsite was proposed to be 11.0 acres (8.0 acres of impervious cover existing prior to 1999, and 3.0 acres of IC added after 1999).

A modification to the Danforth Jr High School CZP was submitted and approved June 4th, 2014 (Permit No. 11-14040902). This application proposed several changes to the original CZP (Permit No. 11-13091102). A parking lot was proposed to be constructed instead of the previously approved softball field. Additional modifications to sidewalks, parking, and the field house were also included. Treatment was provided for 2.77 acres of impervious cover (Total impervious cover proposed post-1999). The total amount of site impervious cover (pre-1999 and post-1999) provided in the application was 10.25 acres (including future developments). The proposed impervious cover (pre-1999 and post-1999) after the modification totaled 10.16 acres. Two (2) Contech Jellyfish Stormwater Treatment devices and a Vegetative Filter Strip (VFS) were proposed to treat the 2.77 acres of impervious cover (post-1999) on site. Jellyfish 01 unit (JF1) was designed to overtreat for the 0.09 acres of impervious cover bypassing the VFS in this application.

A separate CZP for the WISD Administration Building was approved on February 26th, 2014 (Permit No. 11-13112106). The site, encompassing 2.23 acres, was originally developed before 1999 to serve as the district's (WISD) transportation facility. At that time, the existing impervious cover on the site amounted to 1.44 acres. The CZP proposed the demolition of the existing site to facilitate the construction of a new administration facility for the district. The planned development included a new building, along with associated parking and sidewalks. The application proposed a total impervious cover of 1.19 acres, resulting in a net decrease of 0.25 acres. No permanent water quality controls were required, given the net decrease in impervious cover, which predates the Edwards Aquifer regulations on the Contributing Zone

Narrative of Proposed Modification

The proposed modification of the previously approved Contributing Zone Plan is for treatment of impervious cover associated with the Wimberly ISD: Danforth Jr High Additions and Renovations project. This application serves to consolidate various tracts owned by the district, unifying the overall campus into one comprehensive analysis. The existing tracts associated with this application are all owned by the district under the same CN (Wimberley ISD - CN600785158) and have since been re-platted into one lot, to makeup the overall DJHS Campus. As the second modification to the originally approved CZP for the WISD Danforth Jr High School (Permit No. 11-13091102), this application also incorporates the previously approved CZP for the WISD Administration Building (Permit No. 11-13112106). The objective is to manage all tracts under a single regulated entity (RN# 106900806), ensuring cohesive and effective water quality treatment for the combined Danforth Junior High School campus.

The Wimberly ISD: Danforth Jr High Additions and Renovations project includes an auditorium addition to the existing building, track and field improvements, and associated sidewalk, parking, utility, drainage, and water quality improvements. The limits of disturbance associated with these improvements span across 14.96 acres of the site. The total site area associated with this application is 41.308 acres. The proposed improvements will increase impervious cover by 3.41 acres (8.25%). The application will also and include 2.44 acres of undocumented improvements added to the site after 2014. The existing improvements include a bus loop and a synthetic turf field. The analysis also reflects 13.64 acres (33.03%) of existing impervious cover on site that was added prior to 1999. The resulting post development impervious cover totals 21.39 acres (51.79%) for the site. The application shows a net increase of 7.76 acres (18.79%) of IC added to the site since 1999. The application proposes permanent best management practices (BMPs) including, two (2) batch detention ponds, one (1) VFS (via natural vegetation), One (1) new and two (2) existing Contech Jellyfish Stormwater Treatment devices. BMPs are proposed to treat the 7.76 acres of post development (post-1999) impervious cover on site.

Please refer to the Water Quality Drainage Area Map for the total breakdown of impervious cover and TSS Removal. TCEQ calculations for TSS removal are included in Attachment K, “BMPs for On-site Stormwater.”

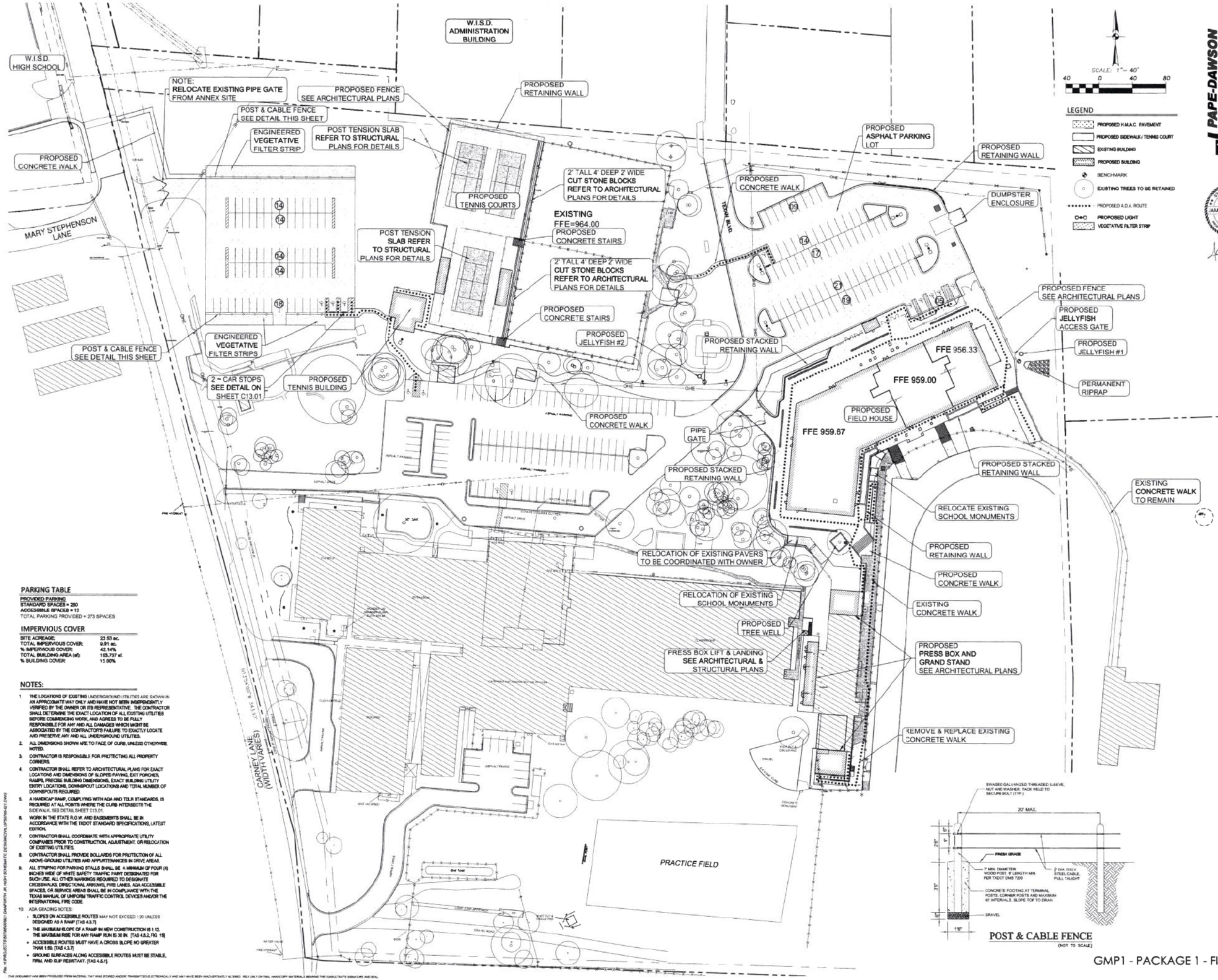
If you have any questions or require additional information, please contact me at 512-782-0614 or allison.kennaugh@kimley-horn.com

Sincerely,
KIMLEY-HORN & ASSOCIATES

Allison Kennaugh

Allison Kennaugh, P.E.

CURRENT CONSTRUCTION PLANS OF THE APPROVED PROJECT



PARKING TABLE

PROVIDED PARKING
STANDARD SPACES = 260
ACCESSIBLE SPACES = 13
TOTAL PARKING PROVIDED = 273 SPACES

IMPERVIOUS COVER

SITE ACREAGE:	23.53 ac.
TOTAL IMPERVIOUS COVER:	9.91 ac.
% IMPERVIOUS COVER:	42.14%
TOTAL BUILDING AREA (sf):	103,737 sf.
% BUILDING COVER:	15.00%

NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PROPERTY CORNERS.
4. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRY LOCATIONS, DOWNSPOUT LOCATIONS AND TOTAL NUMBER OF DOWNSPOUTS REQUIRED.
5. A HANDICAP RAMP, COMPLYING WITH ADA AND TDLR STANDARDS, IS REQUIRED AT ALL POINTS WHERE THE CURB INTERSECTS THE SIDEWALK. SEE DETAIL SHEET C13.01.
6. WORK IN THE STATE R.O.W. AND EASEMENTS SHALL BE IN ACCORDANCE WITH THE TXDOT STANDARD SPECIFICATIONS, LATEST EDITION.
7. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES.
8. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE-GROUND UTILITIES AND APPURTENANCES IN DRIVE AREAS.
9. ALL STRIPING FOR PARKING STALLS SHALL BE A MINIMUM OF FOUR (4) INCHES WIDE OF WHITE SAFETY TRAFFIC PAINT DESIGNATED FOR SUCH USE. ALL OTHER MARKINGS REQUIRED TO DESIGNATE CROSSWALKS, DIRECTIONAL ARROWS, FIRE LANES, ADA ACCESSIBLE SPACES, OR SERVICE AREAS SHALL BE IN COMPLIANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE INTERNATIONAL FIRE CODE.
10. ADA GRADING NOTES:
    - SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [TAS 4.3.7]
    - THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. [TAS 4.8.2, FIG 18]
    - ACCESSIBLE ROUTES MUST HAVE A CROSS SLOPE NO GREATER THAN 1:50. [TAS 4.3.7]
    - GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 4.5.1].

POST & CABLE FENCE
(NOT TO SCALE)

PAPE-DAWSON ENGINEERS
O'CONNELL ROBERTSON

JAMES R. MCCANN 92595

WIMBERLEY INDEPENDENT SCHOOL DISTRICT
2013 BOND PACKAGE
14401 RANCH ROAD 12, WIMBERLEY, TX 78676.

Revisions
NO. DESCRIPTION DATE

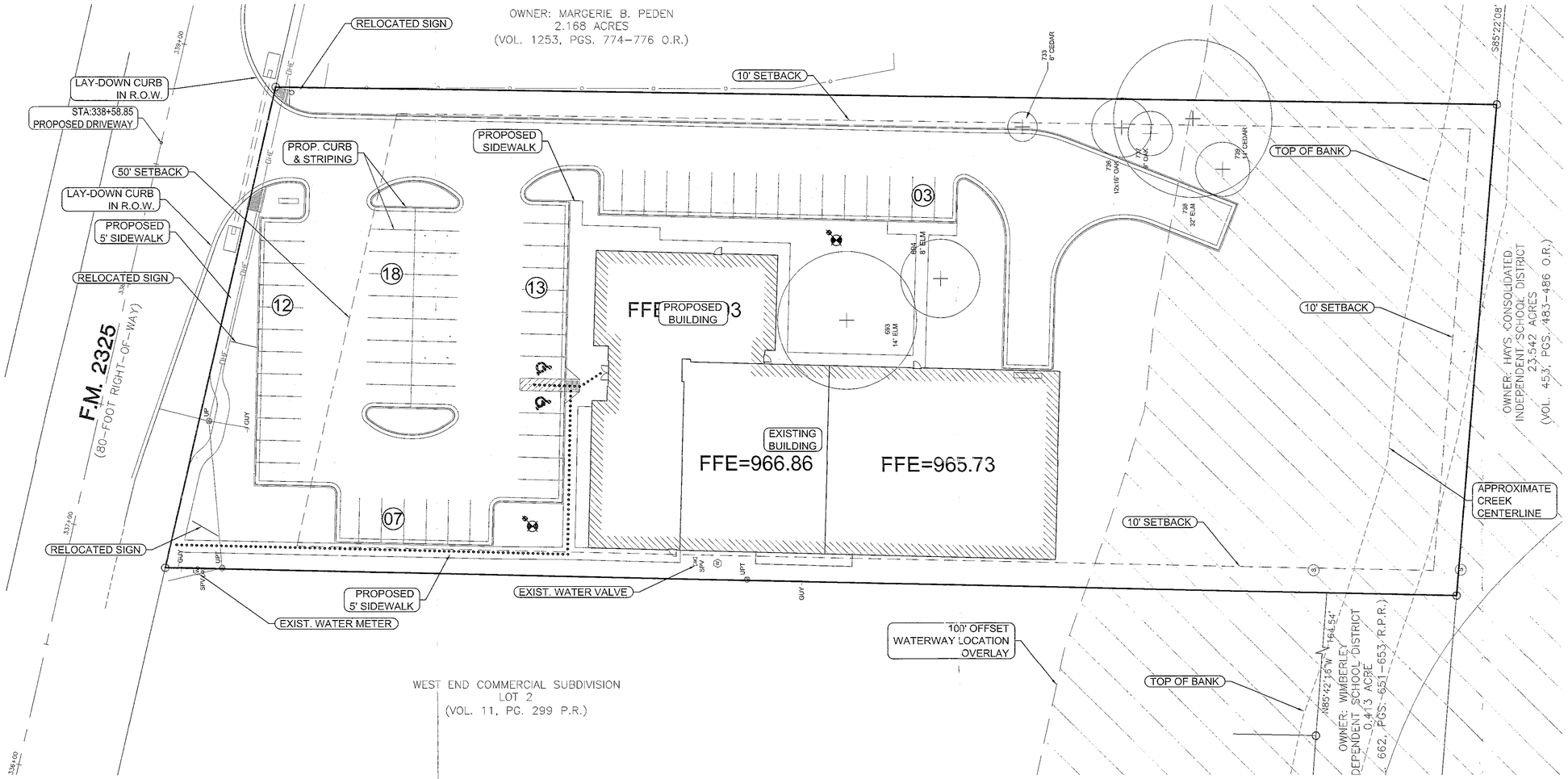
2/21/14
Project No. 50785-92
100% CONSTRUCTION DOCUMENT

SITE PLAN

GMP1 - PACKAGE 1 - FIELDHOUSE

C1.10

DATE: Apr 01, 2014, 3:37PM USER ID: HUAKIA
File: H:\PROJECTS\50785\SHEETS\50785 DRAWTWITH JR HIGH SCHEMATIC DESIGN\CIVIL\SP50785-01.DWG
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE DOUBLE TAXTS SIGNATURE AND SEAL.



LEGEND

- PROPOSED SIDEWALK
- HEAVY DUTY H.M.A.C. PAVEMENT
- LIGHT DUTY H.M.A.C. PAVEMENT
- PROPOSED BUILDING
- BENCHMARK
- PROPOSED A.D.A. ROUTE
- PROPOSED DOUBLE STREET LIGHT
- PROPOSED SINGLE STREET LIGHT

PAPE-DAWSON ENGINEERS
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470
7800 SHOAL CREEK BLVD | AUSTIN, TEXAS 78757 | PHONE: 512.454.8711
SUITE 220 W | FAX: 512.459.8867

THIS DOCUMENT IS RELEASED FOR INTERIM REVIEW PURPOSES ONLY UNDER THE AUTHORITY OF JAMES R McCANN., P.E. 92595
DATE: November 13
IT IS NOT TO BE USED FOR CONSTRUCTION OR PERMITTING PURPOSES, PER T.R.P.A. 137.33(e)

NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PROPERTY CORNERS.
4. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRY LOCATIONS, DOWNSPOUT LOCATIONS AND TOTAL NUMBER OF DOWNSPOUTS REQUIRED.
5. A HANDICAP RAMP, COMPLYING WITH ADA AND TDLR STANDARDS, IS REQUIRED AT ALL POINTS WHERE THE CURB INTERSECTS THE SIDEWALK. SEE DETAIL SHEET C13.01.
6. WORK IN THE STATE R.O.W. AND EASEMENTS SHALL BE IN ACCORDANCE WITH THE TXDOT STANDARD SPECIFICATIONS, LATEST EDITION.
7. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES.
8. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE-GROUND UTILITIES AND APPURTENANCES IN DRIVE AREAS.
9. ALL STRIPING FOR PARKING STALLS SHALL BE A MINIMUM OF FOUR (4) INCHES WIDE OF WHITE SAFETY TRAFFIC PAINT DESIGNATED FOR SUCH USE. ALL OTHER MARKINGS REQUIRED TO DESIGNATE CROSSWALKS, DIRECTIONAL ARROWS, FIRE LANES, ADA ACCESSIBLE SPACES, OR SERVICE AREAS SHALL BE IN COMPLIANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE INTERNATIONAL FIRE CODE.
10. ADA GRADING NOTES:
    - SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP [TAS 4.3.7]
    - THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. [TAS 4.8.2, FIG. 16]
    - ACCESSIBLE ROUTES MUST HAVE A CROSS SLOPE NO GREATER THAN 1:50. [TAS 4.3.7]
    - GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 4.5.1].
11. DESIGNATED ACCESSIBLE ROUTES SHALL COMPLY WITH THE FAIR HOUSING ACT.
12. DUMPSTER ENCLOSURES AND OTHER MASONRY FEATURES WILL BE COMPLIANT WITH THE DESIGN GUIDELINES.
13. ALL EROSION AND SEDIMENT CONTROLS INCLUDING SEDIMENT TRAPS MUST BE INSTALLED AND FUNCTIONAL PRIOR TO ANY SITE WORK BEGINNING.
14. BOUNDARY FENCE SPECIFICATIONS MUST BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO CONSTRUCTION OF THE BOUNDARY FENCE. THE FENCE SPECIFICATION MUST BE APPROVED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION OF THE BOUNDARY FENCE. THE FENCE CANNOT IMPEDE DRAINAGE FLOWS WITHIN THE EASEMENT.

O'CONNELL ROBERTSON
Austin 811 Barton Springs Road, Suite 900, Austin, Texas 78704 p: 512.478.7386 f: 512.478.7441
San Antonio 4040 Broadway, Suite 200, San Antonio, Texas 78209 p: 210.224.6322 f: 210.224.6453

WIMBERLEY INDEPENDENT SCHOOL DISTRICT
2013 BOND PACKAGE
14401 RANCH ROAD 12, WIMBERLEY, TX 78676,

FOR INTERIM REVIEW
NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

Revisions:

NO.	DESCRIPTION	DATE

11/20/13
Project No. 50785-952
100% DESIGN DEVELOPMENT

SITE PLAN

PACKAGE X - ADMINISTRATION

C1.50

DATE: Nov 20, 2013, 4:22PM USER ID: DHART
File: H:\PROJECTS\50785\950\1652 ADMINISTRATION BUILDING CIVIL DESIGN\DWG\ALSP50785-952.DWG
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S SIGNATURE AND SEAL.

SECTION 3:
CONTRIBUTING ZONE PLAN APPLICATION

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: Allison Kennaugh, P.E.

Date: 1/19/2026

Signature of Customer/Agent:

Allison Kennaugh

Regulated Entity Name: DANFORTH JR HIGH WIMBERLEY ISD

Project Information

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

   Contact Person: Greg Bonewald
   Entity: WIMBERLEY ISD
   Mailing Address: 951 FM 2325
   City, State: Wimberley, TX Zip: 78676
   Telephone: (512) 847-2414 Fax: _____
   Email Address: greg.bonewald@wimberleyisd.net

5. Agent/Representative (If any):

Contact Person: Allison Kennaugh, P.E.
Entity: Kimley-Horn And Associates
Mailing Address: 10814 Jollyville Road Campus IV, Suite 200
City, State: Austin, TX Zip: 78759
Telephone: +1 512-782-0614 Fax: _____
Email Address: allison.kennaugh@kimley-horn.com

6. Project Location:

[X] The project site is located inside the city limits of Wimberley, TX
[ ] 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. [X] 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.

200 Texan Blvd, Wimberley, TX 78676
Site is southwest of the intersection of FM 2325 and Carney Ln

8. [X] **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. [X] **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:

[X] Project site boundaries.
[X] USGS Quadrangle Name(s).

10. [X] **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:

[X] Area of the site
[X] Offsite areas
[X] Impervious cover
[X] Permanent BMP(s)
[X] Proposed site use
[X] Site history
[X] Previous development
[X] 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): 41.308 Acres

Total disturbed area: 14.96 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

Impervious Cover of Proposed Project	*Sq. Ft.*	*Sq. Ft./Acre*	*Acres*
Structures/Rooftops	35,626	÷ 43,560 =	0.82
Parking	144,457	÷ 43,560 =	3.32
Other paved surfaces	67,642	÷ 43,560 =	1.55
Total Impervious Cover	247,725	÷ 43,560 =	5.70

Total Impervious Cover 5.7 **÷ Total Acreage** 41.308 **X 100 =** 13.77 **% 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 x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

21. Pavement Area:

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

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

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
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

Length (L)(Ft.)	*Width(W)(Ft.)*	*Height (H)(Ft.)*	*L x W x H = (Ft3)*	*Gallons*

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

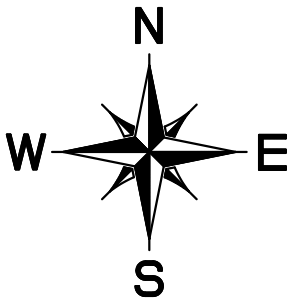
61. ☐ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.

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.

ROAD MAP



0 1000' 2000'

GRAPHIC SCALE 1000'

Danforth Junior High School

Wimberley, Texas
January 2021

Kimley»Horn
10814 Jollyville Road
Campus IV, Suite 200
Austin, TX 78759
512-418-1771
State of Texas Registration No. F-928

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE AND HAS BEEN PRODUCED WITHOUT THE BENEFIT OF A SURVEY, TOPOGRAPHY, UTILITIES, CONTACT WITH THE CITY, ETC.

PLOTTED BY RANDALL ZACH 1/12/2026 6:39 PM
DWG NAME K:\AUS_CIVIL\068733904 - WIMBERLEY ISD - DANFORTH JHS\CAD\EXHIBITS\REFERENCES\ATTACHMENT A - ROAD MAP.DWG
LAST SAVED 1/12/2026 6:19 PM

USGS QUADRANGLE MAP

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

DRIFTWOOD QUADRANGLE
TEXAS - HAYS COUNTY
7.5-MINUTE SERIES

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

MN
GN
3°54′
69 MILS
0°28′
8 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NU
Grid Zone Designation
14R

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

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.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

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

DRIFTWOOD, TX
2022

NSN. 7643016395932
NGA REF NO. USGSX24K12793

PROJECT NARRATIVE

Danforth Junior High School is an existing school campus located at 200 Texan Blvd, Wimberley, Texas on a 41.308-acre site. The site is currently being re-platted to combine adjacent tracts owned by the district into one (1) Lot totaling 41.308 acres. The new campus includes the Danforth Jr High campus, WISD Administration Building, Scudder Primary School campus, and some additional undeveloped lots – Hays County Tax Parcels: 113751, 17207, 14182, 17168, 17182 and 17181.

The Wimberly ISD: Danforth Jr High Additions and Renovations project includes an auditorium addition to the existing building, track and field improvements, and associated sidewalk, parking, utility, drainage, and water quality improvements. The proposed improvements will result in the addition of 3.41 acres (8.25%) in impervious cover. The application shows a net increase of 7.76 acres (18.79%) of IC added to the site since 1999. The application proposes two (2) batch detention ponds, one (1) VFS (via natural vegetation), One (1) new and two (2) existing Contech Jellyfish Stormwater Treatment devices to treat the 7.76 acres of post development (post-1999) impervious cover on site.

The limits of construction for this site is ± 14.96 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.

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 form 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 form leaving the sire. 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 with 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.

VOLUME AND CHARACTER OF STORMWATER

The volume and character of stormwater runoff from the proposed project are expected to be similar to existing conditions. The BMPs will ensure that runoff is treated and released at rates below the design thresholds. These improvements will not negatively impact the quality and quantity of stormwater leaving the site.

The disturbed area for the Wimberly ISD: Danforth Jr High Additions and Renovations project is 14.96 acres. The site area of the overall DJHS Campus associated with this application is 41.308 acres. The proposed improvements will increase impervious cover by 3.41 acres (8.25%). The resulting post development impervious cover totals 21.39 acres (51.79%) for the site.

The existing site primarily drains from west to east. The proposed development maintains existing drainage patterns to the greatest extent possible. Runoff from the site is conveyed to an ephemeral stream running through the site, ultimately contributing to the Lower Blanco River.

Stormwater treatment is provided for the proposed improvements in accordance with TCEQ requirements. The project permanent best management practices (BMP) include two (2) batch detention ponds, one (1) VFS (via natural vegetation), One (1) new and two (2) existing Contech Jellyfish Stormwater Treatment devices.

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.

Please refer to the plan set in Attachment M for more information, including drainage area maps.

SUITABILITY LETTER FROM AUTHORIZED AGENT

(NOT APPLICABLE)

ALTERNATIVE SECONDARY CONTAINMENT STRUCTURE DESIGN ROAD MAP

(NOT APPLICABLE)

AST CONTAINMENT STRUCTURE DRAWINGS

(NOT APPLICABLE)

20% OR LESS IMPERVIOUS COVER WAIVER

(NOT APPLICABLE)

BMPs FOR UPGRADIENT STORMWATER

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. This is because the upgradient area is either undeveloped or being treated by the existing BMPs located on the Wimberly High School site. The upgradient surface water runoff does not increase pollutant loads.

Please refer to the plan set in Attachment M for more information, including drainage area maps.

BMPs FOR ON-SITE STORMWATER

Temporary BMPs will be installed as shown in Attachment M on the Erosion Control Plan. The temporary BMPs will be silt fence installed around the entire construction limits, staging areas, and concrete washouts. Inlet filters will be used to prevent sediment from entering the proposed storm sewer system while in construction. Stabilized construction entrances will also be used to facilitate the wash down and removal of sediment and other debris from construction equipment exiting the site.

Permanent BMP(s) are required onsite due to the impervious cover limits proposed for the DJHS development, exceeding 20%. two (2) batch detention ponds, one (1) VFS (via natural vegetation), One (1) new and two (2) existing Contech Jellyfish Stormwater Treatment devices.

The Wimberly ISD: Danforth Jr High Additions and Renovations project includes an auditorium addition to the existing building, track and field improvements, and associated sidewalk, parking, utility, drainage, and water quality improvements. The limits of disturbance associated with these improvements span across 14.96 acres of the site. The total site area associated with this application is 41.308 acres. The proposed improvements will increase impervious cover by 3.41 acres (8.25%). The application will also and include 2.44 acres of undocumented improvements added to the site after 2014. The existing improvements include a bus loop and a synthetic turf field. The analysis also reflects 13.64 acres (33.03%) of existing impervious cover on site that was added prior to 1999. The resulting post development impervious cover totals 21.39 acres (51.79%) for the site. The net increase of 7.76 acres (18.79%) of IC added to the site since 1999 will be treated by the BMPs on-site.

Please refer to the plan set in Attachment M for more information, including erosion control plans, drainage area maps, calculations and pond plans for DJHS. The TSS Calculations are also included as part of Attachment K, starting on the next page.

BMPS FOR SURFACE STREAMS

(NOT APPLICABLE)

CONSTRUCTION PLANS

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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 ISSUED ADDENDA, 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 AND DETAIL SHALL BE FOLLOWED.
2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
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. EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHICAL SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.
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 FOUND 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 SUPPLY 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 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 OR INCONSISTENCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND 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 COMMENCEMENT OF CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH 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 CARE WHEN EXCAVATING NEAR KNOWN AND MARKED UTILITIES AND PRIVATE UTILITIES.
15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS' 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 AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH 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/ENCOUNTERED TRAP, AND ANY OTHERS THAT MAY BE 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 POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH 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 RESPONSIBILITY FOR DAMAGES ESTIMATING OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR OWNER AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR TO OBTAIN 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 IS INCIDENTAL TO THE PAY ITEM.
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 SETBACKS FROM 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 ADDENDA, PROJECT AND CITY SPECIFICATIONS, 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 SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
25. ALL 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 SHALL 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 APPROPRIATE CITY INSPECTOR.
29. THE SHAPE AND FORM FOR THE IMPROVEMENTS SHOWN ON THESE PLANS REPRESENT THE INTENDED DESIGN ONLY. REFERENCE THE BUILDING PLANS (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 FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE MOST CURRENT OR CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. DIMENSIONS AND/OR CURVATURES 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 FOR CONFIRMING THE FINAL CORRECT BUILDING FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, 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 COORDINATED WITH THE APPROPRIATE 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 AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
35. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF TESTS OF 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 SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
37. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, 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 OF EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
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 OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.
49. LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS 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 TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.
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 MARSHALL 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 TXR 150000".
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) IF APPLICABLE.
7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.
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. 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 NOTIFY THE ENGINEER.
11. OFF-SITE SOIL BORROW, SPOIL, 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 BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.
12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP IF APPLICABLE. TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY.
14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY STANDARDS. 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 PUBLIC RIGHT-OF-WAY. ANY SEDIMENT FROM THE SITE THAT IS DEPOSITED ON PAVEMENT 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 ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
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 BARRIER FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.
19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE 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 OR REPLACED AS DIRECTED BY THE ENGINEER. CONSTRUCTION ENTRANCE 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 ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 7 DAYS OF THE LAST DISTURBANCE.
22. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION. ALWAYS CLEAN UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.
23. UPON COMPLETION OF FINAL GRADING, SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE COVER.
24. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
25. ANY SEQUENCE OF CONSTRUCTION SHOWN HEREON IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE PROPOSED CONSTRUCTION. DESIGN AND SHIELDS DO 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 IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION, IF ANY UNKNOWN STRUCTURES OR CONDITIONS ARE ENCOUNTERED THAT REQUIRE MODIFICATION TO THE CONSTRUCTION SEQUENCE. IT 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 150000.
3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TAS STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES. ALL PRIMARY OPERATORS SHALL ENSURE THAT ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS WHERE FINAL STABILIZATION HAS NOT OCCURRED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 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 PROPERTY.
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 UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN ARE IN SERVICE. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR REMOVAL OF THEIR FACILITIES.
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 DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, DEBRIS, ETC. ACCORDING TO THIS PLAN SHALL NOT CONSTITUTE RESPONSIBILITY OF KH.
4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THIS DEMOLITION PLAN:
   a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER,
   b. ASBESTOS BUILDING MATERIALS SURVEY PREPARED BY THE OWNER,
   c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
   d. 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 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. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, INTERPRET THE APPLICABLE REGULATIONS, AND OBTAIN ALL PERMITS AND COMPLY WITH THEM.
7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT MAY REQUIRE REMOVAL AND REMEDIATION.
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 SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-IN

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Plotted By: Randall, Zach Date: February 03, 2026 06:10:25pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plansheets\C—Existing Conditions and Demolition Plan.dwg
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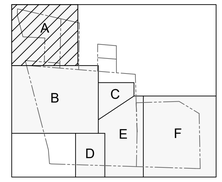
KEY MAP



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0 30' 60'
GRAPHIC SCALE 30'

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- LOC — LIMITS OF CONSTRUCTION
- EXISTING EDGE OF ASPHALT
- EXISTING TREE TO BE REMOVED
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- EXISTING HERITAGE TREE TO REMAIN
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BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.56

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

BMM: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=970.47

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Allison Kennaugh
STATE OF TEXAS
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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA A

SHEET NO.
C1.00

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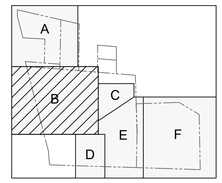
EXISTING STREET LIGHT TO BE REMOVED
EXISTING STORM HEADWALL TO REMAIN
EXISTING UNDERGROUND ELECTRIC CONDUIT TO BE REMOVED
BENCHMARK CP-1 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86
EXISTING FLUSH CURB TO BE DEMOLISHED
EXISTING SIDEWALK TO BE DEMOLISHED
BENCHMARK #2 NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.56
EXISTING PAVEMENT TO BE REMOVED
PROPOSED SAWCUT LINE
EXISTING POWER POLE TO BE DEMOLISHED
EXISTING CONCRETE DRIVEWAY TO BE REMOVED
EXISTING CURB INLET TO REMAIN, TYP.
EXISTING POWER POLE TO BE DEMOLISHED
EXISTING POWER LINE TO BE DEMOLISHED
EXISTING 12" RCP STORM MAIN TO REMAIN, TYP.
EXISTING LIGHT POLE TO BE REMOVED
APPROXIMATE LOCATION OF EXISTING 8" PVC WL PER RECORD DRAWINGS
EXISTING POWER POLE TO REMAIN, TYP.
EXISTING OVERHEAD ELECTRIC LINE TO REMAIN, TYP.
EXISTING CONCRETE AMPHITHEATER TO BE DEMOLISHED
EXISTING WALL TO BE DEMOLISHED
EXISTING SIDEWALK TO BE DEMOLISHED
EXISTING ELECTRIC CONDUITS TO BE REMOVED
APPROXIMATE LOCATION OF EXISTING 8" PVC WL PER RECORD DRAWINGS
EXISTING CONCRETE TO BE DEMOLISHED
EXISTING PAVERS TO BE DEMOLISHED
EXISTING BUILDING TO BE DEMOLISHED
EXISTING POWER POLE TO BE DEMOLISHED
6" PVC WATER LINE TO BE DEMOLISHED
EXISTING WW CLEANOUT TO BE REMOVED
PROPOSED SAWCUT LINE
EXISTING STORM LINE TO BE REMOVED, TYP. SEE SHEET C6.03 FOR PROPOSED REALIGNMENTS
EXISTING INLET TO BE REMOVED AND RELOCATED SEE SHEET C6.03 FOR PROPOSED RELOCATION
EXISTING TREE TO BE REMOVED (TYP.)
EXISTING STORM LINE TO REMAIN
EXISTING TREE TO REMAIN, TYP.
EXISTING BUILDING
EXISTING BACKFLOW PREVENTOR
EXISTING 6" FIRE WATER LINE
PROPOSED SAWCUT LINE
EXISTING FIRE HYDRANT
8" PVC STORM LINE TO BE DEMOLISHED
EXISTING INLET TO BE REMOVED
EXISTING GRAVITY WASTEWATER MAIN TO REMAIN, TYP.
EXISTING SIDEWALK TO BE DEMOLISHED
DEMO EXTENTS OF EXISTING BUILDING
EXISTING PEDESTRIAN BRIDGE TO REMAIN
EXISTING RETAINING WALL TO REMAIN
EXISTING TENNIS COURTS TO REMAIN
EXISTING UNDERGROUND ELECTRIC LINE TO REMAIN
EXISTING CLEANOUT TO REMAIN
EXISTING BUILDING TO REMAIN
EXISTING HERITAGE TREE TO BE REMOVED, TYP.
EXISTING DETENTION POND
EXISTING FIRE HYDRANT
EXISTING PAVEMENT TO REMAIN. REMOVE AND REPLACE PARKING STRIPINGS
EXISTING 6" WATERLINE PER RECORD DRAWINGS
EXISTING TELECOM LINE TO BE DEMOLISHED
EXISTING GRAVITY WASTEWATER MAIN TO REMAIN, TYP.
PROPOSED SAWCUT LINE
PROPOSED SAWCUT LINE
RELOCATE D.N.E. SIGN
EXISTING PAVEMENT, CURB ISLANDS, SIDEWALK AND STRIPING TO BE DEMOLISHED, TYP.
LIGHT POLE TO BE REMOVED
EXISTING UNDERGROUND ELECTRIC LINE
EXISTING STORM LINE TO REMAIN
EXISTING 6" WATERLINE PER RECORD DRAWINGS
EXISTING SIGNS TO BE REMOVED
PROPOSED SAWCUT LINE
RELOCATE D.N.E. SIGN
EXISTING CURB AND GUTTER TO BE DEMOLISHED
EXISTING CURB TO REMAIN
PROPOSED SAWCUT LINE
EXISTING FLAGPOLE TO BE REMOVED
EXISTING RETAINING WALL TO BE DEMOLISHED
EXISTING HANDRAIL AND SIDEWALK TO BE DEMOLISHED
EXISTING LIGHT POLE TO REMAIN
EXISTING CURB CUT TO REMAIN
EXISTING CURB INLET TO REMAIN, TYP.
EX. STORM MANHOLE
C.R. 279 (CARNET LANE)
CARNET LANE

KEY MAP



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GRAPHIC SCALE 30'

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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA B

SHEET NO.
C1.01

Plotted By: Rondell, Zach Date: February 03, 2026 06:10:33pm File Path: K:\aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C–Existing Conditions and Demolition Plan.dwg
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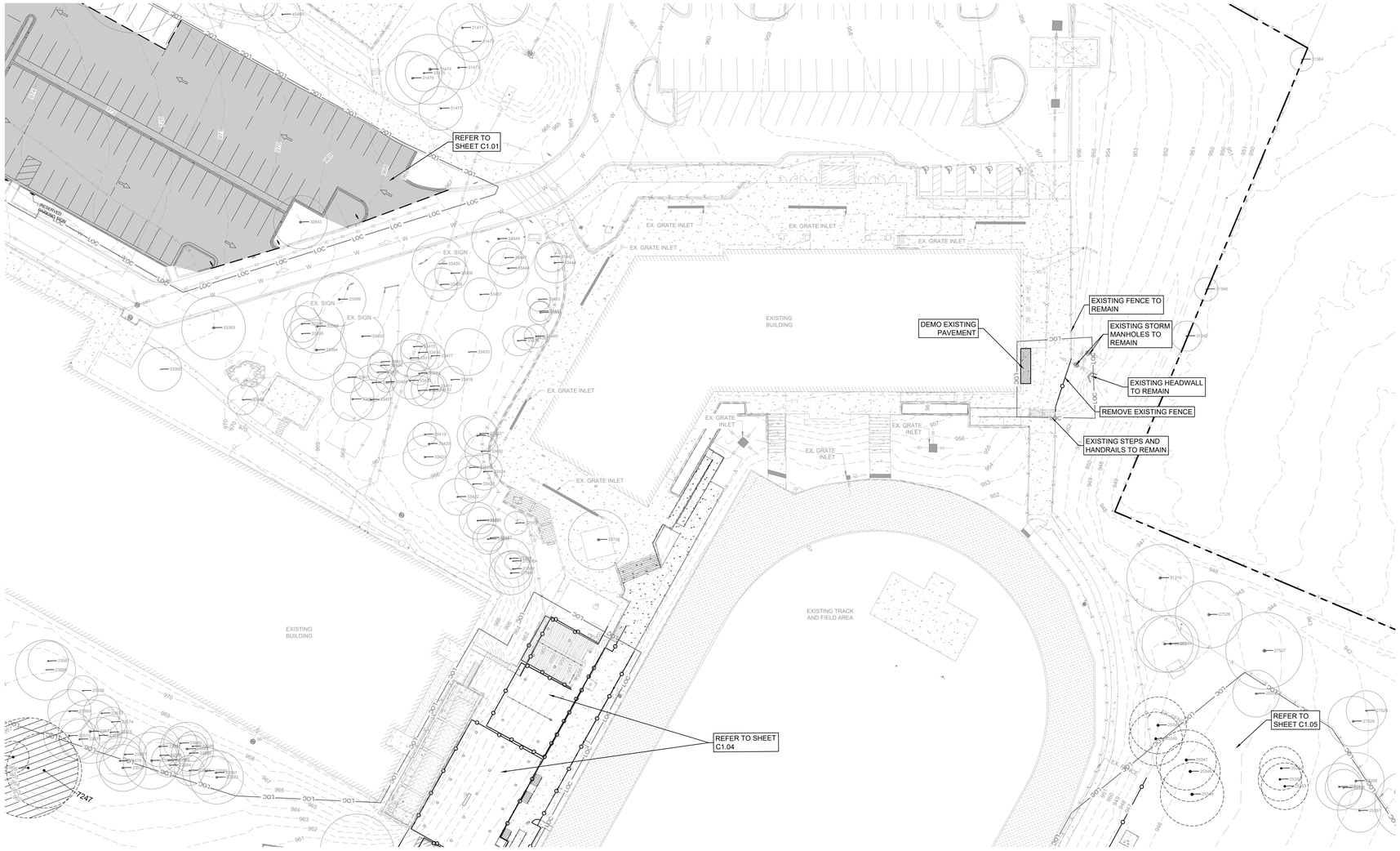
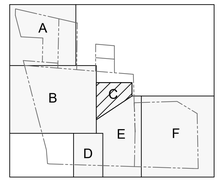


KEY MAP



0 30' 60'

GRAPHIC SCALE 30'

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CIVIL ENGINEERING FIRM
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TEXAS REGISTRATION NO. 926

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA C

SHEET NO.
C1.02

Plotted By:Rondell, Zach Date:February 03, 2026 06:10:43pm File Path:K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plansheets\C-Existing Conditions and Demolition Plan.dwg
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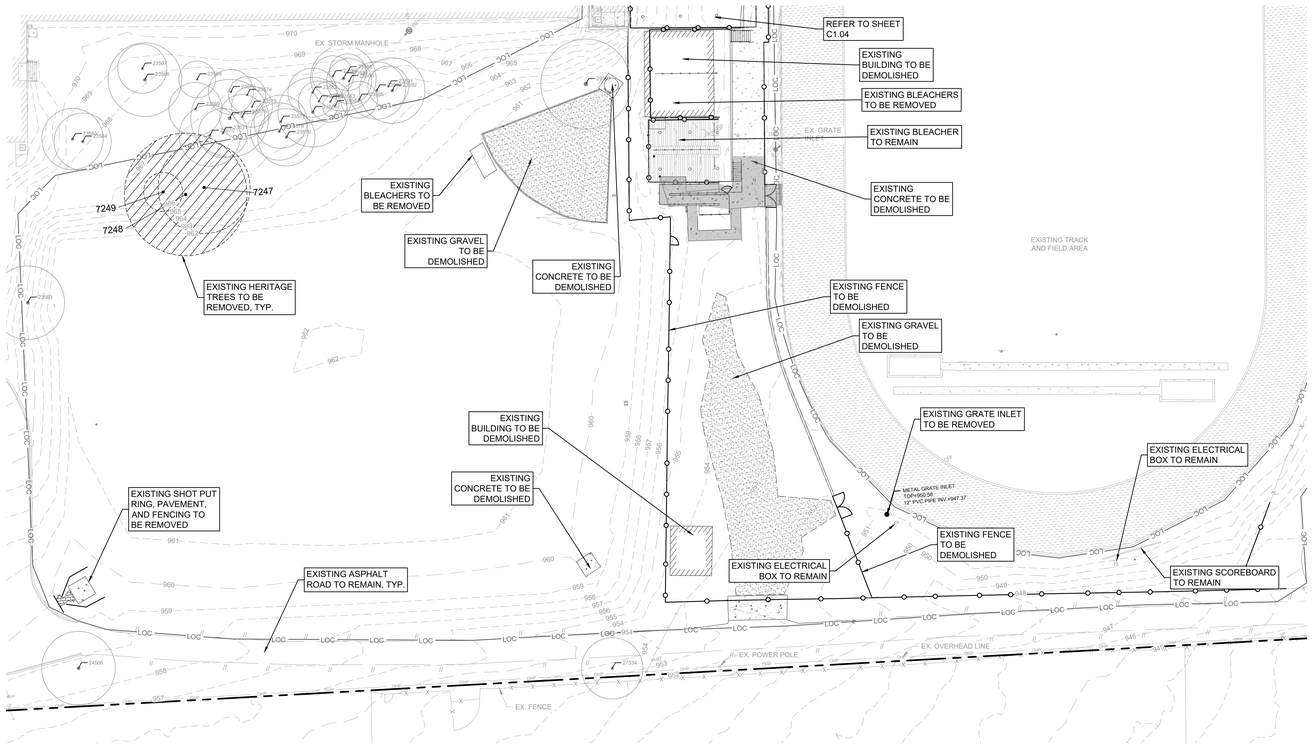
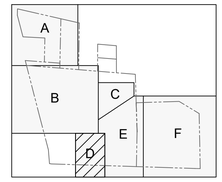


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- LOC — LIMITS OF CONSTRUCTION
- EXISTING EDGE OF ASPHALT
- 1234 — EXISTING TREE TO BE REMOVED
- 1234 — EXISTING HERITAGE TREE TO BE REMOVED
- 1234 — EXISTING TREE TO REMAIN
- 1234 — EXISTING HERITAGE TREE TO REMAIN
- GAS — EXISTING NATURAL GAS LINE
- OHE — EXISTING OVERHEAD POWER LINE
- W — EXISTING WATER LINE
- WW — EXISTING WASTEWATER LINE
- SD — EXISTING STORM LINE
- EXISTING CONCRETE SIDEWALK
- FL — EXISTING FIRE LANE MARKING
- EXISTING STREET LIGHT
- EXISTING STREET SIGN
- 775 — EXISTING CONTOUR
- LIMITS OF DEMOLITION
- T — EXISTING TELECOM LINE
- EXISTING POWER POLE
- EXISTING WASTEWATER MANHOLE
- E — EXISTING UNDERGROUND ELECTRIC LINE

NOTES:

1. THE TREE AND TOPOGRAPHIC SURVEY WAS PERFORMED BY MOY TARIN RAMIREZ ENGINEERS, LLC ON 9/19/2025.
2. EXISTING CONDITIONS SHOWN HEREIN ARE A COMBINATION OF SURVEYED CONTOURS WITHIN THE SUBJECT PROPERTY AND EXISTING GIS CONTOURS FROM HAYS COUNTY SUBDIVISION OUTSIDE OF THE PROPERTY LINE.
3. NO DEMOLITION SHALL OCCUR UNTIL A PRE-CONSTRUCTION MEETING IS HELD WITH THE ENVIRONMENTAL INSPECTOR.
4. LOCATIONS OF PUBLIC AND FRANCHISE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL TEXAS 811 (1-800-344-8377) AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS811 PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THESE FACILITIES.
5. ALL UTILITIES IN STREET RIGHT-OF-WAY TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
6. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED THE OWNER SHALL BE NOTIFIED. THOSE MATERIALS SHALL BE REMOVED AND DISPOSED OF IN A MANNER APPROVED BY ALL GOVERNING AGENCIES AND IN A LANDFILL OR DISPOSAL FACILITY LICENSED TO ACCEPT HAZARDOUS MATERIAL.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL OF EXISTING PAVEMENT SECTION, STRUCTURAL SUBGRADE, STRUCTURAL FOUNDATION, AND UTILITIES WITHIN THE SITE. CONTRACTOR TO DISPOSE ALL DEMOLITION SPOILS OFF-SITE IN A LEGAL MANNER.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES, IRRIGATION LINES, PAVEMENT, ETC., TO REMAIN RESULTING FROM DEMOLITION ACTIVITIES AND REPAIR AT HIS OWN EXPENSE.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
10. ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OFF-SITE IN A MANNER ACCEPTABLE TO ALL APPLICABLE REGULATIONS.
11. PERIMETER EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO DEMOLITION. REFERENCE EROSION CONTROL PLAN AND DETAILS FOR TYPE AND LOCATION.
12. CONTRACTOR TO REMOVE ANY EXISTING ONSITE DEBRIS OR TRASH. (TIRES, CONCRETE PADS, ETC.)
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BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
STATE OF TEXAS
ALLISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN AND ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA D

SHEET NO.
C1.03

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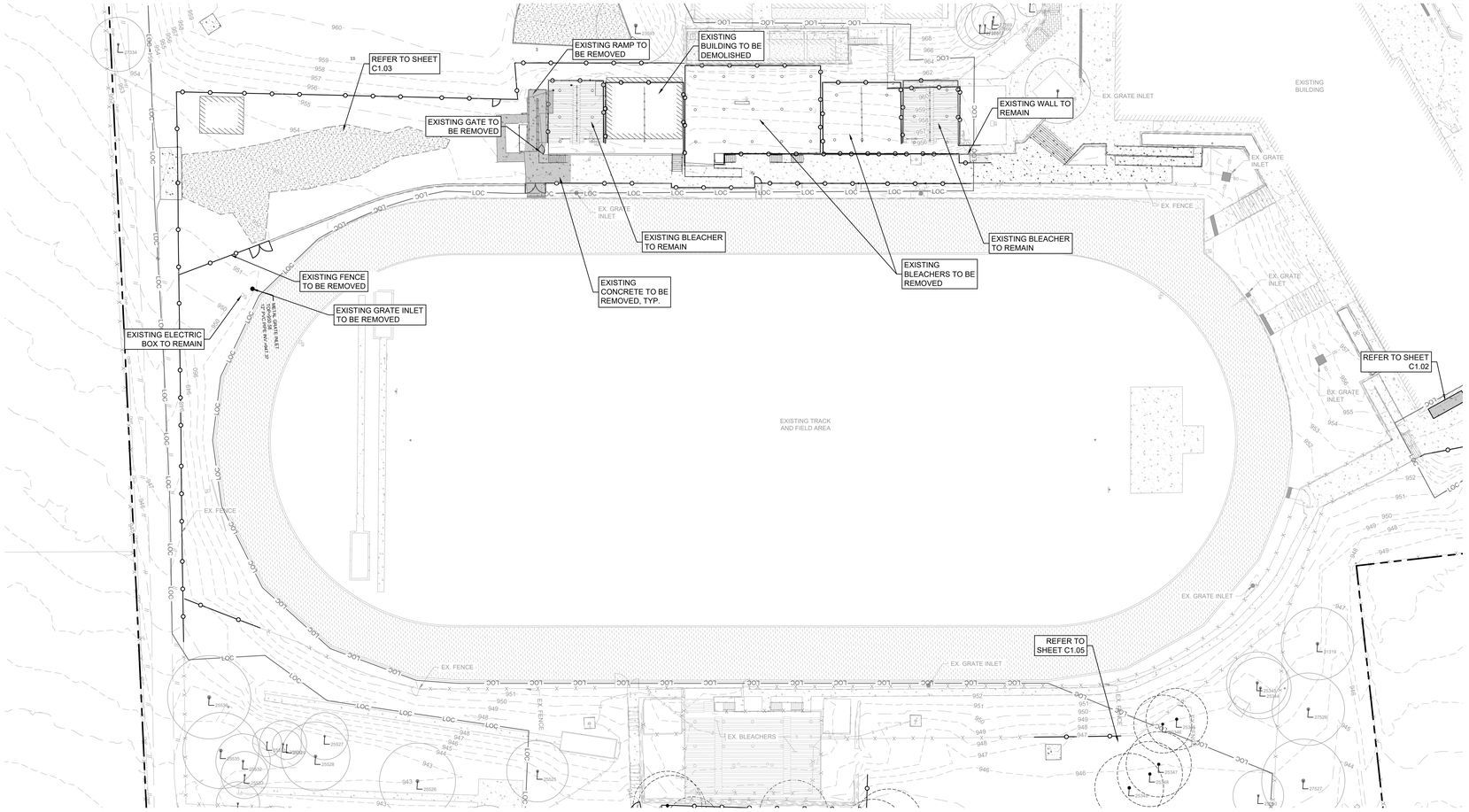
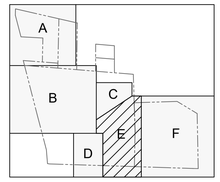


KEY MAP



0 30' 60'
GRAPHIC SCALE 30'

LEGEND

- PROPERTY LINE
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BENCHMARKS

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BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING"
ELEV.=980.56

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ELEV.=980.49

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

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Allison Kennaugh
STATE OF TEXAS
ALLISON KENNAUGH
114356
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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA E

SHEET NO.
C1.04

Plotted By: Randall, Zach Date: February 03, 2026 06:10:52pm File Path: K:\aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C-Existing Conditions and Demolition Plan.dwg
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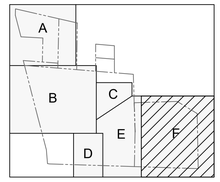
KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- LOC — INTERIM LIMITS OF CONSTRUCTION
- EXISTING EDGE OF ASPHALT
- 1234 — EXISTING TREE TO BE REMOVED
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- EXISTING STREET LIGHT
- EXISTING STREET SIGN
- 775 — EXISTING CONTOUR
- INTERIM DEMOLITION

NOTES:

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TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN - AREA F

SHEET NO.
C1.05

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Plotted By: Bondsli, Zach Date: February 03, 2026 06:11:16pm File Path: K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Civil\Xrefs\C-Erosion Control Plan.dwg
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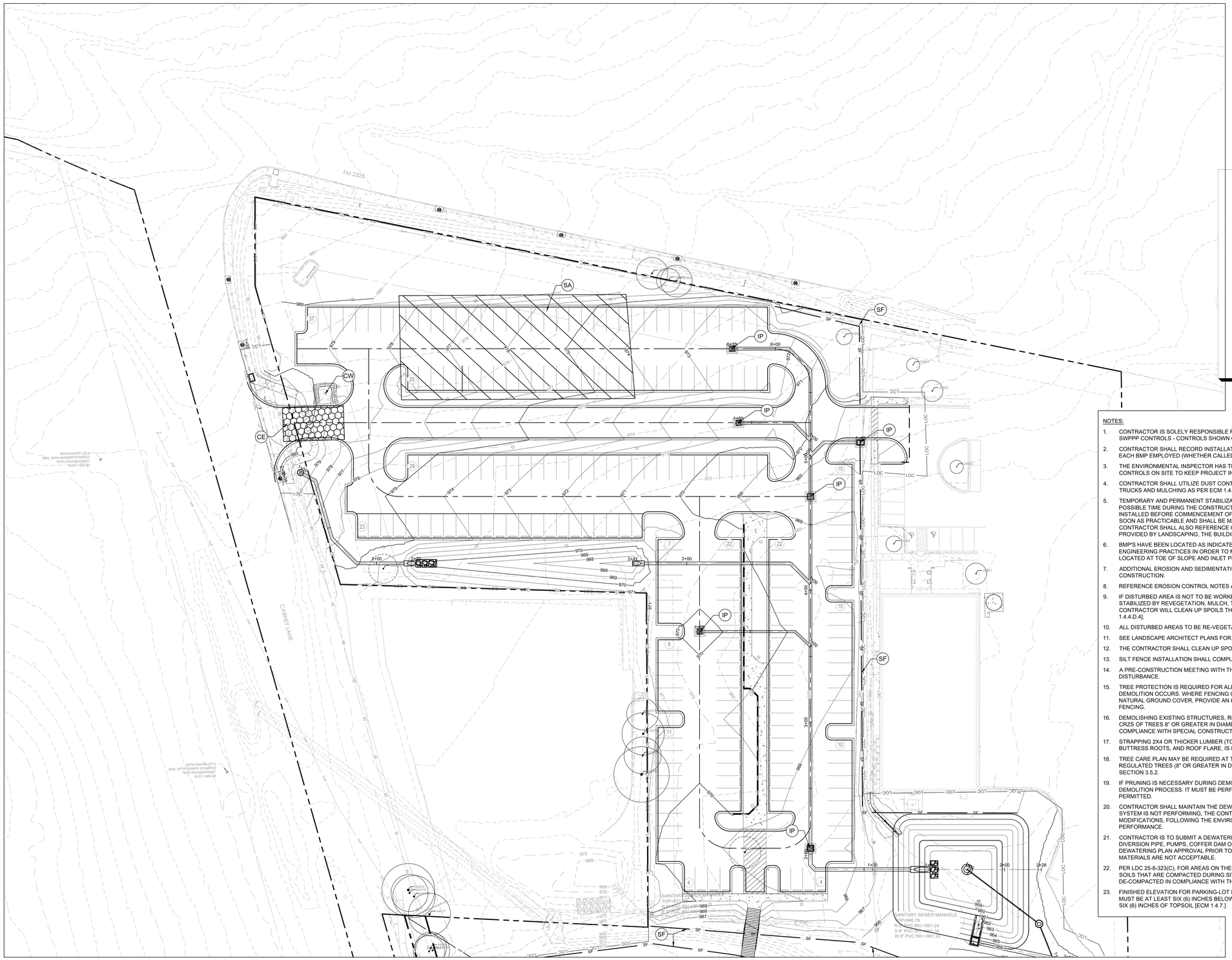
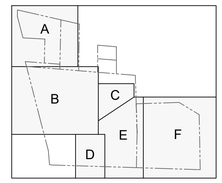


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

SF	SF	SILT FENCE
FD	FD	TRIANGULAR FILTER DYKE
LOC		LIMITS OF CONSTRUCTION
TP		TREE PROTECTION
	CE	CONSTRUCTION ENTRANCE
	SA	STAGING AND STOCKPILE AREA
	CW	CONCRETE WASHOUT
450		EXISTING CONTOURS
450		PROPOSED CONTOURS
1234		TREE TO REMAIN
	IP	INLET PROTECTION
	DS	DEWATERING SKIMMER OR OTHER APPROVED DEWATERING DEVICE (REFERENCE NOTES 20 & 21)
	RB	ROCK BERM

NOTES:

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
4. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURE DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D) OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
5. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
6. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
7. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED BY THE CITY DURING CONSTRUCTION.
8. REFERENCE EROSION CONTROL NOTES AND DETAILS ON SHEET C2.10.
9. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING [ECM 1.4.4.B.3, SECTION 5, I.]. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY [ECM 1.4.4.D.4].
10. ALL DISTURBED AREAS TO BE RE-VEGETATED PER CITY OF WIMBERLEY STANDARDS.
11. SEE LANDSCAPE ARCHITECT PLANS FOR TREE PRESERVATION PLAN AND TREE MITIGATION CALCULATIONS.
12. THE CONTRACTOR SHALL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
13. SILT FENCE INSTALLATION SHALL COMPLY WITH ECM 1.5.4.G
14. A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
15. TREE PROTECTION IS REQUIRED FOR ALL TREES WITHIN THE LIMITS OF DESTRUCTION ON SITE BEFORE DEMOLITION OCCURS. WHERE FENCING CANNOT BE PLACED TO PROTECT THE EXTENT OF THE CRZ WITH NATURAL GROUND COVER, PROVIDE AN 8" LAYER OF ORGANIC HARDWOOD MULCH OUTSIDE OF THE FENCING.
16. DEMOLISHING EXISTING STRUCTURES, REMOVING UTILITIES, AND/OR REMOVING FLATWORK WITHIN THE CRZS OF TREES 8" OR GREATER IN DIAMETER MAY ONLY BE PERFORMED USING HAND-TOOLS IN COMPLIANCE WITH SPECIAL CONSTRUCTION TECHNIQUES ECM 3.5.4(D).
17. STRAPPING 2X4 OR THICKER LUMBER (TO MATCH HEIGHT OF BUILDING) SECURELY AROUND TREE TRUNK, BUTTRESS ROOTS, AND ROOF FLARE, IS REQUIRED IF FENCING CANNOT GO AROUND THE ENTIRE HALF CRZ.
18. TREE CARE PLAN MAY BE REQUIRED AT THE INSPECTOR'S DISCRETION IF IMPACTS ARE MADE TO REGULATED TREES (8" OR GREATER IN DIAMETER) ON SITE BEYOND THAN WHAT IS REQUIRED PER ECM SECTION 3.5.2.
19. IF PRUNING IS NECESSARY DURING DEMOLITION, IT SHOULD TAKE PLACE PRIOR TO THE START OF THE DEMOLITION PROCESS. IT MUST BE PERFORMED BY A QUALIFIED ARBORIST AND NO MORE THAN 25% IS PERMITTED.
20. CONTRACTOR SHALL MAINTAIN THE DEWATERING SYSTEM TO ENSURE PERFORMANCE. IF THE DEWATERING SYSTEM IS NOT PERFORMING, THE CONTRACTOR MUST IMMEDIATELY MAKE THE NECESSARY MODIFICATIONS, FOLLOWING THE ENVIRONMENTAL INSPECTOR'S DIRECTION TO ENSURE ADEQUATE SYSTEM PERFORMANCE.
21. CONTRACTOR IS TO SUBMIT A DEWATERING PLAN WHICH MAY BE A TEMPORARY DIVERSION CHANNEL, DIVERSION PIPE, PUMPS, COFFER DAM OR OTHER APPROVED METHOD. CONTRACTOR WILL OBTAIN DEWATERING PLAN APPROVAL PRIOR TO CONSTRUCTION. SANDBAGS, EARTHEN DIKES, OR OTHER ERODIBLE MATERIALS ARE NOT ACCEPTABLE.
22. PER LDC 25-8-323(C), FOR AREAS ON THE SITE THAT ARE TO REMAIN PERVIOUS AFTER DEVELOPMENT, ANY SOILS THAT ARE COMPACTED DURING SITE GRADING AND CONSTRUCTION OPERATIONS MUST BE DE-COMPACTED IN COMPLIANCE WITH THE ECM AND IN COMPLIANCE WITH SSM 661S.
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BENCHMARKS

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Allison Kimmaugh
TEXAS REGISTERED ENGINEER
ALLISON KIMMAUGH
114356
LICENSED
PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EROSION CONTROL PLAN - AREA A

SHEET NO.
C2.00

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Plotted By: Bondsli, Zach Date: February 03, 2026 06:11:22pm File Path: K:\Aus_civil\069733904 – wimberley isd – danforth jhs\Cad\plotsheets\C-Erosion Control Plan.dwg
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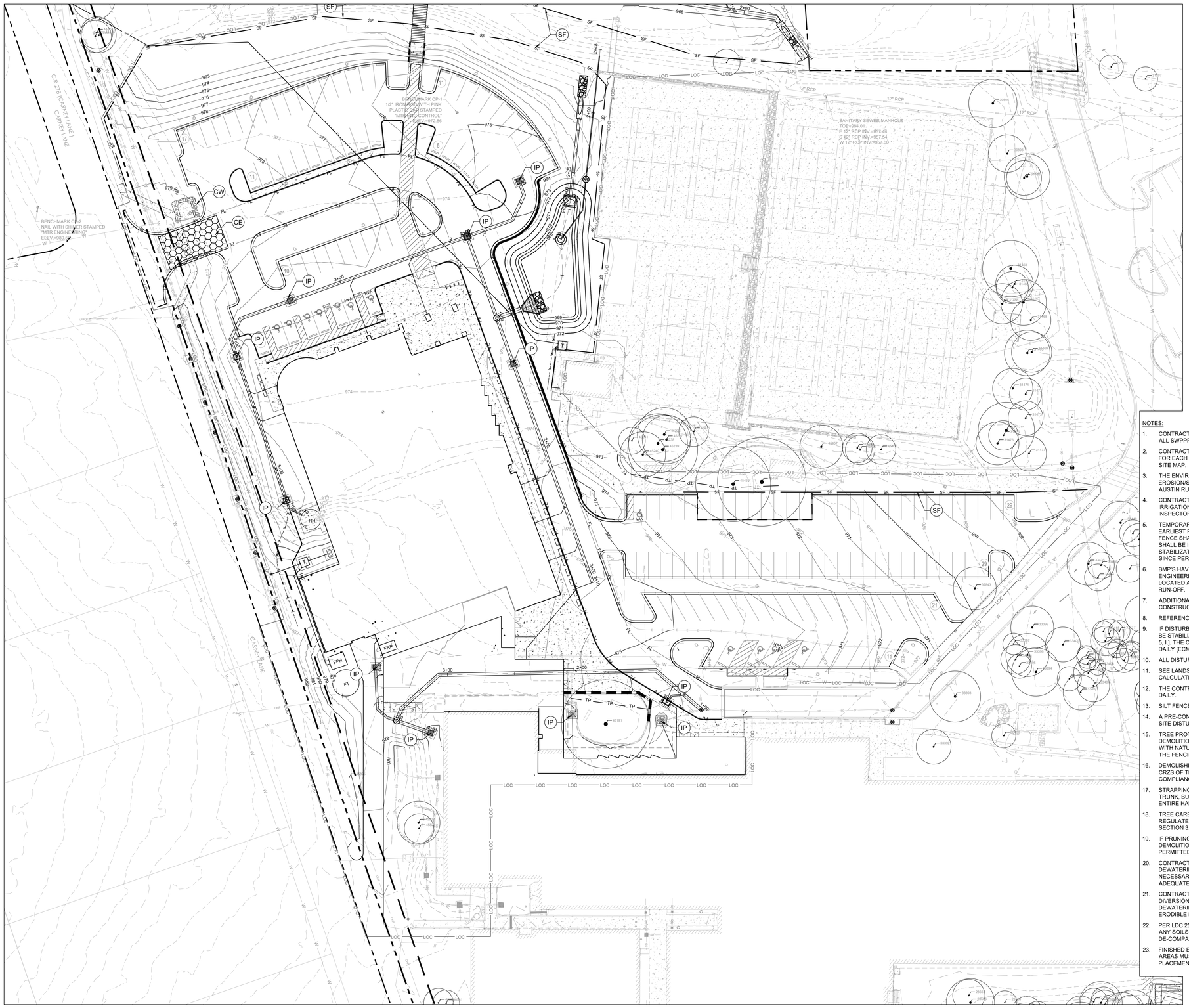
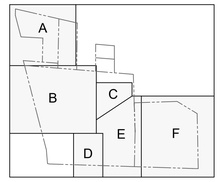


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

SF	SILT FENCE
FD	TRIANGULAR FILTER DYKE
LOC	LIMITS OF CONSTRUCTION
TP	TREE PROTECTION
CE	CONSTRUCTION ENTRANCE
SA	STAGING AND STOCKPILE AREA
CW	CONCRETE WASHOUT
450	EXISTING CONTOURS
450	PROPOSED CONTOURS
1234	TREE TO REMAIN
IP	INLET PROTECTION
DS	DEWATERING SKIMMER OR OTHER APPROVED DEWATERING DEVICE (REFERENCE NOTES 20 & 21)
RB	ROCK BERM

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Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
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EROSION CONTROL PLAN - AREA B

SHEET NO.
C2.01

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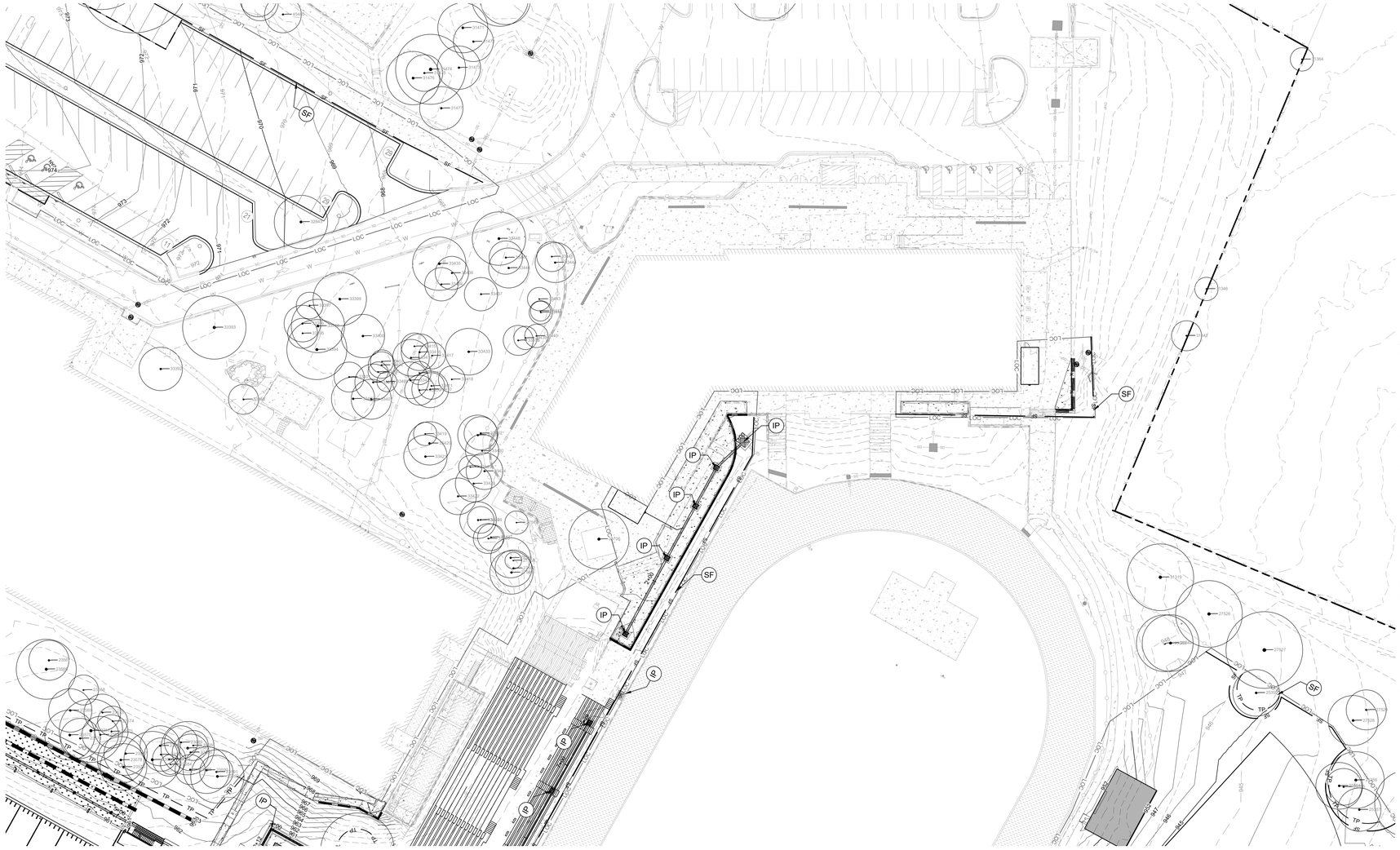
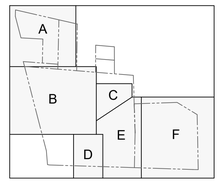


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

SF	SF	SILT FENCE
FD	FD	TRIANGULAR FILTER DYKE
LOC		LIMITS OF CONSTRUCTION
TP		TREE PROTECTION
	CE	CONSTRUCTION ENTRANCE
	SA	STAGING AND STOCKPILE AREA
	CW	CONCRETE WASHOUT
450		EXISTING CONTOURS
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Revisions:

NO.	DESCRIPTION	DATE

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EROSION CONTROL PLAN - AREA C

SHEET NO.
C2.02

Plotted By: Randall, Zach Date: February 03, 2026 06:11:27pm File Path: K:\aus_civil\068733904 - wimberley isd - danforth jh\Cad\plansheets\C-Erosion Control Plan.dwg
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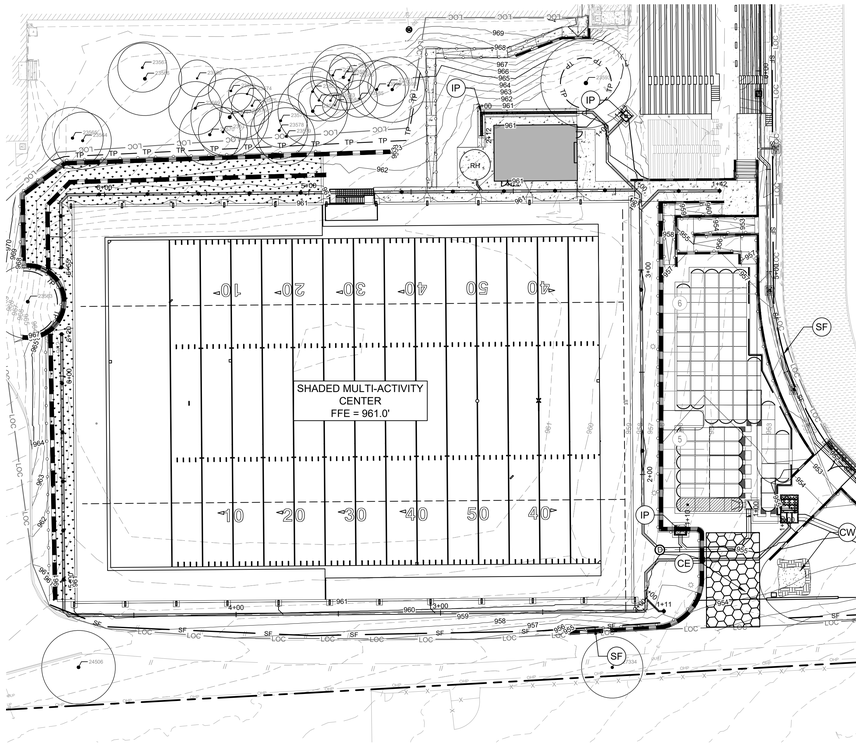
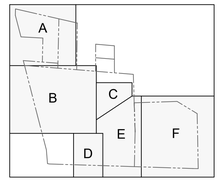


KEY MAP



0 30' 60'
GRAPHIC SCALE 30'

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23. FINISHED ELEVATION FOR PARKING-LOT ISLANDS, MEDIANS, PENINSULAS, AND SIMILAR LANDSCAPE AREAS MUST BE AT LEAST SIX (6) INCHES BELOW THE FINISHED CURB ELEVATION TO ALLOW FOR PLACEMENT OF SIX (6) INCHES OF TOPSOIL [ECM 1.4.7.]

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALLISON KENNAUGH
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LICENSED PROFESSIONAL ENGINEER
CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO: 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EROSION CONTROL PLAN - AREA D

SHEET NO.
C2.03

Plotted By: Rondell, Zach Date: February 03, 2026 06:11:32pm File Path: K:\aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C–Erosion Control Plan.dwg
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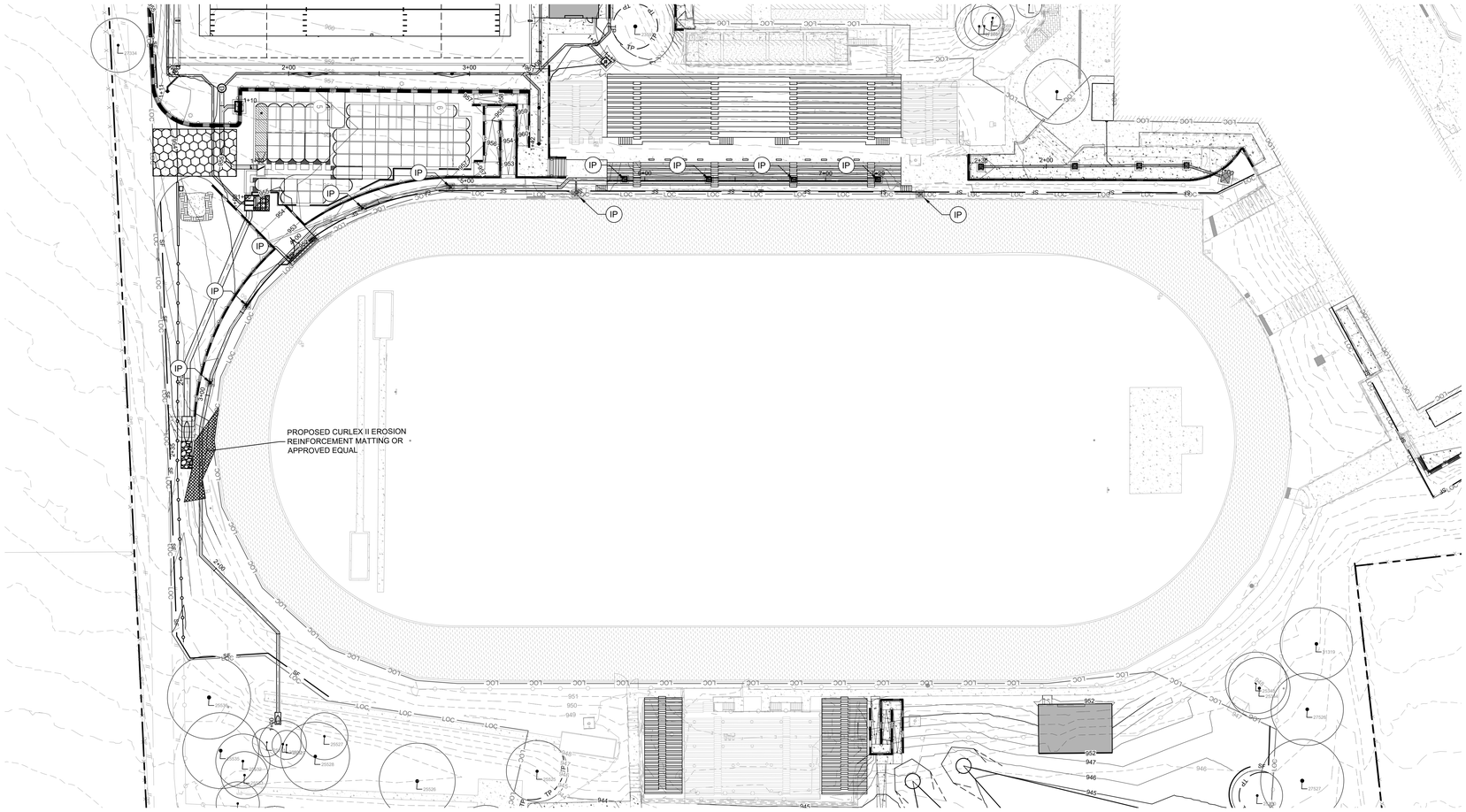
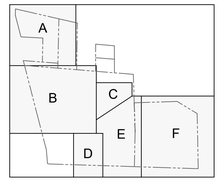


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

SF	SF	SILT FENCE
FD	FD	TRIANGULAR FILTER DYKE
LOC		LIMITS OF CONSTRUCTION
TP		TREE PROTECTION
	CE	CONSTRUCTION ENTRANCE
	SA	STAGING AND STOCKPILE AREA
	CW	CONCRETE WASHOUT
450		EXISTING CONTOURS
450		PROPOSED CONTOURS
1234		TREE TO REMAIN
	IP	INLET PROTECTION
	DS	DEWATERING SKIMMER OR OTHER APPROVED DEWATERING DEVICE (REFERENCE NOTES 20 & 21)
	RB	ROCK BERM

NOTES:

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
4. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURE DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D) OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
5. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
6. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
7. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED BY THE CITY DURING CONSTRUCTION.
8. REFERENCE EROSION CONTROL NOTES AND DETAILS ON SHEET C2.10.
9. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING [ECM 1.4.4.B.3, SECTION 5, I.]. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY [ECM 1.4.4.D.4].
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14. A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
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16. DEMOLISHING EXISTING STRUCTURES, REMOVING UTILITIES, AND/OR REMOVING FLATWORK WITHIN THE CRZS OF TREES 8" OR GREATER IN DIAMETER MAY ONLY BE PERFORMED USING HAND-TOOLS IN COMPLIANCE WITH SPECIAL CONSTRUCTION TECHNIQUES ECM 3.5.4(D).
17. STRAPPING 2X4 OR THICKER LUMBER (TO MATCH HEIGHT OF BUILDING) SECURELY AROUND TREE TRUNK, BUTTRESS ROOTS, AND ROOF FLARE, IS REQUIRED IF FENCING CANNOT GO AROUND THE ENTIRE HALF CRZ.
18. TREE CARE PLAN MAY BE REQUIRED AT THE INSPECTOR'S DISCRETION IF IMPACTS ARE MADE TO REGULATED TREES (8" OR GREATER IN DIAMETER) ON SITE BEYOND THAN WHAT IS REQUIRED PER ECM SECTION 3.5.2.
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23. FINISHED ELEVATION FOR PARKING-LOT ISLANDS, MEDIANS, PENINSULAS, AND SIMILAR LANDSCAPE AREAS MUST BE AT LEAST SIX (6) INCHES BELOW THE FINISHED CURB ELEVATION TO ALLOW FOR PLACEMENT OF SIX (6) INCHES OF TOPSOIL [ECM 1.4.7.]

BENCHMARKS

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2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EROSION CONTROL PLAN - AREA E

SHEET NO.
C2.04

Plotted By: Randall, Zach Date: February 03, 2026 06:11:38pm File Path: K:\aus_civil\068733904 - wimberley isd - danforth jhs\Cad\plansheets\C-Erosion Control Plan.dwg
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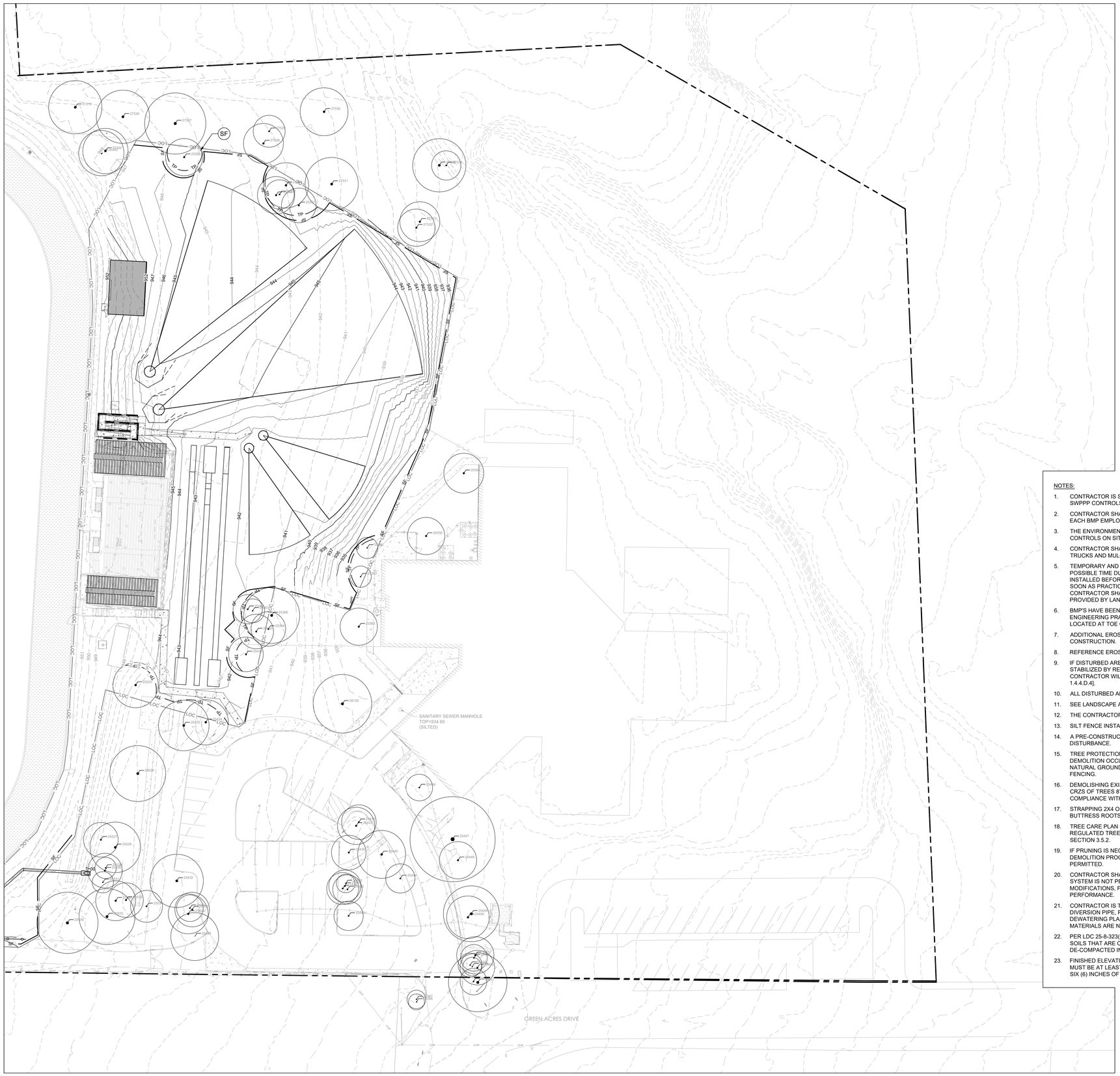
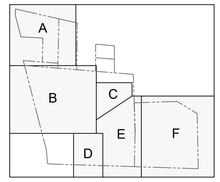


KEY MAP



LEGEND

SF	SF	SILT FENCE
FD	FD	TRIANGULAR FILTER DYKE
LOC		LIMITS OF CONSTRUCTION
TP		TREE PROTECTION
	CE	CONSTRUCTION ENTRANCE
	SA	STAGING AND STOCKPILE AREA
	CW	CONCRETE WASHOUT
450		EXISTING CONTOURS
450		PROPOSED CONTOURS
1034		TREE TO REMAIN
	IP	INLET PROTECTION
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2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EROSION CONTROL PLAN - AREA F

SHEET NO.
C2.05

Plotted By: Bondsti, Zach Date: February 03, 2026 06:11:43pm File Path: K:\Aus_civil\069733904 – wimberley isd – danforth jhs\Cad\plotsheets\C-Erosion Control Plan.dwg
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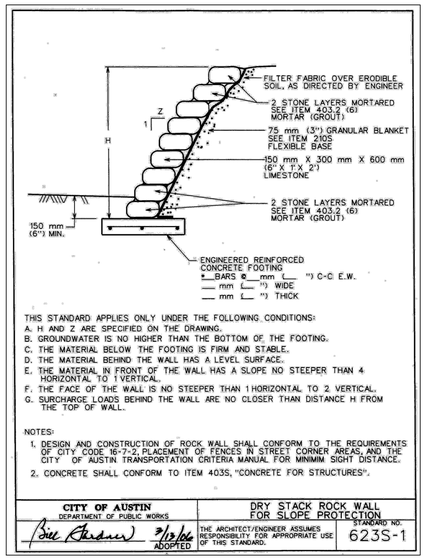


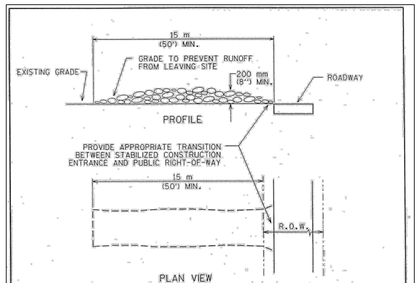
THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:

A. H AND Z ARE SPECIFIED ON THE DRAWING.
B. GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
C. THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
D. THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
E. THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
F. THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
G. SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.

NOTES:

1. DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMUM SIGHT DISTANCE.
2. CONCRETE SHALL CONFORM TO ITEM 403S, "CONCRETE FOR STRUCTURES".

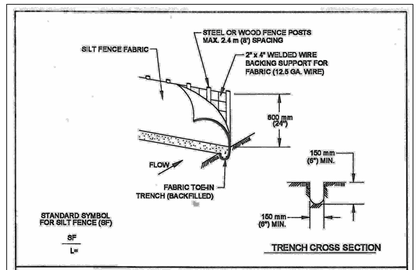
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DRY STACK ROCK WALL FOR SLOPE PROTECTION
Bill Gardner 3/13/96 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 623S-1



NOTES:

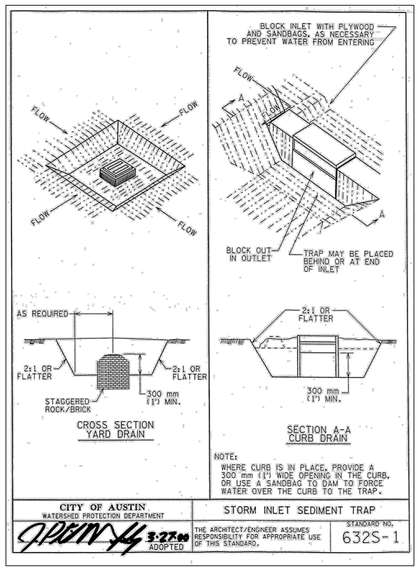
1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	STABILIZED CONSTRUCTION ENTRANCE
Sue Barker 5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 641S-1

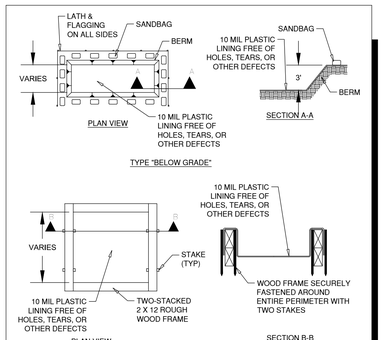


1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 Inches) DEPTH, USE STEEL POSTS.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 Inches) DEEP AND 150 mm (6 Inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 Inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE
Mary E. Myer 9/1/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 642S-1



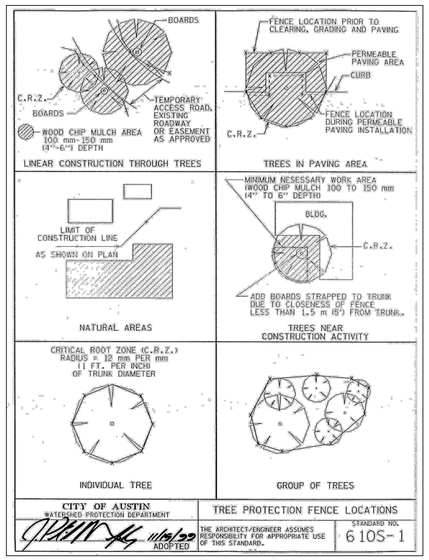
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	STORM INLET SEDIMENT TRAP
3-27-00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 632S-1



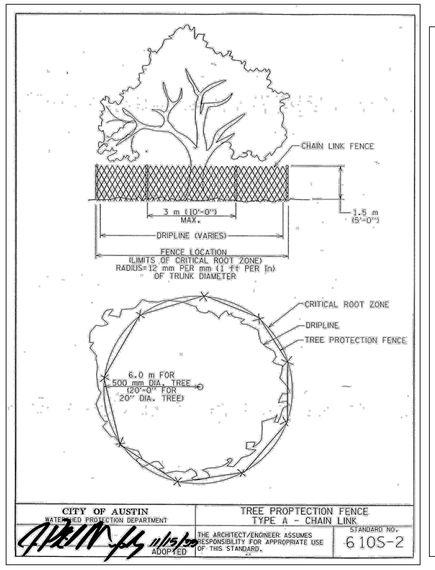
GENERAL NOTES:

- 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.

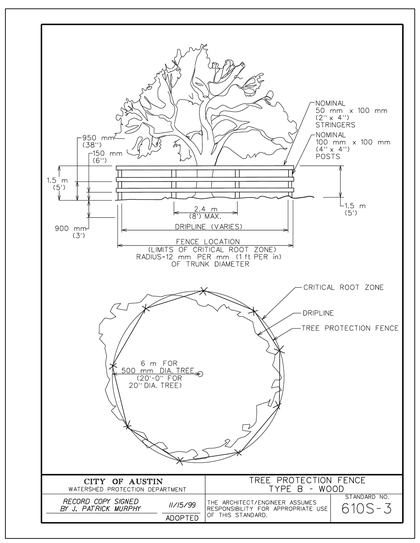
CONCRETE TRUCK WASHOUT PIT



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE LOCATIONS
11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 610S-1



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROPTECTION FENCE TYPE A - CHAIN LINK
11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 610S-2



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE TYPE B - WOOD
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
	STANDARD NO. 610S-3

Plotted By: Bondell, Zach Date: February 03, 2026 06:11:49pm File Path: K:\Aus_civil\069733904 – wimberley isd – danforth jhs\Civil\plansheets\C-Erosion Control Details.dwg
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WIMBERLEY ISD
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Allison Kinnaugh
TEXAS REGISTERED ENGINEER
ALLISON KINNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EROSION CONTROL DETAILS

SHEET NO.
C2.10

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Plotted By:Rondall, Zach Date:February 03, 2026 06:45:49pm File Path:K:\aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C–Overall Sheets.dwg
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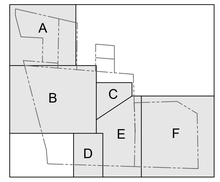
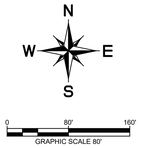
KEY MAP





LEGEND

	PROPERTY LINE
W	WATER LINE
WW	WASTEWATER LINE
	STORM LINE
	FENCE
FDC	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT
W	EXISTING WATER LINE
SS	EXISTING WASTEWATER LINE
	EXISTING STORM LINE
X X X	EXISTING FENCE
OHE	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	ALT BID
	EXISTING SIDEWALK
FL	PROPOSED FIRE LANE MARKING
	ADA PARKING SYMBOL
ADA	ACCESSIBILITY ROUTE
	EXISTING STREET SIGN
	PROPOSED SIDEWALK
	PROPOSED SIGN
	PROPOSED RETAINING WALL

NOTES:

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PARKING TABLE	
EXISTING PARKING	
TYPE / LOCATION	QUANTITY
STANDARD	238
ADA	9
TOTAL EXISTING PARKING ON SITE	247
REMOVAL OF EXISTING STANDARD PARKING	110
REMOVAL OF EXISTING ADA PARKING	1
PROPOSED PARKING - BASE BID	
TYPE / LOCATION	QUANTITY
STANDARD	251
STANDARD ADA	9
VAN ADA	4
TOTAL PARKING PROVIDED WITH THIS PROJECT	***153***
PROPOSED PARKING - ALT BID	
TYPE / LOCATION	QUANTITY
STANDARD	388
STANDARD ADA	9
VAN ADA	4
TOTAL PARKING PROVIDED WITH THIS PROJECT	***290***
TOTAL PARKING PROVIDED ON SITE	***537***

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=960.56

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

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

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Allison Kennaugh
STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

OVERALL SITE PLAN

SHEET NO.
C3.00

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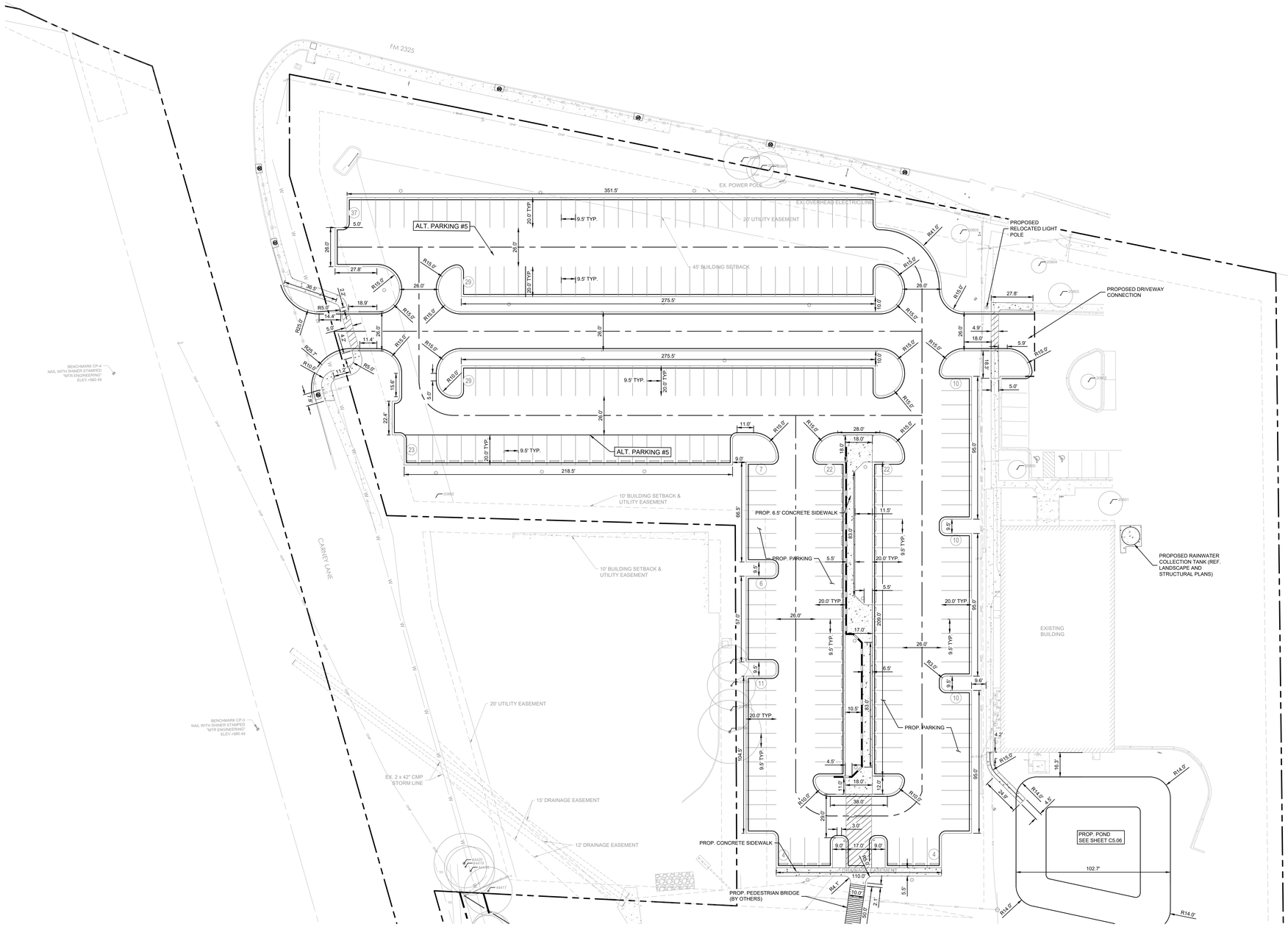
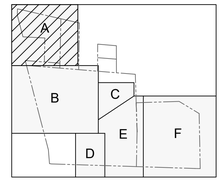


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

- PROPERTY LINE
- W — WATER LINE
- WW — WASTEWATER LINE
- STORM LINE
- FENCE
- FIRE DEPARTMENT CONNECTION (FDC)
- FIRE HYDRANT
- W — EXISTING WATER LINE
- SS — EXISTING WASTEWATER LINE
- EXISTING STORM LINE
- X — X — X — EXISTING FENCE
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING SIDEWALK
- FL — PROPOSED FIRE LANE MARKING
- ADA PARKING SYMBOL
- ADA — ACCESSIBILITY ROUTE
- EXISTING STREET SIGN
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- PROPOSED SIGN
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200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALLISON KENNAUGH 114356 LICENSED PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM: KIMLEY-HORN & ASSOCIATES TEXAS REGISTRATION NO: 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

DIMENSIONAL SITE PLAN - AREA A

SHEET NO.
C3.01

Plotted By:Bondoli, Zach Date:February 03, 2026 06:12:45pm File Path:K:\Aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plotsheets\C-Dimension Control Plan.dwg
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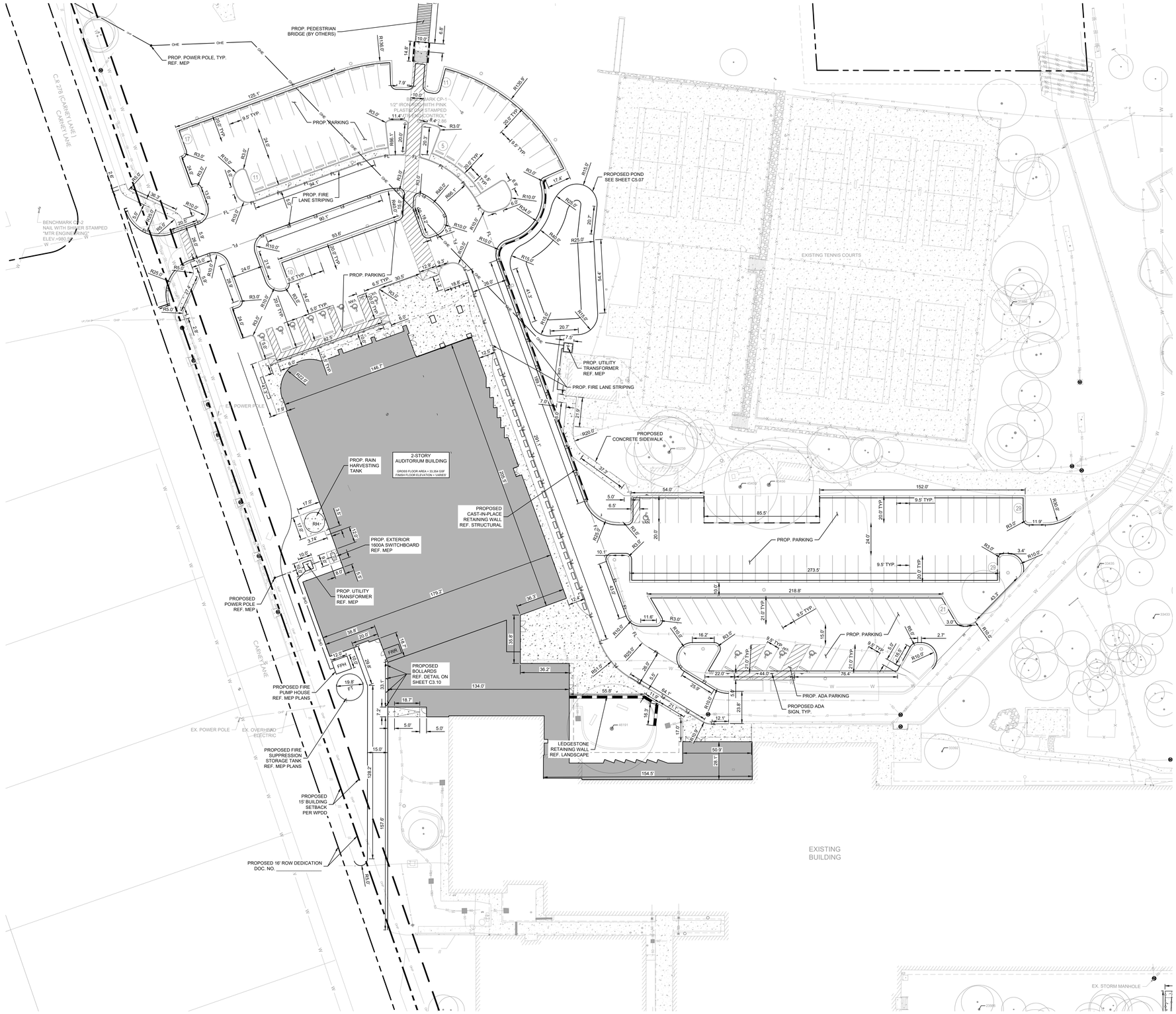
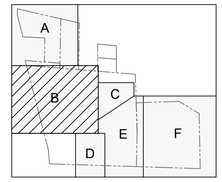


KEY MAP



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0 30' 60'
GRAPHIC SCALE 30'

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TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

DIMENSIONAL SITE PLAN - AREA B

SHEET NO.
C3.02

Plotted By:Randall, Zach Date:February 03, 2026 06:12:53pm File Path:K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plansheets\C-Dimension Control Plan.dwg
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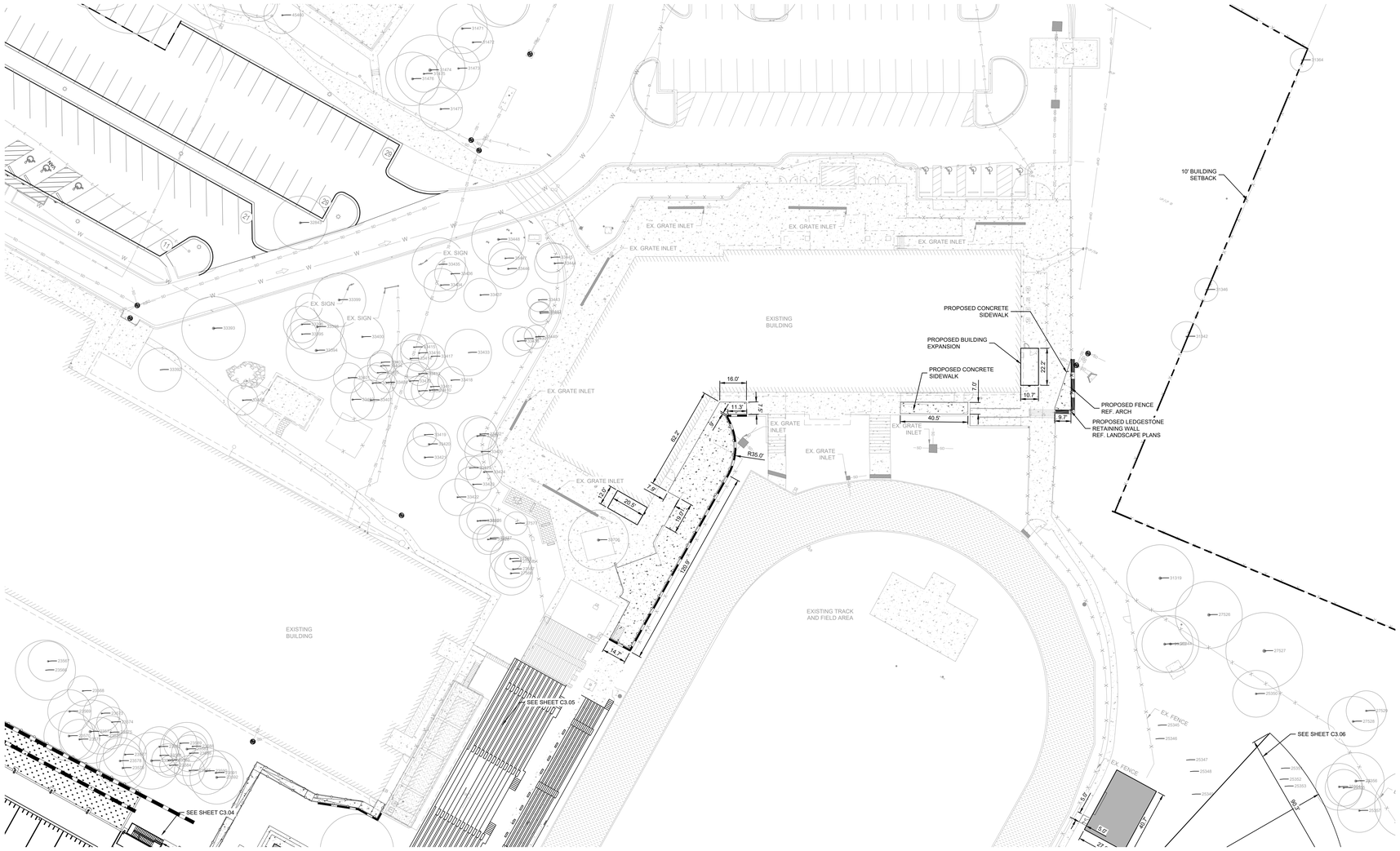
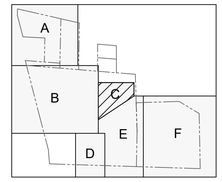


KEY MAP



LEGEND

- PROPERTY LINE
- W — WATER LINE
- WW — WASTEWATER LINE
- STORM LINE
- FENCE
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- FIRE HYDRANT
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BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM
O'CONNELL ROBERTSON AND ASSOCIATES
TEXAS REGISTRATION NO. 109

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

DIMENSIONAL SITE PLAN - AREA C

SHEET NO.
C3.03

Plotted By:Randall Zoch Date:February 03, 2026 06:13:04pm File Path:K:\Vars_civil\068733904 — wimberley isd — danforth jhs\Civil\plansheets\C-Dimension Control Plan.dwg
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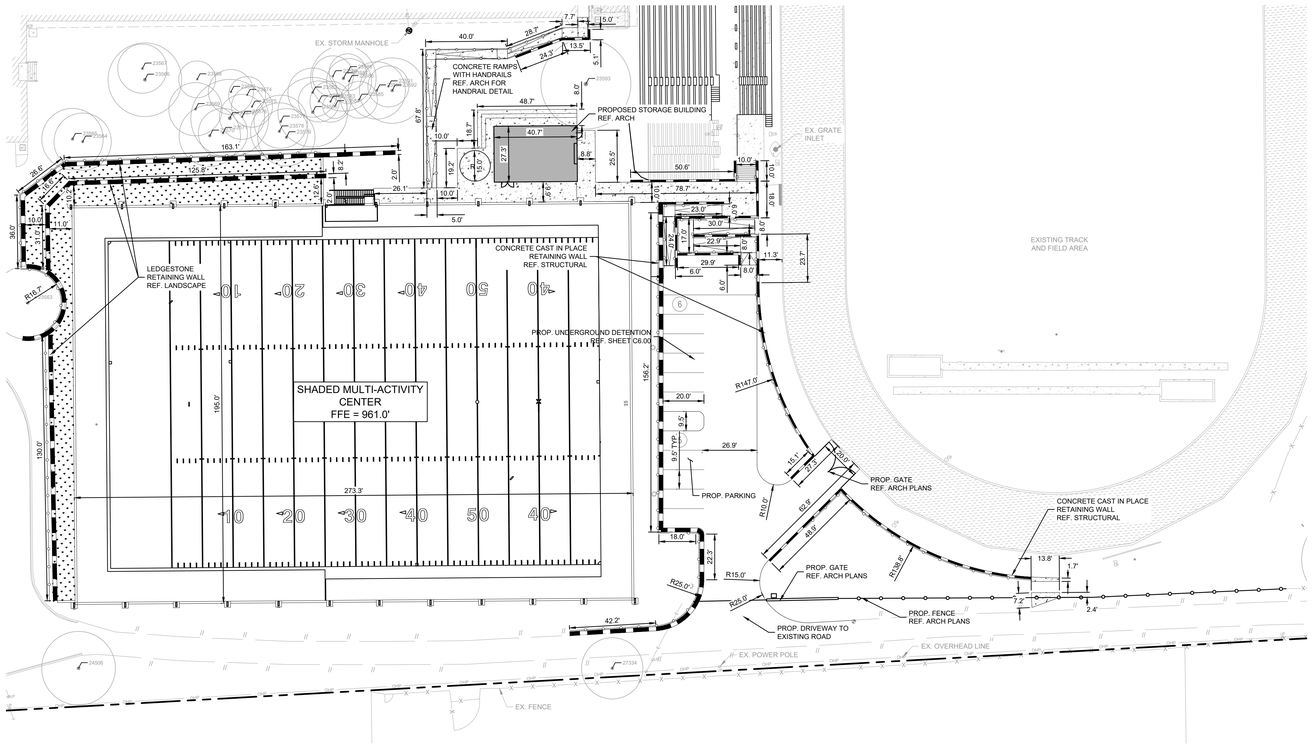
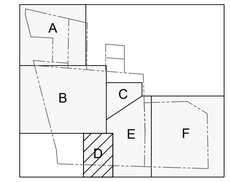


KEY MAP



N
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S

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GRAPHIC SCALE 30'

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Allison Kennaugh
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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

DIMENSIONAL SITE PLAN - AREA D

SHEET NO.
C3.04

Plotted By: Randall, Zach Date: February 03, 2026 06:13:07pm File Path: K:\aus_civil\068733904 - wimberley isd - danforth jh\Cad\plansheets\C-Dimension Control Plan.dwg
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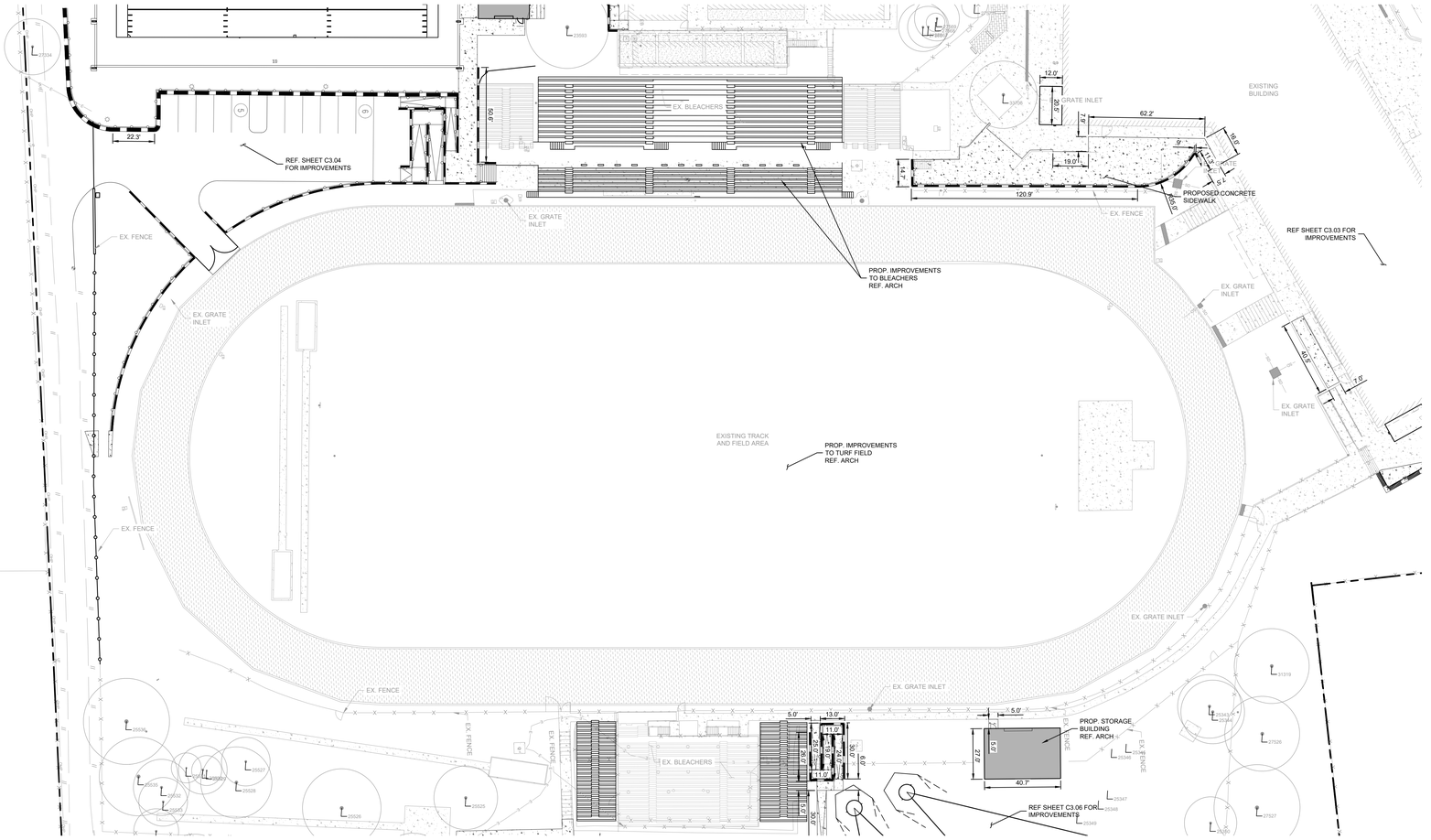
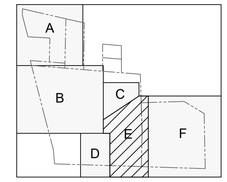


KEY MAP



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GRAPHIC SCALE 30'

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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS
ADDITIONS & RENOVATIONS

200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh

ALLISON KENNAUGH 114356 LICENSED PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

DIMENSIONAL SITE PLAN - AREA E

SHEET NO.
C3.05

Plotted By: Randall, Zach Date: February 03, 2026 06:13:12pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jh\Cad\plansheets\C—Dimension Control Plan.dwg
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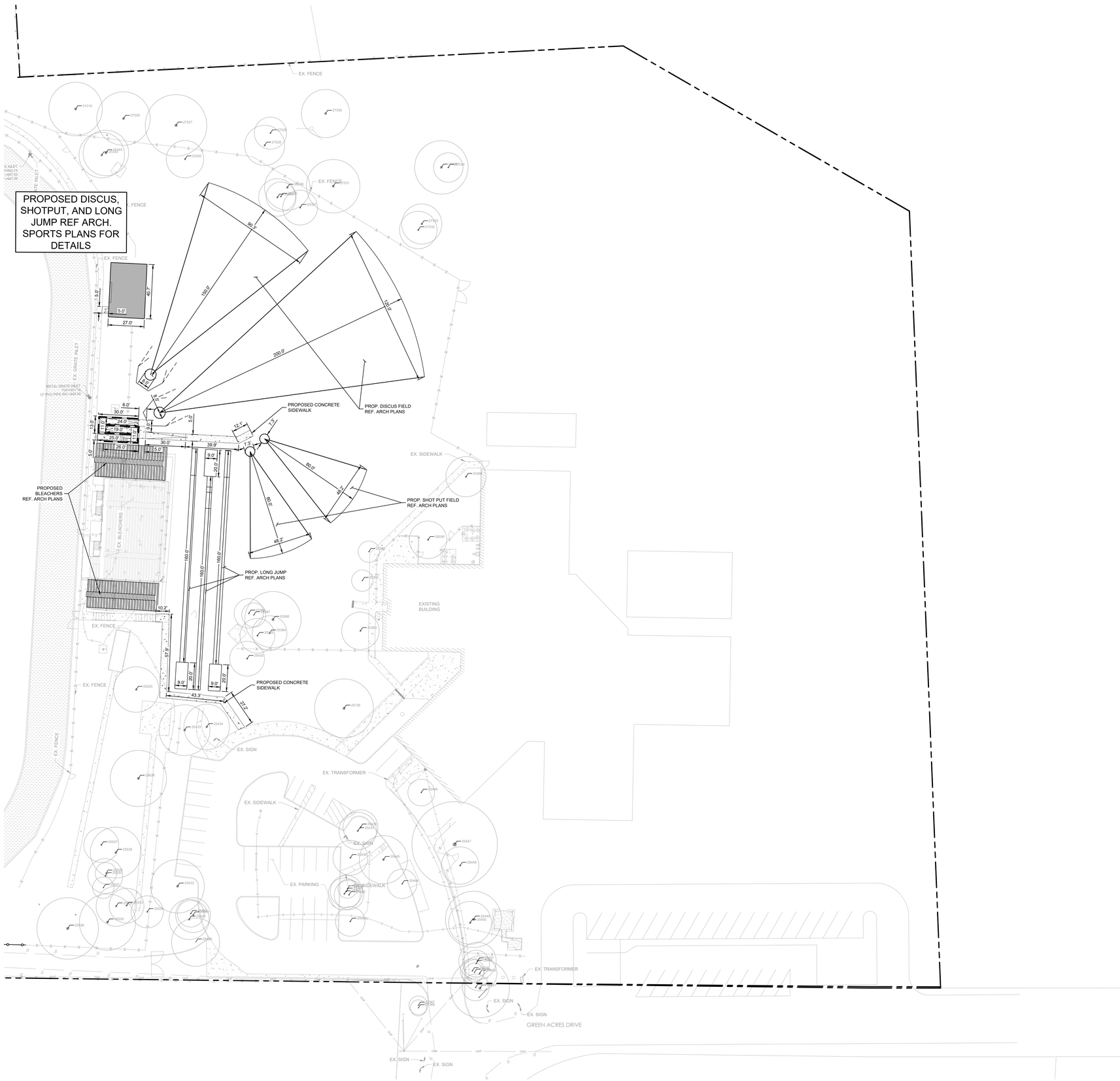
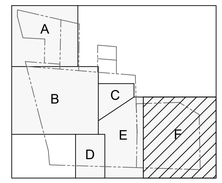


KEY MAP



N
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GRAPHIC SCALE 30'

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Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

DIMENSIONAL SITE PLAN - AREA F

SHEET NO.
C3.06

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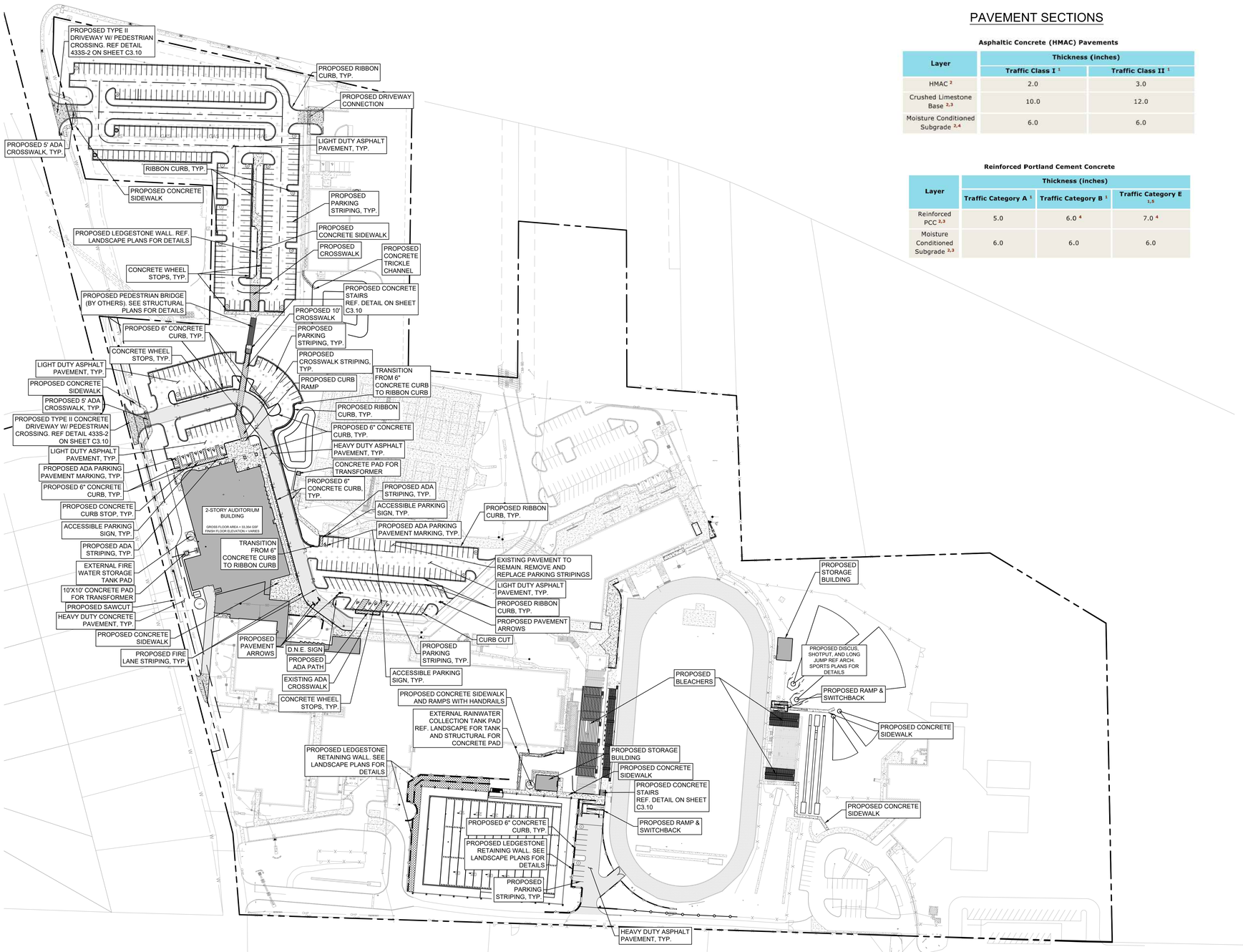


PAVEMENT SECTIONS

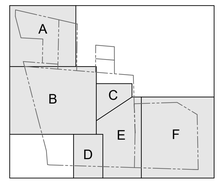
Asphaltic Concrete (HMAC) Pavements

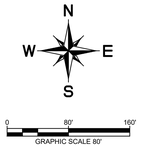
Layer	Thickness (inches)	
	Traffic Class I [1]	Traffic Class II [1]
HMAC [2]	2.0	3.0
Crushed Limestone Base [2,3]	10.0	12.0
Moisture Conditioned Subgrade [2,4]	6.0	6.0

Reinforced Portland Cement Concrete

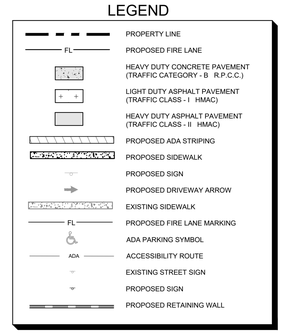
Layer	Thickness (inches)		
	Traffic Category A [1]	Traffic Category B [1]	Traffic Category E [1,5]
Reinforced PCC [2,3]	5.0	6.0 [4]	7.0 [4]
Moisture Conditioned Subgrade [2,3]	6.0	6.0	6.0

KEY MAP





LEGEND



REFER TO PRELIMINARY GEOTECHNICAL REPORT BY TERRACON GEOTECH PROJECT NO. 96255184 DATED: DECEMBER 2, 2025 OR ANY REVISIONS OR ADDENDA TO THIS FINAL REPORT

NOTES:

1. STOP SIGNS (R1-1) ARE SHOWN FOR SCHEMATIC PURPOSES ONLY, SEE DETAIL SHEET FOR PLACEMENT.
2. ALL STOP BARS TO CONFORM TO TMUTCD STANDARDS FOR LOCATIONS AND DIMENSIONS.
3. CROSS HATCHED STRIPING TO BE WHITE AND 4 INCHES WIDE WITH 10 FOOT SPACING (PER TMUTCD STANDARDS).
4. PLEASE REFER TO GEOTECHNICAL PAVEMENT DESIGN ABOVE.
5. CONCRETE RIBBON CURB TO BE UTILIZED IN ALL AREAS UNLESS OTHERWISE NOTED.
6. THE WORDS "NO PARKING" SHALL BE PAINTED ON ANY ACCESS AISLE ADJACENT TO A HANDICAP PARKING SPACE. THE WORDS MUST BE PAINTED:
   - 6.A. IN ALL CAPITAL LETTERS;
   - 6.B. WITH A LETTER HEIGHT OF AT LEAST TWELVE INCHES, AND A STROKE WIDTH OF AT LEAST TWO INCHES; AND
   - 6.C. CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE
7. ALL PARKING MARKINGS ARE TO BE PAINTED WITH NO THERMOPLASTICS USED, UNLESS OTHERWISE NOTED. REFER TO CIVIL SPECIFICATIONS FOR PAINTED PAVEMENT MARKING (TYPE II GLASS TRAFFIC BEAD).

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

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

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San Antonio
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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kinnaugh
ALLISON KINNAUGH 114356 LICENSED PROFESSIONAL ENGINEER
2/5/2026
CIVIL ENGINEERING FIRM: KIMLEY-HORN & ASSOCIATES TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

PAVING SIGNAGE & STRIPING PLAN

SHEET NO.
C3.07

Plotted By: Bondell, Zach Date: February 03, 2026 06:13:32pm File Path: K:\Aus_civil\068723904 – wimberley isd – danforth jhs\Cad\plotsheets\C–Paving Signage and Striping Plan.dwg
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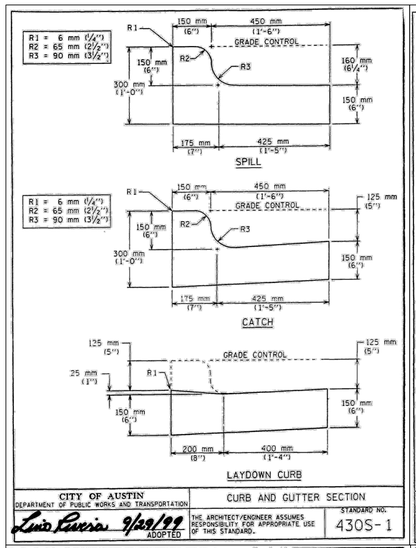
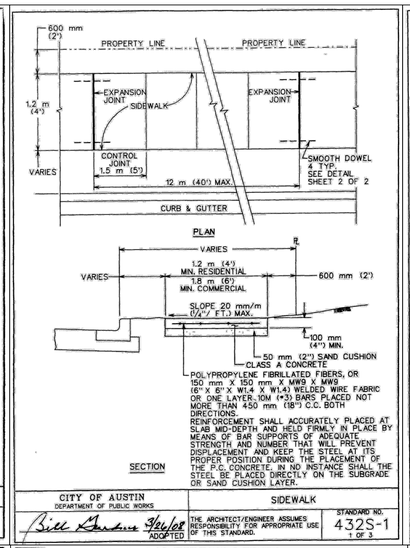
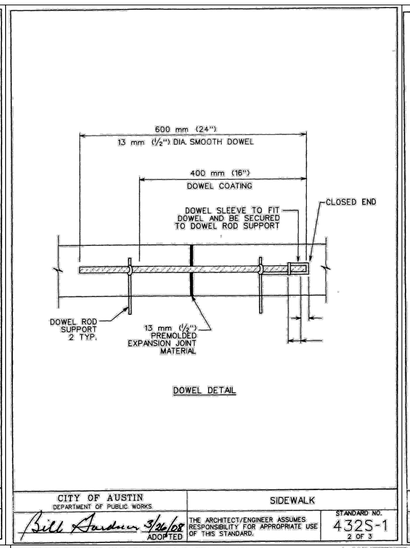
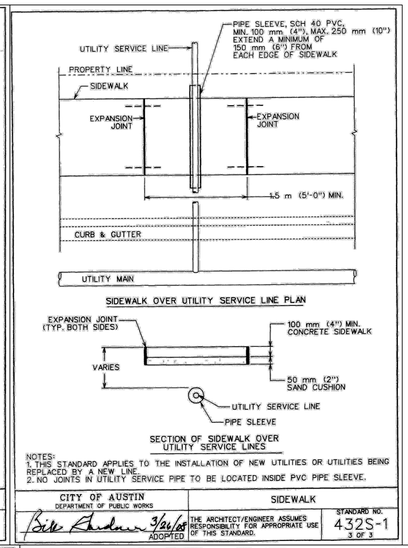
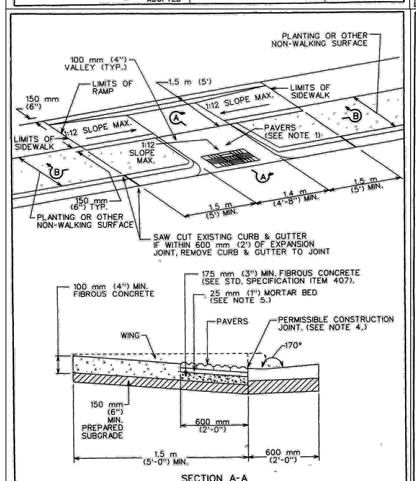
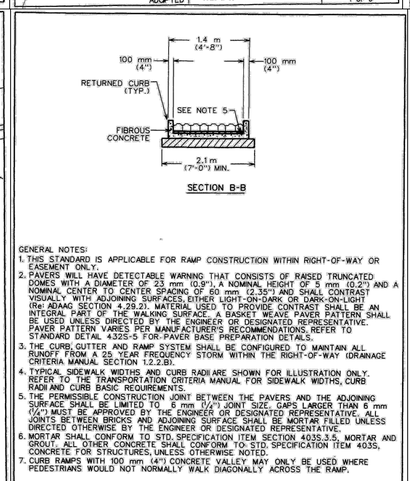


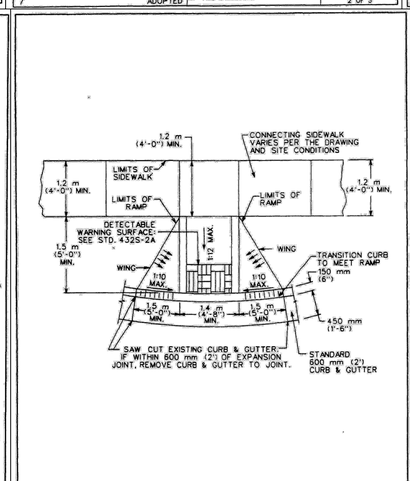


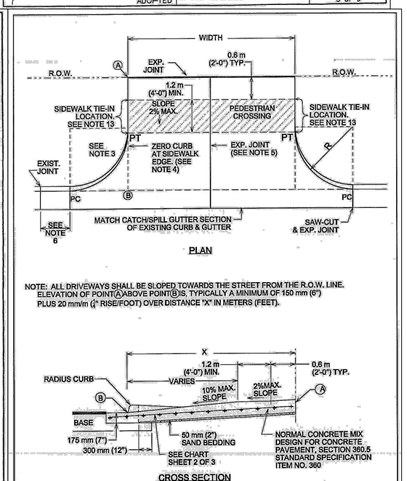




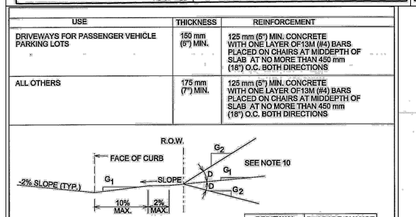








USE	THICKNESS	REINFORCEMENT
DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	150 mm (6") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS
ALL OTHERS	175 mm (7") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS

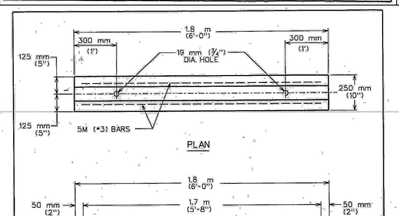


ALLOWABLE GRADES

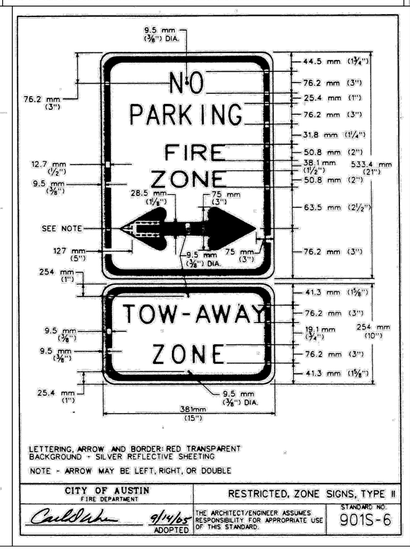
DRIVEWAY VOLUME (ADT)	D=GRADE CHANGE STD.	MAX
>1500	0%	3%
500-1500	3%	6%
<500	6%	15%

NOTES:
1. ALL TYPE II DRIVEWAYS SHALL HAVE RADIUS ENDS.
2. DRIVEWAY WIDTHS AND RADII DIMENSIONS, ONE/TWO WAY TRAVEL REQUIREMENTS, AND GEOMETRIC LAY-OUT ARE HIGHLY VARIABLE, SUBJECT TO SITE SPECIFIC CONDITIONS AND REQUIREMENTS. SEE TRANSPORTATION CRITERIA MANUAL SECTION 9 "DRIVEWAYS".
3. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITIONED INTO THE SIDEWALK TIE-IN LOCATION BEGINNING AT THE RADIUS P.C. LINE.
4. "ZERO" CURB AT PT OR SIDEWALK EDGE, WHICHEVER IS ENCOUNTERED FIRST.
5. PLACE AN EXPANSION JOINT DOWN THE CENTER OF DRIVEWAY ALL DRIVEWAYS.
6. IF DIMENSION IS LESS THAN 1.5 METERS (5 FEET), REMOVE CURB AND GUTTER TO EXISTING JOINT AND POUR MONOLITHICALLY WITH DRIVEWAY.
7. IF TINE BASE IS OVER EXCAVATED WHERE THE CURB AND GUTTER WERE REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
8. TYPE II DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHT OF WAY THAN 60% OF PARCEL FRONTAGE AT 30 METERS (100 FEET), WHICHEVER IS LESS.
9. DRIVEWAY SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
10. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHALL BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2 IS GREATER THAN 15%.
11. USE 12 MM (1/2") ASPHALT BOARD OR OTHER APPROVED MATERIAL FOR CURB AND GUTTER EXPANSION JOINTS. SIDEWALK, AT THE R.O.W. LINE AND AT MIDWIDTH, SEE NOTE 5.
12. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 FOR OTHER DRIVEWAY REQUIREMENTS.
13. THE SIDEWALK, REGARDLESS OF ITS LOCATION WITH RESPECT TO THE CURB OR PROPERTY LINE, SHALL BE CONNECTED TO THE DRIVEWAY AT THESE LOCATIONS.
14. WATER METER BOXES AND WASTEWATER CLEAN OUTS ARE PROHIBITED FROM BEING LOCATED IN DRIVEWAY AREAS.

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
TYPE II DRIVEWAY
STANDARD NO. 433S-2
2 OF 2
2/21/11
ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

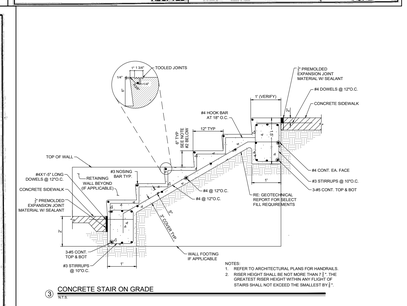


CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
PARKING LOT BUMPER CURB
STANDARD NO. 439S-1
APPROVED 3/15/05
ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



LETTERING, ARROW AND BORDER: RED TRANSPARENT
BACKGROUND - SILVER REFLECTIVE SHEETING
NOTE - ARROW MAY BE LEFT, RIGHT, OR DOUBLE

CITY OF AUSTIN
FIRE DEPARTMENT
RESTRICTED, ZONE SIGNS, TYPE II
STANDARD NO. 901S-6
9/14/05
ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



③ CONCRETE STAIR ON GRADE
NTS

PAVEMENT SECTIONS

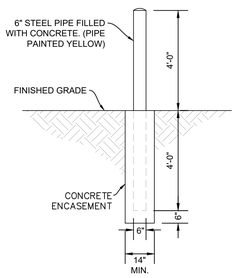
Asphaltic Concrete (HMAC) Pavements

Layer	Thickness (inches)	
	Traffic Class I [1]	Traffic Class II [1]
HMAC [2]	2.0	3.0
Crushed Limestone Base [2,3]	10.0	12.0
Moisture Conditioned Subgrade [2,4]	6.0	6.0

Reinforced Portland Cement Concrete

Layer	Thickness (inches)		
	Traffic Category A [1]	Traffic Category B [1]	Traffic Category E [1,5]
Reinforced PCC [2,3]	5.0	6.0 [4]	7.0 [4]
Moisture Conditioned Subgrade [2,3]	6.0	6.0	6.0

REFER TO PRELIMINARY GEOTECHNICAL REPORT BY TERRACON
GEOTECH PROJECT NO. 96255184
DATED: DECEMBER 2, 2025
OR ANY REVISIONS OR ADDENDA TO THIS FINAL REPORT



PIPE BOLLARD DETAIL
SCALE: N.T.S

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Houston
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Allison Kennaugh
ALLISON KENNAUGH
114356
LICENSED PROFESSIONAL ENGINEER
2/5/2026
CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

PAVING DETAILS

SHEET NO.
C3.10

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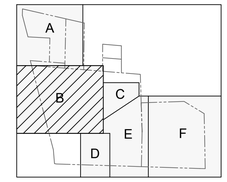
KEY MAP



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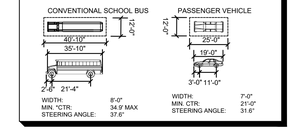
0 30' 60'
GRAPHIC SCALE 30'

LEGEND

FIRE ACCESS ROUTE
CAR ACCESS ROUTE
PEDESTRIAN AND BICYCLE ROUTE



ACCESS MANAGEMENT NOTES:

1. KIMLEY-HORN HAS PROVIDED THIS ACCESS MANAGEMENT PLAN TO OUR BEST KNOWLEDGE OF HOW THE DANFORTH JUNIOR HIGH SCHOOL WILL OPERATE THROUGH DISCUSSIONS WITH SCHOOL OFFICIALS AND AISD STAFF.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING" ELEV.=980.56

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

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DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS

200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
STATE OF TEXAS
ALLISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

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CONTRACT DOCUMENTS

QUEUING PLAN

SHEET NO.
C3.20

Plotted By:Bondoli, Zach Date:February 03, 2026 06:14:09pm File Path:K:\Aus_civil\069733904 – wimberley isd – danforth jhs\Cad\plotsheets\C-Access Management Plan.dwg
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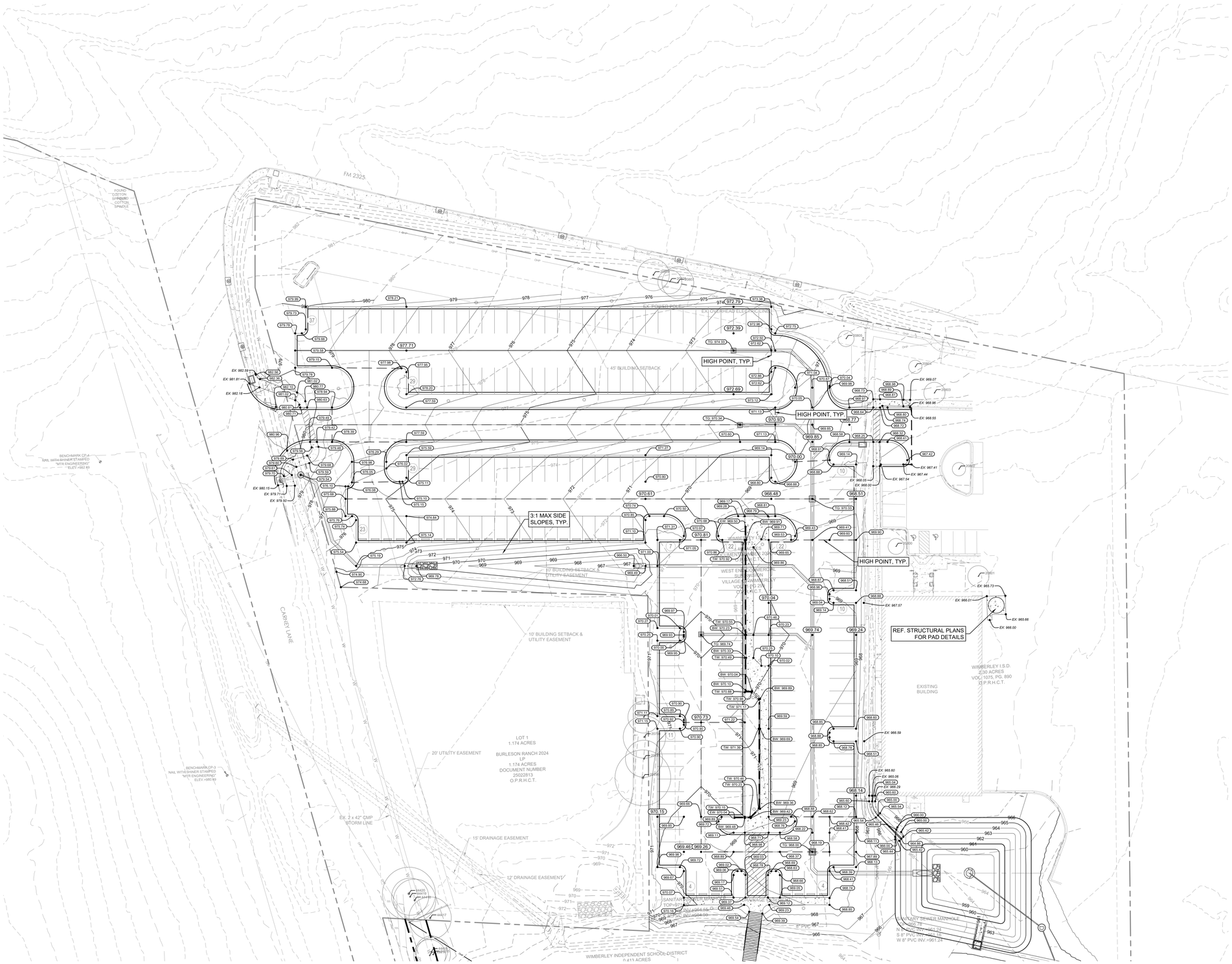

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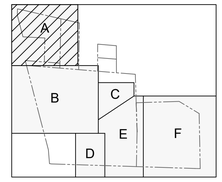

N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

PROPERTY LINE	
FFE: XXX.X	PROPOSED FINISHED FLOOR ELEVATION
TC 781.81 TP 781.31	PROPOSED TOP OF PAVEMENT/CURB ELEVATION
EX TC 781.81 EX TP 781.31	EXISTING TOP OF PAVEMENT/CURB ELEVATION
781.31	PROPOSED TOP OF PAVEMENT ELEVATION
EX 781.31	EXISTING TOP OF PAVEMENT ELEVATION
HP=781.81 HP=781.31	PROPOSED HIGH POINT ELEVATION
TW 781.31	PROPOSED TOP OF WALL
BW 781.31	PROPOSED BOTTOM OF WALL
ADA	ADA ROUTE
	FLOW DIRECTION
	PROPOSED RETAINING WALL
555	PROPOSED CONTOUR
555	EXISTING CONTOUR
	GRADE BREAK

NOTES:

1. ALL PROPOSED ELEVATIONS ARE TOP OF PAVEMENT OR NATURAL GROUND UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY A.D.A. COMPLIANCE FOR GRADES IN ALL SIDEWALK ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSINGS, SHALL CONFORM TO ALL APPLICABLE A.D.A. STANDARDS: NOT EXCEED 5.0% ALONG TRAVEL PATH WITH NO MORE THAN 2.0% CROSS SLOPE AND NOT EXCEED 2.0% IN ANY DIRECTION IN ACCESSIBLE PARKING AREAS.
3. ALL NON-PAVED AREAS ADJACENT TO THE BUILDING SHALL BE 0.5 FEET BELOW FINISH FLOOR ELEVATION.
4. SIDEWALK TO TRANSITION TO DRIVEWAY AT MAXIMUM OF A 5% SLOPE.
5. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SIDEWALKS AND PEDESTRIAN ROUTES DO NOT EXCEED A 5% SLOPE IN THE PATH OF TRAVEL OR A 2% CROSS SLOPE, AND CONTRACTOR SHALL VERIFY THAT ACCESSIBLE PARKING AREAS (INCLUDING THE ADJOINING ACCESS AISLES) DO NOT EXCEED A 2% SLOPE IN ANY DIRECTION. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO ENSURE ADA/TAS SLOPE CRITERIA ARE NOT EXCEEDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PLACING PAVEMENT IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CHANGE ORDERS WILL BE ACCEPTED FOR ADA/TAS SLOPE COMPLIANCE ISSUES.
6. CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING CONCOURSE PRIOR TO INSTALLATION OF FLATWORK STEPS.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING"
ELEV.=980.56

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ELEV.=980.49

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ELEV.=970.47

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San Antonio
Houston

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DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
STATE OF TEXAS
ALLISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

2/5/2026

CIVIL ENGINEERING FIRM: KIMLEY-HORN & ASSOCIATES TEXAS REGISTRATION NO. 928

NO.	DESCRIPTION	DATE

Revisions:

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

GRADING PLAN - AREA A

SHEET NO.
C4.00

Plotted By:Bondzi, Zach Date:February 03, 2026 06:14:31pm File Path:K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Civil\sheets\C-Grading Plan.dwg
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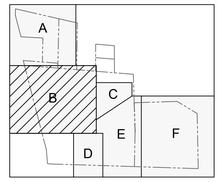
KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

	PROPERTY LINE
FFE: XXX.X	PROPOSED FINISHED FLOOR ELEVATION
TC 781.81 TP 781.31	PROPOSED TOP OF PAVEMENT/CURB ELEVATION
EX TC 781.81 EX TP 781.31	EXISTING TOP OF PAVEMENT/CURB ELEVATION
781.31	PROPOSED TOP OF PAVEMENT ELEVATION
EX 781.31	EXISTING TOP OF PAVEMENT ELEVATION
HP=781.81 HP=781.31	PROPOSED HIGH POINT ELEVATION
TW 781.31	PROPOSED TOP OF WALL
BW 781.31	PROPOSED BOTTOM OF WALL
ADA	ADA ROUTE
	FLOW DIRECTION
	PROPOSED RETAINING WALL
555	PROPOSED CONTOUR
555	EXISTING CONTOUR
	GRADE BREAK

NOTES:

1. ALL PROPOSED ELEVATIONS ARE TOP OF PAVEMENT OR NATURAL GROUND UNLESS OTHERWISE NOTED.
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3. ALL NON-PAVED AREAS ADJACENT TO THE BUILDING SHALL BE 0.5 FEET BELOW FINISH FLOOR ELEVATION.
4. SIDEWALK TO TRANSITION TO DRIVEWAY AT MAXIMUM OF A 5% SLOPE.
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BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALLISON KENNAUGH
114356
LICENSED PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO: 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

GRADING PLAN
- AREA B

SHEET NO.
C4.01

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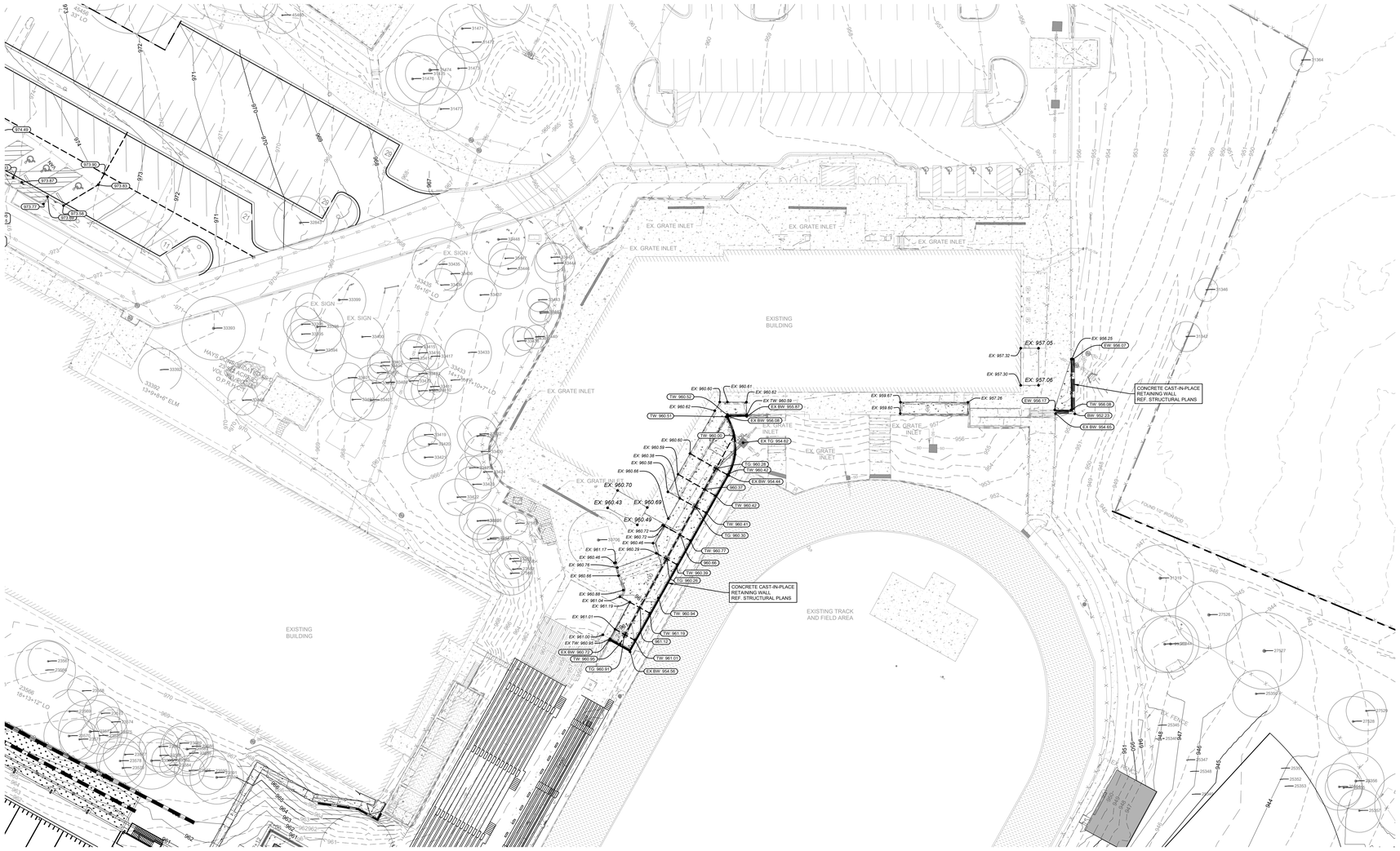

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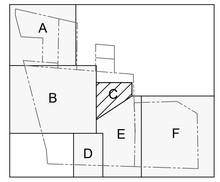

0 30' 60'

GRAPHIC SCALE 30'

LEGEND

PROPERTY LINE	
FFE: XXX.X	PROPOSED FINISHED FLOOR ELEVATION
TC 781.81 TP 781.31	PROPOSED TOP OF PAVEMENT/CURB ELEVATION
EX TC 781.81 EX TP 781.31	EXISTING TOP OF PAVEMENT/CURB ELEVATION
781.31	PROPOSED TOP OF PAVEMENT ELEVATION
EX 781.31	EXISTING TOP OF PAVEMENT ELEVATION
HP=781.81 HP=781.31	PROPOSED HIGH POINT ELEVATION
TW 781.31	PROPOSED TOP OF WALL
BW 781.31	PROPOSED BOTTOM OF WALL
ADA	ADA ROUTE
	FLOW DIRECTION
	PROPOSED RETAINING WALL
555	PROPOSED CONTOUR
555	EXISTING CONTOUR
	GRADE BREAK

NOTES:

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ELEV.=970.47

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STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

GRADING PLAN - AREA C

SHEET NO.
C4.02

Plotted By: Bondell, Zach Date: February 03, 2026 06:14:50pm File Path: K:\Aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C–Grading Plan.dwg
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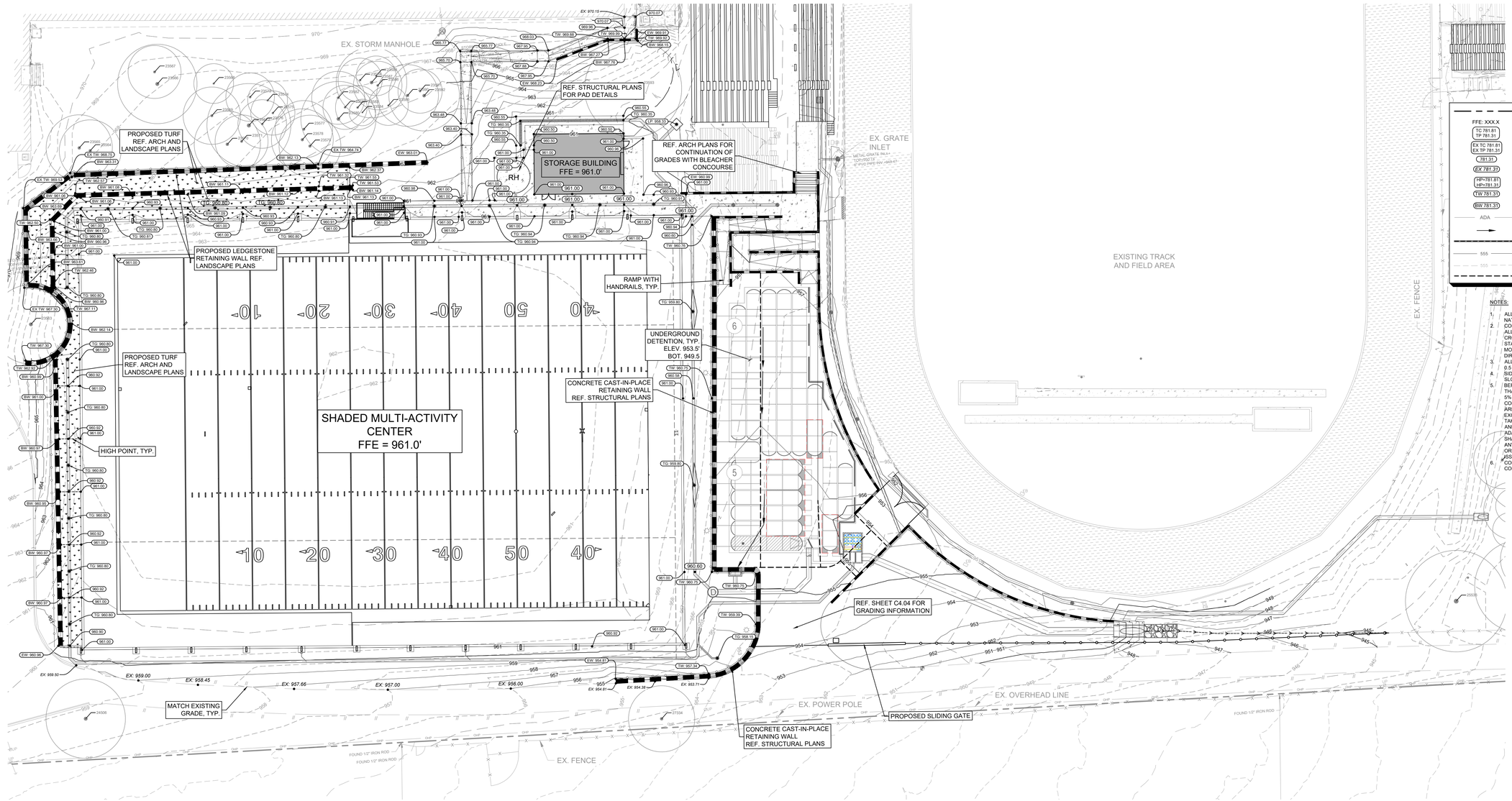

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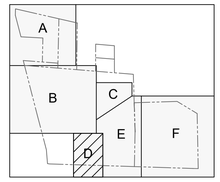

LEGEND

PROPERTY LINE	
FFE: XXX.X	PROPOSED FINISHED FLOOR ELEVATION
TC 781.81 TP 781.31	PROPOSED TOP OF PAVEMENT/CURB ELEVATION
EX TC 781.81 EX TP 781.31	EXISTING TOP OF PAVEMENT/CURB ELEVATION
781.31	PROPOSED TOP OF PAVEMENT ELEVATION
EX 781.31	EXISTING TOP OF PAVEMENT ELEVATION
HP=781.81 HP=781.31	PROPOSED HIGH POINT ELEVATION
TW 781.31	PROPOSED TOP OF WALL
BW 781.31	PROPOSED BOTTOM OF WALL
ADA	ADA ROUTE
	FLOW DIRECTION
	PROPOSED RETAINING WALL
555	PROPOSED CONTOUR
555	EXISTING CONTOUR
	GRADE BREAK

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CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

GRADING PLAN - AREA D

SHEET NO.
C4.03

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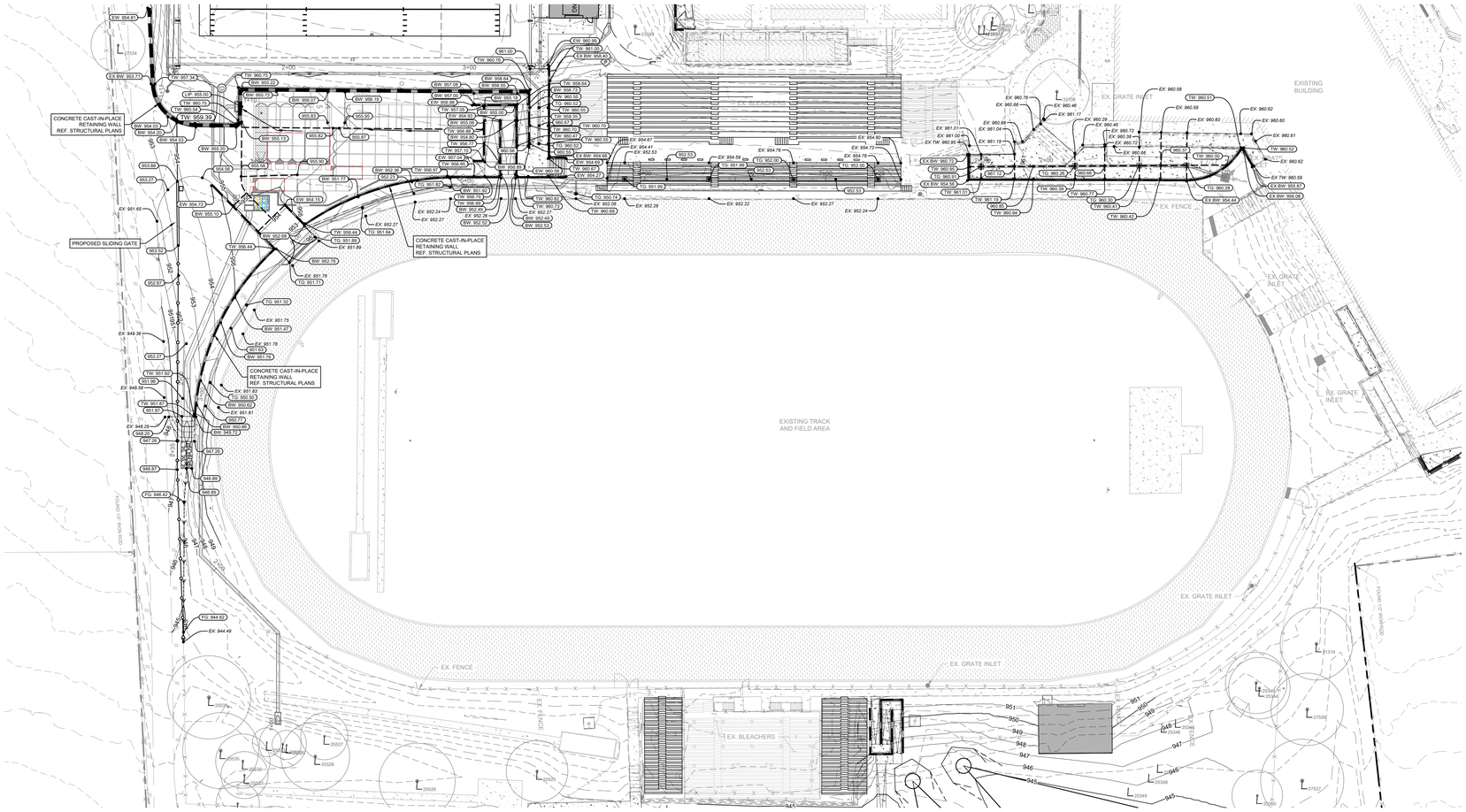

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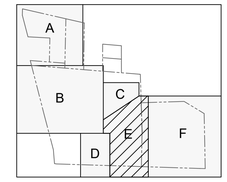

W
S
N
E

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

PROPERTY LINE	
FFE: XXX.X	PROPOSED FINISHED FLOOR ELEVATION
TC 781.81 / TP 781.31	PROPOSED TOP OF PAVEMENT/CURB ELEVATION
EX TC 781.81 / EX TP 781.31	EXISTING TOP OF PAVEMENT/CURB ELEVATION
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555	PROPOSED CONTOUR
555	EXISTING CONTOUR
	GRADE BREAK

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ELEV.=970.47

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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

GRADING PLAN - AREA E

SHEET NO.
C4.04

Plotted By:Bondell, Zach Date:February 03, 2026 06:15:10pm File Path:K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Civil\plansheets\C-Grading Plan.dwg
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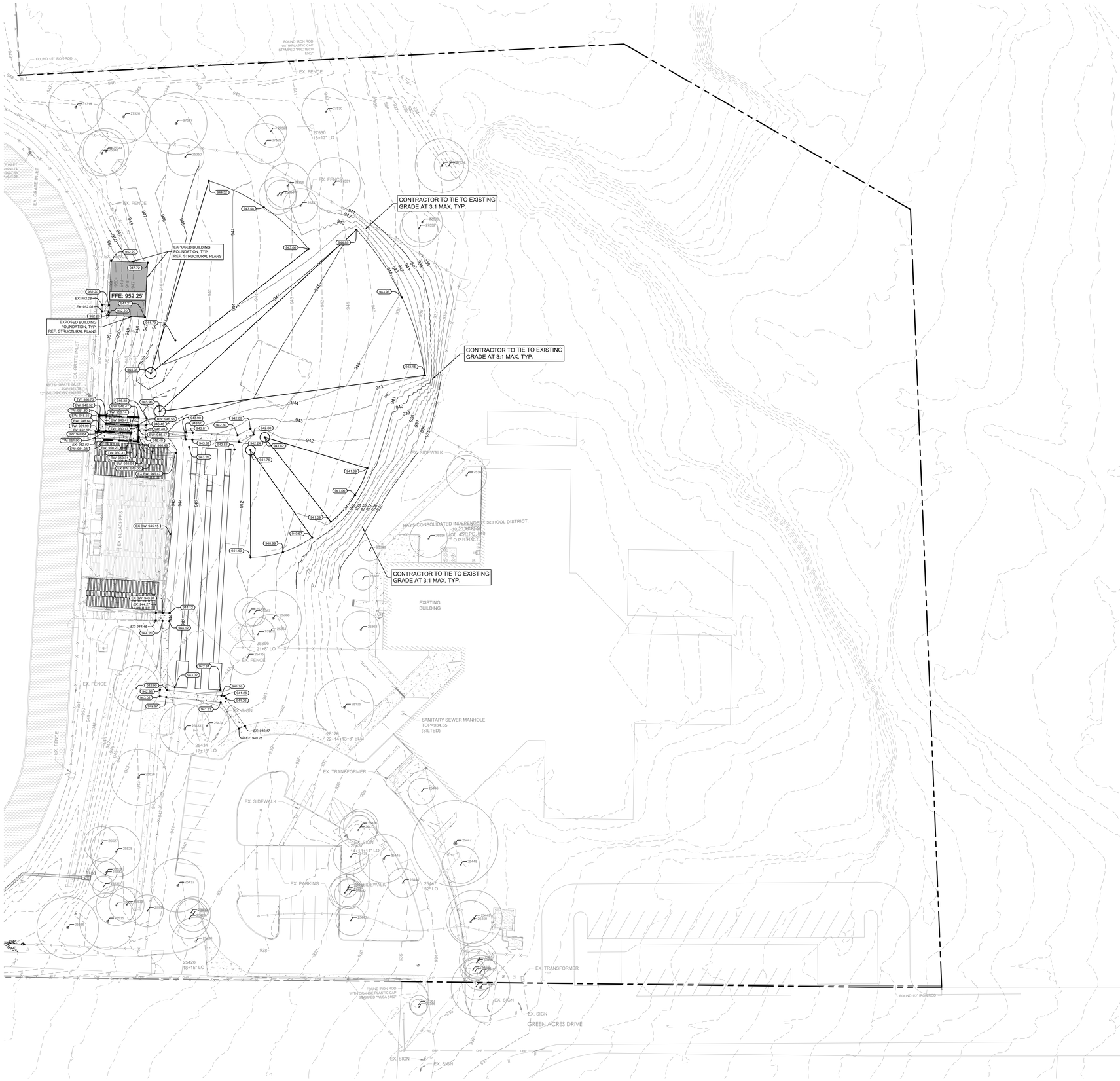
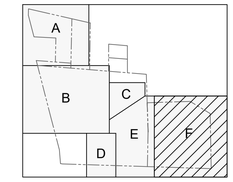


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

LEGEND

PROPERTY LINE	
FFE: XXX.X	PROPOSED FINISHED FLOOR ELEVATION
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EX TC 781.81 EX TP 781.31	EXISTING TOP OF PAVEMENT/CURB ELEVATION
781.31	PROPOSED TOP OF PAVEMENT ELEVATION
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KIMLEY-HORN AND ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

GRADING PLAN - AREA F

SHEET NO.
C4.05

Plotted By: Randall, Zach Date: February 03, 2026 06:15:20pm File Path: K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plansheets\C-Grading Plan.dwg
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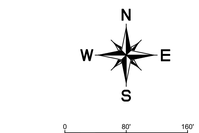
Plotted By:Bondsti, Zach Date:February 03, 2026 06:15:35pm File Path:K:\Aus_civil\069733904 – wimberley isd – danforth jhs\Civil\plotsheets\C-Ex Drainage Area Map.dwg

EXISTING CONDITIONS



LEGEND

- X-1 / 9.9 ac — AREA DESIGNATOR / AREA IN ACRES
- PROPERTY LINE
- EXISTING STORM DRAIN LINE
- EXISTING DRAINAGE DIVIDE
- EXISTING FLOW DIRECTION
- EXISTING CONTOUR
- A — POINT OF ANALYSIS
- TIME OF CONCENTRATION FLOW

NOTE:

1. NOAA ATLAS 14 DATA WAS USED TO CALCULATE THE EXISTING RAINFALL RUNOFF.

Danforth JHS

Existing Drainage Calculations - SCS Method

DRAINAGE AREA	AREA	AREA	IMPERVIOUS COVER	IMPERVIOUS COVER	PERVIOUS CURVE NO.	WEIGHTED CURVE NO.	SHEET FLOW				SHALLOW CONCENTRATED FLOW								CHANNEL FLOW								TOTAL Tc** (min)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
							P-2yr 24hr 4.13 IN				Grass Surface				Paved Surface				Pipe Flow												
	(sf)	(Ac.)	(sf)	%	Cn*	Cn*	N	L (ft)	S (ft/ft)	Tt(min)	L (ft)	V (fps)	S (ft/ft)	Tt(min)	L	V (fps)	S	Tt(min)	L (ft)	V (fps)	a ($ft^{\wedge}2$)	Pw (ft)	r	n	S (ft/ft)	Tt(min)					
EX DA-1	257,170	5.90	44,457	17.29%	80.00	83.11	0.15	50	0.024	**4.63**	733	2.5	0.024	**4.92**	112.87	2.49	0.015	**0.76**	-	-	-	-	-	-	-	**0.00**	**10.30**	19.42	37.97	53.43	81.98
EX DA-2	5,924	0.14	5,924	100.00%	80.00	98.00	0.15	57	0.014	**6.34**	-	-	-	**0.00**	-	-	-	**0.00**	441	2.6	0.2	1.6	0.13	0.013	0.009	**2.78**	**9.13**	0.68	1.12	1.48	2.15
EX DA-3	146,058	3.35	38,601	26.43%	80.00	84.76	0.15	50	0.029	**4.28**	515	2.7	0.029	**3.13**	-	-	-	**0.00**	-	-	0.2	1.6	0.13	0.013	-	**0.00**	**7.41**	13.38	25.60	35.52	53.79
EX DA-4	110,895	2.55	74,640	67.31%	80.00	92.12	0.15	52.5	0.071	**3.10**	-	-	-	**0.00**	327	2.49	0.015	**2.19**	-	-	0.2	1.6	0.13	0.013	-	**0.00**	**6.00**	12.60	21.82	29.24	42.94
EX DA-5	423,331	9.72	184,533	43.59%	80.00	87.85	0.15	50	0.027	**4.39**	29	4.9	0.091	**0.10**	520	3.34	0.027	**2.59**	223.11	2.5	0.2	1.6	0.13	0.013	0.008	**1.47**	**8.56**	40.69	74.79	102.28	152.90
EX DA-6	138,109	3.17	108,434	78.51%	80.00	94.13	0.15	100	0.013	**10.25**	145	2.5	0.025	**0.95**	587	3.14	0.024	**3.11**	116	2.9	0.2	1.6	0.13	0.013	0.010	**0.67**	**14.98**	12.36	21.09	28.12	41.14
EX DA-7	145,927	3.35	28,617	19.61%	80.00	83.53	0.15	50	0.038	**3.84**	522	3.1	0.038	**2.77**	-	-	-	**0.00**	-	-	0.2	1.6	0.13	0.013	-	**0.00**	**6.61**	13.10	25.43	35.47	53.98
EX DA-8	333,669	7.66	198,709	59.55%	80.00	90.72	0.15	97.5	0.204	**3.34**	106	2.6	0.025	**0.68**	201	3.44	0.029	**0.98**	627	3.2	0.2	1.6	0.13	0.013	0.012	**3.27**	**8.27**	34.93	61.78	83.36	123.17
OFF 1	6,890	0.16	6,775	98.33%	80.00	97.70	0.15	56	0.042	**4.02**	-	-	-	**0.00**	-	-	-	**0.00**	180	4.6	0.2	1.6	0.13	0.013	0.026	**0.65**	**6.00**	0.85	1.41	1.86	2.70
OFF 2	202,797	4.66	45,436	22.40%	80.00	84.03	0.15	50	0.055	**3.31**	923	3.8	0.055	**4.06**	144	4.77	0.055	**0.50**	-	-	0.2	1.6	0.13	-	-	**0.00**	**7.87**	17.89	34.66	48.32	73.49

* The Curve Number (Cn) has been determined from Table 2-2a of Technical Release 55. The cover type, hydrologic condition, and soil group determined for the impervious areas are considered fully paved, and Type D soil group with a Cn of 98.
The cover type, hydrologic condition, and soil group determined for the pervious areas are considered equivalent to open space in good hydrologic condition, and Type D soil group with a Cn of 80.
** The minimum Tc is 6 minutes per the TR-55.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

EXISTING DRAINAGE AREA MAP

SHEET NO.
C5.00

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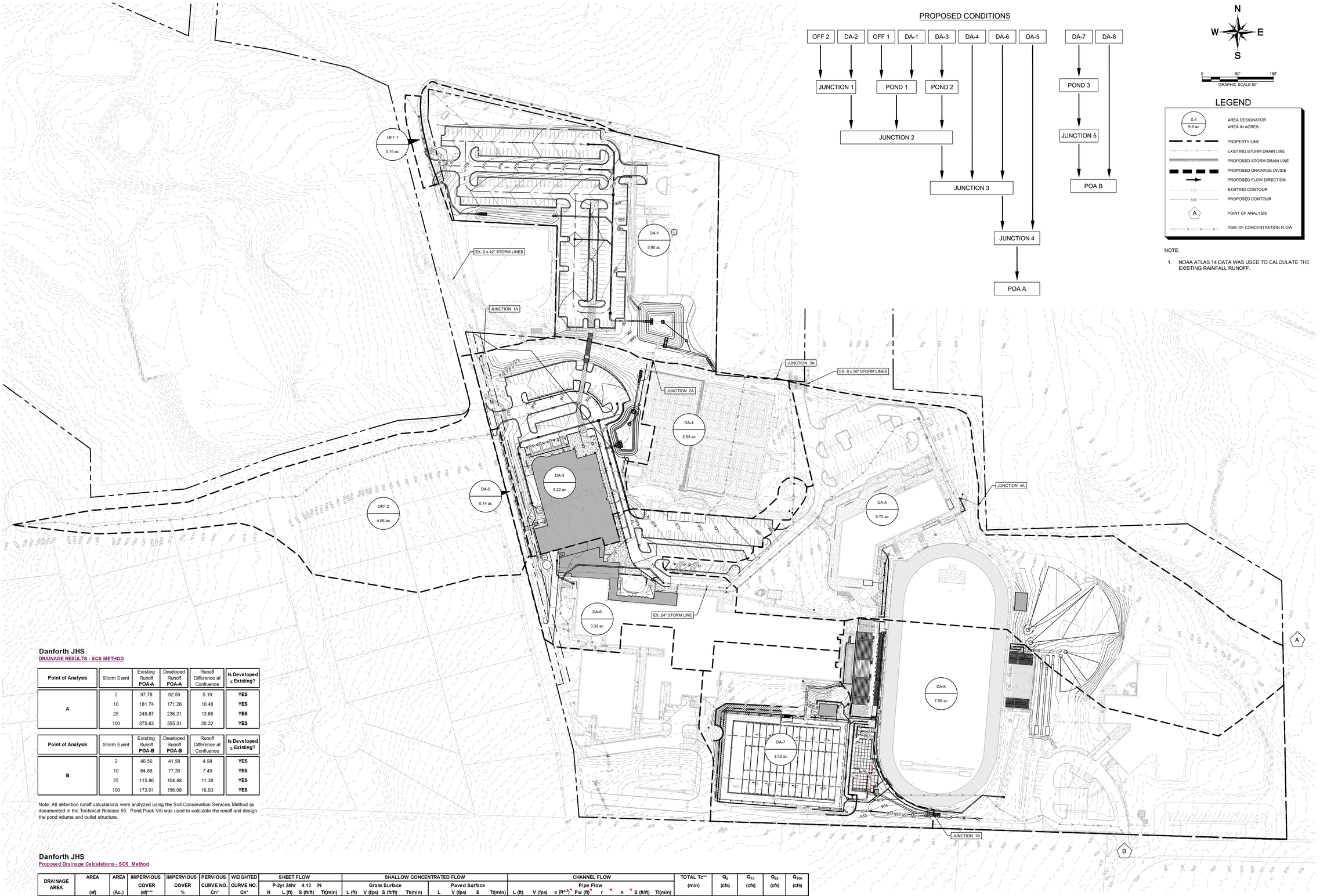

PROPOSED CONDITIONS

LEGEND

NOTE:

1. NOAA ATLAS 14 DATA WAS USED TO CALCULATE THE EXISTING RAINFALL RUNOFF.

Danforth JHS

DRAINAGE RESULTS - SCS METHOD

Point of Analysis	Storm Event	Existing Runoff **POA-A**	Developed Runoff **POA-A**	Runoff Difference at Confluence	Is Developed ≤ Existing?
A	2	97.78	92.59	5.19	YES
	10	181.74	171.26	10.48	YES
	25	249.87	236.21	13.66	YES
	100	375.63	355.31	20.32	YES

Point of Analysis	Storm Event	Existing Runoff **POA-B**	Developed Runoff **POA-B**	Runoff Difference at Confluence	Is Developed ≤ Existing?
B	2	46.56	41.58	4.98	YES
	10	84.88	77.39	7.49	YES
	25	115.86	104.48	11.38	YES
	100	173.01	156.08	16.93	YES

Note: All detention runoff calculations were analyzed using the Soil Conservation Services Method as documented in the Technical Release 55. Pond Pack V8i was used to calculate the runoff and design the pond volume and outlet structure.

Danforth JHS

Proposed Drainage Calculations - SCS Method

DRAINAGE AREA	AREA (sf)	AREA (Ac.)	IMPERVIOUS COVER (sf)***	IMPERVIOUS COVER %	PERVIOUS CURVE NO. Cn*	WEIGHTED CURVE NO. Cn*	SHEET FLOW P-2yr 24hr 4.13 IN N	L (ft)	S (ft/ft)	Tt(min)	SHALLOW CONCENTRATED FLOW Grass Surface L (ft)	V (fps)	S (ft/ft)	Tt(min)	Paved Surface L	V (fps)	S	Tt(min)	CHANNEL FLOW L (ft)	V (fps)	a (ft²·⁵)	Pipe Flow Pw (ft)	r	n	S (ft/ft)	Tt(min)	TOTAL Tc** (min)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
DA-1	257,170	5.90	141,300	54.94%	80.00	89.89	0.15	50	0.028	**4.36**	61	2.7	0.028	**0.38**	383.15	2.49	0.015	**2.56**	427	2.7	0.2	1.6	0.13	0.01	0.005	**2.67**	**9.97**	24.28	43.57	59.09	87.69
DA-2	5,924	0.14	5,924	100.00%	80.00	98.00	0.15	57	0.014	**6.34**	-	-	-	**0.00**	-	-	-	**0.00**	441	2.6	0.2	1.6	0.13	0.013	0.009	**2.78**	**9.13**	0.68	1.12	1.48	2.15
DA-3	140,307	3.22	83,412	59.45%	80.00	90.70	0.15	50	0.020	**4.95**	25	2.3	0.020	**0.18**	-	-	-	**0.00**	463	2.0	0.2	1.6	0.13	0.013	0.005	**3.81**	**8.94**	14.29	25.32	34.19	50.54
DA-4	110,059	2.53	74,640	67.82%	80.00	92.21	0.15	52.5	0.071	**3.10**	-	-	-	**0.00**	327.42	2.49	0.015	**2.19**	-	-	-	-	-	-	-	**0.00**	**6.00**	12.53	21.68	29.03	42.63
DA-5	423,437	9.72	184,229	43.51%	80.00	87.83	0.15	50	0.027	**4.39**	29	4.9	0.091	**0.10**	520	3.34	0.027	**2.59**	223.11	2.5	0.2	1.6	0.13	0.013	0.008	**1.47**	**8.56**	40.67	74.79	102.29	152.92
DA-6	144,406	3.32	113,590	78.66%	80.00	94.16	0.15	50	0.020	**4.95**	145	2.6	0.025	**0.95**	-	-	-	**0.00**	975	2.7	0.2	1.6	0.13	0.01	0.005	**6.01**	**11.91**	14.24	24.21	32.25	47.15
DA-7	145,927	3.35	92,836	63.62%	80.00	91.45	0.15	68	0.038	**4.90**	-	-	-	**0.00**	-	-	-	**0.00**	425.25	2.7	0.2	1.6	0.13	0.01	0.005	**2.62**	**7.52**	16.08	28.14	37.83	55.73
DA-8	330,750	7.59	201,877	61.04%	80.00	90.99	0.15	97.5	0.204	**3.34**	106	2.6	0.025	**0.68**	201	3.44	0.029	**0.98**	627	3.2	0.2	1.6	0.13	0.013	0.012	**3.27**	**8.27**	34.85	61.44	82.81	122.23
OFF 1	6,890	0.16	6,775	98.33%	80.00	97.70	0.15	56	0.042	**4.02**	-	-	-	**0.00**	-	-	-	**0.00**	180	4.6	0.2	1.6	0.13	0.013	0.026	**0.65**	**6.00**	0.85	1.41	1.86	2.70
OFF 2	202,797	4.66	45,436	22.40%	80.00	84.03	0.15	50	0.055	**3.31**	923	3.8	0.055	**4.06**	144	4.77	0.055	**0.50**	-	-	0.2	1.6	0.13	-	-	**0.00**	**7.87**	17.89	34.66	48.32	73.49

* The Curve Number (Cn) has been determined from Table 2-2a of Technical Release 55. The cover type, hydrologic condition, and soil group determined for the impervious areas are considered fully paved, and Type D soil group with a Cn of 98.
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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

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Project No. 2525.01
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PROPOSED
DRAINAGE AREA MAP

SHEET NO.
C5.01

Plotted By: Randall Zech Date: February 03, 2026 08:15:56am File Path: K:\aus_civil\068733904 – wimberley isd – danforth jhs\Civil\plansheets\C–Prop Drainage Area Map.dwg
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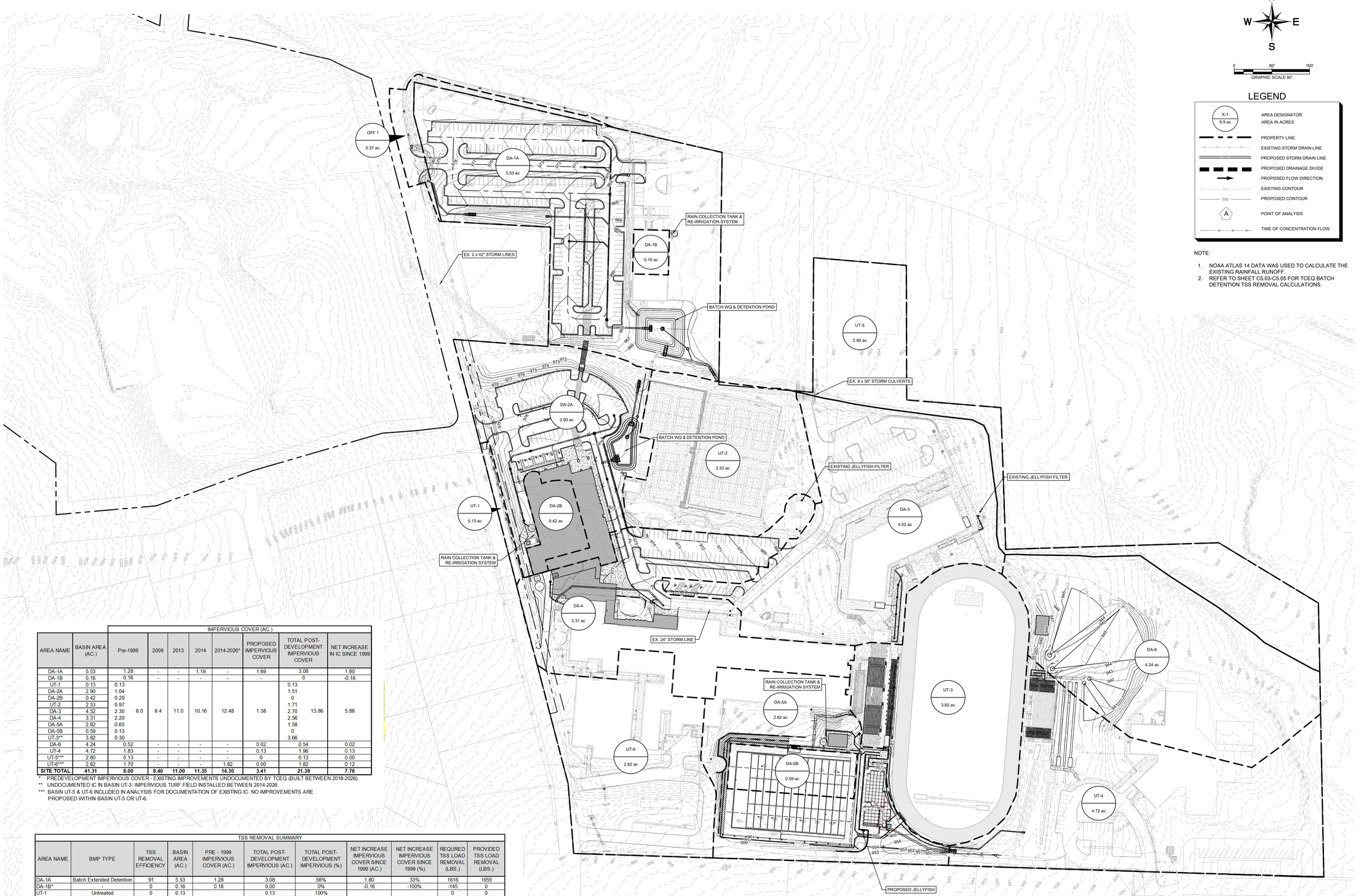

		IMPERVIOUS COVER (AC.)							
AREA NAME	BASIN AREA (AC.)	Pre-1999	2009	2013	2014	2014-2026*	PROPOSED IMPERVIOUS COVER	TOTAL POST-DEVELOPMENT IMPERVIOUS COVER	NET INCREASE IN IC SINCE 1999
DA-1A	5.53	1.28	-	-	1.19	-	1.89	3.08	1.80
DA-1B	0.16	0.16	-	-	-	-	-	0	-0.16
UT-1	0.13	0.13						0.13	
DA-2A	2.90	1.04						1.51	
DA-2B	0.42	0.29						0	
UT-2	2.53	0.97						1.71	
DA-3	4.52	2.30	8.0	8.4	11.0	10.16	12.48	1.38	2.70 13.86	5.86
DA-4	3.31	2.20							2.56	
DA-5A	2.82	0.65							1.58	
DA-5B	0.59	0.13							0	
UT-3**	3.82	0.30							3.66	
DA-6	4.24	0.52	-	-	-	-	0.02	0.54	0.02
UT-4	4.72	1.83	-	-	-	-	0.13	1.96	0.13
UT-5***	2.80	0.13	-	-	-	-	0	0.13	0.00
UT-6***	2.82	1.70				1.82	0.00	1.82	0.12
SITE TOTAL	**41.31**	**0.00**	**8.40**	**11.00**	**11.35**	**14.30**	**3.41**	**21.39**	**7.76**

* PREDEVELOPMENT IMPERVIOUS COVER - EXISTING IMPROVEMENTS UNDOCUMENTED BY TCEQ (BUILT BETWEEN 2018-2026).
** UNDOCUMENTED IC IN BASIN UT-3: IMPERVIOUS TURF FIELD INSTALLED BETWEEN 2014-2026.
*** BASIN UT-5 & UT-6 INCLUDED IN ANALYSIS FOR DOCUMENTATION OF EXISTING IC. NO IMPROVEMENTS ARE PROPOSED WITHIN BASIN UT-5 OR UT-6.

TSS REMOVAL SUMMARY										
AREA NAME	BMP TYPE	TSS REMOVAL EFFICIENCY	BASIN AREA (AC.)	PRE - 1999 IMPERVIOUS COVER (AC.)	TOTAL POST-DEVELOPMENT IMPERVIOUS (AC.)	TOTAL POST-DEVELOPMENT IMPERVIOUS (%)	NET INCREASE IMPERVIOUS COVER SINCE 1999 (AC.)	NET INCREASE IMPERVIOUS COVER SINCE 1999 (%)	REQURED TSS LOAD REMOVAL (LBS.)	PROVIDED TSS LOAD REMOVAL (LBS.)
DA-1A	Batch Extended Detention	91	5.53	1.28	3.08	56%	1.80	33%	1616	1955
DA-1B*	-	0	0.16	0.16	0.00	0%	-0.16	-100%	-145	0
UT-1	Untreated	0	0.13		0.13	100%			0	0
DA-2A	Batch Extended Detention	91	2.90		1.51	52%			420	880
DA-2B*	-	0	0.42		0.00	0%			-260	0
UT-2	Untreated	0	2.53		1.71	68%			667	0
DA-3	EX Jellyfish	86	4.52	8.00	2.70	60%	5.86	28%	362	1495
DA-4	EX Jellyfish	86	3.31		2.56	77%			323	1072
DA-5A	Jellyfish	86	2.82		1.58	56%			743	1323
DA-5B*	-	0	0.59		0.00	0%			-117	0
UT-3	Untreated	0	3.82		3.66	96%			3018	0
DA-6**	Vegetated Filter Strips	85	4.24	0.52	0.54	13%	0.02	0%	16	550
UT-4	Untreated	0	4.72	1.83	1.96	42%	0.13	3%	115	0
UT-5	Untreated	0	2.80	0.13	0.13	5%	0.00	0%	0	0
UT-6	Untreated	0	2.82	1.70	1.82	65%	0.12	4%	105	0
TOTAL			**41.31**	**13.63**	**21.39**	**52%**	**7.76**	**19%**	**6862**	**7275**

* The captured impervious cover within basin DA-1B, DA-2B & DA-5B have been excluded from the total IC on site by means of rainwater harvesting tanks.
** No VFS shown in DA-6 due to the presence of natural vegitation meeting TCEQ requirements for TSS removal. Sheet flow leaving the impervious cover in DA-6 crosses more than 50 feet of natural vegetation sloped at less than 10%.

LEGEND

- X-1 / 9.9 ac — AREA DESIGNATOR / AREA IN ACRES
- PROPERTY LINE
- EXISTING STORM DRAIN LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED DRAINAGE DIVIDE
- PROPOSED FLOW DIRECTION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- A — POINT OF ANALYSIS
- TIME OF CONCENTRATION FLOW

NOTE:

1. NOAA ATLAS 14 DATA WAS USED TO CALCULATE THE EXISTING RAINFALL RUNOFF.
2. REFER TO SHEET C5.03-C5.05 FOR TCEQ BATCH DETENTION TSS REMOVAL CALCULATIONS.

BENCHMARKS

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Allison Kennaugh
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Revisions:

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Project No. 2525.01
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WATER QUALITY
DRAINAGE AREA MAP

SHEET NO.
C5.03

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Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = DA-1

Total drainage basin/outfall area =	5.53	acres
Predevelopment impervious area within drainage basin/outfall area =	1.28	acres
Post-development impervious area within drainage basin/outfall area =	3.08	acres
Post-development impervious fraction within drainage basin/outfall area =	0.56	
$L_{M\ THIS\ BASIN}$ =	1616	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Extended Detention
Removal efficiency = 91 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	5.53	acres
A_I =	3.08	acres
A_P =	2.45	acres
L_R =	3238	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 1955.0 lbs.

F = 0.60

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	0.58	inches
Post Development Runoff Coefficient =	0.39	
On-site Water Quality Volume =	4543	cubic feet

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

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	909	
Total Capture Volume (required water quality volume(s) x 1.20) =	5452	cubic feet

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = UT 1

Total drainage basin/outfall area =	0.13	acres
Predevelopment impervious area within drainage basin/outfall area =	0.13	acres
Post-development impervious area within drainage basin/outfall area =	0.13	acres
Post-development impervious fraction within drainage basin/outfall area =	1.00	
$L_{M\ THIS\ BASIN}$ =	0	lbs.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
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1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = DA-2A

Total drainage basin/outfall area =	2.90	acres
Predevelopment impervious area within drainage basin/outfall area =	1.04	acres
Post-development impervious area within drainage basin/outfall area =	1.51	acres
Post-development impervious fraction within drainage basin/outfall area =	0.52	
$L_{M\ THIS\ BASIN}$ =	420	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Extended Detention
Removal efficiency = 91 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	2.90	acres
A_I =	1.51	acres
A_P =	1.39	acres
L_R =	1589	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 880 lbs.

F = 0.55

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	0.49	inches
Post Development Runoff Coefficient =	0.37	
On-site Water Quality Volume =	1890	cubic feet

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

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	378	
Total Capture Volume (required water quality volume(s) x 1.20) =	2268	cubic feet

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

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = DA-2B

Total drainage basin/outfall area =	0.42	acres
Predevelopment impervious area within drainage basin/outfall area =	0.29	acres
Post-development impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious fraction within drainage basin/outfall area =	0.00	
$L_{M\ THIS\ BASIN}$ =	-260	lbs.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = UT 2

Total drainage basin/outfall area =	2.53	acres
Predevelopment impervious area within drainage basin/outfall area =	0.97	acres
Post-development impervious area within drainage basin/outfall area =	1.71	acres
Post-development impervious fraction within drainage basin/outfall area =	0.68	
$L_{M\ THIS\ BASIN}$ =	667	lbs.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = DA-5B

Total drainage basin/outfall area =	0.59	acres
Predevelopment impervious area within drainage basin/outfall area =	0.13	acres
Post-development impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious fraction within drainage basin/outfall area =	0.00	
$L_{M\ THIS\ BASIN}$ =	-117	lbs.

Plotted By: Randall, Zach Date: February 03, 2026 06:16:19pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jhs\Civil\plotsheets\C-WQ Drainage Area Map.dwg
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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY CALCULATIONS (SHEET 1 OF 2)

SHEET NO.
C5.04

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Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 2

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

Drainage Basin/Outfall Area No. = DA-3

Total drainage basin/outfall area =	4.52	acres
Predevelopment impervious area within drainage basin/outfall area =	2.30	acres
Post-development impervious area within drainage basin/outfall area =	2.70	acres
Post-development impervious fraction within drainage basin/outfall area =	0.60	
$L_{M\ THIS\ BASIN}$ * =	362	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Contech StormFilter
Removal efficiency = 83 percent

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

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

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

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	4.52	acres
A_I =	2.70	acres
A_P =	1.82	acres
L_R =	2589	lbs

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

Desired $L_{M\ THIS\ BASIN}$ * = 1495 lbs.

F = 0.58

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	0.54	inches
Post Development Runoff Coefficient =	0.42	
On-site Water Quality Volume =	3719	cubic feet

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

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	744	
Total Capture Volume (required water quality volume(s) x 1.20) =	4463	cubic feet

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

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 2

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

Drainage Basin/Outfall Area No. = DA-4

Total drainage basin/outfall area =	3.31	acres
Predevelopment impervious area within drainage basin/outfall area =	2.20	acres
Post-development impervious area within drainage basin/outfall area =	2.56	acres
Post-development impervious fraction within drainage basin/outfall area =	0.77	
$L_{M\ THIS\ BASIN}$ * =	323	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Retention / Irrigation
Removal efficiency = 100 percent

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

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

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

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	3.31	acres
A_I =	2.56	acres
A_P =	0.75	acres
L_R =	2936	lbs

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

Desired $L_{M\ THIS\ BASIN}$ * = 1072 lbs.

F = 0.37

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	0.25	inches
Post Development Runoff Coefficient =	0.59	
On-site Water Quality Volume =	1767	cubic feet

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

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	353	
Total Capture Volume (required water quality volume(s) x 1.20) =	2121	cubic feet

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

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = UT 3

Total drainage basin/outfall area =	3.82	acres
Predevelopment impervious area within drainage basin/outfall area =	0.30	acres
Post-development impervious area within drainage basin/outfall area =	3.66	acres
Post-development impervious fraction within drainage basin/outfall area =	0.96	
$L_{M\ THIS\ BASIN}$ * =	3018	lbs.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = UT 4

Total drainage basin/outfall area =	4.24	acres
Predevelopment impervious area within drainage basin/outfall area =	0.52	acres
Post-development impervious area within drainage basin/outfall area =	0.54	acres
Post-development impervious fraction within drainage basin/outfall area =	0.13	
$L_{M\ THIS\ BASIN}$ * =	16	lbs.

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: WISD Danforth JHS
Date Prepared: 11/10/2025

1. The Required Load Reduction for the total project:

Calculations from RG-348
Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	2.744	acres
Predevelopment impervious area within the limits of the plan * =	0.657	acres
Total post-development impervious area within the limits of the plan* =	1.485	acres
Total post-development impervious cover fraction * =	0.54	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	743	lbs.

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

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

Drainage Basin/Outfall Area No. = Jellyfish

Total drainage basin/outfall area =	2.744	acres
Predevelopment impervious area within drainage basin/outfall area =	0.657	acres
Post-development impervious area within drainage basin/outfall area =	1.485	acres
Post-development impervious fraction within drainage basin/outfall area =	0.54	
$L_{M\ THIS\ BASIN}$ =	743	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = JF abbreviation
Removal efficiency = 86 percent

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

RG-348 Page 3-33 Equation 3.7:
LR = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

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

A_C =	2.744	acres
A_I =	1.485	acres
A_P =	1.26	acres
L_R =	1477	lbs.

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

Desired $L_{M\ THIS\ BASIN}$ = 1353 lbs.

F = 0.90

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348
Pages Section 3.2.22

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres
Rainfall Intensity =	1.10	inches per hour
Effective Area =	1.37	acres
Cartridge Height =	24	inches
Peak Treatment Flow Required =	1.52	cubic feet per second

7. Jellyfish
Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size

Jellyfish Size for Flow-Based Configuration = JFPDo806-8-2
Jellyfish Treatment Flow Rate = 1.60 cfs

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = UT-5***

Total drainage basin/outfall area =	2.80	acres
Predevelopment impervious area within drainage basin/outfall area =	0.13	acres
Post-development impervious area within drainage basin/outfall area =	0.13	acres
Post-development impervious fraction within drainage basin/outfall area =	0.05	
$L_{M\ THIS\ BASIN}$ =	0	lbs.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
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Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:
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A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = DA-6

Total drainage basin/outfall area =	4.24	acres
Predevelopment impervious area within drainage basin/outfall area =	0.52	acres
Post-development impervious area within drainage basin/outfall area =	0.54	acres
Post-development impervious fraction within drainage basin/outfall area =	0.13	
$L_{M\ THIS\ BASIN}$ =	16	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent

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

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

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

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	4.24	acres
A_I =	0.54	acres
A_P =	3.70	acres
L_R =	562	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 550 lbs.

F = 0.95

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	2.60	inches
Post Development Runoff Coefficient =	0.15	
On-site Water Quality Volume =	5944	cubic feet

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

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	1189	
Total Capture Volume (required water quality volume(s) x 1.20) =	7133	cubic feet

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

16. Vegetated Filter Strips — Designed as Required in RG-348 — Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips.
The 80% removal is provided when the contributing drainage area does not exceed 72 feet (direction of flow) and
the sheet flow leaving the impervious cover is directed across 15 feet of engineered filter strips with maximum slope of 20% or
across 50 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20%.

If vegetative filter strips are proposed for an interim permanent BMP, they may be sized as described on Page 3-56 of RG-348.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Wimberley ISD Danforth Junior High School
Date Prepared: 1/19/2026

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P = Average annual precipitation, inches

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County =	Hays	
Total project area included in plan * =	41.31	acres
Predevelopment impervious area within the limits of the plan * =	13.63	acres
Total post-development impervious area within the limits of the plan* =	21.39	acres
Total post-development impervious cover fraction * =	0.52	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	6966	lbs.

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

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

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

Drainage Basin/Outfall Area No. = UT-6***

Total drainage basin/outfall area =	2.82	acres
Predevelopment impervious area within drainage basin/outfall area =	1.70	acres
Post-development impervious area within drainage basin/outfall area =	1.82	acres
Post-development impervious fraction within drainage basin/outfall area =	0.65	
$L_{M\ THIS\ BASIN}$ * =	105	lbs.

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CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY CALCULATIONS (SHEET 2 OF 2)

SHEET NO.
C5.05

Plotted By: Randall, Zach Date: February 03, 2026 06:16:24pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jhs\Civil\plansheets\C-WQ Drainage Area Map.dwg
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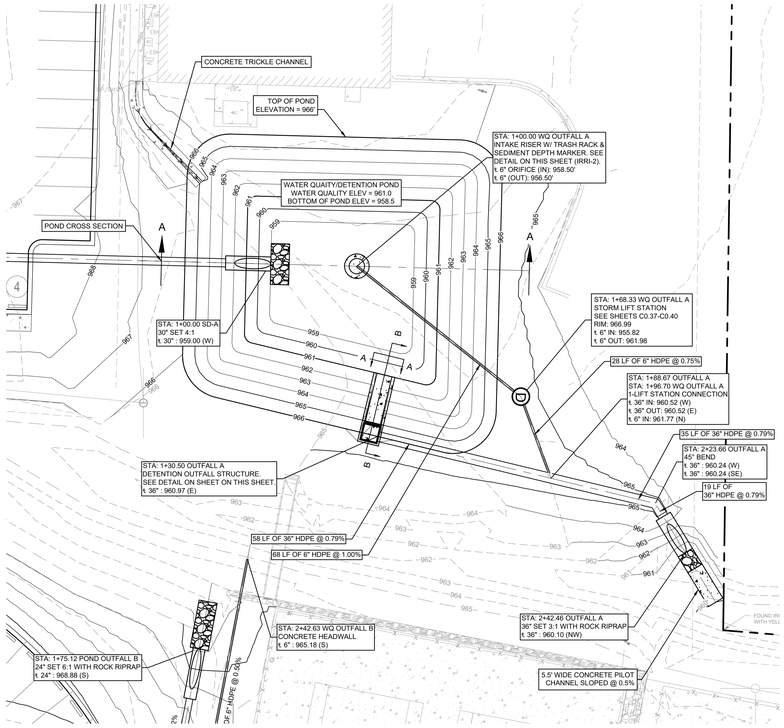
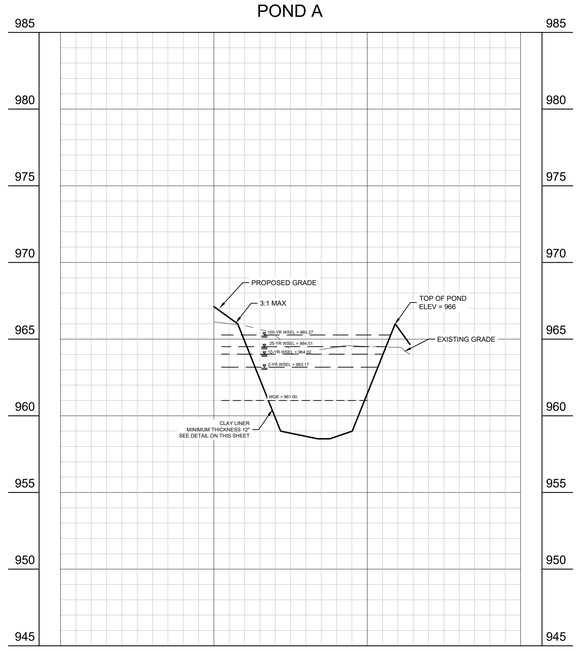
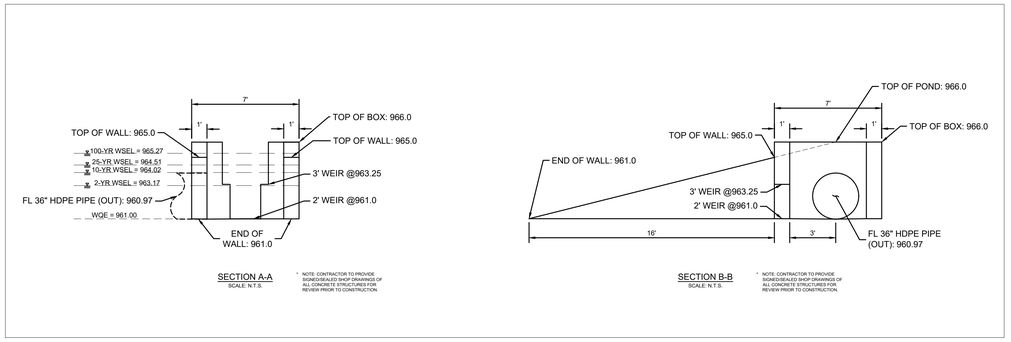


POND A

PROFILE SCALE
1" = 40' HORIZONTAL
1" = 4' VERTICAL





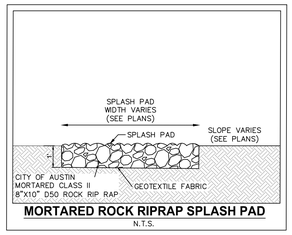
LEGEND

- PROPERTY LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED STORM SEWER HEADWALL
- PROPOSED FLOW DIRECTION
- 555 PROPOSED CONTOUR
- 555 EXISTING CONTOUR
- PROPOSED RIPRAP
- POND CROSS SECTION

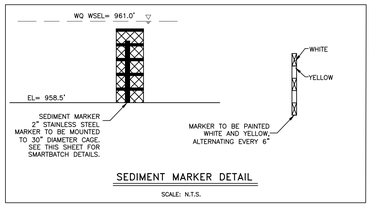
NOTES:

1. REFER TO POND DETAILS ON THIS SHEET.
2. REFER TO LANDSCAPE PLANS FOR POND PLANTING SCHEDULE.
3. POND OUTLET STRUCTURE TO BE FENCED OFF FROM PUBLIC ACCESS.
4. ALL RIP-RAP SHALL BE MORTARED.
5. REFER TO OUTLET STRUCTURE DETAILS ON THIS SHEET.
6. ALL POND BOTTOMS, SIDE SLOPES, AND EARTHEN EMBANKMENTS SHALL BE COMPACTED TO NINETY-FIVE (95) PERCENT MAXIMUM DENSITY, IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATIONS.

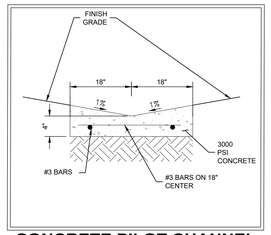
NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWING SHOWING ELEVATIONS OF ALL PROPOSED SMARTBATCH VALVE PIPING PRIOR TO FABRICATION.



MORTARED ROCK RIPRAP SPLASH PAD
N.T.S.

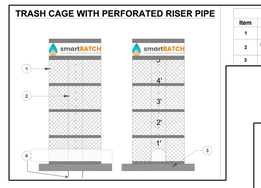


SEDIMENT MARKER DETAIL
SCALE: N.T.S.

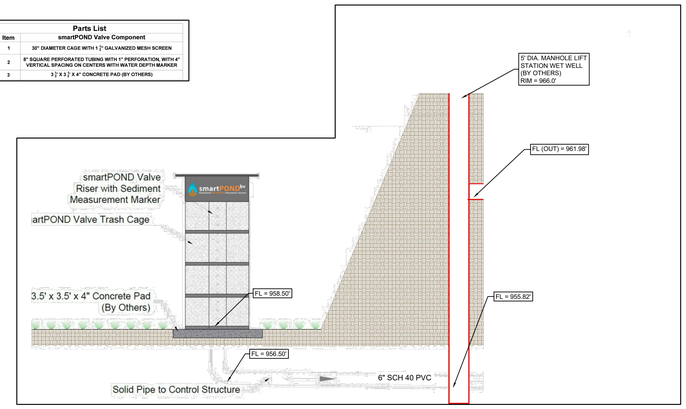


CONCRETE PILOT CHANNEL
N.T.S.

TRASH CAGE WITH PERFORATED RISER PIPE



Parts List smartPOND Valve Component	
Item	
1	30" DIAMETER CAGE WITH 1" GALVANIZED MESH SCREEN
2	8" SQUARE PERFORATED TUBING WITH 1" PERFORATION, WITH 4" VERTICAL SPACING ON CENTERS WITH WATER DEPTH MARKER
3	3 ∏ X 3 ∏ X 4" CONCRETE PAD (BY OTHERS)



N.T.S.

Pond A Analysis

DETENTION STAGE-STORAGE TABLE

Elevation (FT)	Area (SF)	Storage Volume (CF)	Cumulative Storage (CF)
961.00	0	0	0
962.00	4,390	2,195	2,195
963.00	5,529	4,959	7,154
964.00	6,764	6,147	13,301
965.00	8,099	7,432	20,732
966.00	9,535	8,817	29,549

WQ STAGE-STORAGE TABLE

Elevation (FT)	Area (SF)	Storage Volume (CF)	Cumulative Storage (CF)
958.50	0	0	0
959.00	1,763	441	441
960.00	2,509	2,136	2,577
961.00	3,385	2,947	5,524

ROUTING TABLE

Scenario	Computed Peak Outflow (cfs)	Max Water Surface Elevation (ft)	Maximum Storage (cf)
2 YR	19.23	963.17	9,808
10 YR	37.71	964.02	15,131
25 YR	52.08	964.51	18,565
100 YR	78.90	965.27	24,610

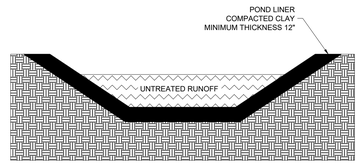
POND LINER STANDARD DETAIL - PER SECTION 3.4.2 RG-348

CLAY LINERS SHOULD MEET THE SPECIFICATIONS IN TABLE 3-6 AND HAVE A MINIMUM THICKNESS OF 12 INCHES.

Table 3-6 Clay Liner Specifications (COA, 2004)

Property	Test Method	Unit	Specification
Permeability	ASTM D-2434	cm/sec	1×10^{-6}
Plasticity Index of Clay	ASTM D-423 & D-424	%	Not less than 15
Liquid Limit of Clay	ASTM D-2216	%	Not less than 30
Clay Particles Passing	ASTM D-422	%	Not less than 30
Clay Compaction	ASTM D-2216	%	95% of Standard Proctor Density

TABLE 3-6 FROM SECTION 3.4.2 OF TCEQ'S RG-348



BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

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

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DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
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2/5/2026
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O'CONNELL ROBERTSON
TEXAS REGISTRATION NO. 926

Revisions:
NO. DESCRIPTION DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY & DETENTION POND A

SHEET NO.
C5.06

Plotted By:Randall Zoch Date:February 03, 2026 06:16:50pm File Path:K:\Aus_civil\068733904 — wimberley isd — danforth jhs\Civil\plansheets\C-Pond Plan.dwg
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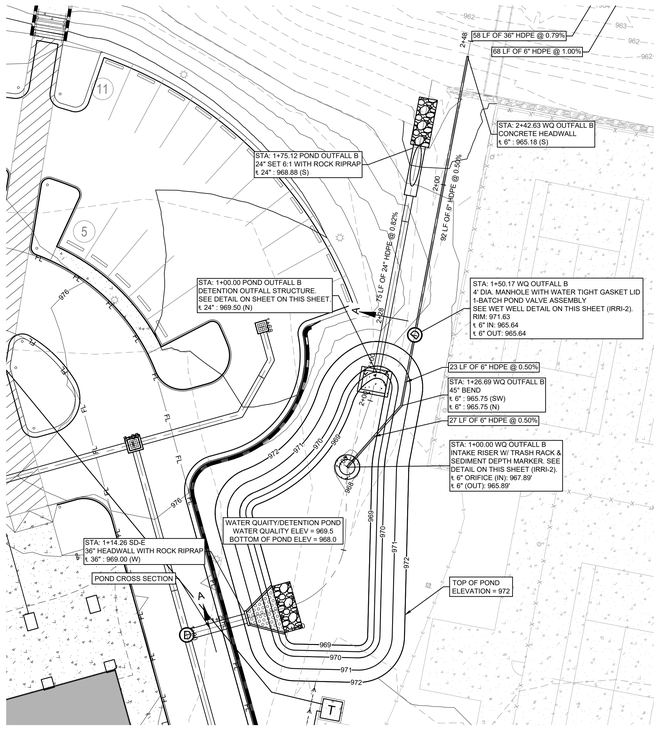
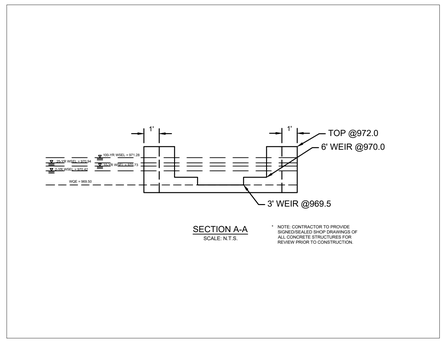




Pond B Analysis

DETENTION STAGE STORAGE TABLE

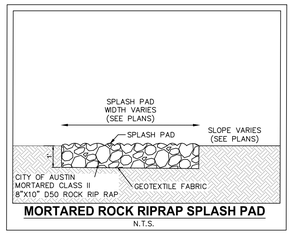
Elevation (FT)	Area (SF)	Storage Volume (CF)	Cumulative Storage (CF)
969.50	0	0	0
970.00	3,083	771	771
971.00	4,113	3,598	4,369
972.00	5,244	4,679	9,047

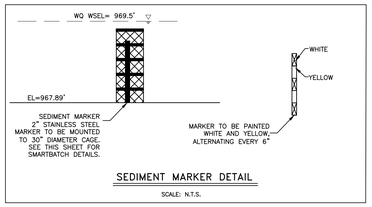
ROUTING TABLE

Scenario	Computed Peak Outflow (cfs)	Max Water Surface Elevation (ft)	Maximum Storage (cf)
2 YR	13.32	970.42	2,787
10 YR	24.01	970.73	3,919
25 YR	32.39	970.94	4,778
100 YR	47.97	971.28	6,200

WQ STAGE STORAGE TABLE

Elevation (FT)	Area (SF)	Storage Volume (CF)	Cumulative Storage (CF)
968.00	0	0	0
969.00	2,153	1,077	1,077
969.50	2,606	1,190	2,266





LEGEND

- PROPERTY LINE
- PROPOSED STORM SEWER LINE
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED STORM SEWER HEADWALL
- PROPOSED FLOW DIRECTION
- 555 PROPOSED CONTOUR
- 555 EXISTING CONTOUR
- PROPOSED RIPRAP
- POND CROSS SECTION

NOTES:

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NOTE:
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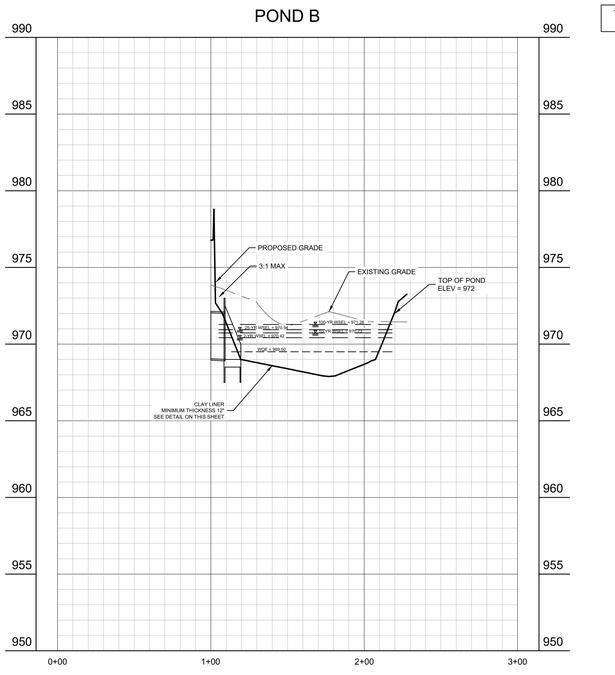
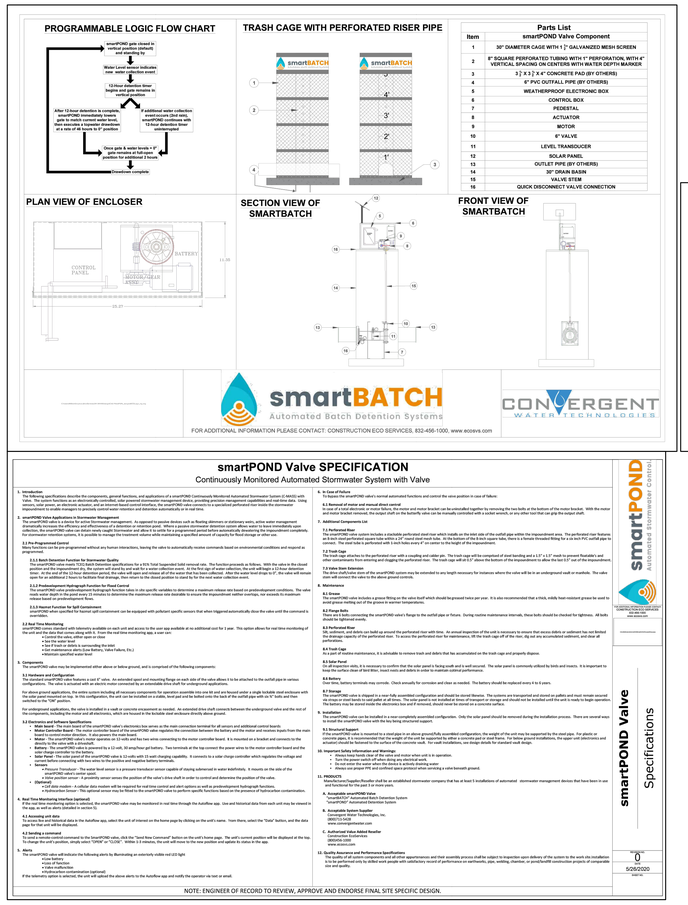
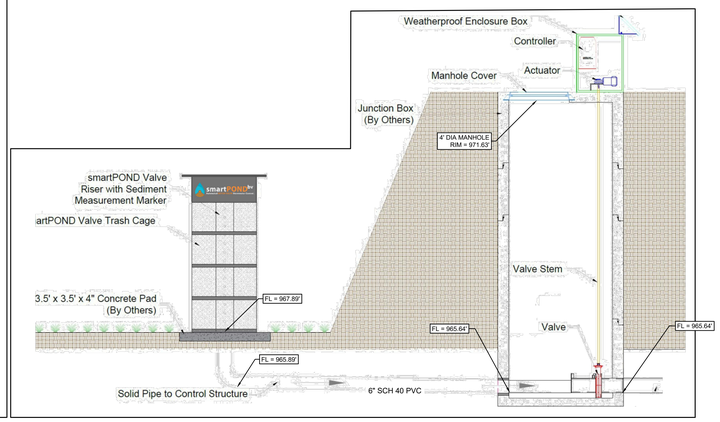






N.T.S.

smartPOND Valve SPECIFICATION

Continuously Monitored Automated Stormwater System with Valve

smartPOND Automated Stormwater Control

smartPOND Valve Specifications

Revision 0 5/26/2020

NOTE: ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

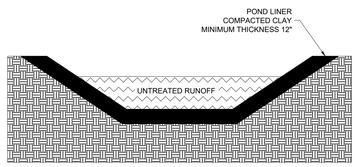
POND LINER STANDARD DETAIL - PER SECTION 3.4.2 RG-348

CLAY LINERS SHOULD MEET THE SPECIFICATIONS IN TABLE 3-6 AND HAVE A MINIMUM THICKNESS OF 12 INCHES.

Table 3-6 Clay Liner Specifications (COA, 2004)

Property	Test Method	Unit	Specification
Permeability	ASTM D-2434	cm/sec	1×10^{-6}
Plasticity Index of Clay	ASTM D-423 & D-424	%	Not less than 15
Liquid Limit of Clay	ASTM D-2216	%	Not less than 30
Clay Particles Passing	ASTM D-422	%	Not less than 30
Clay Compaction	ASTM D-2216	%	95% of Standard Proctor Density

TABLE 3-6 FROM SECTION 3.4.2 OF TCEQ'S RG-348



BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS

200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

ALLISON KENNAUGH
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
114,556
LICENSE
2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:
NO. DESCRIPTION DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY & DETENTION POND B

SHEET NO.
C5.07

PUMP STATION GENERAL NOTES

1. CONFIGURATIONS AND DIMENSIONS SHOWN ARE BASED ON THE EQUIPMENT SPECIFIED. THE CONTRACTOR SHALL VERIFY THE LAYOUT AND ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL PENETRATIONS SHALL BE SEALED WATER AND GAS TIGHT PER APPROVED METHODS.
3. ALL EXPOSED METAL WITHIN THE WET WELL SHALL BE GRADE 316 STAINLESS STEEL.
4. CONTRACTOR SHALL FOLLOW THE INSTALLATION INSTRUCTIONS PROVIDED BY THE SUPPLIER/MANUFACTURER.
5. UPON RECEIPT OF THE LIFT STATION SHIPMENT, INSPECT THE ENTIRE SHIPMENT FOR DAMAGE BEFORE THE LIFT STATION IS TAKEN OFF THE TRUCK. IF THERE IS DAMAGE, NOTE AS SPECIFICALLY AS POSSIBLE INCLUDING CLEAR PHOTOS OF DAMAGE ON THE BILL OF LADING AS TO ANY DAMAGE, THEN OFFLOAD. CONTACT THE SHIPPER AT ONCE AND HAVE THE BILL OF LADING WITH YOU.
6. PROPOSED CHECK VALVE, COUPLING, PLUG VALVE AND AIR RELEASE VALVES (BALL VALVES MAY BE USED DEPENDING ON TYPE OF PROPOSED PUMPS).
7. PROPOSED PUMPS TO BE SELECTED BASED ON APPLICATION, FLOW, AND HEAD CONDITIONS OF FORCE MAIN.
8. CONCRETE SHALL BE 1500 PSI COVERING THE ANTI-FLOATATION RING AS SHOWN.
9. ALUMINUM ACCESS COVERS MAY BE BOLTED DIRECTLY TO THE 3-INCH WIDE FLANGE AT THE TOP OF THE FIBERGLASS BASIN. HATCHES TO BE SIZED BASED ON PUMPS SELECTED.
10. SELECT BACKFILL MATERIAL FREE OF VOIDS, SHARP OBJECTS, OR OTHER DEBRIS.

SHOP DRAWINGS AND CONSTRUCTION SUBMITTAL NOTES

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR LIFT STATION EQUIPMENT, PIPING AND APPURTENANCES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER FOR REVIEW PRIOR TO INSTALLATION, ALLOWING SUFFICIENT TIME FOR THE OWNER'S REVIEW AND RESPONSE.
2. CONTRACTOR SHALL SUBMIT DIMENSIONAL LAYOUT DRAWINGS AND PRODUCT DATA, CERTIFIED CORRECT FOR CONSTRUCTION, FOR REVIEW BY THE OWNER.
3. THE CONTRACTOR WILL MAKE SPECIFIC MENTION OF THOSE ITEMS THAT VARY FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS IN THE LETTER OF TRANSMITTAL.
4. THE CONTRACTOR WILL ASSIGN A SEQUENTIAL NUMBER TO EACH SUBMITTAL (1, 2, 3, ETC.). RE-SUBMITTALS WILL BE IDENTIFIED WITH THEIR ORIGINAL NUMBER FOLLOWED BY A SEQUENTIAL LETTER (A, B, C, ETC.). FOR EXAMPLE, SUBMITTAL 12-C IS THE THIRD RE-SUBMITTAL OF THE OF THE TWELFTH ITEM FOR THE PROJECT.
5. THE CONTRACTOR WILL NOT DELIVER TO THE SITE, STORE, OR INCORPORATE INTO THE WORK, ANY MATERIALS OR EQUIPMENT FOR WHICH APPROVED SUBMITTALS HAVE NOT BEEN OBTAINED.
6. OWNER'S REVIEW, APPROVAL, OR OTHER APPROPRIATE ACTION REGARDING CONTRACTOR'S SUBMISSIONS WILL BE ONLY TO CHECK CONFORMITY WITH THE DESIGN CONCEPT OF THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS AND SHALL NOT EXTEND TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION (EXCEPT WHERE A SPECIFIC MEANS, METHOD, TECHNIQUE, SEQUENCE OR PROCEDURE OF CONSTRUCTION IS INDICATED IN OR REQUIRED BY THE CONTRACT DOCUMENTS) OR TO SAFETY PRECAUTIONS OR PROGRAMS INCIDENT THERETO. THE REVIEW AND APPROVAL OF A SEPARATE COMPONENT ITEM WILL NOT INDICATE APPROVAL OF THE ASSEMBLY INTO WHICH THE ITEM IS FUNCTIONALLY INTEGRATED. CONTRACTOR SHALL MAKE CORRECTIONS REQUIRED BY OWNER, AND SHALL RETURN THE REQUIRED NUMBER OF CORRECTED COPIES OF SHOP DRAWINGS TO THE OWNER. CONTRACTOR MAY BE REQUIRED TO RESUBMIT AS REQUIRED REVISED SHOP DRAWINGS OR SAMPLES FOR FURTHER REVIEW.

PUMP AND MOTOR NOTES

1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, ELECTRICAL EQUIPMENT AND INCIDENTALS REQUIRED TO PROVIDE A PACKAGE LIFT STATION AS PROVIDED BY **PUMP SOLUTIONS, INC. (JACOB GILLETTE, 512-846-2600)** IN ACCORDANCE WITH TCEQ, INCLUDING (2) SUBMERSIBLE SEWAGE PUMPS WITH BASE DISCHARGE ASSEMBLIES AS SPECIFIED HEREIN AND SHOWN ON THE PLANS. THE CONTRACTOR'S RESPONSIBILITIES ARE AS FOLLOWS: RECEIVING THE LIFT STATION AND OFF LOADING, EXCAVATION AND SETTING, ALL PLUMBING CONNECTIONS, ALL ELECTRICAL CONDUITS FROM THE WET WELL TO CONTROL PANEL, PROVIDE PROPER BACKFILL AND COMPACTION PROCEDURES. THE CONTRACTOR WILL BE REQUIRED TO LOWER THE PUMPS INTO PLACE AND CHECK FOR PROPER ROTATION. A STARTUP PROCEDURE FORM WILL BE PROVIDED AND IT MUST BE FILLED OUT AND RETURNED TO THE LIFT STATION SUPPLIER PRIOR TO THE OWNER'S POSSESSION DATE.
2. THE PUMP SHALL HAVE A FLANGED DISCHARGE ADAPTABLE TO 2" VERTICAL DISCHARGE AND BE CAPABLE OF HANDLING STORM FLOWS AND ENABLING IT TO BE PUMPED OVER LONG DISTANCES OR HIGH VERTICAL LIFTS IN PIPELINES AS SMALL AS 2.00" IN DIAMETER.

THE CENTRIFUGAL PUMP SHALL BE EQUAL TO THE: BARNES SE1094L

3. MATERIALS:
   - 3.1. PUMP CASING: CAST IRON A 48 CLASS 30B OR HIGHER
   - 3.2. IMPELLER: CAST IRON A 48 CLASS 30 OR HIGHER
   - 3.3. SHAFT: 416 STAINLESS STEEL
   - 3.4. BEARING BRACKET: CAST IRON A 48 CLASS 30 OR HIGHER
   - 3.5. MOTOR CASING: CAST IRON A 48 CLASS 30 OR HIGHER
   - 3.6. HARDWARE: STAINLESS STEEL A 276 300 SERIES
   - 3.7. SHAFT PROTECTION SLEEVE: STAINLESS STEEL A 276 TYPE 420
   - 3.8. O-RINGS: NITRILE RUBBER (NBR)
4. MOTOR:
   - 4.1. RATED VOLTAGE: 208 V
   - 4.2. RATED FREQUENCY: 60 HZ
   - 4.3. SPEED: 1750 RPM
   - 4.4. INSULATION CLASS B OR BETTER
5. SHAFT SEAL:
   - 5.1. TYPE: SINGLE TYPE 21, CARBON/CERAMIC, DOUBLE TANDEM CARBON/CERAMIC
   - 5.2. ARRANGEMENT: TANDEM
   - 5.3. SEAL ON MEDIUM SIDE WITH ELASTOMER BELLOWS
   - 5.4. MECHANICAL SEAL PUMP SIDE: SILICON CARBIDE/ SILICON CARBIDE
   - 5.5. MECHANICAL SEAL BEARING SIDE: CARBON/ SILICON CARBIDE
6. PROTECTIONS:
   - 6.1. TEMPERATURE PROTECTION BY THERMAL SENSORS.
   - 6.2. MOTOR HOUSING MONITORING BY CONDUCTIVE MOISTURE SENSOR ELECTRODE WHICH WILL ACTIVATE AN ALARM IF LIQUID IS PRESENT.
7. CABLE:
   - 7.1. POWER CORD LENGTH: 50' MINIMUM
   - 7.2. CORD SHALL BE CAPABLE OF CONTINUED EXPOSURE TO THE PUMPED LIQUID.
   - 7.3. CSA CERTIFIED SUBMERSIBLE POWER CABLE 2000V AND SIZED FOR THE FULL LOAD AMP RATING OF THE PUMP IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, WHICHEVER IS GREATER.
8. IMPELLER
   - 8.1. 2 VANE, OPEN, WITH PUMP OUT VANES ON BACK SIDE. DYNAMICALLY BALANCED, ISO G6.3.
9. BEARINGS:
   - 9.1. TYPE: ANTIFRICTION
   - 9.2. PROVIDE UPPER AND LOWER BALL BEARINGS TO PROVIDE A MINIMUM B10 BEARING LIFE OF 100,000 HOURS AT ALL ANTICIPATED AXIAL AND RADIAL LOADS.

THE MOTOR HOUSING SHALL BE FINNED AND AIR-FILLED TO DISSIPATE HEAT AND ENABLE THE UNIT TO OPERATE UNSUBMERGED WITHOUT DAMAGE TO THE MOTOR. ALL EXTERNAL-MATING PARTS SHALL BE MACHINED AND SEALED WITH A BUNA-N SQUARE RING. ALL FASTENERS EXPOSED TO THE LIQUID SHALL BE 300 SERIES STAINLESS STEEL. THE MOTOR SHALL BE PROTECTED ON THE TOP SIDE WITH AN ATTACHED SEALED JUNCTION BOX CHAMBER WHICH IN THE EVENT OF CORD DAMAGE WILL PREVENT MOISTURE WICKING INTO THE MOTOR HOUSING. THE MOTOR SHALL BE PROTECTED ON THE LOWER SIDE WITH A TANDEM MECHANICAL SEAL ARRANGEMENT WITH EACH SEAL HAVING A SEPARATE SPRING ASSEMBLY THE UPPER AND LOWER BALL BEARINGS SHALL BE CAPABLE OF HANDLING ALL THRUST LOADS. THE PUMP HOUSING HAVING A SEPARATE SPRING ASSEMBLY. THE UPPER AND LOWER BALL BEARINGS SHALL BE CAPABLE OF HANDLING ALL THRUST LOADS. THE PUMP HOUSING SHALL BE OF THE CONCENTRIC DESIGN THEREBY EQUALIZING THE PRESSURE FORCES INSIDE THE HOUSING, WHICH WILL EXTEND THE SERVICE LIFE OF THE SEALS AND BEARINGS. THE TOP CAP SHALL HAVE CAST IN LIFTING LUGS.

10. COMPONENTS REQUIRED FOR THE REPAIR OF THE PUMP SHALL BE READILY AVAILABLE WITHIN 24 HOURS. COMPONENTS SUCH AS MECHANICAL SEALS AND BEARINGS SHALL NOT BE OF A PROPRIETARY DESIGN AND BE AVAILABLE FROM LOCAL INDUSTRIAL SUPPLY HOUSES. SPECIAL TOOLS SHALL NOT BE REQUIRED TO SERVICE THE PUMP. A NETWORK OF SERVICE STATIONS SHALL BE AVAILABLE NATIONWIDE IN THOSE CASES WHERE SERVICE REQUIREMENTS ARE BEYOND THE COPE OF IN-HOUSE SERVICE MECHANICS.
11. THE TWO YEAR PRO-RATED WARRANTY FOR PERMANENT WASTEWATER LIFT STATIONS SHALL BE IN WRITING IN A PUBLISHED SERVICE BULLETIN. LABOR CHARGES FROM AN AUTHORIZED SERVICE STATION FOR REPAIRS WILL BE INCLUDED IN THIS WARRANTY AGREEMENT DURING THE FIRST 12 MONTHS OF OPERATION.

FORCE MAIN NOTES

1. FORCE MAIN
   - 1.1. 2" HDPE FORCE MAIN IN ACCORDANCE WITH ASTM F2619 SHALL BE USED.
2. LIFT STATION PIPING
   - 2.1. LIFT STATION DISCHARGE PIPING SHALL BE 2" HDPE AND FITTINGS AND PIPE SHALL BE FLANGED.
     - 2.1.1. FITTINGS IN ACCORDANCE WITH AWWA C153 AND AWWA C110.
     - 2.1.2. FLANGES: AWWA/ANSI C115/A21.15, ASME B16.1, CLASS 125
     - 2.1.3. BOLTS AND NUTS SHALL BE 316 STAINLESS
   - 2.2. DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED WITH PROTECTO 401.
   - 2.3. PROVIDE POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH AWWA FOR BURIED DIP.

ELECTRICAL PROVISIONS

1. IT IS THE INTENTION THAT THIS SPECIFICATION SHALL COVER A COMPLETE ELECTRICAL PUMP CONTROL SYSTEM FOR A PACKAGE LIFT STATION HEREINAFTER DESCRIBED AND ALL NECESSARY APPURTENANCES WHICH MIGHT NORMALLY BE CONSIDERED A PART OF THE COMPLETE ELECTRICAL SYSTEM OF THIS INSTALLATION. ALL OF THE AUTOMATIC CONTROL EQUIPMENT IS TO BE SUPPLIED BY ONE MANUFACTURER. IT SHALL BE FACTORY ASSEMBLED, WIRED, TESTED AND COVERED BY COMPLETE ELECTRICAL DRAWINGS AND INSTRUCTIONS SUBMITTAL.
2. WIRING
   - 2.1. ALL WIRING SHALL BE MINIMUM 600 VOLT (UL) TYPE MTW OR AWM AND HAVE A CURRENT CARRYING CAPACITY OF NOT LESS THAN 125% OF THE FULL LOAD CURRENT.
   - 2.2. THE CONDUCTORS SHALL BE IN COMPLETE CONFORMITY WITH THE NATIONAL ELECTRIC CODE, STATE, LOCAL AND NEMA ELECTRICAL STANDARDS.
   - 2.3. TO ENSURE THE SAFETY OF ALL PERSONNEL WORKING WITH THIS EQUIPMENT, AS WELL AS PROVIDING A SIMPLE MEANS OF TRACING WIRES WHEN TROUBLESHOOTING, ALL WIRING SHALL BE COLOR CODED IN STRICT ACCORDANCE WITH THE WIRING DIAGRAMS FURNISHED BY THE EQUIPMENT SUPPLIER.
3. UL APPROVAL
   - 3.1. THE CONTROL PANEL SHALL BE CONSTRUCTED IN COMPLIANCE WITH UNDERWRITER'S LABORATORIES INDUSTRIAL CONTROL PANELS LISTING AND FOLLOW-UP SERVICE; UTILIZING UL LISTED AND RECOGNIZED COMPONENTS WHERE APPLICABLE. THE CONTROL PANEL SHALL BEAR THE UNDERWRITERS LABORATORIES 508/698A SERIALIZED LABEL RELATING TO HAZARDOUS LOCATIONS WITH INTRINSICALLY SAFE CIRCUIT EXTENSIONS AND BE SUITABLE FOR USE AS SERVICE EQUIPMENT.
4. ENCLOSURE
   - 4.1. THE DESCRIBED EQUIPMENT SHALL BE HOUSED IN A NEMA 4X STAINLESS STEEL ENCLOSURE ARRANGED FOR MOUNTING AS SHOWN ON THE DRAWINGS. THE ENCLOSURE SHALL BE CONSTRUCTED OF NOT LESS THAN 14 GAUGE #304 STAINLESS STEEL AND SHALL INCLUDE THE FOLLOWING:
     - 4.1.1. ALL SEAMS SHALL BE CONTINUOUSLY WELDED AND GROUND SMOOTH.
     - 4.1.2. DOOR AND BODY STIFFENERS SHALL BE PROVIDED FOR EXTRA RIGIDITY.
     - 4.1.3. CAPTIVATED DOOR SCREWS THREAD INTO SEALED WELLS.
     - 4.1.4. HEAVY GAUGE CONTINUOUS HINGE.
     - 4.1.5. REMOVABLE AND REVERSIBLE PRINT POCKET.
     - 4.1.6. OIL RESISTANT GASKET AND ADHESIVE
     - 4.1.7. COLLAR STUDS SHALL BE PROVIDED FOR MOUNTING PANEL.
     - 4.1.8. AIR CONDITIONER
   - 4.2. AN INTERNALLY MOUNTED HINGED PAINTED STEEL INNER PANEL SHALL BE PROVIDED SO THAT ALL THE COMPONENTS NORMALLY ACTUATED BY OPERATING PERSONNEL ARE ACCESSIBLE WITHOUT OPENING THE DEAD FRONT AND YET ARE NOT EXPOSED TO THE ELEMENTS OR TO UNAUTHORIZED PERSONNEL.
   - 4.3. ALL FIELD INSTALLED CONDUITS, FITTINGS OR CONNECTIONS SHALL ENTER THE ENCLOSURE THROUGH THE BOTTOM ONLY FOR ANY OUTDOOR ENCLOSURE.
   - 4.4. ALL MAJOR COMPONENTS AND SUB-ASSEMBLIES SHALL BE IDENTIFIED AS TO FUNCTION WITH LAMINATED, ENGRAVED BAKELITE NAMEPLATES OR SIMILAR APPROVED MEANS.
5. POWER SUPPLY AND METERING
   - 5.1. THE INCOMING SERVICE SHALL BE 208 VOLTS, 3 PHASE, 3 WIRE, 60 CYCLE. ALL METERING SHALL BE DONE AHEAD OF THE MAIN DISCONNECT AND CONTROL PANEL. THE CONTRACTOR IN ACCORDANCE WITH LOCAL POWER COMPANY REQUIREMENTS SHALL INSTALL THE METER.
   - 5.2. THE CONTROL SHALL OPERATE 1 HP MOTOR(S) ON A PUMP DOWN MODE, AND INCLUDE ITEMS AS SPECIFIED HEREINAFTER.
6. LIGHTNING ARRESTOR
   - 6.1. A LIGHTNING ARRESTOR SHALL BE SUPPLIED IN THE CONTROL PANEL AND CONNECTED TO EACH LINE OF THE INCOMING SIDE OF THE MAIN POWER INPUT TERMINALS. THE ARRESTOR SHALL PROTECT THE CONTROL AGAINST DAMAGE DUE TO LIGHTNING STRIKES ON THE INCOMING POWER LINE.
7. VOLTAGE MONITOR
   - 7.1. A SOLID STATE, OVER AND UNDER VOLTAGE RELEASE RELAY SHALL BE PROVIDED TO ENSURE ADDITIONAL RUNNING PROTECTION FOR THE PUMP MOTOR(S). THE RELAY SHALL BE COMPLETE WITH AN LED TO INDICATE PROPER VOLTAGE SEQUENCE, ALL PHASES IN OPERATION AND VOLTAGE WITHIN LIMITS. THE RELAY SHALL ALSO INCLUDE AN ADJUSTABLE VOLTAGE MONITOR, BE UL AND CSA CERTIFIED AND BE COMPLETE WITH AUTOMATIC RESET FAILURE.
8. PUMP CIRCUIT BREAKER
   - 8.1. A THERMAL MAGNETIC CIRCUIT BREAKER SHALL BE SUPPLIED AS BRANCH CIRCUIT PROTECTION FOR EACH PUMP MOTOR. THE CIRCUIT BREAKERS MUST HAVE A MINIMUM AMPERE INTERRUPTING CAPACITY OF (10,000-240 VOLT) SYMMETRICAL RMS AMPS. THE CIRCUIT BREAKER SHALL BE OPERABLE THROUGH THE OPERATOR'S DOOR OF THE ENCLOSURE.
   - 8.2. THE CIRCUIT BREAKER SHALL BE PROPERLY SIZED TO PROTECT THE CONTROL CIRCUIT CONDUCTORS. MOTOR STARTER AND THE MOTOR AGAINST OVER CURRENT DUE TO SHORT CIRCUIT OR GROUNDS.
9. MOTOR STARTERS
   - 9.1. A NEMA RATED MOTOR STARTER WITH MANUAL RESET SHALL BE PROVIDED FOR EACH PUMP.
10. CONTROL TRANSFORMER
    - 10.1. THE PANEL SHALL INCLUDE A DRY TYPE CONTROL TRANSFORMER WITH A SUFFICIENT VA RATING TO OPERATE ALL 120-VOLT LOADS. PROPERLY SIZED PRIMARY AND SECONDARY FUSE PROTECTION SHALL BE PROVIDED. THIS TRANSFORMER MAY NOT BE REQUIRED IF 120 VOLTS CAN BE OBTAINED FROM THE INCOMING SERVICE.
11. CONTROL BREAKER - DOOR MOUNTED
    - 11.1. THE PANEL SHALL BE SUPPLIED WITH A PROPERLY SIZED CONTROL POWER CIRCUIT BREAKER. THE BREAKER SHALL BE OPERATOR DOOR MOUNTED AND SHALL SUPPLY POWER TO ALL CONTROL WIRING WITHIN THE ENCLOSURE.
12. WETWELL LEVEL-RESPONSE AUTOMATIC PUMP AND ALARM CONTROL SYSTEM
    - 12.1. PLC WITH TOUCH SCREEN FOR LEVEL TRANSDUCER AND PRIMARY CONTROL.
    - 12.2. A WETWELL LEVEL-RESPONSIVE AUTOMATIC PUMP CONTROLLER/ALTERNATOR AND ABNORMAL LEVEL ALARM MODULE SHALL BE FURNISHED TO CONTROL TWO PUMPS IN RESPONSE TO DIRECT-ACTING LIQUID LEVEL SENSORS IN THE WETWELL. THE CONTROLLER SHALL PROVIDE INDEPENDENT ON, COMMON OFF OPERATION OF 2 PUMPS WITH HIGH LEVEL ALARM. A SOLID STATE ALTERNATOR SHALL CHANGE THE PUMP SEQUENCE AFTER EACH CYCLE OF OPERATION. THE CONTROLLER/ALTERNATOR/ALARM MODULE SHALL BE A STANDARD STOCKED UNIT.
    - 12.3. FOUR FLOATS WILL BE REQUIRED TO CONTROL THE OPERATION OF THE DUPLEX PUMPS. AS THE LIQUID LEVEL RISES IN THE WETWELL THE PUMPS STOP FLOAT ENERGIZES FIRST. AS THE LEVEL INCREASES THE START FLOAT ENERGIZES AND STARTS THE PUMP. WITH THE PUMP RUNNING, THE LEVEL DECREASES TO THE PUMP STOP FLOAT, AND TURNS THE PUMP OFF. WHEN THE PUMP STOPS, THE ALTERNATOR SHALL INDEX SO THAT THE OTHER PUMP STARTS ON THE NEXT RISE IN LEVEL. IF THE LEVEL CONTINUES TO RISE WITH THE LEAD PUMP RUNNING, THE LAG START FLOAT WILL ENERGIZE AND START THE LAG PUMP. BOTH LEAD AND LAG PUMPS SHALL OPERATE TOGETHER UNTIL THE STOP FLOAT IS DE-ENERGIZED.
    - 12.4. A FLOAT SHALL BE REQUIRED TO SIGNAL THE HIGH LEVEL ALARM IF THE LEVEL CONTINUES TO RISE ABOVE THE NORMAL PUMPING LEVELS.
    - 12.5. AN ADJUSTABLE DELAY TIMER SHALL BE PROVIDED TO PREVENT SIMULTANEOUS STARTING OF THE PUMPS AFTER A POWER FAIL.
13. RUNNING TIME METER
    - 13.1. A NON-RESETABLE RUNNING TIME METER MEASURING HOURS AND TENTHS OF HOURS OF OPERATION UP TO 99999.9 HOURS SHALL BE INTEGRAL TO THE OPERATOR INTERFACE TERMINAL.
14. SELECTOR SWITCHES.
    - 14.1. A 22 MM OIL TIGHT, THREE-POSITION, "HANDS-OFF-AUTOMATIC" SELECTOR SWITCH SHALL BE FLUSH-MOUNTED ON THE OPERATOR'S DOOR OF THE CONTROL PANEL FOR THE OPERATION OF EACH VFD. THIS SELECTOR SWITCH SHALL OPERATE THE VFD WHEN IT IS IN EITHER THE "HAND" POSITION OR THE "AUTOMATIC" POSITION, AND THE AUTOMATIC CONTROL SYSTEM IS CALLING FOR THE OPERATION OF THE EQUIPMENT IN THE MANNER AS HEREIN DESCRIBED.
    - 14.2. AN ALTERNATOR OVERRIDE SWITCH (1-2, AUTO, 2-1) SHALL BE INTEGRAL TO THE OPERATOR INTERFACE TERMINAL. THIS SWITCH WILL ALLOW THE OPERATOR TO SELECT EITHER AUTOMATIC ALTERNATION OR MANUALLY SELECT THE LEAD PUMP.
15. STATUS INDICATORS AND ALARM LIGHTS
    - 15.1. ALL LIGHTS SHALL BE 22 MM OIL TIGHT, FLUSH MOUNTED ON THE OPERATOR'S DOOR OF THE CONTROL PANEL, AND HAVE REPLACEABLE BULBS.
    - 15.2. A GREEN "PUMP RUNNING" PILOT LIGHT SHALL BE OPERATED FROM A RESPECTIVE STARTER AUXILIARY CONTACT.
    - 15.3. A RED "HIGH LEVEL" PILOT LIGHT WILL INDICATE A HIGH WETWELL CONDITION.
    - 15.4. A RED "SEAL FAIL" PILOT LIGHT WILL INDICATE A PUMP SEAL FAILURE ALARM CONDITION OF EACH SEWAGE PUMP. THIS LIGHT SHALL BE OPERATED BY A SOLID-STATE RESISTANCE CONTROL RELAY DESIGNED FOR CONNECTION TO THE MOISTURE PROBE IN EACH PUMP MOTOR.
    - 15.5. A RED "PUMP OVERTEMP" PILOT LIGHT AND RESET PUSH BUTTON SHALL BE MOUNTED ON THE OPERATOR'S DOOR. OVER TEMPERATURE PROTECTION SHALL BE PROVIDED IN THE CONTROL PANEL TO OPERATE IN CONJUNCTION WITH OVER TEMPERATURE SWITCH IN EACH PUMP MOTOR. THE CONTROL SHALL PROVIDE PUMP LOCKOUT OF OPERATION UPON OCCURRENCE OF HIGH TEMPERATURE.
16. WEATHERPROOF ALARM LIGHT
    - 16.1. A WEATHERPROOF HIGH WATER, 40-WATT ALARM LIGHT ASSEMBLY INCLUDING A HIGH IMPACT RESISTANT LEXAN RED LENS SHALL BE INCLUDED, FOR PANEL MOUNTING ONLY. THE ALARM LIGHT BULB SHALL BE REPLACEABLE FROM INSIDE THE CONTROL PANEL WITHOUT HAVING TO REMOVE THE WEATHERPROOF RED LENS FROM THE PANEL. A SOLID-STATE FLASHER SHALL BE INCLUDED TO STROBE THE ALARM LIGHT FOR ANY OF THE SPECIFIED ALARM CONDITIONS.
17. WEATHERPROOF ALARM HORN
    - 17.1. A WEATHERPROOF HIGH WATER AUDIBLE U.L. LISTED ALARM HORN SHALL BE PROVIDED. THE HORN WILL BE SIDE MOUNTED TO THE CONTROL PANEL, OR PROVIDED FOR REMOTE MOUNTING, AND SHALL OPERATE ON 115 VAC WITH A TYPICAL 95 DB OUTPUT. AN ALARM SILENCE PUSH BUTTON SHALL BE INCLUDED AND MOUNTED ON THE OPERATOR'S DOOR.
18. WETWELL LEVEL SENSING FLOAT SWITCHES.
    - 18.1. EACH FLOAT SHALL HAVE A CHEMICAL RESISTANT POLYPROPYLENE CASING WITH A FIRMLY BONDED ELECTRICAL CABLE PROTRUDING. ONE END OF THE CABLE SHALL BE PERMANENTLY CONNECTED TO THE GLASS ENCLOSED MERCURY SWITCH AND THE ENTIRE ASSEMBLY ENCAPSULATED TO FORM A COMPLETELY WATERTIGHT IMPACT RESISTANT UNIT. THE CABLE SHALL BE P.V.C. TYPE STO WITH #18 CONDUCTORS, RATED 600 VOLTS, IN LENGTHS AS REQUIRED TO RUN UNSPLICED TO THE CONTROL PANEL. THE FLOATS SHALL BE SUSPENDED TYPE WITH A BUILT IN WEIGHT. FLOATS THAT REQUIRE AN EXTERNAL WEIGHT WILL NOT BE ACCEPTABLE. USE 10 PSI X 40' CORD BLUE RIBBON LEVEL TRANSDUCER OR APPROVED EQUAL.
    - 18.2. THE CONTRACTOR SHALL INSTALL AND WIRE THE FLOAT SWITCHES AS SHOWN ON THE DRAWINGS. THE FLOAT SWITCH CABLES SHALL BE SUSPENDED FROM A CABLE RACK MOUNTED TO THE TOP OF THE WETWELL.
19. AUTO-DIALER
    - 19.1. LIFT STATION SHALL BE EQUIPPED WITH A SENSAPHONE SENTINEL CELLULAR AUTO-DIALER OR APPROVED EQUAL WHICH AUTOMATICALLY ACTIVATES TO GIVE WARNINGS FOR POWER OUTAGES, PUMP FAILURES, AND HIGH WATER LEVELS.
20. IF 1 PHASE SERVICE IS SPECIFIED, VFDs ARE TO BE PROVIDED IN THE PANEL AND AIR CONDITIONER ADDED FOR 1 PHASE TO 3 PHASE CONVERSION.
21. MAIN BREAKER/DISCONNECT MEANS TO BE PROVIDED BY OTHERS.
22. JUNCTION BOX(ES), IF REQUIRED, ARE TO BE PROVIDED BY OTHERS.
23. PUMP CONTROL PANEL IS TO BE MOUNTED ON UNI-STRUT RACKS. UNI-STRUT RACKS MAY BE MOUNTED ON POSTS WITH CONCRETE FOOTINGS DIRECTLY ADJACENT TO LIFT STATION. CONTRACTOR SHALL SUBMIT CONTROL PANEL LOCATION AND MOUNTING METHODS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.
24. ALL PENETRATIONS SHALL BE SEALED WATER AND GAS TIGHT PER APPROVED METHODS.
25. ELECTRICAL CONTRACTOR TO PROVIDE AND SIZE ALL CONDUITS, MAIN BREAKER/DISCONNECT, WIRES, ETC. PER ALL NEC CODES AND ALL APPLICABLE STATE AND LOCAL CODES.

PUMP CONTROL NARRATIVE

1. WHEN THE PUMP ON FLOAT IS TRIGGERED, THE SYSTEM STARTS A 12-HOUR DELAY TIMER.
   - 1.1. NO PUMPS OPERATE DURING THIS DELAY WINDOW.
2. INITIAL PUMP START:
   - 2.1. AFTER THE 12-HOUR DELAY EXPIRES, PUMP #1 STARTS AND RUNS FOR 2 HOURS.
3. PUMP ALTERNATION:
   - 3.1. AT THE END OF PUMP #1'S 2-HOUR CYCLE:
     - 3.1.1. PUMP #1 STOPS.
     - 3.1.2. A 30-MINUTE DELAY TIMER STARTS.
     - 3.1.3. AFTER THE 30-MINUTE DELAY, PUMP #2 STARTS AND RUNS FOR 2 HOURS.
4. CONTINUED ALTERNATION:
   - 4.1. THE PUMPS CONTINUE IN THE FOLLOWING REPEATING CYCLE:
     - 4.1.1. PUMP #1 → 2-HOURS RUN
     - 4.1.2. 30-MINUTE IDLE
     - 4.1.3. PUMP #2 → 2-HOURS RUN
     - 4.1.4. 30-MINUTE IDLE
     - 4.1.5. REPEAT INDEFINITELY UNTIL THE FLOAT RETURNS TO THE ALL PUMP OFF POSITION
5. CYCLE TERMINATION:
   - 5.1. WHEN THE FLOAT DROPS BELOW ALL PUMP OFF LEVEL:
     - 5.1.1. THE ACTIVE PUMP COMPLETES ITS CURRENT 2-HOURS CYCLE.
     - 5.1.2. ALL ALTERNATION STOPS.
     - 5.1.3. SYSTEM RESETS AND AWAITS THE NEXT FLOAT TRIGGER.

No.	REVISIONS	DATE	BY

Kimley»Horn
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10814 JOLLYVILLE ROAD, CAMPUS IV, SUITE 200, AUSTIN, TX 78759
PHONE: 512-418-1771 FAX: 512-418-1791
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

KHA PROJECT XXXXXXXXX
DATE MONTH YEAR
SCALE: AS SHOWN
DESIGNED BY: XXX
DRAWN BY: XXX
CHECKED BY: XXX

WATER QUALITY LIFT STATION NOTES

PROJECT NAME
PHASE
CITY OF XXXXXXX
XXXXXXX COUNTY, TEXAS

SHEET NUMBER
C5.08
OF XX

Plotted By: Randall, Zach Date: February 03, 2026 06:17:13pm File Path: K:\aus_civil\068723904 - wimberley isd - danforth jhs\Cad\plansheets\C-Water Quality LS Notes.dwg
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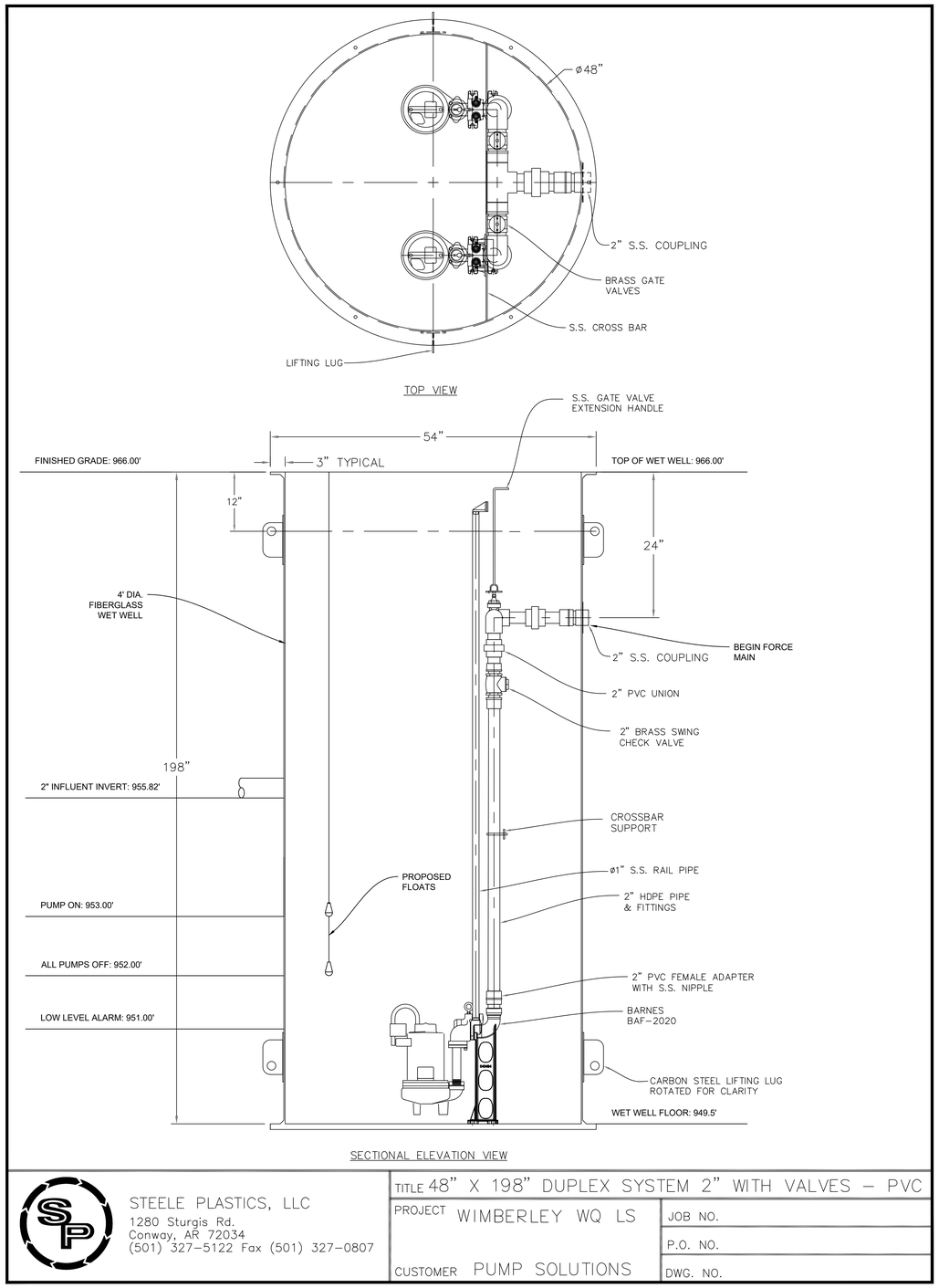


LIFT STATION PUMP DESCRIPTION	
DESIGN FLOW	39 GPM
TDH	11.9 FT
STATIC HEAD	10.00 FT
POWER	208V 3 PHASE
IMPELLER	4 INCH

CONTROL TABLE	
COMPONENT	ELEVATION
FINISHED GRADE	966.00'
TOP OF WET WELL	966.00'
LOWEST WW INVERT	955.82'
LAG PUMP ON	954.00'
LEAD PUMP ON	953.00'
ALL PUMPS OFF	952.00'
WET WELL FLOOR	949.50'
TOTAL WET WELL DEPTH	16.50'

WATER QUALITY DISCHARGE	
TOTAL WQV	41322.39 GAL OR 5524 CF
PUMP CYCLE RATE	38.8 GPM
WQV PER CYCLE	4656 GAL
# OF CYCLES	9
TOTAL TIME	22.5 HRS

NOTES:
IF ADDITIONAL RAIN EVENT OCCURS DURING THE 12-HOUR DETENTION, THE DETENTION TIMER WILL BE UNINTERRUPTED.

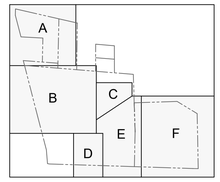
NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWING SHOWING ELEVATIONS OF ALL PROPOSED SMARTBATCH VALVE PIPING PRIOR TO FABRICATION.

STEELE PLASTICS, LLC
1280 Sturgis Rd.
Conway, AR 72034
(501) 327-5122 Fax (501) 327-0807

TITLE 48" X 198" DUPLEX SYSTEM 2" WITH VALVES – PVC
PROJECT WIMBERLEY WQ LS
CUSTOMER PUMP SOLUTIONS
JOB NO.
P.O. NO.
DWG. NO.

F:\A_CAD\SYSTEMS\BARNES\BARNES 2.0\QLOST WOODS WQ P5.dwg, SYSTEM, 11/14/2025 9:28:37 AM

KEY MAP



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1301 Fannin Street, Suite 750, Houston, Texas 77002 p: 713.467.1683 f: 713.467.1573

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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALLISON KENNAUGH
114356
LICENSED PROFESSIONAL ENGINEER
CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928
2/5/2026

Revisions:
NO. DESCRIPTION DATE

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY LIFT STATION PLAN AND SECTION

SHEET NO.
C5.09

Plotted By: Randall, Zach Date: February 03, 2026 06:17:18pm File Path: K:\aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C–Water Quality LS Plan and Section.dwg
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BARNES®
Professional Plumbing
www.cranepumps.com

CONTROL PANELS
Three Phase, Duplex, Alternating
208/240/480 VAC

Accessories

The Duplex controls are supplied in a NEMA 4X weathertight thermoplastic enclosure with removable flanges for indoor/outdoor mounting. Each will contain three pole, amperage rated magnetic motor contactors for pump control and motor protection switches that provide for adjustable overloads, built-in circuit breakers, and pump disconnects.

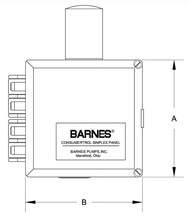
A multi-tap transformer for 208/240/480 VAC provides 120V control/alarm voltage. Hand-off-automatic switches are provided for manual operation of the pumps. Pump run, float status, and control/alarm power indicators are provided as well as a control/alarm fuse and ON/OFF switch.

Terminal blocks are provided for customer connection of power, pump leads, and level switches or other pilot controls. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. The Alarm package includes a top mounted red beacon for 360° visual checks and a horn for audio warning of alarm conditions. A test-normal-silence switch is provided for testing of the alarm and silencing of the horn. A horn silence relay automatically resets the alarm horn after alarm condition has been resolved.

PART NO.	PUMP FULL LOAD AMPS	CIRCUIT BREAKER	CONTACTOR
106498	1 - 1.6	Integral w/Protector	17 AMP
106500	1.6 - 2.5	Integral w/Protector	17 AMP
106502	2.5 - 4.0	Integral w/Protector	17 AMP
106504	4.0 - 6.3	Integral w/Protector	17 AMP
106506	6 - 10	Integral w/Protector	17 AMP
106507	9 - 14	Integral w/Protector	17 AMP
106509	13 - 18	Integral w/Protector	25 AMP

Series: Duplex
P/N: 106498 thru 106509

WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



inches (mm)

A - Height	B - Width	C - Depth
14 (356)	12 (305)	6 (152)

BARNES®
www.cranepumps.com

1.25" - 3" Break Away Fitting
With or Without Check Valve
Standard & Non-Sparking

Break Away Fittings

Specifications:

Each BAF break away fitting consists of a cast iron base elbow which is bolted to the floor of the wet well, lower and upper guide rail supports and a cast iron moveable elbow with a sealing plate and o-ring. The pump is connected to the moveable elbow though a stainless steel nipple supplied with each assembly.

The guide rails (supplied by customer) are attached to the base elbow at the lower end and a pipe spacer support bracket at the upper end. The guide rails are set in place by sliding the pipe over a stainless steel plug. Each plug has an o-ring to reduce noise and vibration. The guide rails serve only as a guide as they carry none of the pump weight. 1" (25mm) schedule 40 galvanized steel pipes should be used for guide rails.

An optional intermediate guide rail bracket is recommended for depths of 13 feet (4m) or more. See page 2.

The BAF's, 1212, 1220 & 2020 are for pumps up to 200 lbs (91kg) which do not generate in excess of 150 ft. TDH (45 Meters).

The BAF's, 2030 & 3030 is for pumps up to 250 lbs (114kg) which do not generate in excess of 150 ft. TDH (45 Meters).

One break away fitting is required per pump. (The S.S. Lifting bridle is included.)

Assemblies DO NOT include Pump, Discharge piping, Guide Rails, Lifting Chain, nor Gate Valve with Handle.

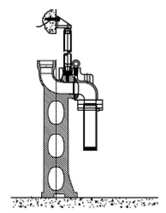
These items must be purchased separately.

Specifications: With Check Valve "CV" Series
In addition to standard features listed above, a commercially available Flap Check Valve is supplied with each model. The valve is installed between the pump discharge flange and the inlet flange on the moveable elbow.

Specifications: Non-Sparking "NS" Series
The "NS" series is similar in design to the standard version except it has a Bronze Moveable Elbow to prevent sparking.

Model Key: BAF - 1212NS
12 = 1¼"
20 = 2"
30 = 3"
Customer Connection
Pump Connection

For Submersible Sump, Sewage, Effluent & Grinder Pumps.



Models: Without Check Valve

STD P/N		"NS" P/N
127300	BAF - 1212	127303
127301	BAF - 1220	127311
127302	BAF - 2020	127312
127306	BAF - 2030	127305
127304	BAF - 3030	127314

Models: With Check Valve

STD P/N		"NS" P/N
127307	BAF - 1212CV	127310
127308	BAF - 1220CV	127313
127309	BAF - 2020CV	127315

DESCRIPTION:

THE BREAK AWAY FITTING IS DESIGNED TO ALLOW THE SUBMERSIBLE PUMP TO BE INSTALLED OR REMOVED WITHOUT REQUIRING PERSONNEL TO ENTER THE WET WELL.

WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

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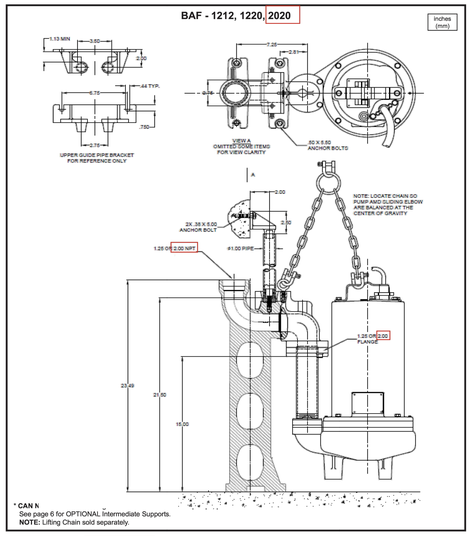
1.25" - 3" Break Away Fitting
Without Check Valve

Break Away Fittings

BAF - 1212, 1220, 2020

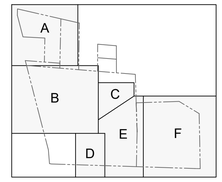
inches (mm)



* **CAN N**
See page 6 for OPTIONAL Intermediate Supports.
NOTE: Lifting Chain sold separately.

NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWING SHOWING ELEVATIONS OF ALL PROPOSED SMARTBATCH VALVE PIPING PRIOR TO FABRICATION.

KEY MAP



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114356
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PROFESSIONAL
ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:
NO. DESCRIPTION DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY LIFT STATION DETAILS (SHEET 1 OF 2)

SHEET NO.
C5.10

BARNES®
Professional Plumbing
www.cranepumps.com

Word File

Specifications
Duplex Fiberglass Lift Station: Rail Pipe

Pre-Packaged Fiberglass Systems

DESCRIPTION: The manufacturer shall furnish a complete Pump Station(s). The pump station shall consist of a basin package, pump and control panel.
- The Basin Package shall include the following: fiberglass basin with anti-flotation collar, BAF lift out system with stainless steel guide rails, isolation valve, mechanical floats, basin cover, check valve, stainless lifting chain, field locatable conduit fitting, and bug free station vent. All equipment in the wet well shall be capable of constant submerge in sewage to a minimum depth of 30 feet without electrical power being energized.
- The Control Panel (optional) shall include a NEMA 4X weather tight thermoplastic enclosure with removable mounting flanges. The panel shall have alternating action that equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. The panel shall have indicators showing pump run, float status, and control/alarm power indicators. The high level alarm shall consist of a horn for audio warning, as well as a top mounted red beacon.
- The interior of the panel shall consist of magnetic motor contactors, circuit breakers, terminal blocks for customer connection of power, pump leads, and level switches, and hand-off-automatic switches are provided for manual operation of the pumps.
- The Pump (optional) shall include a Barnes Grinder, Effluent, or Sewage Ejector, and shall be selected based on the hydraulic requirements of the system.

SHOP DRAWINGS AND MANUALS: After receipt of notice to proceed, the manufacturer shall furnish the engineer a minimum of eight (8) sets of shop drawings detailing the equipment to be furnished including dimensional data and materials of construction. The engineer shall promptly review this data, and return two (2) copies to the manufacturer as approved, or approved as noted. Upon receipt of accepted shop drawings, the manufacturer shall proceed with order entry and fabrication of the equipment. Prior to completion of equipment delivery, the manufacturer shall supply four (4) copies of Operation and Maintenance Manuals to the owner, and one (1) copy of the same to the engineer.

PRE-APPROVAL OF MANUFACTURER: The system design is detailed in the drawings. Any pump manufacturer not specified, but wishing to be pre-approved as an acceptable supplier shall submit a complete hydraulic analysis based on the design detailed in the drawings at least fifteen days prior to bid date. All manufacturers must have been in the business of manufacturing complete pump stations for a minimum of ten years. Manufacturer Representatives, Distributors, or Packagers will not be considered to be manufacturers. Manufacturer must demonstrate to the satisfaction of engineer that the proposed pump equipment will meet system flows and heads required. In addition, pre-submittal must also demonstrate to the satisfaction of the engineer that the equipment being proposed meets or exceeds all performance and safety requirements, materials of construction, and user benefits of the specified equipment. Only pre-approved pump station manufacturers will be considered. All bids utilizing manufacturers not pre-approved will be considered non-responsive.

ACCEPTABLE MANUFACTURER(S): Acceptable pump station manufacturer(s) are Barnes pumps as manufactured by Crane Pumps & Systems, or pre-approved equal.

CORROSION PROTECTION: All materials exposed to wastewater shall have inherent corrosion protection: i.e., painted cast iron, fiberglass, stainless steel, PVC.

STATION CONFIGURATION: Basins shall be supplied in a wet well configuration.

LEVEL DETECTION: Level detection for controlling the pump and alarm operation shall be accomplished by use of a detection mechanism specifically designed for use in a sewage system and shall be removable without the need to remove the pump. Switches utilized in the system shall be hermetically sealed in a submersible, watertight protective casing. Level detection mechanism shall be suspended mechanical floats with adjustable weights for sight specific settings to provide switch protection from solids, greases, oils, and fats. Level detection mechanism shall not require any regular, preventive maintenance. The level detection mechanism shall consist of four (Duplex) switches, one for each function (HIGH WATER ALARM, LEAD PUMP ON, LAG PUMP ON, ALL PUMPS OFF). The level controls shall be serviceable without the need for a confined space entry as defined by OSHA or the need to remove the pump. Use of mercury floats will not be acceptable.

SHUT-OFF VALVE: The pump discharge shall be equipped with a factory installed, manual valve with separate union. Valves shall be, constructed of (Gate-PVC(1-1/4" and 2") Ball-PP (3")) , with a minimum rated pressure of 150 PSI (10.6 kg/sq. meter). All valves shall be operable from ground level. Shut off valve must be replaceable without excavating basin exterior. Shut off valves shall be each equal to the size of the station discharge.

BASIN CONSTRUCTION AND ASSEMBLY: The basin shall be fiberglass reinforced polyester resin with a 3" (76.2 mm) ballast support flange. The basin shall be furnished with one flexible inlet flange (shipped loose to facilitate field location) to accept a 4.50" (114 mm) OD DWV pipe. Inlet location can vary to accommodate ease of installation. (See installation instructions or consult factory for details.) Basin capacities and dimensions shall be as shown on the contract drawings or as specified herein. The basin FRP wall laminate thickness shall vary with the wetwell depth to provide the aggregate strength to meet the tensile and flexural physical property requirements. The basin FRP wall laminate must be designed to withstand wall collapse or buckling based on a hydrostatic pressure of pounds per square foot, a saturated soil weight of 120 pounds per cubic foot, a soil modulus of 700 pounds per square foot. Basin must comply with the pipe stiffness values as specified in ASTM D 3753. The basin laminate must be constructed to withstand or exceed 150% of the assumed loading on any deck. The finished FRP laminate will have a Barcol hardness of at least 90% of the resin manufactures specified hardness for the fully cured resin. The Barcol Hardness shall be the same for both interior and exterior surfaces. Manufacture must submit documentation including calculation and production certification that basin (s) on the project are in compliance with the above requirements.

All piping inside the basin silhouette shall be at a level in the station that is lower than the frost depth or depth of bury specified for the low pressure sewer piping, whichever is lowest.

Fiberglass cover shall be grass green color. Steel cover shall be black in color. Aluminum cover shall be natural silver color.

All discharge piping shall be constructed of Schedule 80 PVC and terminate outside the stations with a bulkhead female NPT fitting. The manufacturer shall guarantee all bulkhead penetrations watertight.

PUMP REMOVAL SYSTEM: Each basin shall be equipped with a 300 series stainless steel pipe guide rail assembly to facilitate removal of the pump(s) from ground level. A stainless steel lifting chain with harness shall be supplied for pump removal. Pump removal system must not require the loosening of fasteners to facilitate pump removal, and shall provide for automatic alignment and re-connection of discharge piping for the replacement pump. Pump replacement shall be accomplished while the basin is full of sewage without the need to dewater the basin.

WARRANTY: The manufacturer shall provide a warranty of twenty-four (24) months after date of manufacture. The owner will return any equipment found to be defective to the manufacturer for inspection and validation of the defect. Defective equipment will be repaired or replaced and shipped back to customer at no charge. Consult factory for extended warranty information.

End

GT3W Series — Recycle Timer — Timers — IDEC

GT3W Series — Dual Time Range Timers

Key features of the GT3W series include:
- **Sequential start, sequential interval, on-delay, recycler, and interval ON timing functions**
- **2 time settings in one timer**
- **8 selectable operation modes on each model**
- **Mountable in sockets or flush panel**
- **Power and output status indicating LEDs**
- **Time ranges up to 300 hours**

c-UL Listed
UL Listed
File No.E55996

General Specifications

Operation System	Solid state CMOS Circuit	
Operation Type	Multi-Mode	
Time Range	1: 0.1sec to 6hours, 3: 0.1sec to 300hours	
Pollution Degree	2 (IEC60664-1)	
Over voltage category	III (IEC60664-1)	
Rated Operational Voltage	AP20	100-240V AC(50/60Hz)
	AD24	24V AC(50/60Hz)/24V DC
	D12	12V DC
Voltage Tolerance	AP20	85-264V AC(50/60Hz)
	AD24	20.4-26.4V AC(50/60Hz)/21.6-26.4V DC
	D12	10.8-13.2V DC
Disengaging value of Input Voltage	Rated Voltage x10% minimum	
Range of Ambient Operating Temperature	-10 to +50°C (without freezing)	
Range of Ambient Storage and Transport Temperature	-30 to +75°C (without freezing)	
Range of Relative Humidity	35 to 85%RH (without condensation)	
Atmospheric Pressure	80kPa to 110kPa (Operating), 70kPa to 110kPa (Transport)	
Reset Time	60msec maximum	
Repeat Error	±0.2%, ±10msec*	
Voltage Error	±0.2%, ±10msec*	
Temperature Error	±0.6%, ±10msec*	
Setting Error	±10% maximum	
Insulation Resistance	100MΩ minimum (500V DC)	
Dielectric Strength	Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole:750V AC, 1 minute	
Vibration Resistance	10 to 55Hz amplitude 0.75mm2 hours in each of 3 axes	
Shock Resistance	Operating extremes: 98m/sec² (approx.10G) Damage limits: 490m/sec² (approx. 50G) 3 times in each of 3 axes	
Degree of Protection	IP40 (enclosure), IP20 (socket) (IEC60529)	
Power Consumption (approx.)	AP20 100V AC/60Hz	2.3VA
	AP20 200V AC/60Hz	4.6VA
	AD24 (AC/DC)	1.6VA/0.9W
Mounting Position	Free	
Dimensions	40Hx 36W x 70 mm	
Weight (Approx.)	72g	

Contact Ratings

Allowable Contact Power		960VA/120W
Allowable Voltage		250V AC/150V DC
Allowable Current		5A
Maximum permissible operating frequency		1800 cycles per hour
Rated Load		1/8HP, 240V AC 3A, 240V AC (Resistive) 5A, 120V AC/30V DC (Resistive)
Conditional Short Circuit		Fuse 5A, 250V
Life	Electrical	100,000 op. minimum (Resistive)
	Mechanical	20,000,000 op. minimum

GT3W Table of Contents

Specifications — G-44
Part Number List — G-45
Timing Diagrams / Schematics — G-46
Instructions: Setting Timer — G-47
GT3 Accessories — G-48
GT3 Instructions — G-50
GT3 Dimensions — G-52
Timing Diagrams Overview — G-4

*** For the value of the error against a preset time, whichever the largest.*

IDEC Timers — Recycle Timer — GT3W Series

Part Number List

Part Numbers

Mode of Operation	Output	Contact	Time Range*	Rated Voltage	Pin Configuration	New Part Numbers
A: Sequential Start B: On-delay with course & fine C: Recycler & instaneous D: Recycler out-puts (OFF Start) E: Recycler outputs (ON Start) F: Interval ON G: Interval ON Delay H: Sequential Interval	3A, 240V AC 5A, 120V AC/30V DC (Resistive Load)	Delayed SPDT + Delayed SPDT	1: 0.1sec - 6 hours 3: 0.1sec - 300 hours *See Time Range Settings for details.)	100 to 240V AC (50/60Hz)	8 pin	GT3W-A11AF20N
					11 pin	GT3W-A11EAF20N
				24V AC/DC	8 pin	GT3W-A11AD24N
					11 pin	GT3W-A11EAD24N
				12V DC	8 pin	GT3W-A11D12N
					11 pin	GT3W-A11ED12N
				100 to 240V AC (50/60Hz)	8 pin	GT3W-A33AF20N
				24V AC/DC		GT3W-A33AD24N

1. For schematics, see page G-46.
2. For socket and accessory part number information, see page G-48.
3. 8- and 11-pin models differ only in the number of post (extra pins are not used).
4. For the timing diagram overview, see page G-4.
5. *For details on setting time ranges, see the instructions on page G-47.

Time Range Table

Time Range Code: 1			Time Range Code: 3		
Time Range Selector	Scale	Time Range	Time Range Selector	Scale	Time Range
1S	0-1	0.1 sec - 1 sec	1S	0 - 3	0.1 sec - 3 sec
10S		0.3 sec - 10 sec	1M		3 sec - 3 min
10M		15 sec - 10 min	1H		3 min - 3 hours
1S	0 - 6	0.1 sec - 6 sec	1S	0 - 30	0.6 sec - 30 sec
10S		1 sec - 60 sec	1M		36 sec - 30 min
1M		6 sec - 6 min	1H		36min - 30 hours
10M		1 min - 60 min	10H		6 hours - 300 hours
1H		6 min - 6 hours			

We will set to Run 1/2 hour, off 2.5 hrs. and Recycle this until off float clears.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING"
ELEV.=980.56

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ELEV.=980.49

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

Plotted By:Randall, Zach Date:February 03, 2026 06:17:25pm File Path:K:\aus_civil\065733904 — wimberley isd — danforth jhs\Cad\plansheets\C-Water Quality LS Details.dwg
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Plotted By: Randall, Zach Date: February 03, 2026 06:17:30pm File Path: K:\pub_civil\06873904 - wimberley isd - danforth jhs\Cad\plansheets\C-Water Quality LS Details.dwg
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G

Timers

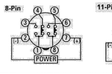
GT3W Series

Recycle Timer

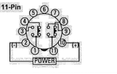
Timers IDEC

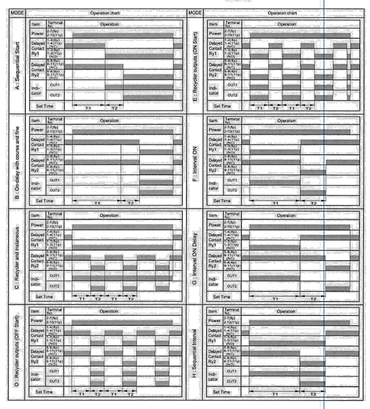
Timing Diagrams/Schematics

8-Pin



11-Pin





Off Delay Timer

idec

RTE-P1, -P2, -B1, -B2 ALL MULTI-TIMERS INSTRUCTION SHEET

Read this instruction sheet to make sure of correct operation before starting installation, operation, maintenance, and inspection of the RTE series timers. The end user should keep this instruction sheet for future reference.

TIME RANGE Determined by Time Range Selector and Dial Selector

Time Range Selector	Dial	0.1	0.3	0.10	0.30	0.60 (hr: hours)
s		0.1sec - 1sec	0.1sec - 3sec	0.2sec - 10sec	0.6sec - 30sec	1.2sec - 60sec
min		1.2sec - 1min	3.6sec - 30min	12sec - 10min	36sec - 30min	1.2min - 60min
h		1.2min - 1hr	3.6min - 3hr	12min - 10hr	36min - 30hr	1.2hr - 60hr
10h		12min - 10hr	36min - 30hr	2hr - 100hr	6hr - 300hr	12hr - 600hr

GENERAL SPECIFICATIONS

Operation System		Solid-state CMOS circuit
Operation Type		Multi-Mode
Time Range		0.1sec to 600hours
Pollution Degree		2 (IEC60664-1)
Over voltage category		II (IEC60664-1)
Rated Operational Voltage	AF20	100-240V AC(50/60Hz)
	AD24	24V AC(50/60Hz)/24V DC
	D12	12V DC
Voltage Tolerance	AF20	85-264V AC(50/60Hz)
	AD24	20.4-26.4V AC(50/60Hz)/21.6-26.4V DC
	D12	12-8-13.2V DC
Input off Voltage		Rated Voltage ×10% minimum
Ambient Operating Temperature		-20 to +55°C (without freezing)
Ambient Storage and Transport Temperature		-30 to +75°C (without freezing)
Relative Humidity		35 to 85%RH (without condensation)
Atmospheric Pressure		80kPa to 110kPa (Operating) 70kPa to 110kPa (Transport)
Reset Time		100msec maximum
Repeat Error		±0.2%, ±20msec*
Voltage Error		±0.2%, ±20msec*
Temperature Error		±0.5%, ±20msec*
Setting Error		±10% maximum
Insulation Resistance		100M Ω minimum (500V DC)
Dielectric Strength		Between power and output terminals: 2000V AC, 1 minute Between contacts of different poles: 2000V AC, 1 minute Between contacts of the same pole: 1500V AC, 1 minute
Vibration Resistance		10 to 55Hz amplitude 0.5mm 2 hours in each of 3 axes
Shock Resistance		Operating extremes: 98m/sec² (10G) Malfunction: 294m/sec² (30G) 3 times in each of 3 axes
Degree of Protection		IP40 (enclosure); IP20 (socket) (IEC60529)
Power Consumption (Approx.)	Type	RTE-P1, -B1 / RTE-P2, -B2
	AF20 100V AC/60Hz	6.0VA / 6.6VA
	240V AC/60Hz	11.6VA / 12.1VA
	AD24/AC/DC	3.4VA/1.7W / 3.5VA/1.7W
	D12	1.6W / 1.6W
Mounting Position		Free
Dimensions (Approx.)	RTE-P1, -P2	42H × 30W × 77.8D mm
	RTE-B1, -B2	40H × 36W × 74.8D mm
Weight (Approx.)	RTE-P1	RTE-P2 / RTE-B1, -B2
	87g	85g / 85g

* For the value of the error against a preset time, whichever the largest applies.

APPLICABLE STANDARDS

UL508, CSA C22.2 No.14, IEC61812-1, EN61812-1

EMC

Electrostatic Discharge	Level 3 Contact±6.0kV, Air±8.0kV	IEC61000-4-2 EN61000-4-2
Electromagnetic Field	level 3 10V/m, AM 80%, 80M-1000MHz	IEC61000-4-3 EN61000-4-3
Fast Transient/Burst	Power Supply: ±2.0kV	IEC61000-4-4 EN61000-4-4
Surge AF20	level 3 Power Supply Line to Line ±1.0kV Line to Ground ±2.0kV	IEC61000-4-5 EN61000-4-5
Surge AD24, D12	level 2 Power Supply Line to Line ±0.5kV Line to Ground ±1.0kV	
Radiated Emission	Group 1 Class A	CISPR11 EN55011

TYPES

RTE-P1AF20

Power Voltage
AF20: 100 to 240V AC(50/60Hz)
AD24: 24V AC(50/60Hz)/24V DC
D12: 12V DC

Connection type: P: Pin, B: Blade

Operation Mode
1: No Control Signal
A: ON-Delay 1
B: Flicker
C: Cycle 1
D: Cycle 3
2: Control Signal
A: ON-Delay 2
C: Cycle 4
D: Signal ON/OFF-Delay
E: Signal OFF-Delay
F: One-Shot

CONTACT RATINGS

Contact Configuration		2 Form C, DPDT (Relay output)
Allowable Voltage / Allowable Current		240V AC, 30V DC / 10A
Maximum Permissible Operating Frequency		1800 cycles per hour
Rated Load	Resistive	10A 240V AC, 30V DC
	Inductive	7A 240V AC, 30V DC
	Horse Power Rating	1/6 HP 120V AC, 1/3 HP 240V AC
Conditional Short Circuit		Fuse 10A, 240V
Life	Electrical	500,000 ops minimum (Resistive)
	Mechanical	50,000,000 ops. minimum

TEMPERATURE DERATING CURVES

Mounting A

Mounting B

SWITCH SETTING

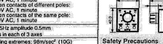
(1)Turn the selectors securely using a flat screwdriver 4mm wide maximum. Note that incomplete setting may cause malfunction. Do not turn the selectors beyond the limits.

(2)Do not touch the selectors during timer operation may cause malfunction, turn power off before changing the setting.

DIMENSIONS

RTE-P1, -P2

RTE-B1, -B2



(UNIT: mm)

Safety Precautions

Special expertise is required to use the Electronic Timer.

- All Electronic Timers are manufactured under IDEC's strict quality control. However, users must add a backup or fail-safe mechanism to the control system using the Electronic Timer in applications where heavy damage or personal injury may be caused in case the Electronic Timer fails.
- Install the Electronic Timer according to instructions described in this instruction sheet and the catalog.
- Make sure that the operating conditions are as described in the catalog. If you are uncertain about the specifications, contact IDEC in advance.
- Warning and Caution are precautions are categorized in order of importance to Warning and Caution.

Warning Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

- Turn power off to the Electronic timer before starting installation, removal, wiring, maintenance, and inspection on the Electronic Timer. Failure to turn power off may cause electrical shocks or fire hazard.
- Do not use the Electronic Timer without confirming that it is not overloading circuit. If the Electronic Timer should fail, a machine disorder, breakdown, or accident may occur.

Caution Caution notices are used where inattention might cause personal injury or damage to equipment.

- The Electronic Timer is designed for installation in equipment. Do not install the Electronic Timer outside equipment.
- Install the Electronic Timer in environments described in this instruction sheet and the catalog. If the Electronic Timer is used in places where the Electronic Timer is exposed to excessive dust, it may result in poor contact condensation, corrosive gases, excessive vibrations, and excessive shocks, than electrical shocks, fire hazard, or malfunction will result.
- Use an IEC60127-approved fuse and circuit breaker on the power and load circuits as a safety measure.
- Do not disassemble, repair, or modify the Electronic Timer.
- When disposing of the Electronic Timer, do so as an industrial waste.

IDEC IZUMI CORPORATION http://www.idec.com

Instruction Sheet: B-766-0 June 2003

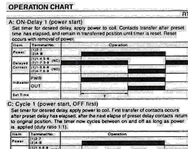
Off Delay Timer

OPERATION CHART

RTE-P1, -B1

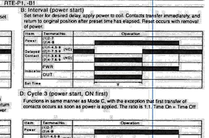
A: ON-Delay 1 (power start)

Set time for desired delay, apply power to coil. Contacts transfer after preset time has elapsed. Contacts remain in transferred position until timer is reset. Reset occurs with removal of power.



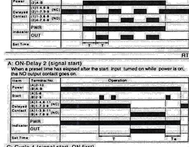
B: Interval (power start)

Set timer for desired delay, apply power to coil. Contacts transfer immediately and return to original position after preset time has elapsed. Reset occurs with removal of power.



C: Cycle 1 (power start, OFF first)

Set time for desired delay apply power to coil. First transfer of contacts occurs after preset delay has elapsed, after the next elapse of preset delay contacts return to original position. The timer now cycles between on and off as long as power is applied (duty ratio 1:1).



D: Cycle 3 (power start, ON first)

Functions in same manner as Mode C, with the exception that first transfer of contacts occurs as soon as power is applied. The ratio is 1:1 Time On = Time Off.

RTE-P2, -B2

A: ON-Delay 2 (signal start)

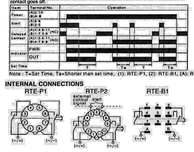
When a preset time has elapsed after the start input turned on while power is on, the NO output contact goes on.

B: Cycle 2 (signal start, OFF first)

When the start input turns on while power is on, the output oscillates at a preset cycle (duty ratio 1:1), starting while the NO contact off.

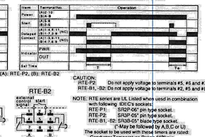
C: Cycle 4 (signal start, ON first)

When the start input turns on while power is on, the NO contact goes on. The output oscillates at a preset cycle (duty ratio 1:1).



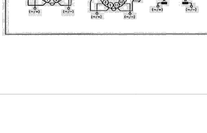
D: Signal ON/OFF-Delay

When the start input turns on while power is on, the NO output contact goes on. When a preset time has elapsed while the start input remains on, the output contact goes off. When the start input turns off, the NO contact goes on again. When a preset time has elapsed after the start input turned off, the NO contact goes off.



E: Signal OFF-Delay

When power is turned on and turns on while power is on, the NO output contact goes on.When a preset time has elapsed after the start input turned off, the NO output contact goes off.



F: One-Shot (signal start)

When power is turned on and turns on while power is on, the NO output contact goes on. When a preset time has elapsed, the NO output contact goes off.

INTERNAL CONNECTIONS

Note : Ts<Set Time< Ta+Shorter chart set time, (1): RTE-P1, (2): RTE-B1, (A): RTE-P2, (B): RTE-B2

CAUTION:
RTE-P2: Do not apply voltage in terminals #5, #6 and #7.
RTE-B1, -B2: Do not apply voltage in terminals #2, #5 and #8.

NOTE: RTE series are UL Listed when used in combination with following IDEC's sockets:
RTE-P1: SY3P-06" pin type socket,
RTE-P2: SY3P-05" pin type socket,
RTE-B1, -B2: SY4S-05" blade type socket.
Use 60/75°C or 75°C copper (CU) wire only.
The socket to be used with these timers are sized:
Conductor Temperature Rating 60°C min.,
Use 14AWG max.(2mm²max.) Copper conductors only.
(Terminal torque 9 to 12lb · in (1.0 to 1.3 N·m)

NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWING SHOWING ELEVATIONS OF ALL PROPOSED SMARTBATCH VALVE PIPING PRIOR TO FABRICATION.

Pump Data Sheet - Crane Barnes.60

Company: Wimberley ISD WQ LS
Name: PSI - Jacob Gillette
Date: 01/19/2026

BARNES

Pump:

Size:	SE10*4L	Dimensions:	
Type:	Sewage Eject 2-3*-1B	Suction:	---
Synch Speed:	1800 rpm	Discharge:	2 in
Dia:	4 in		
Curve:	V104871		

Fluid:

Name:	Water		
SG:	1	Vapor Pressure:	0.256 psi a
Density:	62.4 lb/ft³	Atm Pressure:	14.7 psi a
Viscosity:	1.1 cP		
Temperature:	60 °F	Margin Ratio:	1

Search Criteria:

Flow:	35 US gpm	Near Miss:	---
Head:	11.54 ft	Static Head:	10 ft

Pump Limits:

Temperature:	104 °F	Sphere Size:	1.5 in
Wkg Pressure:	---		

Motor:

Motor is integral to the pump except in 4A, 4B, and 5B catalog sections.

Pump Selection Warnings:

None

--- Duty Point ---

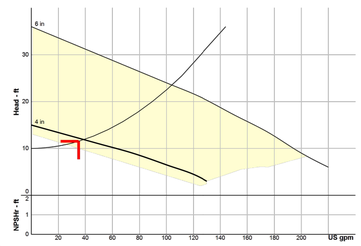
Flow:	38.8 US gpm
Head:	11.9 ft
Eff:	---
Power:	--- hp
NPSHr:	---
Speed:	1750 rpm

--- Design Curve ---

Shutoff Head:	15 ft
Shutoff dP:	6.5 psi
Min Flow:	--- US gpm
BEP:	--- %
NOL Power:	---

--- Max Curve ---

Max Power: ---

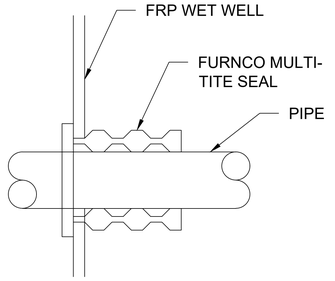


Temp. 104¡¿°F (40¡¿¼C) Continous.

Performance Evaluation:

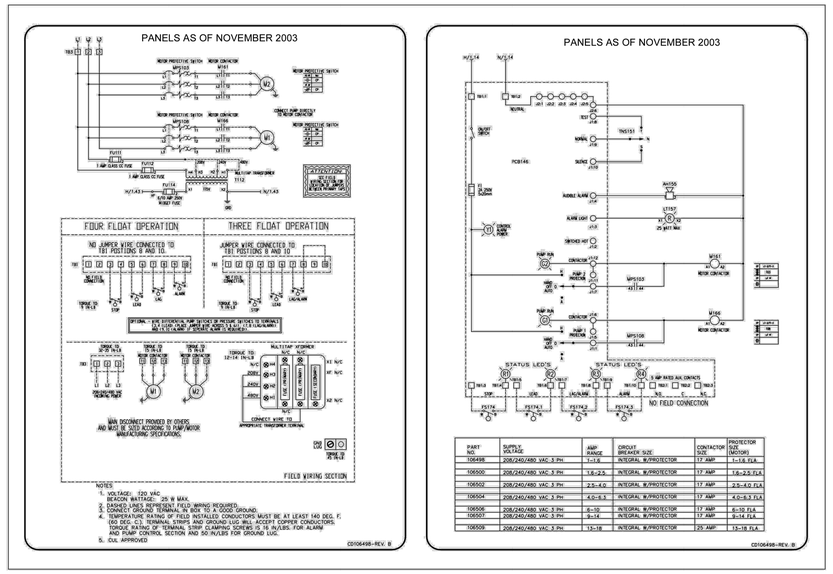
Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
42	1750	11.6	---	---	---
35	1750	12.2	---	---	---
28	1750	12.8	---	---	---
21	1750	13.3	---	---	---
14	1750	13.9	---	---	---

Selected from catalog: Barnes.60, Vers 4/23/20



FRP PIPE PENETRATION SEAL DETAIL

SCALE: N.T.S.



BENCHMARKS

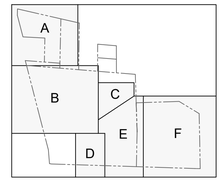
BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

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

KEY MAP



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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS

200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALLISON KENNAUGH 114356 LICENSED PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

WATER QUALITY LIFT STATION DETAILS (SHEET 2 OF 2)

SHEET NO.
C5.11

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PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	BENNETT LOWERY 512-571-2328 BENNETT.LOWERY@ADSPIPE.COM
ADS SALES REP:	DANIEL CONWAY 281-703-2000 DANIEL.CONWAY@ADSPIPE.COM
PROJECT NO:	5490699

Advanced Drainage Systems, Inc.

ADS SiteAssist™ FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR WEBSITE

DANFORTH JUNIOR HIGH SCH. CAMPUS ADDITIONS AND REN.

WIMBERLEY, TX

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 450rh DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LONG-TERM DEFLECTION BELOW THE INVERT OF THE UPSTREAM END WALL SHALL NOT EXCEED 5.0% WHEN SUBJECTED TO: 1) LONG DURATION DEAD LOADS AND 2) SHORT DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INCREMENTAL LOADING (+1 MINI-AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - CHAMBERS SHALL BE DESIGNED TO ALLOW FOR SAFE HANDLING DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%, THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3" (75 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERY COMMENCES. THE REQUEST MUST INCLUDE THE FOLLOWING:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75 YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.30 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR INSPECT MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBERS".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONE AND ROLL FOR ALL AREAS OUTSIDE PAVEMENT BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM -6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 M3, 357, 4, 467, 5, 56, OR 57.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBERS".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBERS".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBERS".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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BAYSAVER BAYFILTER SPECIFICATIONS

PRODUCTS

A. INTERNAL COMPONENTS: ALL COMPONENTS INCLUDING CONCRETE STRUCTURE(S), PVC MANIFOLD PIPING AND FILTER CARTRIDGES, SHALL BE PROVIDED BY BAYSAVER TECHNOLOGIES LLC, 1030 DEER HOLLOW DRIVE, MOUNT AIRY, MD 21771 (800.229.7283).

B. PVC MANIFOLD PIPING: ALL INTERNAL PVC PIPE AND FITTINGS SHALL MEET ASTM D1785. MANIFOLD PIPING SHALL BE PROVIDED TO THE CONTRACTOR PARTIALLY PRE-CUT AND PRE-ASSEMBLED.

C. FILTER CARTRIDGES: EXTERNAL SHELL OF THE FILTER CARTRIDGES SHALL BE SUBSTANTIALLY CONSTRUCTED OF POLYETHYLENE OR EQUIVALENT MATERIAL ACCEPTABLE TO THE MANUFACTURER. FILTRATION MEDIA SHALL BE ARRANGED IN A SPIRAL LAYERED FASHION TO MAXIMIZE AVAILABLE FILTRATION AREA. AN ORIFICE PLATE SHALL BE SUPPLIED WITH EACH CARTRIDGE TO RESTRICT THE FLOW RATE TO A MAXIMUM OF 45 GPM.

D. FILTER MEDIA: FILTER MEDIA SHALL BE BY BAYSAVER TECHNOLOGIES LLC AND SHALL CONSIST OF THE FOLLOWING MIX: A BLEND OF ZEOLITE, PERLITE AND ACTIVATED ALUMINA.

E. PRECAST CONCRETE VAULT: CONCRETE STRUCTURES SHALL BE PROVIDED ACCORDING TO ASTM C. THE MATERIALS AND STRUCTURAL DESIGN OF THE PRECAST SHALL BE PER ASTM C478, C857 AND C858. PRECAST CONCRETE SHALL BE PROVIDED BY BAYSAVER TECHNOLOGIES, LLC.

PERFORMANCE

A. THE STORMWATER FILTER SYSTEM SHALL BE AN OFFLINE DESIGN CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT THE SITE DESIGN ENGINEER'S DISCRETION.

B. THE STORMWATER FILTER SYSTEM'S CARTRIDGES SHALL HAVE NO MOVING PARTS.

C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 87% OF SUSPENDED SOLIDS (TCEQ REGULATORY GUIDANCE 346), TOTAL PHOSPHORUS, TURBIDITY, TOTAL COPPER, AND ZINC BASED UPON LOCAL APPROVALS AND INDEPENDENT TESTING.

D. THE STORMWATER FILTRATION CARTRIDGE SHALL BE EQUIPPED WITH A HYDRODYNAMIC BACKWASH MECHANISM TO EXTEND THE FILTER LIFE AND OPTIMIZE ITS PERFORMANCE.

E. THE STORMWATER FILTRATION SYSTEMS CARTRIDGES SHALL HAVE A TREATED SEDIMENT CAPACITY FOR 87% TSS REMOVAL OF 262 LBS FOR 545 AND 530 CARTRIDGES, AND 131 LBS FOR 522 CARTRIDGE.

BAYFILTER MAINTENANCE

THE BAYFILTER SYSTEM REQUIRES PERIODIC MAINTENANCE TO CONTINUE OPERATING AT ITS PEAK EFFICIENCY DESIGN. THE MAINTENANCE PROCESS COMPRISES THE REMOVAL AND REPLACEMENT OF EACH BAYFILTER CARTRIDGE AND THE CLEANING OF THE VAULT OR MANHOLE WITH A VACUUM TRUCK. FOR BEST RESULTS, BAYFILTER MAINTENANCE SHOULD BE PERFORMED BY A CERTIFIED MAINTENANCE CONTRACTOR. A QUICK CALL TO AN ADS ENGINEER OR CUSTOMER SERVICE REPRESENTATIVE WILL PROVIDE YOU WITH A LIST OF RELIABLE CONTRACTORS IN YOUR AREA.

WHEN BAYFILTER IS INITIALLY INSTALLED, WE RECOMMEND THAT AN INSPECTION BE PERFORMED ON THE SYSTEM IN THE FIRST SIX (6) MONTHS. AFTER THAT, THE INSPECTION CYCLE TYPICALLY FALLS INTO A BIANNUAL PATTERN GIVEN NORMAL STORM OCCURRENCE AND ACTUAL SOLIDS LOADS.

WHEN BAYFILTER EXHIBITS FLOWS BELOW DESIGN LEVELS, THE SYSTEM SHOULD BE INSPECTED AND MAINTAINED AS SOON AS PRACTICAL. REPLACING A BAYFILTER CARTRIDGE SHOULD BE CONSIDERED AT OR ABOVE THE LEVEL OF THE MANIFOLD.

MAINTENANCE PROCEDURES

1. REMOVE THE MANHOLE COVERS AND OPEN ALL ACCESS HATCHES.
2. BEFORE ENTERING THE SYSTEM MAKE SURE THE AIR IS SAFE PER OSHA STANDARDS OR USE A BREATHING APPARATUS. USE LOW O2, HIGH CO, OR OTHER APPLICABLE WARNING DEVICES PER REGULATORY REQUIREMENTS.
3. ALL CONFINED SPACE REGULATIONS AND WARNINGS SHOULD BE OBSERVED AND INSTALLED PRIOR TO ENTRY.
4. USING A SMALL LIFT ON THE BOOM OF THE VACUUM TRUCK, REMOVE THE USED CARTRIDGES BY LIFTING THEM OUT.
5. ANY CARTRIDGES THAT CANNOT BE EASILY LIFTED CAN BE EASILY SLID ALONG THE FLOOR TO A LOCATION THEY CAN BE LIFTED VIA A BOOM LIFT.
6. WHEN ALL THE CARTRIDGES HAVE BEEN REMOVED, IT IS NOW PRACTICAL TO REMOVE THE BALANCE OF THE SOLIDS AND WATER. LOOSEN THE STAINLESS CLAMPS ON THE EXTENDED SOUND PIPE FOR THE MANIFOLD AND REMOVE THE DRAWPIPES AS WELL. CAREFULLY CAP THE MANIFOLD AT THE STUBS OPENINGS AND REPLACE THE SOUND PIPE. PUMP AWAY THE BALANCE OF ANY REMAINING COLLECTED SOLIDS.
7. CLEAN THE MANIFOLD PIPES, DRAWPIPES, AND REINSTALL.
8. INSTALL THE EXCHANGE CARTRIDGES AND CLOSE ALL COVERS.
9. THE USED CARTRIDGES MUST BE SENT BACK TO ADS FOR EXCHANGE/RECYCLING AND CREDIT ON UNDAMAGED UNITS.

BAYFILTER INSTALLATION NOTES

1. CONTACT UTILITY LOCATOR TO MARK ANY NEARBY UNDERGROUND UTILITIES AND MAKE SURE IT IS SAFE TO EXCAVATE.
2. REFERENCE THE SITE PLAN AND STAKE OUT THE LOCATION OF THE BAYFILTER VAULT.
3. EXCAVATE THE HOLE, PROVIDING ANY SHEETING AND SHORING NECESSARY TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
4. LEVEL THE SUB-GRADE TO THE PROPER ELEVATION. VERIFY THE ELEVATION AGAINST THE MANHOLE DIMENSIONS, THE INVERT ELEVATIONS, AND THE SITE PLANS. ADJUST THE BASE AGGREGATE, IF NECESSARY.
5. PLACE THE PRECAST BAYFILTER VAULT ON THE PREPARED FOUNDATION FOR THE REQUIRED LOAD BEARING CAPACITY. ON SOLID SUB-GRADE, SET THE FIRST SECTION OF THE BAYFILTER PRE-CAST VAULT.
6. CHECK THE LEVEL AND ELEVATION OF THE FIRST SECTION TO ENSURE IT IS CORRECT BEFORE ADDING ANY RISER SECTIONS.
7. IF ADDITIONAL SECTION(S) ARE REQUIRED, ADD A WATERTIGHT SEAL TO THE FIRST SECTION OF THE BAYFILTER VAULT. SET ADDITIONAL SECTION(S) OF THE VAULT, ADDING A WATERTIGHT SEAL TO EACH JOINT.
8. INSTALL THE TOP SLAB OVER THE VAULT.
9. INSTALL THE PVC OUTLET PIPE IN BAYFILTER VAULT.
10. INSTALL THE INLET PIPE TO THE BAYFILTER VAULT.
11. AFTER THE SITE IS STABILIZED, REMOVE ANY ACCUMULATED SEDIMENT OR DEBRIS FROM THE VAULT AND INSTALL THE FLOW DISKS, DRAINDOWN MODULES (IF APPLICABLE), AND THE BAYFILTER CARTRIDGES.
12. PLACE FUEL SET OF HOLD DOWN BARS AND BRACKETS INTO PLACE.

PROPOSED LAYOUT

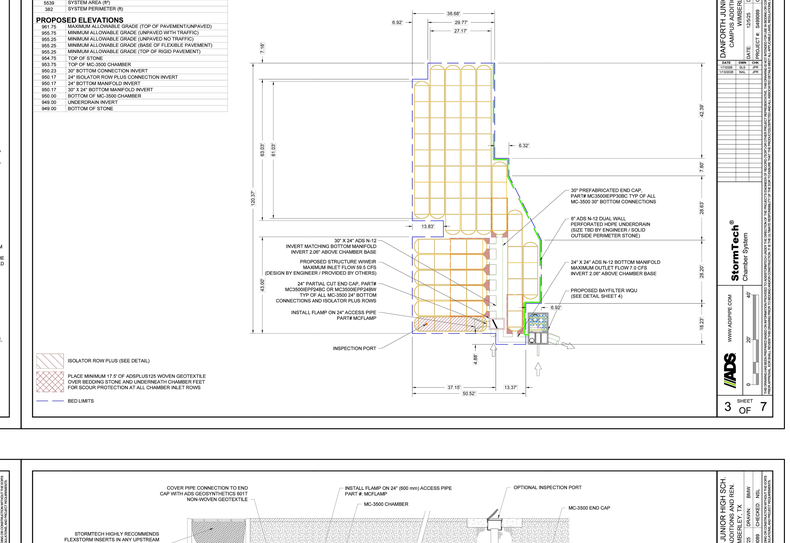
85	STORMTECH MC-3500 CHAMBERS
28	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
12	STONE BELOW (in)
40	% STONE VOID
15,098	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
5539	SYSTEM AREA (ft²)
382	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

961.75	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
955.75	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
955.25	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
955.25	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
955.25	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
954.75	TOP OF STONE
953.75	TOP OF MC-3500 CHAMBER
950.23	30" BOTTOM CONNECTION INVERT
950.17	24" ISOLATOR ROW PLUS CONNECTION INVERT
950.17	24" BOTTOM MANIFOLD INVERT
950.17	30" X 24" BOTTOM MANIFOLD INVERT
950.00	BOTTOM OF MC-3500 CHAMBER
949.00	UNDERDRAIN INVERT
949.00	BOTTOM OF STONE

NOTES

- THE SITE DESIGN ENGINEER MUST CONSIDER THE EFFECTS OF POSSIBLE SATURATED SOILS ON NEARBY SYSTEMS, INCLUDING BUT NOT LIMITED TO, RETAINING WALLS, SLOPE CONSTRUCTION/STABILITY, OR BUILDINGS/STRUCTURES. NO FOUNDATION LOADS SHALL BE TRANSMITTED TO THE CHAMBERS.



DANFORTH JUNIOR HIGH SCH. CAMPUS ADDITIONS AND REN. — WIMBERLEY, TX — 12525 — DRAWN: BMW — CHECKED: NDL — PROJECT #: 5490699

DATE	DWN	CHK
1/10/25	BMW	NDL
1/13/26	NDL	JS

StormTech® Chamber System — www.ADSPIPE.com — ADS

SHEET 3 OF 7

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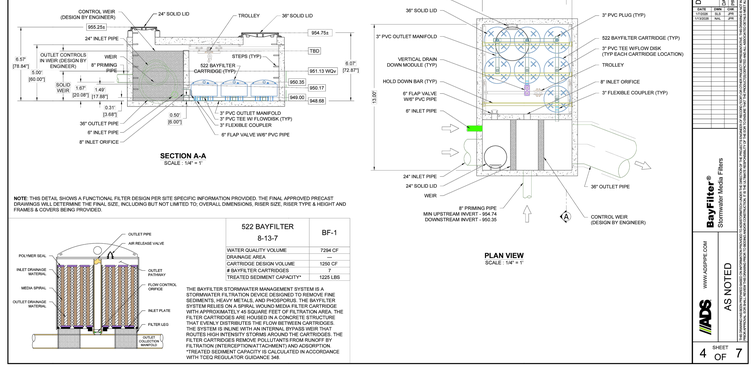


NOTE: THIS DETAIL SHOWS A FUNCTIONAL FILTER DESIGN PER SITE SPECIFIC INFORMATION PROVIDED. THE FINAL APPROVED PRECAST DRAWINGS WILL DETERMINE THE FINAL SIZE, INCLUDING BUT NOT LIMITED TO: OVERALL DIMENSIONS, RISER SIZE, RISER TYPE & HEIGHT AND FRAMES & COVERS BEING PROVIDED.

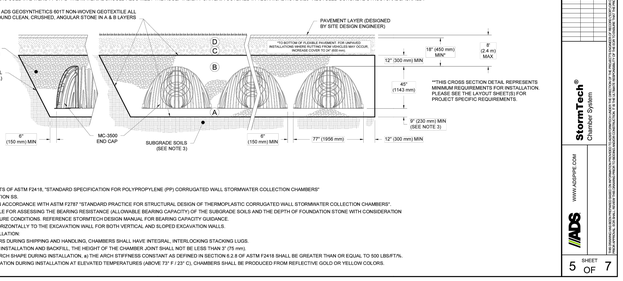
522 BAYFILTER 8-13-7	BF-1
WATER QUALITY VOLUME	7294 CF
DRAINAGE AREA	1250 CF
CARTRIDGE DESIGN VOLUME	7
# BAYFILTER CARTRIDGES	1225 LBS
TREATED SEDIMENT CAPACITY*	

THE BAYFILTER STORMWATER MANAGEMENT SYSTEM IS A STORMWATER FILTRATION DEVICE DESIGNED TO REMOVE FINE SEDIMENTS, HEAVY METALS, AND PHOSPORUS. THE BAYFILTER CONSISTS OF A CONCRETE STRUCTURE WITH INLET AND OUTLET PIPES WITH APPROXIMATELY 45 SQUARE FEET OF FILTRATION AREA. THE FILTER CARTRIDGES ARE HOUSED IN A CONCRETE STRUCTURE THAT EVENLY DISTRIBUTES THE FLOW BETWEEN CARTRIDGES. THE SYSTEM IS INLINE WITH AN INTERNAL BYPASS WEIR THAT DIVERTS EXCESS FLOWS AROUND THE FILTER CARTRIDGES. THE FILTER CARTRIDGES REMOVE POLLUTANTS FROM RUNOFF BY FILTRATION (INTERCEPTION/ATTACHMENT) AND ADSORPTION. *TREATED SEDIMENT CAPACITY IS CALCULATED IN ACCORDANCE WITH TCEQ REGULATOR GUIDANCE 348

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY REQUIRE PAVEMENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145* A-1, A-2-4, A-3 OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[3]	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[3]	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE INDICATED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3" (75 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTAN

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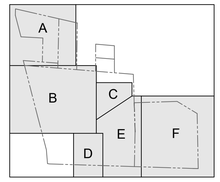
KEY MAP



N
W E
S

0 60' 120'
GRAPHIC SCALE 60'

LEGEND

- PROPERTY LINE
- WW — WASTEWATER LINE
- W — WATER LINE
- STORM DRAIN LINE
- WASTEWATER MANHOLE
- FDC
- FIRE HYDRANT
- STORM AREA INLET
- STORM MANHOLE
- OHE — EXISTING OVERHEAD POWER LINE
- W — EXISTING WATER LINE
- SS — 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.=972.86

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

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200 TEXAN BLVD, WIMBERLEY, TEXAS, 78676

Allison Kennaugh
STATE OF TEXAS
ALLISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

OVERALL STORM PLAN

SHEET NO.
C6.01

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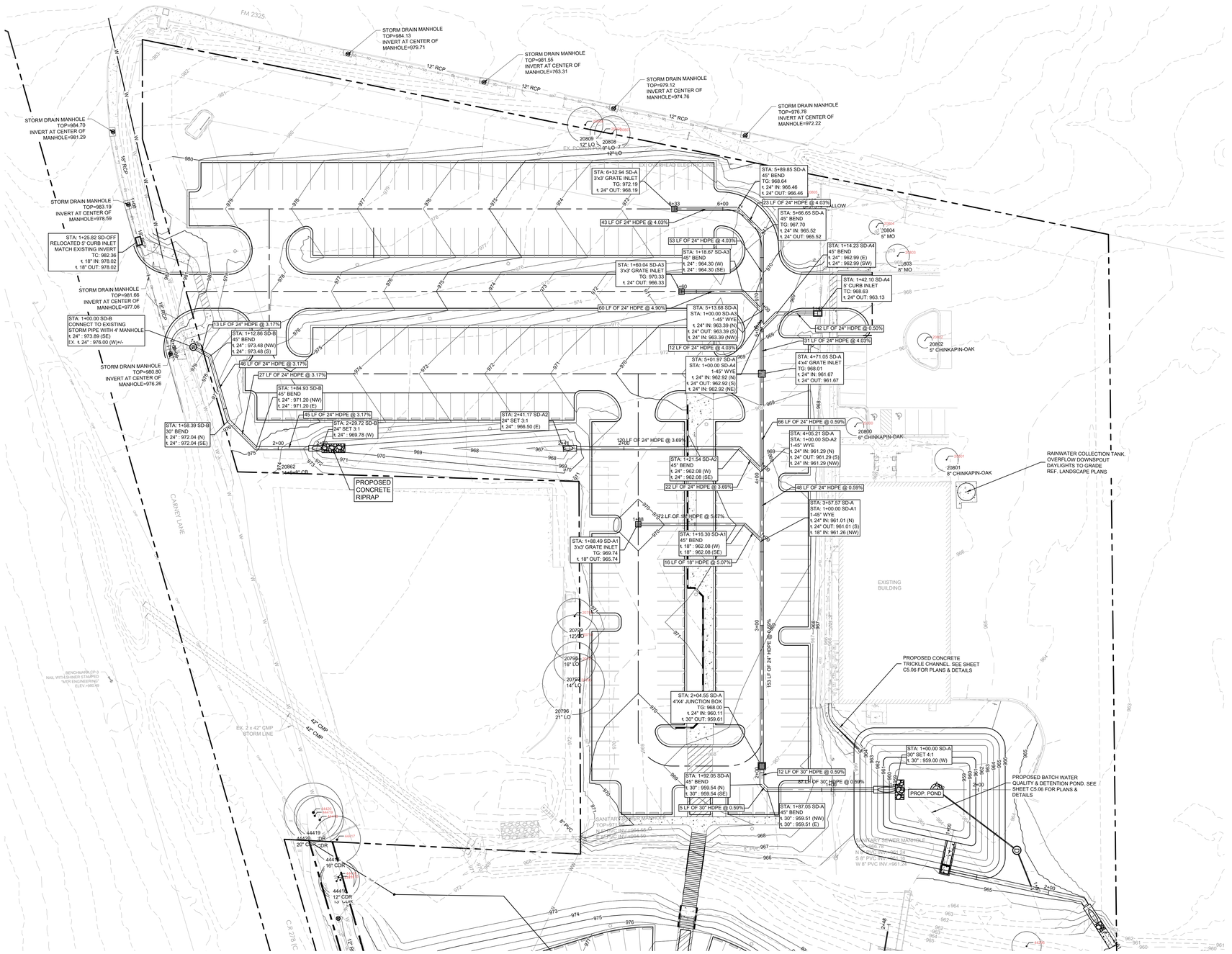

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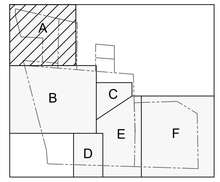

LEGEND

- 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

NOTES:

1. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND/OR CROSSINGS TWO WEEKS PRIOR TO CONSTRUCTION.
2. ALL EXISTING PUBLIC UNDERGROUND WATER AND WASTEWATER UTILITIES ARE APPROXIMATE AND SHOWN PER RECORD DRAWINGS.
3. ALL CLEANOUTS AND MANHOLES WITHIN PAVED AREAS SHALL HAVE HEAVY-DUTY TRAFFIC BEARING CASTING AND COVERS
4. PIPING OF VARYING DIAMETERS SHALL BE INSTALLED TO MATCH CROWN, UNLESS OTHERWISE NOTED.
5. ALL STORM PIPE SHALL BE WATERTIGHT HDPE UNLESS OTHERWISE NOTED.
6. UTILITY WORK ENCROACHING ON THE CRZ MUST BE INSTALLED USING LOW-IMPACT EXCAVATION METHODS, SUCH AS HAND DIGGING, COMPRESSED AIR, AND/OR BORING TECHNIQUES TO PREVENT DAMAGE TO SIGNIFICANT ROOTS THAT ARE 1.5" IN DIAMETER OR GREATER.
7. REFER TO GRADING PLAN FOR TOP OF GRATE ELEVATIONS FOR LANDSCAPE DRAINS.
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10. CONTRACTOR TO MATCH CENTERLINE OF PIPES FOR WYE CONNECTIONS UNLESS OTHERWISE NOTED.
11. CONTRACTOR TO PROVIDE 6" HDPE CONNECTIONS (@1% MINIMUM SLOPE) TO PROPOSED DOWNSPOUTS UNLESS OTHERWISE NOTED.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

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

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San Antonio
Houston

WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh
ALLISON KENNAUGH 114356 LICENSED PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM: KIMLEY-HORN & ASSOCIATES TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

STORM PLAN - AREA A

SHEET NO.
C6.02

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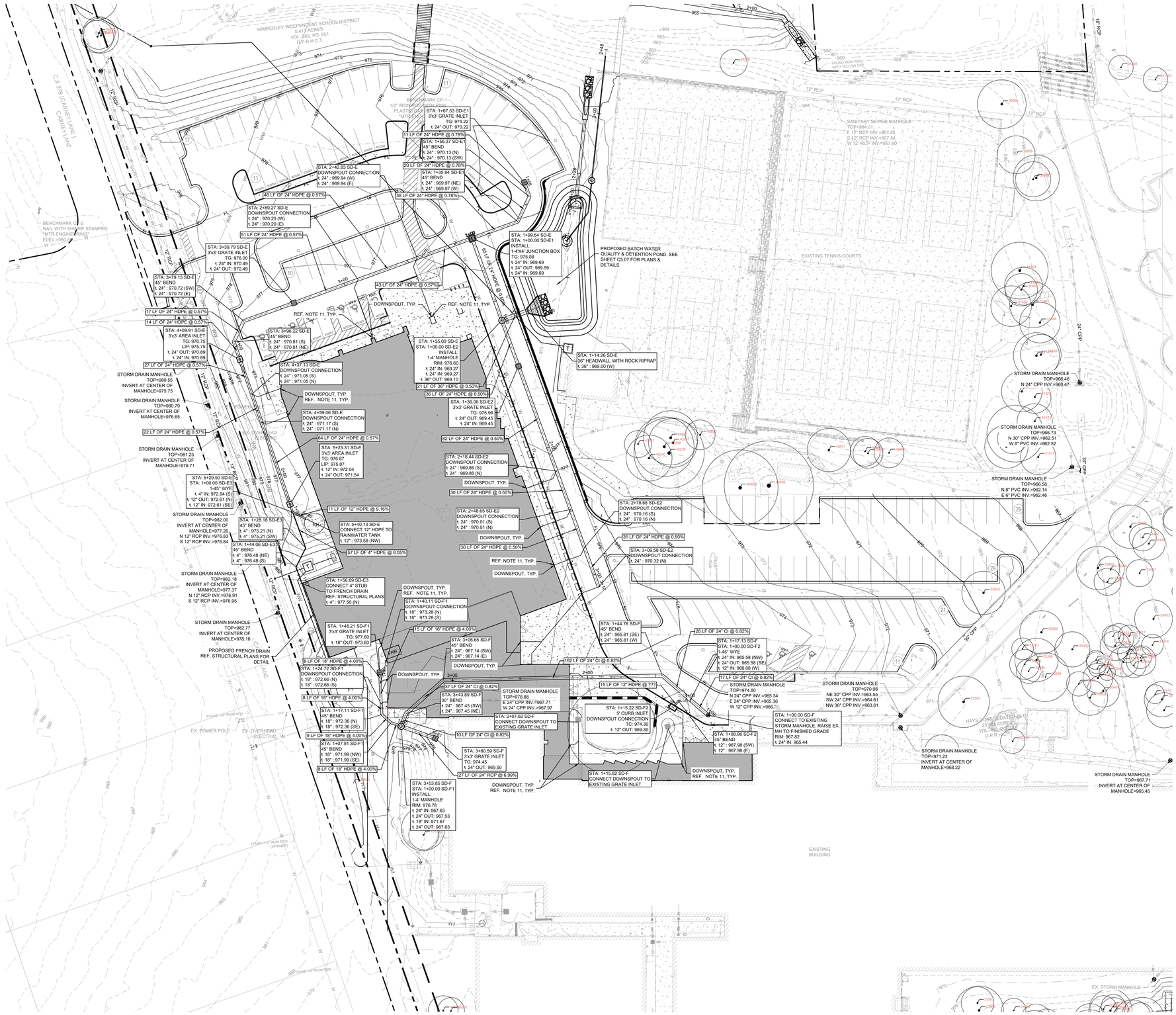

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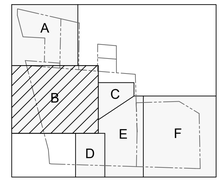
KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

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

NOTES:

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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

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Allison Kennaugh
ALLISON KENNAUGH
114356
LICENSED PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

STORM PLAN - AREA B

SHEET NO.
C6.03

Plotted By: Rondell, Zach Date: February 03, 2026 06:19:11pm File Path: K:\aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C-Storm Plan.dwg
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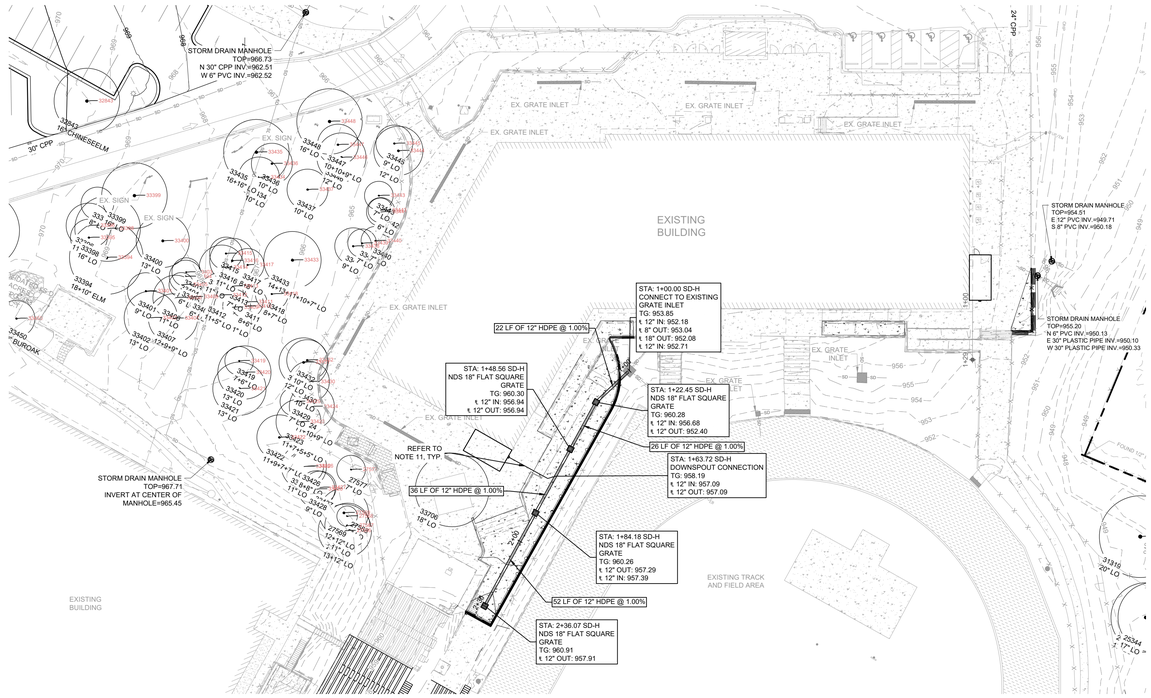
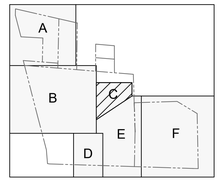


KEY MAP



0 30' 60'

GRAPHIC SCALE 30'

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

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BENCHMARKS

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ELEV.=972.86

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

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Allison Kennaugh
TEXAS
ALLISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

STORM PLAN - AREA C

SHEET NO.
C6.04

Plotted By: Randall, Zach Date: February 03, 2026 06:19:20pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plansheets\C-Storm Plan.dwg
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Plotted By:Rondell, Zach Date:February 03, 2026 06:19:30pm File Path:K:\Aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plansheets\C–Storm Plan.dwg
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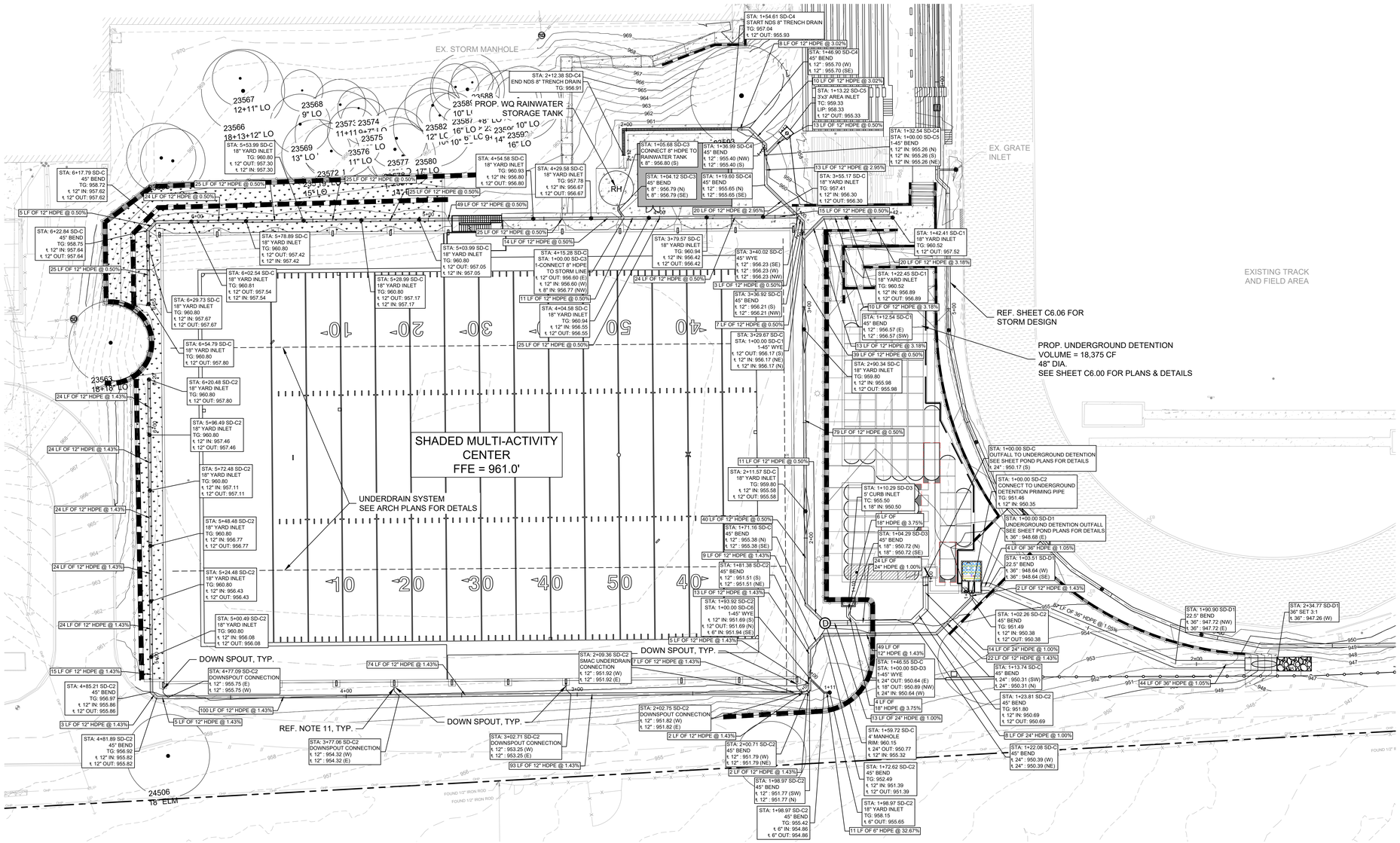

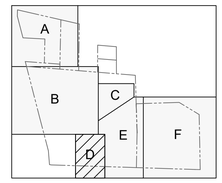

KEY MAP

N
W E
S

0 20' 40'
GRAPHIC SCALE 20'

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
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ELEV.=980.49

BMH4: NAIL WITH SHINER STAMPED "MTR ENGINEERING"
ELEV.=970.47

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ALISON KENNAUGH
114356
LICENSED PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN AND ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

STORM PLAN - AREA D

SHEET NO.
C6.05

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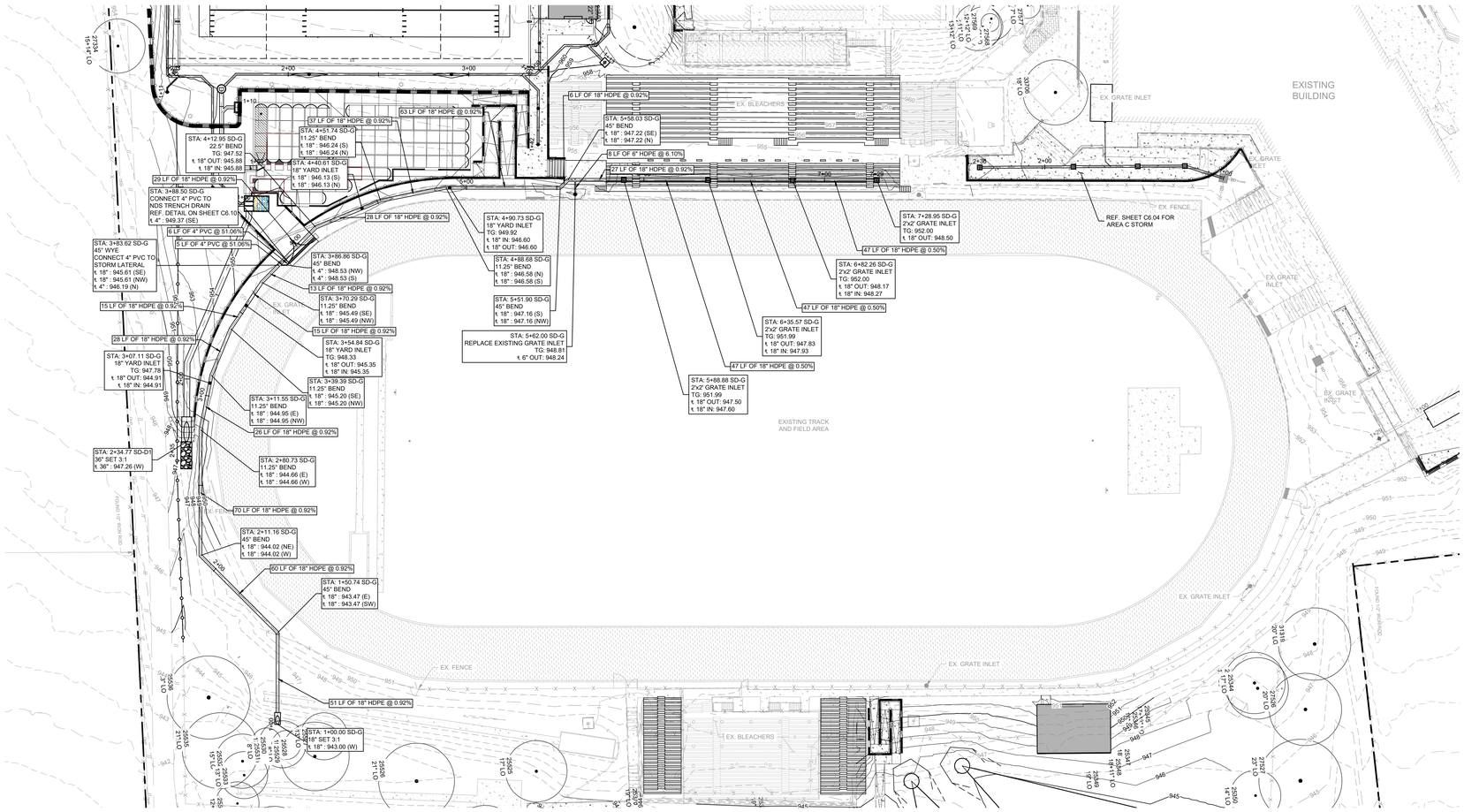
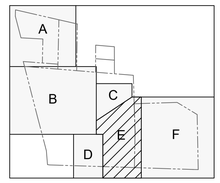


KEY MAP



LEGEND

- PROPERTY LINE
- WW — WASTEWATER LINE
- W — WATER LINE
- STORM DRAIN LINE
- WASTEWATER MANHOLE
- FDC
- FIRE HYDRANT
- STORM AREA INLET
- STORM MANHOLE
- OHE — EXISTING OVERHEAD POWER LINE
- W — EXISTING WATER LINE
- SS — EXISTING WASTEWATER LINE
- EXISTING STORM LINE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WASTEWATER MANHOLE
- EXISTING WASTEWATER CLEANOUT
- EXISTING STORM GRATE INLET
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STATE OF TEXAS
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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

STORM PLAN - AREA E

SHEET NO.
C6.06

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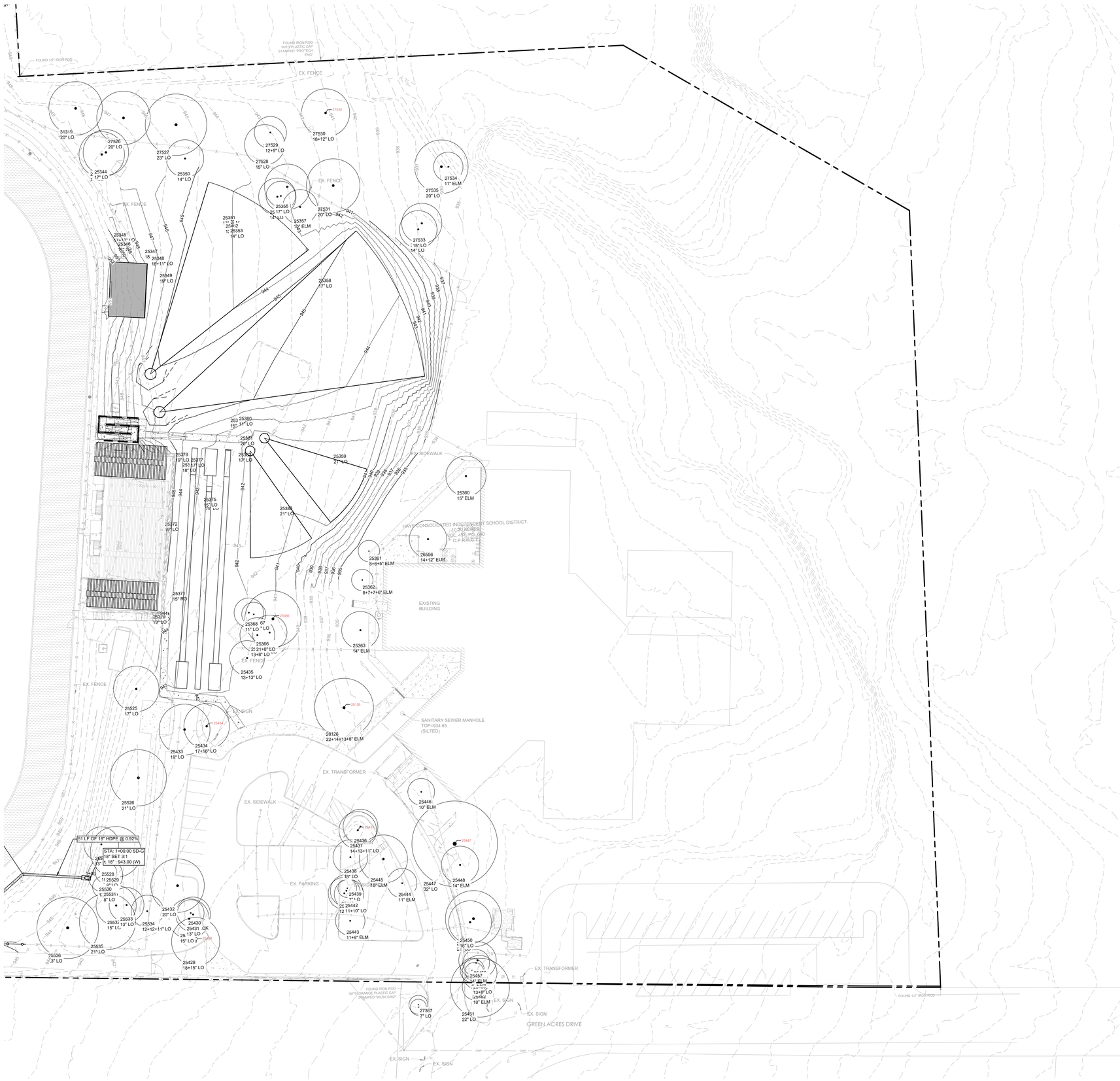
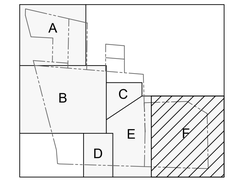


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

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
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11. CONTRACTOR TO PROVIDE 6" HDPE CONNECTIONS (@1% MINIMUM SLOPE) TO PROPOSED DOWNSPOUTS UNLESS OTHERWISE NOTED.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL" ELEV.=972.86

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

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O'CONNELL ROBERTSON
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4040 Broadway, Suite 300, San Antonio, Texas 78209 p: 210.224.4022 f: 210.224.6453
1001 Fannin Street, Suite 750, Houston, Texas 77002 p: 713.467.1888 f: 713.467.1573

WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78676

Allison Kennaugh
ALLISON KENNAUGH 114356 LICENSED PROFESSIONAL ENGINEER
CIVIL ENGINEERING FIRM: KIMLEY-HORN & ASSOCIATES TEXAS REGISTRATION NO. 928
2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

STORM PLAN - AREA F

SHEET NO.
C6.07

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Plotted By:Randall, Zach Date:February 03, 2026 06:20:12pm File Path:K:\aus_civil\068733904 — wimberley isd — danforth jhs\Civil\plansheets\C-Storm Drain Details.dwg

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Austin 811 Barton Springs Road, Suite 900, Austin, Texas 78704 p: 512.478.7284 f: 512.478.7441
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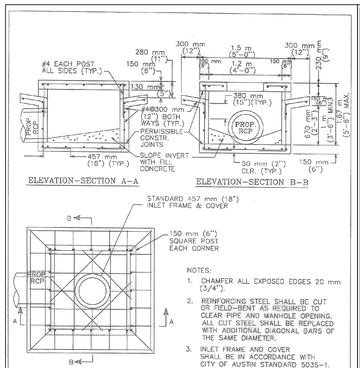
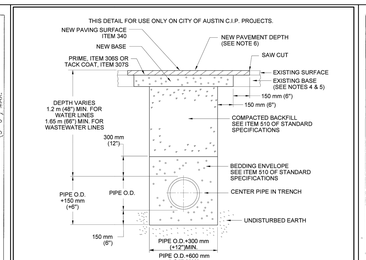
WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767



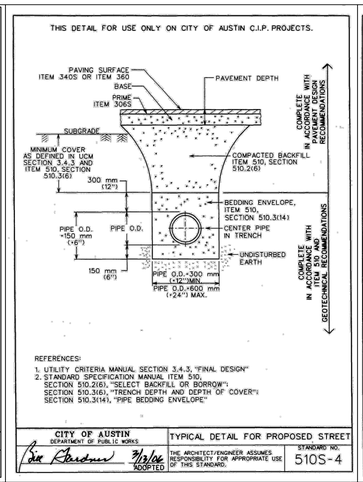
NOTES:
1. CHAMFER ALL EXPOSED EDGES 20 mm (3/4").
2. REINFORCING STEEL SHALL BE CUT ON FIELD–BENT AS REQUIRED TO CLEAR PIPE AND MANHOLE OPENING. ALL CUT STEEL SHALL BE REPLACED WITH ADDITIONAL DIAGONAL BARS OF THE SAME DIAMETER.
3. INLET FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD 503S–1.
4. CONCRETE COVERAGE OF STEEL SHALL BE 50 mm (2") MIN. AT ALL SURFACES.
5. ANY MODIFICATION TO THIS STANDARD SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	4–SIDED AREA INLET
ADOPTED: 1/18/2010 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S–9



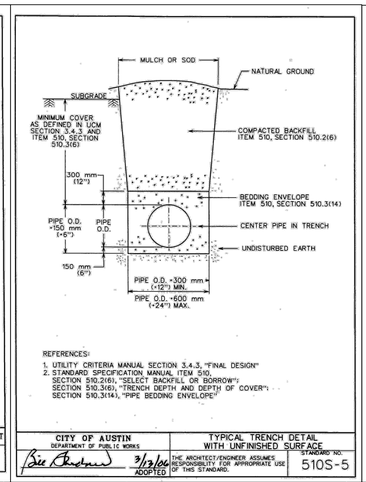
NOTES:
1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 300 mm (12") WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6") WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX ASPHALTIC CONCRETE.
4. ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OF EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 200 mm (10"), WHICHEVER IS GREATER.
5. ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 200 mm (8") OF BASE OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
6. SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 50 mm (2"), WHICHEVER IS GREATER.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	TYPICAL TRENCH WITH PAVED SURFACE
RECORD COPY SIGNED BY LEON BARBA 8/19/02 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.
	STANDARD NO. 510S–3 1 OF 1



REFERENCES:
1. UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
2. STANDARD SPECIFICATION MANUAL ITEM 510, SECTION 510.2(6), "SELECT BACKFILL OR BORROW"; SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER"; SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAIL FOR PROPOSED STREET
ADOPTED: 3/13/06 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S–4



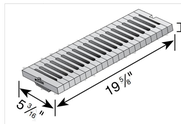
REFERENCES:
1. UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
2. STANDARD SPECIFICATION MANUAL ITEM 510, SECTION 510.2(6), "SELECT BACKFILL OR BORROW"; SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER"; SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL TRENCH DETAIL WITH UNFINISHED SURFACE
ADOPTED: 3/13/06 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S–5

PROJECT NAME: | FILE # TS_PS_SIN_LOADSTAR_SLOTTED_LOAD C

NDS We put water in its place

TECHNICAL SPECIFICATION



PART NUMBER	SIZE	SLOT WIDTH	LOAD CLASS	OPEN AREA FLOW RATE W/ 1/2" HEAD	WEIGHT	ADA	HEEL PROOF
829(LIGHT GRAY)	5-3/16" X 19-5/8" X 3/4"	3/8" X 5 3/4"	C	15.92 IN² / LINEAR FOOT 48.7 GPM / LF	5.8LBS	YES	NO

SPECIFICATION:

MATERIAL: HIGH IMPACT GLASS-REINFORCED NYLON

LOAD CLASS C— RECOMMENDED FOR HEAVY-DUTY PNEUMATIC TIRE FORKLIFTS AND TRACTOR-TRAILERS AT SPEEDS LESS THAN 20 MPH. H-20 RATED

REQUIRES #829 STAINLESS STEEL SCREWS (4 PER GRATE)

FITS 5" PRO SERIES CHANNEL

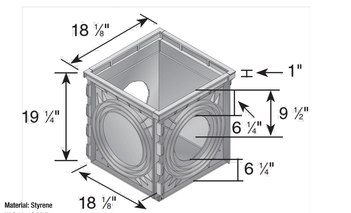
5" PRO SERIES GRATE

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE: designwors@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

TEMPLATE: QMS-TMP-8.3-05 Rev 1.0—3/24/2020

NDS WE PUT WATER IN ITS PLACE — **TECHNICAL SPECIFICATIONS**

18" EXPANDABLE CATCH BASIN



Material: Styrene
Weight: 16.00 lbs
Colors: Black
- 18" Expandable Catch Basin with 2 Openings (1800)
  Composed of 2 #1820, 2 #1822, 1 #1828
  Includes 2 #1890 Reducer Rings
- 18" One Piece Catch Basin with 4 Openings (1804)
  Includes 4 #1890 Reducer Rings

Requires either #1206, #1242, #1245, #1266, #1888, or #1889 universal outlet to connect pipe
Connections are soil tight, require water proof silicone to make connections water tight

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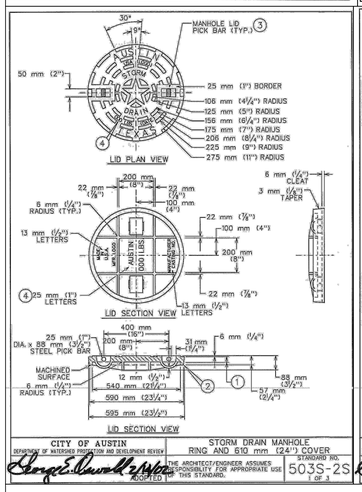
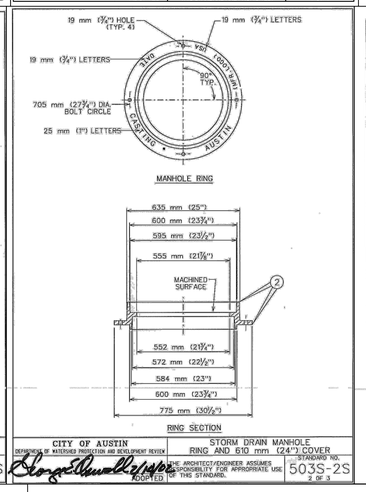
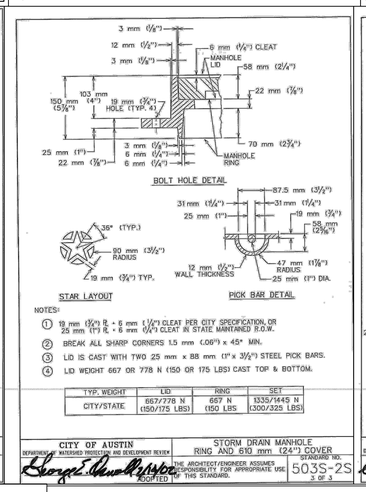


CITY OF AUSTIN WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STORM DRAIN MANHOLE RING AND 610 mm (24") COVER
ADOPTED: 1/18/2010 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S–2S 1 OF 3



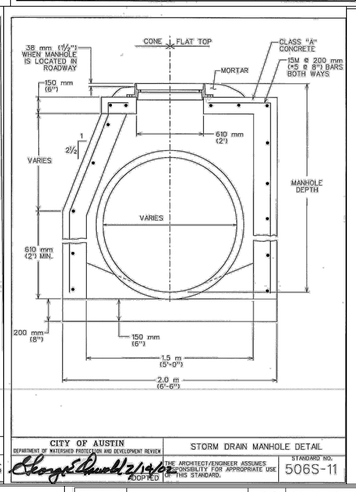
CITY OF AUSTIN WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STORM DRAIN MANHOLE RING AND 610 mm (24") COVER
ADOPTED: 1/18/2010 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S–2S 2 OF 3



NOTES:
1. 19 mm (¾") R + 6 mm (¼") CLEAT PER CITY SPECIFICATION, OR 25 mm (1") R + 6 mm (¼") CLEAT IN STATE MAINTAINED R.O.W.
2. BREAK ALL SHARP CORNERS 1.5 mm (.06") x 45° MIN.
3. LID IS CAST WITH TWO 25 mm x 88 mm (1" x 3½") STEEL PICK BARS.
4. LID WEIGHT 667 OR 778 N (150 OR 175 LBS) CAST TOP & BOTTOM.

TYP. WEIGHT	LID	RING	SET
CITY/STATE	667/778 N (150/175 LBS)	667 N (150 LBS	1335/1645 N (300/325 LBS)

CITY OF AUSTIN WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STORM DRAIN MANHOLE RING AND 610 mm (24") COVER
ADOPTED: 1/18/2010 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S–2S 3 OF 3

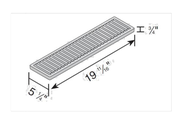


CITY OF AUSTIN WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STORM DRAIN MANHOLE DETAIL
ADOPTED: 2/14/22 — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S–11

PROJECT NAME: | FILE # TS_PS_SIN_DI_SLOTTED_CLASS C-823

NDS We put water in its place

TECHNICAL SPECIFICATION



PART NUMBER	SIZE	SLOT WIDTH	LOAD CLASS	OPEN AREA FLOW RATE W/ 1/2" HEAD	WEIGHT	ADA	HEEL PROOF
823	5-1/4" X 19-11/16 X 3/4"	1/16" X 3-9/16"	C	22.90 IN² / LINEAR FOOT 70 GPM / LF	12.30 LBS	YES	NO

SPECIFICATION:

MATERIAL: DUCTILE IRON

LOAD CLASS C— LOADS BETWEEN 176-325PSI, RECOMMENDED FOR HEAVY DUTY PNEUMATIC TIRE FORKLIFTS AND TRACTOR-TRAILERS AT SPEEDS LESS THAN 20 MPH. H-20 RATED.

REQUIRES #829 STAINLESS STEEL SCREWS (4 PER GRATE)

FITS 5" PRO SERIES CHANNEL

5" PRO SERIES GRATE

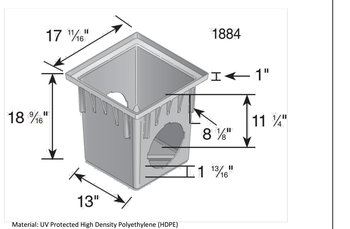
DUCTILE IRON "SLOTTED"

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com

Rev—05/04/2021

NDS WE PUT WATER IN ITS PLACE — **TECHNICAL SPECIFICATIONS**

18" ONE PIECE CATCH BASIN



Material: UV Protected High Density Polyethylene (HDPE)
Weight: 9.65 lbs
Colors: Black
- 18" One Piece Catch Basin with 2 Openings (1882)
  Includes 2 #1890 Reducer Rings
- 18" One Piece Catch Basin with 4 Openings (1884)
  Includes 4 #1890 Reducer Rings

Requires either #1206, #1242, #1245, #1266, #1888, or #1889 universal outlet to connect pipe

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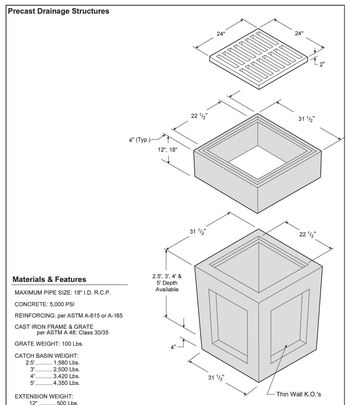
Precast Drainage Structures



Materials & Features

MAXIMUM PIPE SIZE: 18" I.D. R.C.P.

CONCRETE: 5,000 PSI

REINFORCING: per ASTM A-615 or A-185

CAST IRON FRAME & GRATE per ASTM A-48, Class 30/35

GRATE WEIGHT: 100 Lbs.

CATCH BASIN WEIGHT:
2.5'.....1,580 Lbs.
3'.....2,500 Lbs.
4'.....3,420 Lbs.
5'.....4,350 Lbs.

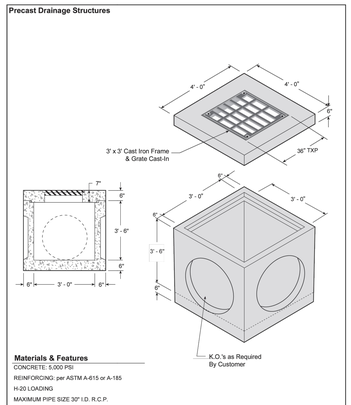
EXTENSION WEIGHT:
12".....500 Lbs.
18".....750 Lbs.

-No Scale-
All dimensions subject to allowable specification tolerances.

TITLE	PLANT	STATE	SECTION-PAGE	DATE
#24 Catch Basin	Grand Prairie Houston	TX	8.5	Feb 2016

FORTERRA

Precast Drainage Structures



Materials & Features

CONCRETE: 5,000 PSI

REINFORCING: per ASTM A-615 or A-185

H-20 LOADING

MAXIMUM PIPE SIZE 30" I.D. R.C.P.

TOP SLAB WEIGHT: 1,180 Lbs.

JUNCTION BOX WEIGHT: 4,810 Lbs.

EXTENSION SECTIONS AVAILABLE

-No Scale-
All dimensions subject to allowable specification tolerances.

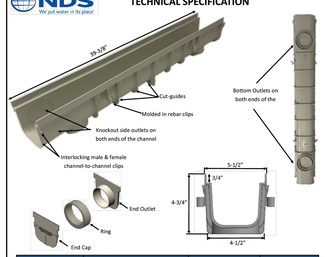
TITLE	PLANT	STATE	SECTION-PAGE	DATE
3' x 3' Standard Catch Basin	Grand Prairie	TX	8.9	Feb 2016

FORTERRA

PROJECT NAME: | FILE # TS_PS_SIN_CHANNEL_KIT-864

NDS We put water in its place

TECHNICAL SPECIFICATION



PART NUMBER	SIZE	MATERIAL	WEIGHT
864	5-1/2" X 4-3/4" X 39-3/8"	POLYPROPYLENE W/ UV INHIBITORS	3.03LBS

SPECIFICATION:
- 5" WIDE DEEP PROFILE CHANNEL DRAIN WITH MECHANICAL INTERLOCKING JOINTS.
- INTEGRATED KNOCKOUT BOTTOM OUTLETS THAT FIT 3" AND 4" SEWER AND DRAIN FITTINGS
- SIDE OUTLET KNOCKOUTS THAT FIT 3" SEWER AND DRAIN PIPE
- MOLDED REBAR CLIPS TO FIT #4 (1/2") REBAR

KIT INCLUDES:
- CHANNEL #800 (QTY. 1)
- LIGHT GRAY PLASTIC GRATE #814 (QTY. 2)
- END CAP #812 (QTY. 1)
- END OUTLET WITH RING #813 (QTY. 1)
- GRATE SCREWS #829 (QTY. 8)

5" PRO SERIES CHANNEL DRAIN KIT WITH PLASTIC GRATE—#864

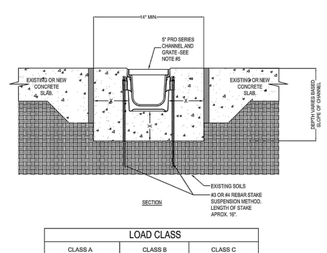
FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE: designwors@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

Rev—07/29/2022

PROJECT NAME: | FILE # ID_PS_SIN_CONCRETE

NDS We put water in its place

INSTALLATION DETAIL



SECTION

LOAD CLASS		
CLASS A PEDESTRIAN 15 kN/3375 LBS	CLASS B LIGHT DUTY 125 kN/28,000 LBS	CLASS C MEDIUM DUTY 250 kN/56,000 LBS
X = 4"	X = 4"	X = 6"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. EXCAVATION AND CONSTRUCTION OF PITS, JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND SURROUNDING CONCRETE. CONSULT WITH AN ENGINEER NECESSARY.
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI AND VIBRATION TO ELIMINATE AIR POCKETS IS RECOMMENDED.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS AND CONTRACTORS FOR PLANNING PURPOSES.
5. NDS RECOMMENDS GRATE 1/8" FOR PEDESTRIAN TRAFFIC/14" FOR VEHICULAR TRAFFIC.
6. DRAWING IS NOT TO SCALE.

5" PRO SERIES INSTALLATION

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE: designwors@ndspro.com
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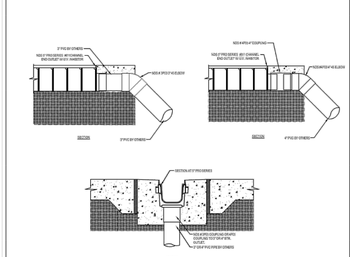
SAVE DATE: 9/9/2021 10:15 AM — TEMPLATE: QMS-TMP-8.3-05 REV 1.0 - 3/24/2020

PROJECT NAME: | FILE # ID_PS_SIN_OUTLETS

NDS We put water in its place

INSTALLATION DETAIL


5" PRO SERIES CHANNEL AND GRATE
NDS 6 #PCS-P SIDE/PCS
NDS 6" PRO SERIES ADJ. CHANNEL AND OUTLET W/ RING #6813
#3 OR #4 REBAR STAKE SUSPENSION METHOD. LENGTH OF STAKE APROX. 19".
#3 OR #4 REBAR STAKE SUSPENSION METHOD. LENGTH OF STAKE APROX. 19".
#3 OR #4 REBAR STAKE SUSPENSION METHOD. LENGTH OF STAKE APROX. 19".
#3 OR #4 REBAR STAKE SUSPENSION METHOD. LENGTH OF STAKE APROX. 19".
NDS 6 #PCS-P SIDE/PCS
NDS 6 #PCS-P SIDE/PCS
NDS 6 #PCS-P SIDE/PCS

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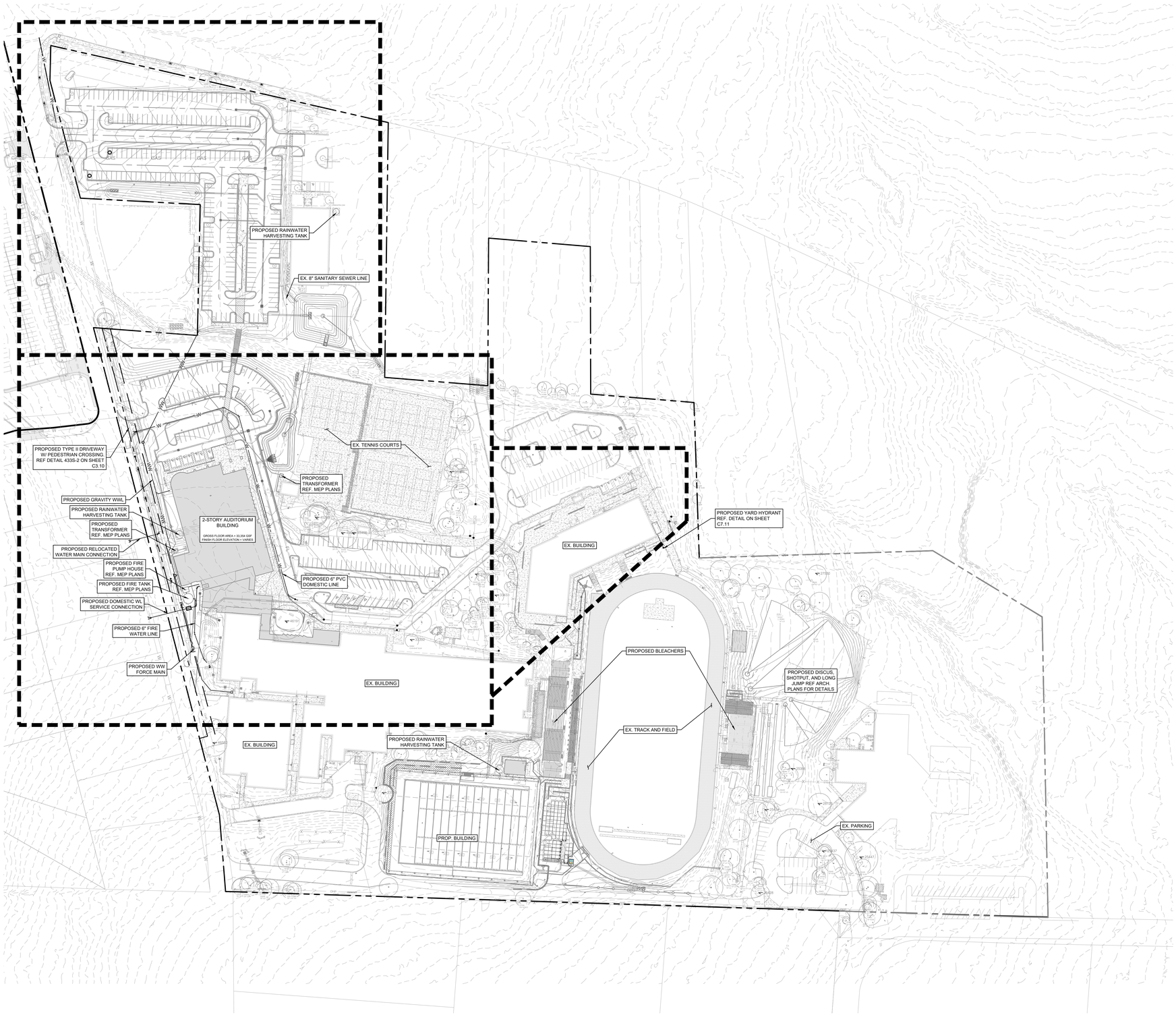
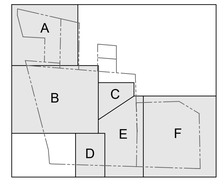


KEY MAP



N
W E
S

0 60' 120'
GRAPHIC SCALE 60'

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.=972.86

BM #2: NAIL WITH SHINER STAMPED "MTR ENGINEERING"
ELEV.=980.56

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ELEV.=980.49

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

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4040 Broadway, Suite 300, San Antonio, Texas 78209 p: 210.224.4033 f: 210.224.6453
1301 Fannin Street, Suite 750, Houston, Texas 77002 p: 713.467.1888 f: 713.467.1573
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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

ALLISON KENNAUGH
114356
LICENSED PROFESSIONAL ENGINEER
2/5/2026

CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

OVERALL UTILITY PLAN

SHEET NO.
C7.00

Plotted By: Randall, Zach Date: February 03, 2026 06:46:06pm File Path: K:\aus_civil\068733904 - wimberley isd - danforth jh\Cad\plansheets\C-Overall Sheets.dwg
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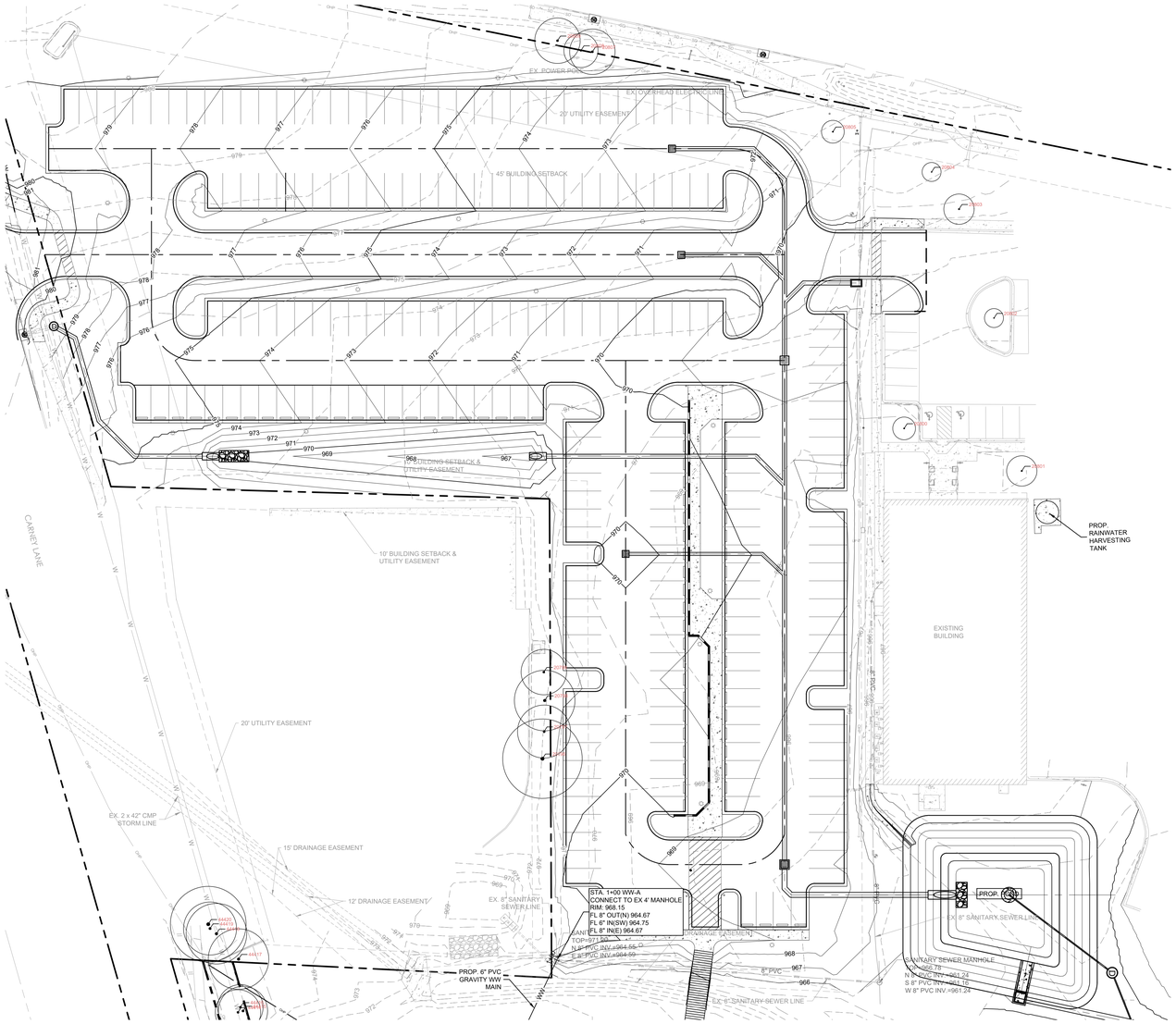
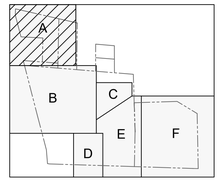


KEY MAP



LEGEND

- PROPERTY LINE
- WW — WASTEWATER LINE
- W — WATER LINE
- STORM DRAIN LINE
- WASTEWATER MANHOLE
- FDC
- FIRE HYDRANT
- STORM AREA INLET
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- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
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DANFORTH JUNIOR HIGH SCHOOL CAMPUS
ADDITIONS & RENOVATIONS

200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kennaugh

STATE OF TEXAS
ALLISON KENNAUGH
114356
LICENSED
PROFESSIONAL ENGINEER

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

UTILITY PLAN - AREA A

SHEET NO.
C7.01

Plotted By: Randall, Zach Date: February 03, 2026 06:21:15pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plotsheets\C-Overall Water Plan.dwg
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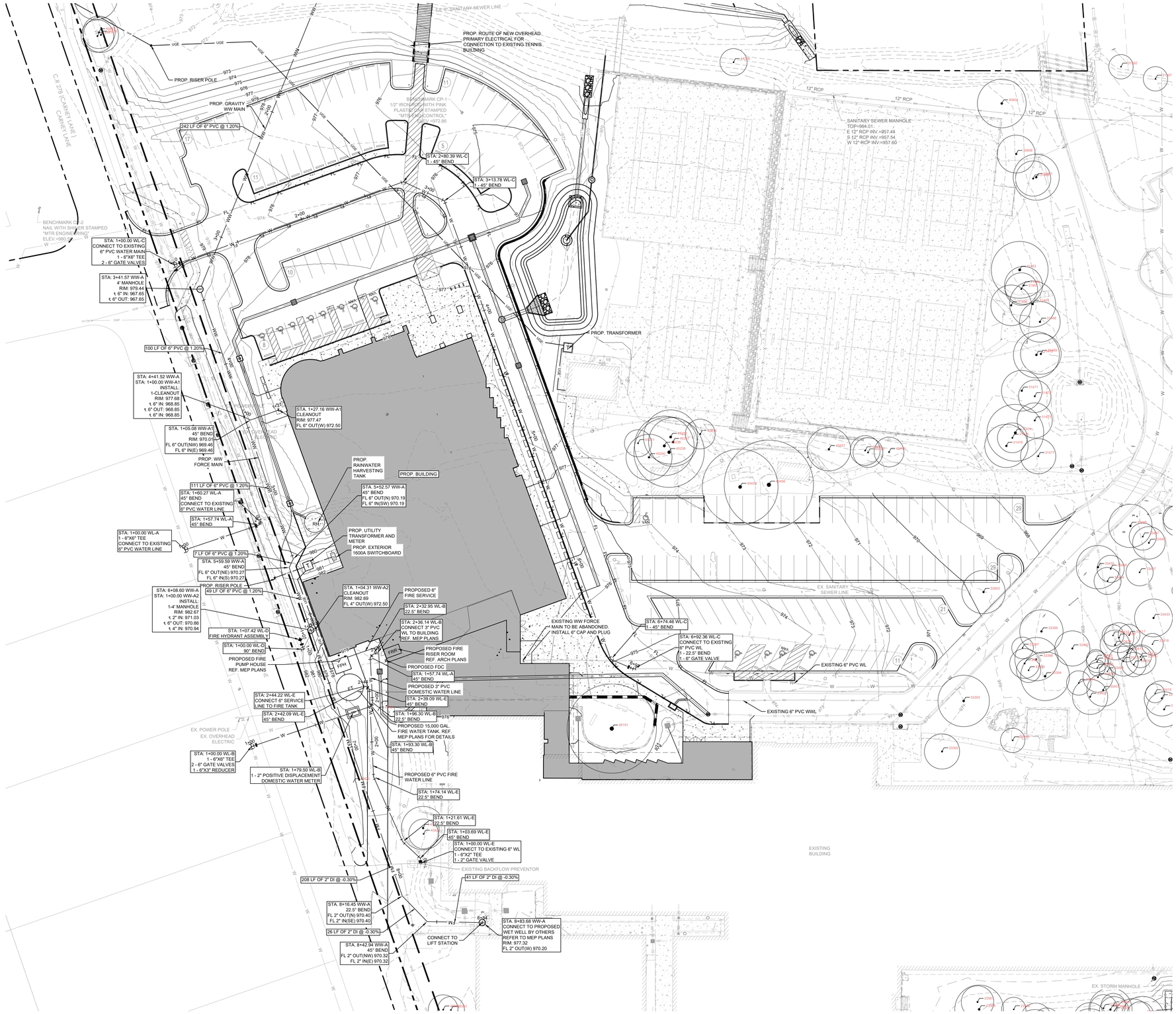
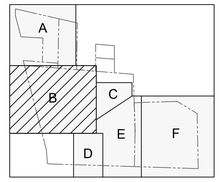


KEY MAP



N
W E
S

0 30' 60'
GRAPHIC SCALE 30'

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Allison Kennaugh
ALLISON KENNAUGH 114356 LICENSED PROFESSIONAL ENGINEER
2/5/2026
CIVIL ENGINEERING FIRM: KIMLEY-HORN & ASSOCIATES TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

UTILITY PLAN - AREA B

SHEET NO.
C7.02

Plotted By: Randall, Zach Date: February 03, 2026 06:21:23pm File Path: K:\aus_civil\068733904 — wimberley isd — danforth jhs\Cad\plansheets\C-Overall Water Plan.dwg
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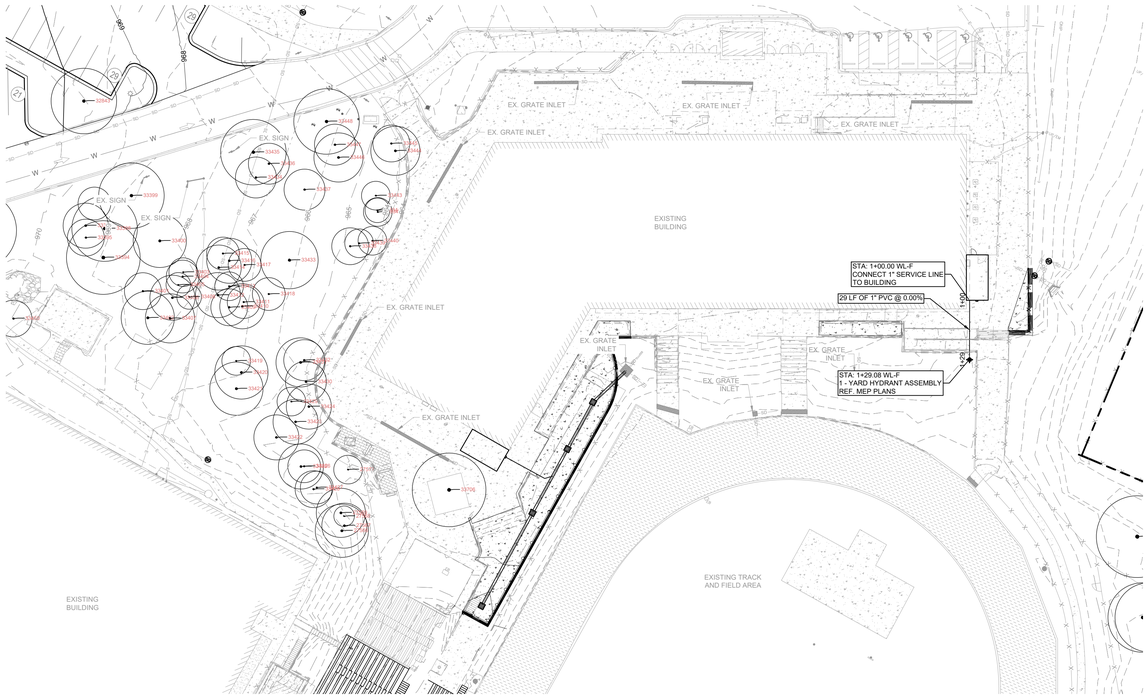
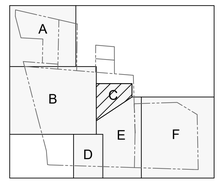


KEY MAP



0 30' 60'

GRAPHIC SCALE 30'

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CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

UTILITY PLAN - AREA C

SHEET NO.
C7.03

Plotted By: Bondell, Zach Date: February 03, 2026 06:21:28pm File Path: K:\Aus_civil\068733904 – wimberley isd – danforth jhs\Cad\plotsheets\C-Overall Water Plan.dwg
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Plotted By: Randall, Zach Date: February 03, 2026 06:21:53pm File Path: K:\ous_civil\068733904 – wimberley isd – danforth jhs\Civil\plansheets\C–Utility Details.dwg
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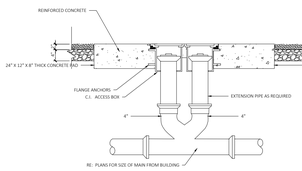
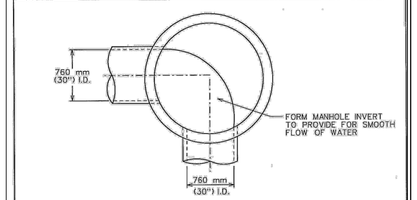
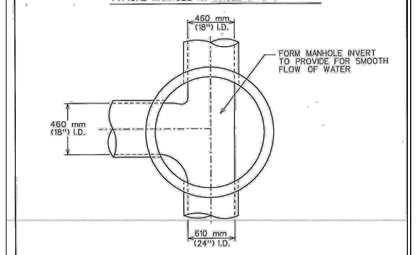


PRIVATE DOUBLE CLEAN OUT DETAIL

SCALE: N.T.S.

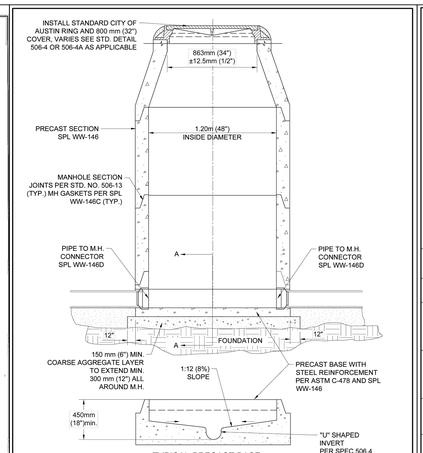


TYPICAL MANHOLE AT ANGLE IN STORM DRAIN



TYPICAL JUNCTION MANHOLE

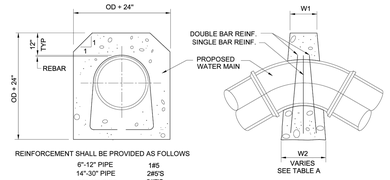
CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	MANHOLE INVERT PLAN
George E. Lowe 2/14/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. — STANDARD NO. 506S-1



TYPICAL PRECAST BASE

NOTE:
1. THE MANHOLE BASE SHALL BE BEDDED ON 150 mm (6") COARSE AGGREGATE. THE CONTRACTOR SHALL LEVEL AND PLUMB THE BASE PRIOR TO SETTING THE PRECAST MANHOLE RISER SECTIONS ON THE PRECAST CONCRETE BASE.
2. MH FOUNDATION SHALL MEET OR EXCEED STD. SPEC. 506.5B.

CITY OF AUSTIN AUSTIN WATER UTILITY	WASTEWATER MANHOLE ON PRECAST BASE
RECORD COPY SIGNED BY KATHI L FLOWERS — 08/31/2011 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 506S-10, 1 OF 1



REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS

6"-12" PIPE	1#5
14"-30" PIPE	2#5'S
36"-48" PIPE	2#7'S

VERTICAL DOWN BEND

TABLE A
UPWARD THRUST GRAVITY BLOCKS

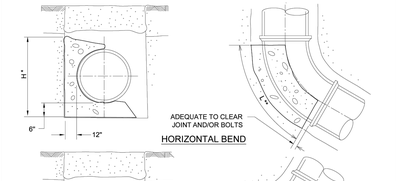
PIPE DIA.	MIN. TOP WIDTH W1	ANGLE (degrees)	BOTTOM WIDTH W2.(in)
6"	6"	0-5	NOTE 2
		5-15	24
		15-25	48
		> 25	NOTE 1
8"	6"	0-5	NOTE 2
		5-9	30
		9-15	36
		>15	NOTE 1
12"	6"	0-5	NOTE 2
		5-15	48
		> 15	NOTE 1
16"	12"	0-5	NOTE 2
		5-10	60
		10-15	96
		> 15	NOTE 1
24" THRU 36" DIA.		>5.0	NOTE 1
42" THRU 48" DIA.		>3.0	NOTE 1

NOTES:
1- FOR ANGLES GREATER THAN THOSE INDICATED RESTRAINED JOINTS SHALL BE INSTALLED
2- FOR JOINT DEFLECTIONS LESS THAN 5 DEGREES, NO HORIZONTAL OR VERTICAL THRUST RESTRAINT IS REQUIRED FOR PIPES LESS THAN 42" IN DIAMETER.

THRUST BLOCK DESIGN AS FOLLOWS
A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER) + 50 % SURGE ALLOWANCE
B. MAXIMIM SOIL BEARING SEE TABLE BELOW

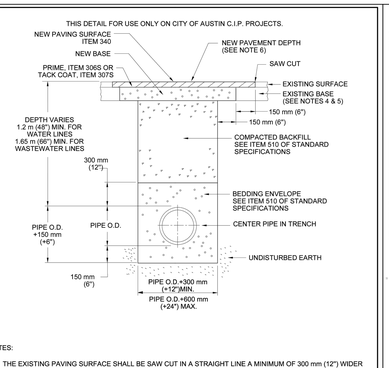
SOIL TYPES	PRESSURE
LOOSE OR SPONGY SOIL	1500 Lb/Sq.Ft.
UNDISTURBED SOIL, CALICHE	2000 Lb/Sq.Ft.
LIMESTONE ROCK	4000 Lb/Sq.Ft.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE THRUST BLOCKING
RECORD COPY SIGNED BY JAMES E. THOMPSON — 2/11/86 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 510-6, 1 OF 2



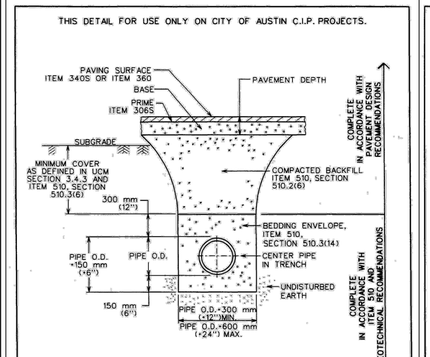
* THE DIMENSION FOR "H" MUST BE GREATER THAN DIAMETER OF THE PIPE
** LENGTH "L" ALONG THE BEND MUST BE GREATER THAN "H" AND LESS THAN 2 TIMES "H"

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE THRUST BLOCKING
RECORD COPY SIGNED BY JAMES E. THOMPSON — 2/11/86 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 510-6, 2 OF 2



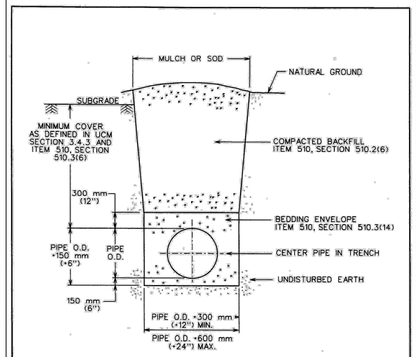
NOTES:
1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 300 mm (12") WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6") WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX ASPHALTIC CONCRETE.
4. ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OF EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 250 mm (10"), WHICHEVER IS GREATER.
5. ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 200 mm (8") OF BASE OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
6. SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 50 mm (2"), WHICHEVER IS GREATER.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	TYPICAL TRENCH WITH PAVED SURFACE
RECORD COPY SIGNED BY LEON BARBA — 8/19/02 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 510S-3, 1 OF 1



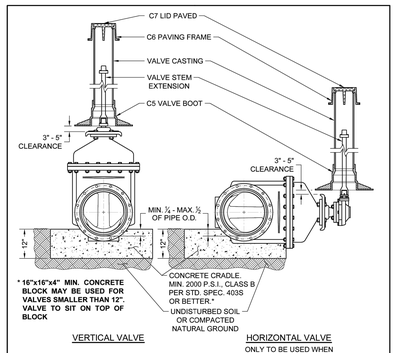
REFERENCES:
1. UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
2. STANDARD SPECIFICATION MANUAL ITEM 510, SECTION 510.2(6), "SELECT BACKFILL OR BORROW"; SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER"; SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAIL FOR PROPOSED STREET
Sue Bardwell 3/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. — STANDARD NO. 510S-4



REFERENCES:
1. UTILITY CRITERIA MANUAL SECTION 3.4.3, "FINAL DESIGN"
2. STANDARD SPECIFICATION MANUAL ITEM 510, SECTION 510.2(6), "SELECT BACKFILL OR BORROW"; SECTION 510.3(6), "TRENCH DEPTH AND DEPTH OF COVER"; SECTION 510.3(14), "PIPE BEDDING ENVELOPE"

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL TRENCH DETAIL WITH UNFINISHED SURFACE
Sue Bardwell 3/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. — STANDARD NO. 510S-5



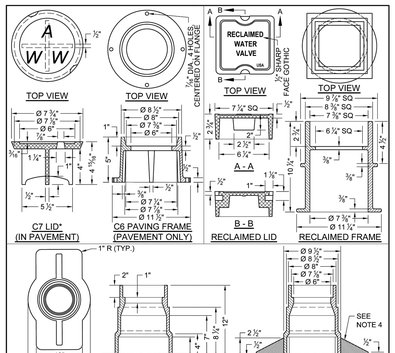
VERTICAL VALVE

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

NOTES:
1. WELD SOCKET 2½" x 2" DEEP TO 1" SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT. [SCH. 80 FOR LENGTHS OVER 10']
2. VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.
3. NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2" LONG WELDED TO TOP OF ROD.
4. 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 WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

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

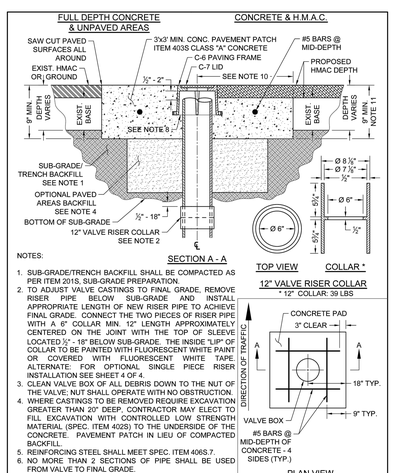


NOTES:
1. MATERIAL SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
2. THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER, AND THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH LID, FRAME, COLLAR AND BASE.
3. DRAFT AND SHRINKAGE ALLOWANCE SHALL BE IN ACCORDANCE WITH NORMAL FOUNDRY PRACTICE.
4. CASTING FINISH BY MANUFACTURER SHALL INCLUDE REMOVAL OF FINS 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 ½"
2 PICK BAR SLOTS REQUIRED

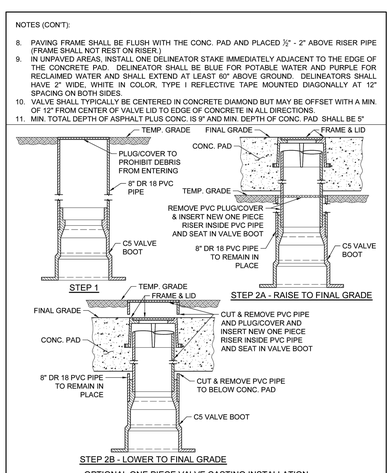
CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"
RECORD COPY SIGNED BY KATHI L FLOWERS — *05/18/2016* ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 511-AW-01, 2 OF 4



NOTES:
1. SUB-GRADE/TRENCH BACKFILL SHALL BE COMPACTED AS PER ITEM 201S, SUB-GRADE PREPARATION.
2. 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 ½" - 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.
3. CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE NUT OF THE VALVE; NUT SHALL OPERATE WITH NO OBSTRUCTION.
4. 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.
5. REINFORCING STEEL SHALL MEET SPEC. ITEM 406S.7.
6. NO MORE THAN 2 SECTIONS OF PIPE SHALL BE USED FROM VALVE TO FINAL GRADE.
7. BELL AND SPIGOT IS ACCEPTABLE FOR DEPTH OVER 18'.

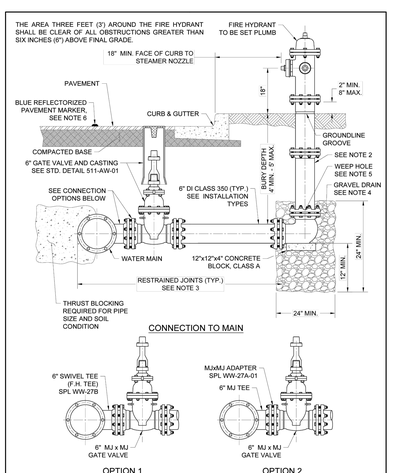
CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"
RECORD COPY SIGNED BY KATHI L FLOWERS — *05/18/2016* ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 511-AW-01, 3 OF 4

NOTES (CONT):
8. PAVING FRAME SHALL BE FLUSH WITH THE CONC. PAD AND PLACED ½" - 2" ABOVE RISER PIPE (FRAME SHALL NOT REST ON RISER.)
9. 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.
10. 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.
11. MIN. TOTAL DEPTH OF ASPHALT PLUS CONC. IS 9" AND MIN. DEPTH OF CONC. PAD SHALL BE 5"

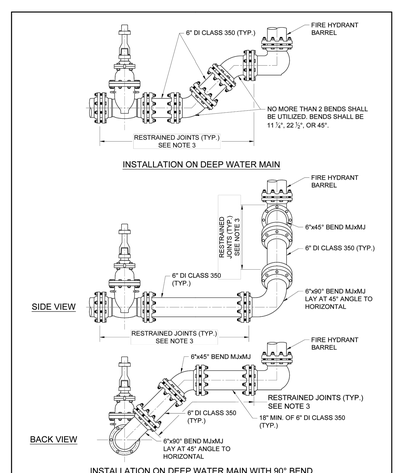


OPTIONAL ONE PIECE VALVE CASTING INSTALLATION

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



CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT ASSEMBLY
JEFF A. KYLE — 11/06/2023 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 511-AW-02, 1 OF 3



CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT ASSEMBLY
JEFF A. KYLE — 11/06/2023 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 511-AW-02, 2 OF 3

NOTES: APPLICABLE TO ALL INSTALLATION TYPES.
1. NO PART OF A HYDRANT OR ITS NOZZLE CAPS SHALL BE WITHIN 6" OF ANY SIDEWALK OR PEDESTRIAN RAMP. ANY FIRE HYDRANT PLACED NEAR A STREET CORNER SHALL BE LOCATED OUTSIDE THE CURVE RADIUS AND A MINIMUM OF 4' FROM RAMPS.
2. ONE BARREL EXTENSION NOT EXCEEDING 2' LENGTH MAY BE INSTALLED DIRECTLY BELOW THE FIRE HYDRANT IN ORDER TO MEET THE REQUIRED BURY DEPTH OF 4' - 5'. BREAK AWAY BOLTS (SHOE TYPES) SHALL BE PROPERLY SPACED AND PLACED.
3. FIRE LINE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO FIRE HYDRANT INCLUDING MJ RESTRAINT OF TEE AT THE MAIN. JOINTS SHOWN MAY VARY. SEE SPL WW-27A, WW-27A-01, AND WW-27B FOR RESTRAINT OPTIONS.
4. BELOW EACH HYDRANT, A DRAINAGE PIT 24" IN DIAMETER AND 12" DEEP SHALL BE EXCAVATED AND FILLED WITH COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH COARSE SAND UNDER AND AROUND THE BOWL OF THE HYDRANT, AND TO A LEVEL 12" ABOVE THE HYDRANT DRAIN OPENING (SEE STD. SPEC. 510). THE HYDRANT DRAINAGE PIT SHALL NOT BE CONNECTED TO A SANITARY SEWER. THE DRAIN GRAVEL SHALL BE COVERED WITH FILTER FABRIC PER STD. SPEC. 620.
5. WRAP 8 MIL. POLY-FILM WRAP ON ALL BURIED PIPE AND FITTINGS. CUT SLITS IN POLY-FILM WRAP AT BOOT TO ALLOW WATER TO ESCAPE FROM WEEP HOLES AND POLY-WRAP.
6. A BLUE TYPE II-B-B REFLECTORIZED PAVEMENT MARKER, CONFORMING TO STANDARD SPECIFICATION ITEM NO. 865S, SHALL BE PLACED 2 TO 3 FEET OFFSET FROM THE CENTERLINE OF PAVED STREETS, ON THE SIDE OF AND IN LINE WITH ALL NEWLY INSTALLED FIRE HYDRANTS.

CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT ASSEMBLY
JEFF A. KYLE — 11/06/2023 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED. — STANDARD NO. 511-AW-02, 3 OF 3

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WIMBERLEY ISD
DANFORTH JUNIOR HIGH CAMPUS ADDITIONS & RENOVATIONS
200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

Allison Kavanaugh
ALLISON KAVANAUGH
114356
LICENSED
PROFESSIONAL ENGINEER
2/5/2026
CIVIL ENGINEERING FIRM
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

UTILITY DETAILS (SHEET 1 OF 2)

SHEET NO.
C7.10

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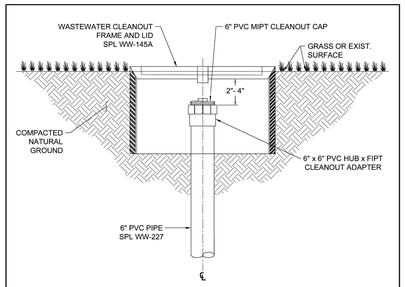
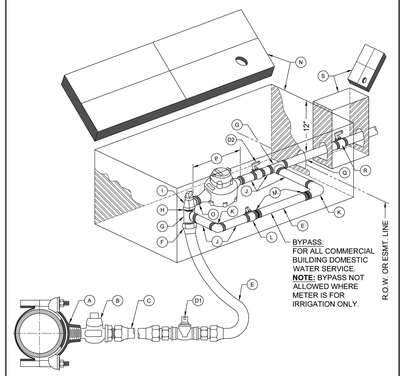


NOTE:

1. WASTEWATER CLEANOUT FRAME AND LID SHALL NOT BE PLACED IN PAVED AREAS, INCLUDING SIDEWALKS, DRIVEWAYS, OR PARKING LOTS, AND MUST BE LOCATED A MINIMUM OF 6" FROM ALL PAVED AREAS.

CITY OF AUSTIN AUSTIN WATER	WASTEWATER CLEANOUT FRAME AND LID	
JEFF A. KYLE *08/16/2019* ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-03 1 OF 1



CITY OF AUSTIN AUSTIN WATER	1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	
RECORD COPY SIGNED BY KATHI L FLOWERS *05/18/2016* ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-04 1 OF 2

MATERIALS LIST:

A. 2" SERVICE CLAMP
B. 2" CORPORATION STOP MALE THREAD INLET BY COMPRESSION OUTLET
C. 2" COPPER WATER SERVICE TUBING EXTENDED BEYOND PAVEMENT
D1. 2" BALL VALVE, SPL WW-275
D2. 2" BALL VALVE, SPL WW-275
E. 2" COPPER SERVICE TUBING
F. 2" BRASS COUPLING - COMPRESSION TO MALE IPT
G. 2" BRASS TEE
H. 2" BRASS CLOSE-NIPPLE
I. 2" ANGLE METER STOP; SERVICE TUBING INLET x FLANGED OUTLET
J. 2" BRASS NIPPLE
K. 2" BRASS ELBOW
L. 2" LOCKABLE CURB STOP - FEMALE IPT INLET BY COMPRESSION OUTLET
M. 2" BRASS COUPLING - SERVICE TUBING TO MALE IPT
N. RECTANGULAR METER BOX AND COVER, SPL WW-145A
O. BRASS ADAPTER (2" x 1 ½") FOR 1 ½" METER ONLY
P. WATER METER LENGTH 13", (PURCHASED FROM AUSTIN WATER)
Q. 2" COPPER SERVICE TUBING (PRIVATE PLUMBING PER CODE)
R. CUSTOMER CUT-OFF VALVE
S. CUSTOMER VALVE BOX AND LID

NOTES:

1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL POLYETHYLENE FILM.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF BOXES SHOULD BE 1" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D1" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 24" HORIZONTALLY FROM METER BOX OR 36" BELOW FINAL GRADE.
7. COPPER SERVICE SHALL BE COPPER TUBING SIZE ANNEALED SEAMLESS TYPE "K" MEETING ASTM B88 WITH NO SWEAT OR SOLDERED JOINTS.

RECLAIMED WATER:

FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED PURPLE TUBING. ALL OTHER TUBING AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL TUBING 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 WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	
RECORD COPY SIGNED BY KATHI L FLOWERS *05/18/2016* ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-04 2 OF 2

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TEXAS REGISTRATION NO. 928

2/5/2026

Revisions:

NO.	DESCRIPTION	DATE

2/5/2026
Project No. 2525.01
CONTRACT DOCUMENTS

UTILITY DETAILS
(SHEET 2 OF 2)

SHEET NO.
C7.11

Plotted By: Randall, Zach Date: February 03, 2026 06:22:05pm File Path: K:\aus_civil\068733904 - wimberley isd - danforth jhs\Civil\plansheets\C-Utility Details.dwg
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Attachment N

Inspection, Maintenance, Repair and Retrofit Plan

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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

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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 Pary:

Greg Bonewald

PILOT-SCALE FIELD TESTING PLAN

(NOT APPLICABLE)

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

(NOT APPLICABLE)

SECTION 4:
ADDITIONAL FORMS

Temprorary Stormwater Section

Additional Forms
TCEQ-0602

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: Allison Kennaugh, P.E.

Date: 1/19/2026

Signature of Customer/Agent:

Allison Kennaugh

Regulated Entity Name: DANFORTH JR HIGH 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:

   [X] The following fuels and/or hazardous substances will be stored on the site: diesel

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

   [X] 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:

[x] 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.

[x] 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.

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

[x] 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.

N/A [ ] **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.

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

9. [x] **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. [x] **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.

[X] 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.

    [X] N/A

12. [X] **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. [X] 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. [X] 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. [X] 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. [X] 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. [X] **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. [X] 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. [X] Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

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

21. [X] 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. [X] 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 (14.69 acres).

2. Installation of Temporary BMPs (up to 14.69 acres)

3. Wet and Dry Utility Construction (up to 3.25 acres)

4. Final Subgrade Preparation (up to 5.16 acres)

5. Installation of Base Materials (5.16 acres)

6. Concrete (foundations, curbs, flatwork) (2.69 acres)

7. Building Construction (1.75 acres)

8. Topsoil, Irrigation, and Landscaping (up to 4.0 Acres)

9. Site Cleanup and Removal of Temporary BMPs (up to 14.69 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 map 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

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Plotted By:Bondsti, Zach Date:January 20, 2026 09:11:38am File Path:K:\AUS_Civil\068733904 – Wimberley ISD – Danforth JHS\Civil\Plan Sheets\VC-Ex. Drainage Area Map.dwg

EXISTING CONDITIONS

LEGEND

NOTE:

1. NOAA ATLAS 14 DATA WAS USED TO CALCULATE THE EXISTING RAINFALL RUNOFF.

Danforth JHS

Existing Drainage Calculations - SCS Method

DRAINAGE AREA	AREA	AREA	IMPERVIOUS COVER	IMPERVIOUS COVER	PERVIOUS CURVE NO.	WEIGHTED CURVE NO.	SHEET FLOW				SHALLOW CONCENTRATED FLOW								CHANNEL FLOW								TOTAL Tc** (min)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
							P-2yr 24hr 4.13 IN				Grass Surface				Paved Surface				Pipe Flow												
	(sf)	(Ac.)	(sf)	%	Cn*	Cn*	N	L (ft)	S (ft/ft)	Tt(min)	L (ft)	V (fps)	S (ft/ft)	Tt(min)	L	V (fps)	S	Tt(min)	L (ft)	V (fps)	a (ft^2)	Pw (ft)	r	n	S (ft/ft)	Tt(min)					
EX DA-1	257,170	5.90	44,457	17.29%	80.00	83.11	0.15	50	0.024	**4.63**	733	2.5	0.024	**4.92**	112.87	2.49	0.015	**0.76**	-	-	-	-	-	-	-	**0.00**	**10.30**	19.42	37.97	53.43	81.98
EX DA-2	5,924	0.14	5,924	100.00%	80.00	98.00	0.15	57	0.014	**6.34**	-	-	-	**0.00**	-	-	-	**0.00**	441	2.6	0.2	1.6	0.13	0.013	0.009	**2.78**	**9.13**	0.68	1.12	1.48	2.15
EX DA-3	146,058	3.35	38,601	26.43%	80.00	84.76	0.15	50	0.029	**4.28**	515	2.7	0.029	**3.13**	-	-	-	**0.00**	-	-	0.2	1.6	0.13	0.013	-	**0.00**	**7.41**	13.38	25.60	35.52	53.79
EX DA-4	110,895	2.55	74,640	67.31%	80.00	92.12	0.15	52.5	0.071	**3.10**	-	-	-	**0.00**	327	2.49	0.015	**2.19**	-	-	0.2	1.6	0.13	0.013	-	**0.00**	**6.00**	12.60	21.82	29.24	42.94
EX DA-5	423,331	9.72	184,533	43.59%	80.00	87.85	0.15	50	0.027	**4.39**	29	4.9	0.091	**0.10**	520	3.34	0.027	**2.59**	223.11	2.5	0.2	1.6	0.13	0.013	0.008	**1.47**	**8.56**	40.69	74.79	102.28	152.90
EX DA-6	138,109	3.17	108,434	78.51%	80.00	94.13	0.15	100	0.013	**10.25**	145	2.5	0.025	**0.95**	587	3.14	0.024	**3.11**	116	2.9	0.2	1.6	0.13	0.013	0.010	**0.67**	**14.98**	12.36	21.09	28.12	41.14
EX DA-7	145,927	3.35	28,617	19.61%	80.00	83.53	0.15	50	0.038	**3.84**	522	3.1	0.038	**2.77**	-	-	-	**0.00**	-	-	0.2	1.6	0.13	0.013	-	**0.00**	**6.61**	13.10	25.43	35.47	53.98
EX DA-8	333,669	7.66	198,709	59.55%	80.00	90.72	0.15	97.5	0.204	**3.34**	106	2.6	0.025	**0.68**	201	3.44	0.029	**0.98**	627	3.2	0.2	1.6	0.13	0.013	0.012	**3.27**	**8.27**	34.93	61.78	83.36	123.17
OFF 1	6,890	0.16	6,775	98.33%	80.00	97.70	0.15	56	0.042	**4.02**	-	-	-	**0.00**	-	-	-	**0.00**	180	4.6	0.2	1.6	0.13	0.013	0.026	**0.65**	**6.00**	0.85	1.41	1.86	2.70
OFF 2	202,797	4.66	45,436	22.40%	80.00	84.03	0.15	50	0.055	**3.31**	923	3.8	0.055	**4.06**	144	4.77	0.055	**0.50**	-	-	0.2	1.6	0.13	-	-	**0.00**	**7.87**	17.89	34.66	48.32	73.49

* The Curve Number (Cn) has been determined from Table 2-2a of Technical Release 55. The cover type, hydrologic condition, and soil group determined for the impervious areas are considered fully paved, and Type D soil group with a Cn of 98.
The cover type, hydrologic condition, and soil group determined for the pervious areas are considered equivalent to open space in good hydrologic condition, and Type D soil group with a Cn of 80.
** The minimum Tc is 6 minutes per the TR-55.

BENCHMARKS

BM #1: 1/2" IRON ROD WITH PINK PLASTIC CAP STAMPED "MTR ENG CONTROL"
ELEV.=972.86

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

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1001 Fannin Street, Suite 750, Houston, Texas 77002 p: 713.467.1555 f: 713.467.1573

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WIMBERLEY ISD
DANFORTH JUNIOR HIGH SCHOOL CAMPUS ADDITIONS & RENOVATIONS

200 TEXAN BLVD, WIMBERLEY, TEXAS, 78767

CIVIL ENGINEERING FIRM:
KIMLEY-HORN & ASSOCIATES
TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

1/19/2026
Project No. 2525.01
100% CONTRACT DOCUMENTS
EXISTING DRAINAGE AREA MAP

SHEET NO.
C0.29

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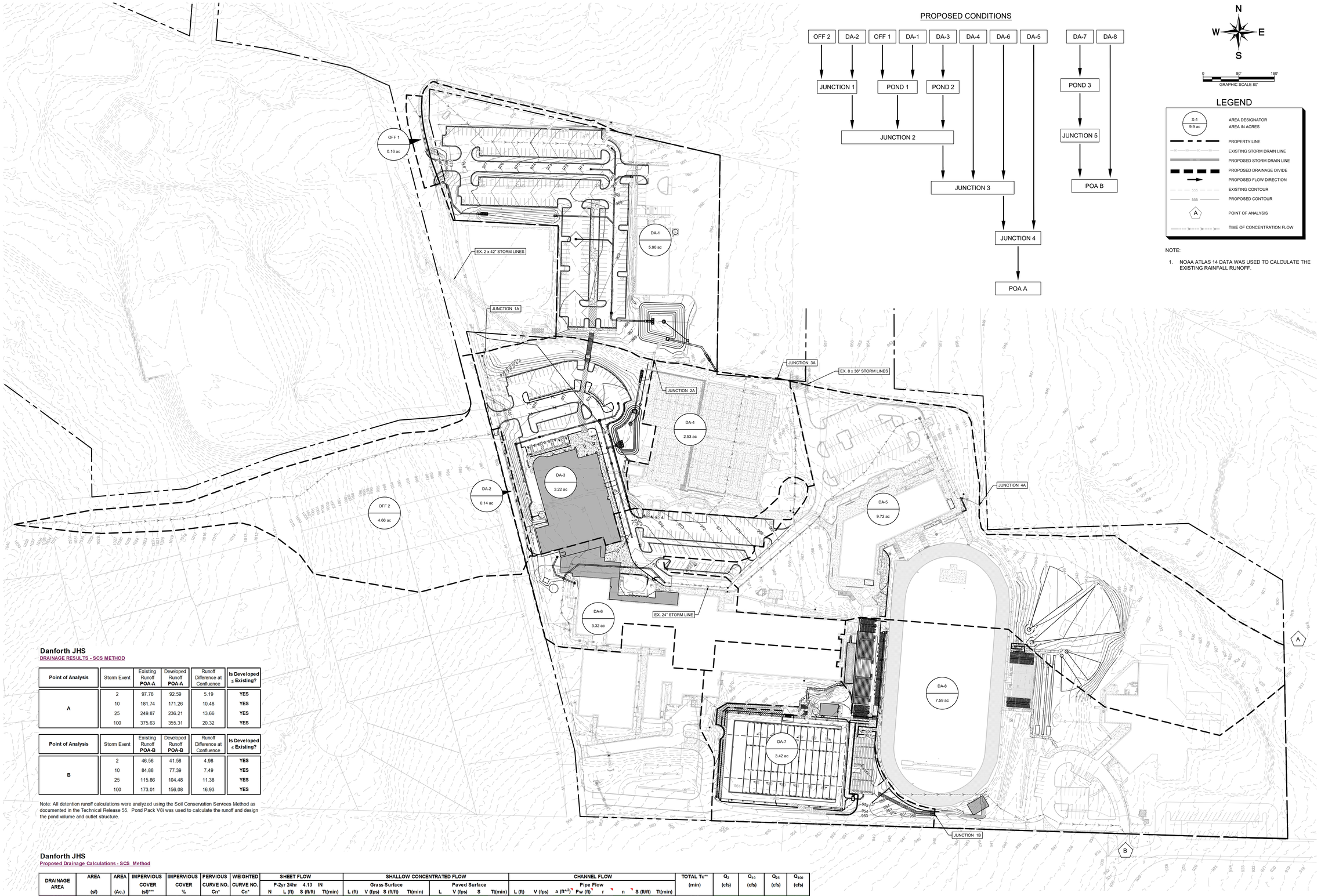

PROPOSED CONDITIONS

LEGEND

NOTE:

1. NOAA ATLAS 14 DATA WAS USED TO CALCULATE THE EXISTING RAINFALL RUNOFF.

Danforth JHS

DRAINAGE RESULTS - SCS METHOD

Point of Analysis	Storm Event	Existing Runoff POA-A	Developed Runoff POA-A	Runoff Difference at Confluence	Is Developed ≤ Existing?
A	2	97.78	92.59	5.19	YES
	10	181.74	171.26	10.48	YES
	25	249.87	236.21	13.66	YES
	100	375.63	355.31	20.32	YES

Point of Analysis	Storm Event	Existing Runoff POA-B	Developed Runoff POA-B	Runoff Difference at Confluence	Is Developed ≤ Existing?
B	2	46.56	41.58	4.98	YES
	10	84.88	77.39	7.49	YES
	25	115.86	104.48	11.38	YES
	100	173.01	156.08	16.93	YES

Note: All detention runoff calculations were analyzed using the Soil Conservation Services Method as documented in the Technical Release 55. Pond Pack V8i was used to calculate the runoff and design the pond volume and outlet structure.

Danforth JHS

Proposed Drainage Calculations - SCS_Method

DRAINAGE AREA	AREA (sf)	AREA (Ac.)	IMPERVIOUS COVER (sf)***	IMPERVIOUS COVER %	PERVIOUS CURVE NO. Cn*	WEIGHTED CURVE NO. Cn*	SHEET FLOW P-2yr 24hr 4.13 IN N	L (ft)	S (ft/ft)	Tt(min)	SHALLOW CONCENTRATED FLOW Grass Surface L (ft)	V (fps)	S (ft/ft)	Tt(min)	Paved Surface L	V (fps)	S	Tt(min)	CHANNEL FLOW L (ft)	V (fps)	a (ft^2)	Pipe Flow Pw (ft)	r	n	S (ft/ft)	Tt(min)	TOTAL Tc** (min)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
DA-1	257,170	5.90	141,300	54.94%	80.00	89.89	0.15	50	0.028	4.36	61	2.7	0.028	0.38	383.15	2.49	0.015	2.56	427	2.7	0.2	1.6	0.13	0.01	0.005	2.67	9.97	24.28	43.57	59.09	87.69
DA-2	5,924	0.14	5,924	100.00%	80.00	98.00	0.15	57	0.014	6.34	-	-	-	0.00	-	-	-	0.00	441	2.6	0.2	1.6	0.13	0.013	0.009	2.78	9.13	0.68	1.12	1.48	2.15
DA-3	140,307	3.22	83,412	59.45%	80.00	90.70	0.15	50	0.020	4.95	25	2.3	0.020	0.18	-	-	-	0.00	463	2.0	0.2	1.6	0.13	0.013	0.005	3.81	8.94	14.29	25.32	34.19	50.54
DA-4	110,059	2.53	74,640	67.82%	80.00	92.21	0.15	52.5	0.071	3.10	-	-	-	0.00	327.42	2.49	0.015	2.19	-	-	-	-	-	-	-	0.00	6.00	12.53	21.68	29.03	42.63
DA-5	423,437	9.72	184,229	43.51%	80.00	87.83	0.15	50	0.027	4.39	29	4.9	0.091	0.10	520	3.34	0.027	2.59	223.11	2.5	0.2	1.6	0.13	0.013	0.008	1.47	8.56	40.67	74.79	102.29	152.92
DA-6	144,406	3.32	113,590	78.66%	80.00	94.16	0.15	50	0.020	4.95	145	2.6	0.025	0.95	-	-	-	0.00	975	2.7	0.2	1.6	0.13	0.01	0.005	6.01	11.91	14.24	24.21	32.25	47.15
DA-7	145,927	3.35	92,836	63.62%	80.00	91.45	0.15	68	0.038	4.90	-	-	-	0.00	-	-	-	0.00	425.25	2.7	0.2	1.6	0.13	0.01	0.005	2.62	7.52	16.08	28.14	37.83	55.73
DA-8	330,750	7.59	201,877	61.04%	80.00	90.99	0.15	97.5	0.204	3.34	106	2.6	0.025	0.68	201	3.44	0.029	0.98	627	3.2	0.2	1.6	0.13	0.013	0.012	3.27	8.27	34.85	61.44	82.81	122.23
OFF 1	6,890	0.16	6,775	98.33%	80.00	97.70	0.15	56	0.042	4.02	-	-	-	0.00	-	-	-	0.00	180	4.6	0.2	1.6	0.13	0.013	0.026	0.65	6.00	0.85	1.41	1.86	2.70
OFF 2	202,797	4.66	45,436	22.40%	80.00	84.03	0.15	50	0.055	3.31	923	3.8	0.055	4.06	144	4.77	0.055	0.50	-	-	0.2	1.6	0.13	-	-	0.00	7.87	17.89	34.66	48.32	73.49

* The Curve Number (Cn) has been determined from Table 2-2a of Technical Release 55. The cover type, hydrologic condition, and soil group determined for the impervious areas are considered fully paved, and Type D soil group with a Cn of 98.
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CIVIL ENGINEERING FIRM:
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TEXAS REGISTRATION NO. 928

Revisions:

NO.	DESCRIPTION	DATE

1/19/2026
Project No. 2525.01
100% CONTRACT DOCUMENTS
PROPOSED DRAINAGE AREA MAP

SHEET NO.
C0.30

Plotted By: Randall Zech Date: January 20, 2026 09:11:56pm File Path: K:\AUS_Civil\068733904 – Wimberley ISD – Danforth JHS\Civil\PlanSheets\C–Prop Drainage Area Map.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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 of 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.

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 of Schools,
Title - Owner/President/Other

of Wimberley ISD,
Corporation/Partnership/Entity Name

have authorized Allison Kennaugh, P.E.
Print Name of Agent/Engineer

of Kimley-Horn and Associates
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 Bonewald
Applicant's Signature

1/14/2026
Date

THE STATE OF TEXAS §

County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared Greg Bonewald 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 January, 2026.

ASHLEY MARIE BUSE
Notary Public, State of Texas
Comm. Expires 08-22-2028
Notary ID 135053135

Ashley Buse
NOTARY PUBLIC

Ashley Buse
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 8/22/2028

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: DANFORTH JR HIGH WIMBERLEY ISD

Regulated Entity Location: WIMBERLEY TX

Name of Customer: WIMBERLEY ISD

Contact Person: Greg Bonewald Phone: (512) 847-2414

Customer Reference Number (if issued):CN 600785158

Regulated Entity Reference Number (if issued):RN 106900806 & 107003626

Austin Regional Office (3373)

- [x] 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:

- [x] Austin Regional Office
- [ ] Mailed to: TCEQ - Cashier
  Revenues Section
  Mail Code 214
  P.O. Box 13088
  Austin, TX 78711-3088
- [ ] San Antonio Regional Office
- [ ] Overnight Delivery to: TCEQ - Cashier
  12100 Park 35 Circle
  Building A, 3rd Floor
  Austin, TX 78753
  (512)239-0357

Site Location (Check All That Apply):

- [ ] Recharge Zone
- [x] Contributing Zone
- [ ] Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	41.31 Acres	$ 8,000
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
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: Allison Kennaugh Date: 1/19/2026

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

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

Check Payable to the "Texas Commission on Environmental Quality"

AWAITING TCEQ TO CONFRIM FEE

Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 6007851		**RN** 106900806 & 107003626

SECTION II: Customer Information

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

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

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

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

Wimberley Independent School District	

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

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

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

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

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

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

15. Mailing Address:	114401 Ranch Road 12						
	City	Wimberley	**State**	TX	**ZIP**	78676	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
N/A	

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

SECTION III: Regulated Entity Information

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

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

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

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

DANFORTH JR HIGH WIMBERLEY ISD

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	200 Texan Blvd							
	City	Wimberley	**State**	TX	**ZIP**	78676	**ZIP + 4**	
24. County	Hays							

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

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

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

27. Latitude (N) In Decimal:	30.003101459695834		**28. Longitude (W) In Decimal:**	-98.11397926019981	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30°	0'	11.17571"	- 98°	6'	50.31568"

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
8351		611110	

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

Public Education - Junior High Scool

34. Mailing Address:	**200 Texan Blvd**							
	City	**Wimberley**	**State**	**TX**	**ZIP**	**78676**	**ZIP + 4**	
35. E-Mail Address:								

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

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

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

SECTION IV: Preparer Information

40. Name:	Allison Kennaugh, P.E.	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
( ) -		( ) -	allison.kennaugh@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.

Company:	Wimberley ISD	**Job Title:**	Superintendent
Name *(In Print):*	Greg Bonewald	**Phone:**	(512) - 847-2414
Signature:	Greg Bonewald	**Date:**	1/14/2026