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: Dripping Springs ISD New Elementary School No. 6					**2. Regulated Entity No.:**				
3. Customer Name: Dripping Springs ISD					**4. Customer No.: CN 601259435**				
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):**		64.52	
9. Application Fee:	$8,000		**10. Permanent BMP(s):**					Batch Detention and Vegetated Filter Strips	
11. SCS (Linear Ft.):			**12. AST/UST (No. Tanks):**						
13. County:	Hays		**14. Watershed:**					Little Barton Creek	

Application Distribution

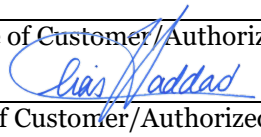
Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which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

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

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

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

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. Elias Haddad
Print Name of Customer/Authorized Agent  9/12/2023 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):	

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.

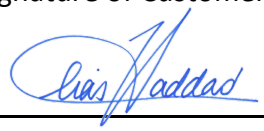
Signature

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: Elias Haddad

Date: 9/15/2023

Signature of Customer/Agent:



Regulated Entity Name: Dripping Springs ISD New Elementary School No. 6

Project Information

1. County: Hays
2. Stream Basin: Little Barton Creek
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

   Contact Person: Clint Pruett
   Entity: Dripping Springs ISD
   Mailing Address: 510 W. Mercer St.
   City, State: Dripping Springs, TX Zip: 78620
   Telephone: 512-858-3032 Fax: _____
   Email Address: clint.pruett@dsisdtx.us

5. Agent/Representative (If any):

Contact Person: Elias Haddad
Entity: Walker Partners
Mailing Address: 6504 Bridge Point
City, State: Austin, TX Zip: 78730
Telephone: 512 382.0021 Fax: _____
Email Address: ehaddad@walkerpartners.com

6. Project Location:

☐ The project site is located inside the city limits of _____.
☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Dripping Springs.
☐ The project site is not located within any city's limits or ETJ.

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

West of Headwaters Subdivision, Access through Headwaters Boulevard off Route 290, and Mira Vista Drive.

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

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

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

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

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

11. Existing project site conditions are noted below:

☐ Existing commercial site
☐ Existing industrial site

☐ Existing residential site
☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☒ Undeveloped (Undisturbed/Not cleared)
☐ Other: _____

12. The type of project is:

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

13. Total project area (size of site): 64.52 Acres

    Total disturbed area: 17.5 Acres

14. Estimated projected population: 850 Students

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	95,830	÷ 43,560 =	2.2
Parking	291,850	÷ 43,560 =	6.7
Other paved surfaces	100,200	÷ 43,560 =	2.3
Total Impervious Cover	487,880	÷ 43,560 =	11.2

Total Impervious Cover 11.2 **÷ Total Acreage** 64.52 **X 100 =** 17.4**% 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 Headwaters MUD (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" = 60'.

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): _____.

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.

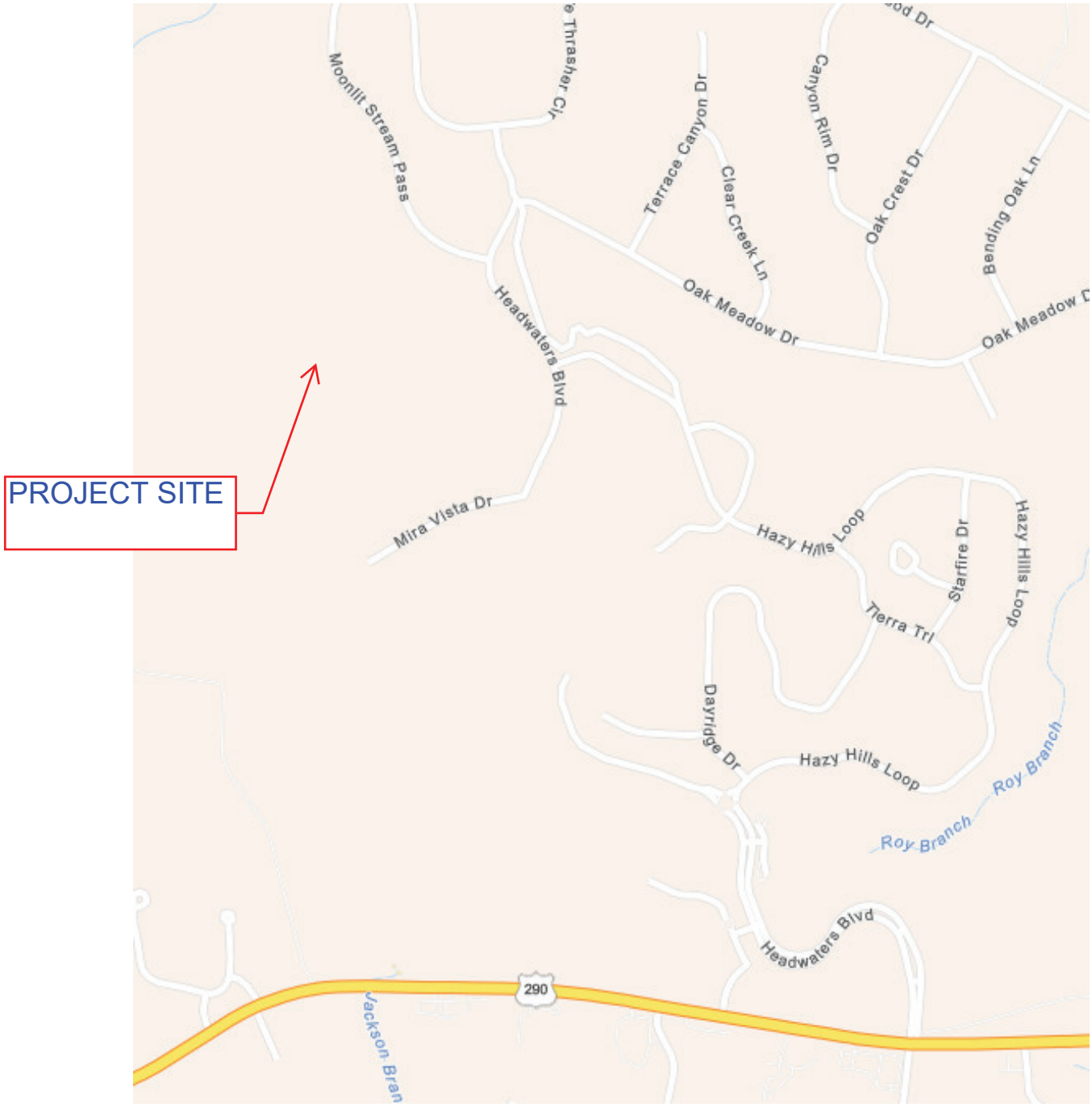
62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.

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.

GENERAL INFORMATION FORM - ATTACHMENT A

A road map (Not to scale) showing directions to the location of the project site.



GENERAL INFORMATION FORM - ATTACHMENT B

USGS Quad Num: **30098B1**
USGS Quad Name: **DRIPPING SPRINGS**

ATTACHMENT C – Project Narrative

The subject property consists of 64.52 acres located north of Route 12 in Dripping Springs, Texas, west of the Headwaters Subdivision.

The project site is currently undeveloped and has natural existing vegetation with sloping terrain.

There is no existing impervious cover. Proposed impervious cover is 489,550 sf (11.25 ac).

The proposed improvements with this Contributing Zone Permit (CZP) application includes the main elementary school building, associated drives and parking lots, and all associated water, wastewater, and drainage improvements. In addition, water quality controls and detention infrastructure will be constructed to treat the storm water.

The master plan for the site includes the potential construction of a future Middle School, football field with running track, a practice field, tennis courts, and related parking and infrastructure. These improvements are not included with this application.

In accordance with the West Travis County Public Utility Agency Water and Sewer Service and Development Policies, this project is required to adopt one of the alternative water quality measures required as specified in the "Memorandum of Understanding" between LCRA and the USFWS. The alternative water quality measures to be employed on this project are designed to comply with the TCEQ "Optional Enhanced Measures for Protection of Water Quality in the Edwards Aquifer" (RG-348 Appendix A and Appendix B).

In accordance with the "Optional Enhanced Measures", a Geologic Assessment was performed to identify any sensitive features, and stream buffers were established based on drainage areas contributing flow to the streams. No sensitive features were located in the Geologic Assessment. See copy of report attached.

The water quality pond will serve as a temporary sediment basin during construction. The capture volume of 108,000 cf was calculated in accordance with RG-348 Appendix A (see Pond Plan and Pond Details sheets in the plans). Permanent BMP's will be sized based off the required TSS removal methodology as outlined in the "Optional Enhanced Measures". Finally, to protect area stream morphology, the project will limit the peak rate of runoff for the 2-yr, 24-hour storm to 50% of the undeveloped rate for that event and will limit the 10-yr, 24-hour storm peak runoff rate to the undeveloped rate for the same storm conditions (see table on Pond Drainage Area Map sheet in the plans).

Water Quality Controls

The required amount of TSS removal is based on the methodology in RG-348 Appendix A which requires the removal of 80% of the annual TSS load in the runoff from the site without regard for the level of impervious cover. Based on the Project Area of 64.52 acres and the impervious cover of 11.25 acres, the required amount of TSS Load removal (L_M) is 10,087 lbs.

A batch detention pond and vegetative filter strips are proposed as Best Management Practices (BMPs) for the project.

Drainage Area 'PR1' (13.5 ac with 9.4 ac impervious) drains to the pond which has the potential to remove 9,885 lbs of TSS.

Drainage Areas 'PR2' and 'PR3' (51.1 ac with 1.8 acres of impervious) flow over the entrance drives and through the vegetative filter strips which have the potential to remove 2,483 lbs of TSS.

The total removal (L_R) by these BMPs is 12,368 lbs of TSS.

In accordance with the requirement to protect stream morphology portion of the Enhanced Measures, the peak stormwater release rates for the 2-yr 24-hr developed condition event must be limited to 50% of the release rates for the same event under undeveloped conditions. HEC-HMS 4.11 was used to model the hydrology of the site.

Drainage
Drainage/grading improvements proposed throughout the project will convey runoff to the water quality treatment measures.

Water
Domestic water service and fire flow will be supplied by the Headwaters MUD who purchases water from the West Travis County Public Utility Agency (WTCPUA)

Wastewater
Wastewater from the proposed facility will be collected via gravity by 6" PVC service line and conveyed to a proposed grinder pump/lift station. The effluent (about 16 GPMs) will be pumped through a 3" PVC force main to the existing wastewater system in the Headwaters Subdivision.

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: Russell Ford, P.G Telephone: 512 442-1122

Date: 11/8/22 Fax: 512-442-1181

Representing: Terracon Consultants, Inc. / TBPG 50058 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

_____

Regulated Entity Name: Headwaters School Tract, Red Bud Road and Headwaters Boulevard, Dripping Springs, Texas

Project Information

1. Date(s) Geologic Assessment was performed: 11/1/22 and 11/2/22
2. Type of Project:

   ☒ WPAP ☐ AST
   ☐ SCS ☐ UST
3. Location of Project:

   ☐ Recharge Zone
   ☐ Transition Zone
   ☐ Contributing Zone within the Transition Zone

4. ☒ Attachment A - Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
RcD	C	2
BtG	C	1.5
DoC	D	2
SuB	C	2.5

** Soil Group Definitions (Abbreviated)*

A. Soils having a high infiltration rate when thoroughly wetted.
B. Soils having a moderate infiltration rate when thoroughly wetted.
C. Soils having a slow infiltration rate when thoroughly wetted.
D. Soils having a very slow infiltration rate when thoroughly wetted.

6. ☒ Attachment B – Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.

7. ☒ Attachment C – Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☒ Attachment D – Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

   Applicant's Site Plan Scale: 1" = _ '
   Site Geologic Map Scale: 1" = 500'
   Site Soils Map Scale (if more than 1 soil type): 1" = 500'

9. Method of collecting positional data:

   ☒ Global Positioning System (GPS) technology.
   ☐ Other method(s). Please describe method of data collection: _____

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☐ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

    ☒ Geologic or manmade features were not discovered on the project site during the field investigation.

13. ☐ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☐ The wells are in use and comply with 16 TAC Chapter 76.

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

Administrative Information

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

ATTACHMENT A

NO FEATURES

GEOLOGIC ASSESSMENT TABLE			PROJECT NAME: Headwaters School Tract, Red Bud Road and Headwaters Boulevard, Dripping Springs, Texas																
LOCATION			FEATURE CHARACTERISTICS											EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z		10						<40	>40	<1.6	>1.6	

* DATUM: NAD27

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Natural Resource Conservation Commission's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

My signature certifies that I am qualified as a geologist as defined by 30 TAC 213

_____ Date _____

TNRCC-0585-Table (Rev. 5-1-02)

Sheet _____ of _____

Attachment B
Stratigraphic Column
Headwaters School Tract
Red Bud Road and Headwaters Boulevard
Dripping Springs, Texas

HYDROGEOLOGIC SUBDIVISION	FORMATION	THICKNESS (feet)	LITHOLOGY
Lower confining unit	Glen Rose Limestone	380	Dolomitic limestone interbedded with marl in alternating resistant and recessive beds

Source: Geologic Atlas of Texas, Llano Sheet

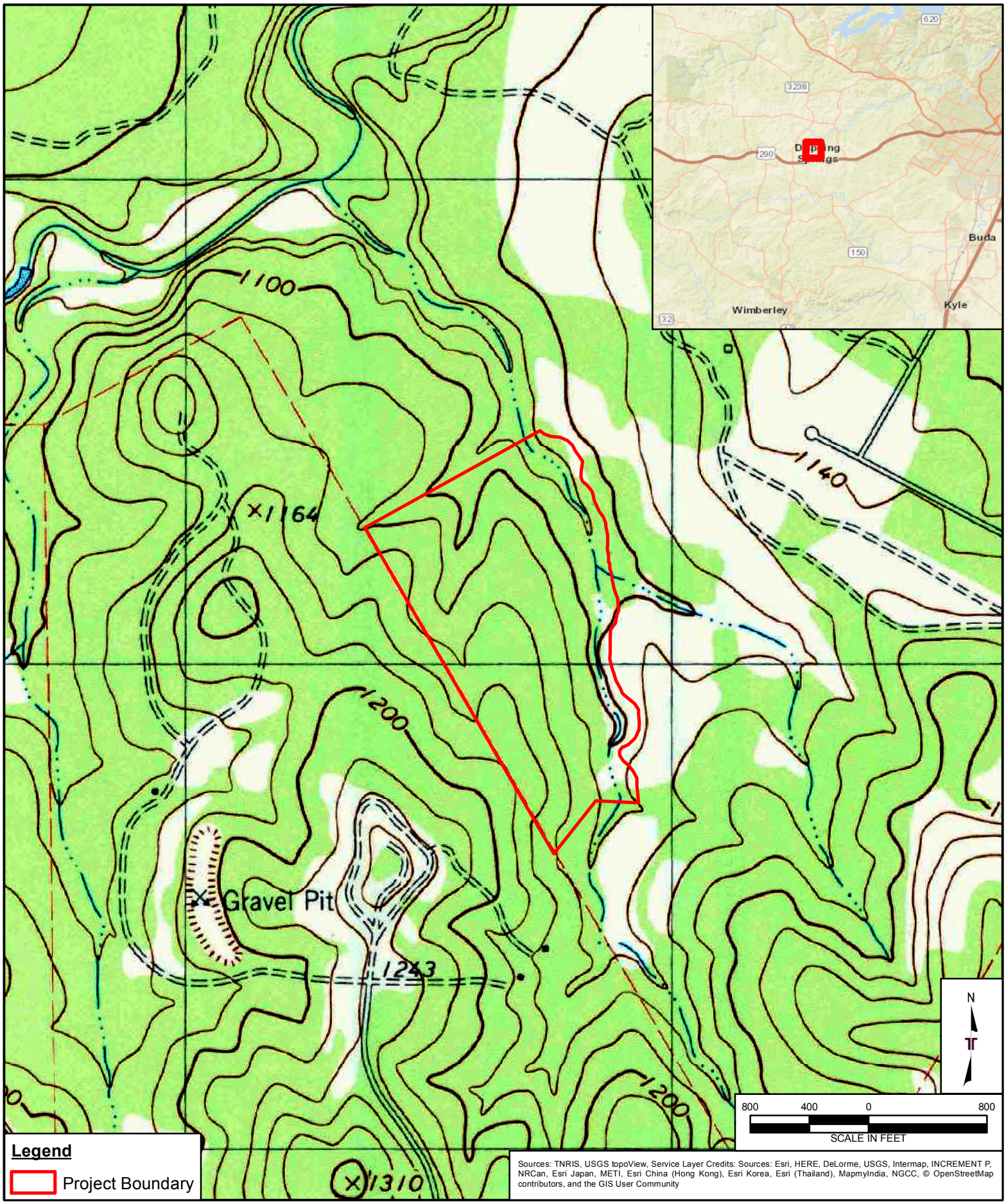
ATTACHMENT C
SITE-SPECIFIC GEOLOGY

The Geologic Assessment (GA) of the Headwaters School Tract was performed by Mr. Russell C. Ford, P.G., of Terracon on November 1 and 2, 2022. The site consists of approximately 64.51 acres of naturally vegetated, undeveloped land located just west of the intersection of Red Bud Road and Headwaters Boulevard in Dripping Springs, Texas. The site consists of undeveloped, ranch property. Exhibit 1 (attached) is a site location map depicting the site in relation to the surrounding area. The site is vegetated with mostly native grasses and areas with scattered to dense hardwoods, mostly Ashe Juniper and Live Oak. The areas immediately surrounding the site are a combination of undeveloped and residential properties. Two drainages cross the site and drainage is offsite to the north. The site is characterized as sloping to the north with site elevation ranging from about 1180 feet above mean sea level (msl) to about 1080 feet msl.

The Geologic Site Map is provided as Exhibit 2. The site is located outside of the recharge zone of the Edwards aquifer. The surficial geologic unit present at the site has been identified as the Glen Rose Formation. The Glen Rose Formation forms the lower confining unit to the Edwards aquifer and consists of a yellowish-tan, thinly bedded limestone and marl. The upper member of the Glen Rose consists of shale and marl alternating with thin beds of limestone and dolomite. This alternating bedding of limestone and marl forms the typical stair-step topography observed in outcrops in the area and on the site. Thicknesses of about 350 to 400 feet are present in the area. Table 1 (attached) is a stratigraphic column prepared for the site. The upper 100 feet is typically heavily weathered and contains abundant porous, soft dolomite and burrowed limestone resulting in gentle slopes and many springs. The dolomitic portions of the upper member contain water and make up part of the upper Trinity aquifer. The completed Geologic Assessment form is attached.

Surface exposure onsite of the Glen Rose is generally obscured by the presence of soil cover and vegetation. Several small, fractured outcrops of Glen Rose limestone was also observed exposed within the drainages crossing the site. No active seeps or springs were observed onsite. No caves, sinkholes, or significant solution cavities were observed on the site. No evidence of any faulting was observed on the site and none is shown on any of the available published geologic maps of the area. Additionally, a review of aerial photographs did not reveal any lineations, which typically indicate the presence of faulting. The closest mapped fault is located approximately 8 miles southwest of the site. The fault trends toward the northeast and is associated with the Balcones fault zone, which is comprised of en echelon, normal, high-angle faults, that are generally down thrown to the southeast and represents the dominant structural trend of the area.

No sensitive geologic features, as defined in the TCEQ's instructions to geologists, were observed on the site. Since the site is not located within the recharge zone of the Edwards Aquifer, there is no potential for any recharge to the Edwards Aquifer beneath the site.



Legend

Project Boundary

Sources: TNRIS, USGS topoView, Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

Project Mngr:	CG
Drawn By:	Terracon
Checked By:	CG
Approved By:	AS

Project No.	96227862
Scale:	AS SHOWN
File No.:	96227862
Date:	11/3/22

Terracon
Consulting Engineers & Scientists
5307 INDUSTRIAL OAKS BLVD. - #160 AUSTIN, TX 78735
PH. (512) 442-1122 FAX. (512) 442-1181

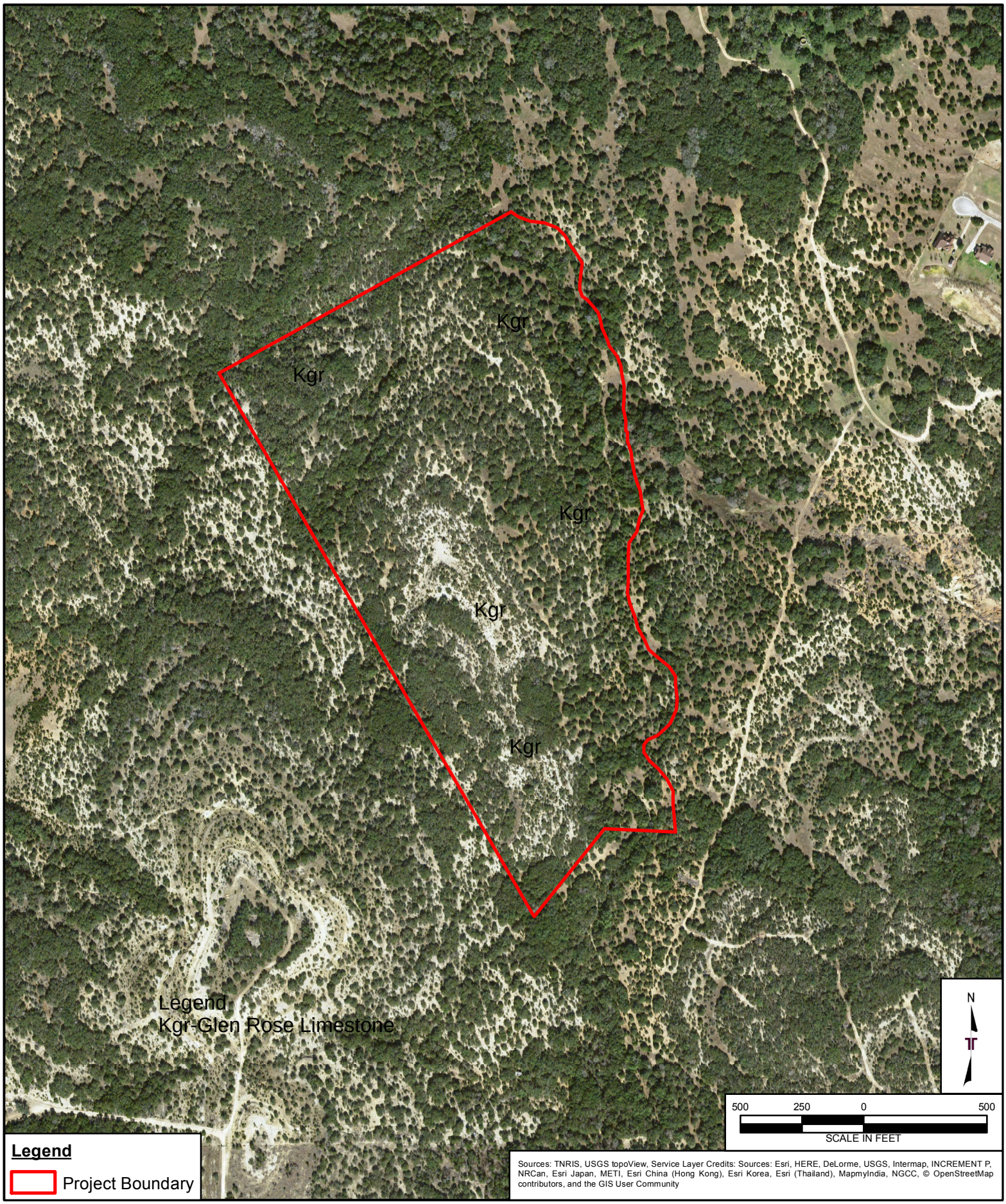
1986 USGS Topographic Map: Dripping Springs

Headwaters School Tract

Red Bud Road
Dripping Springs, Hays County, Texas

EXHIBIT

1



Project Mngr:	CG
Drawn By:	Terracon
Checked By:	CG
Approved By:	AS

Project No.	96227862
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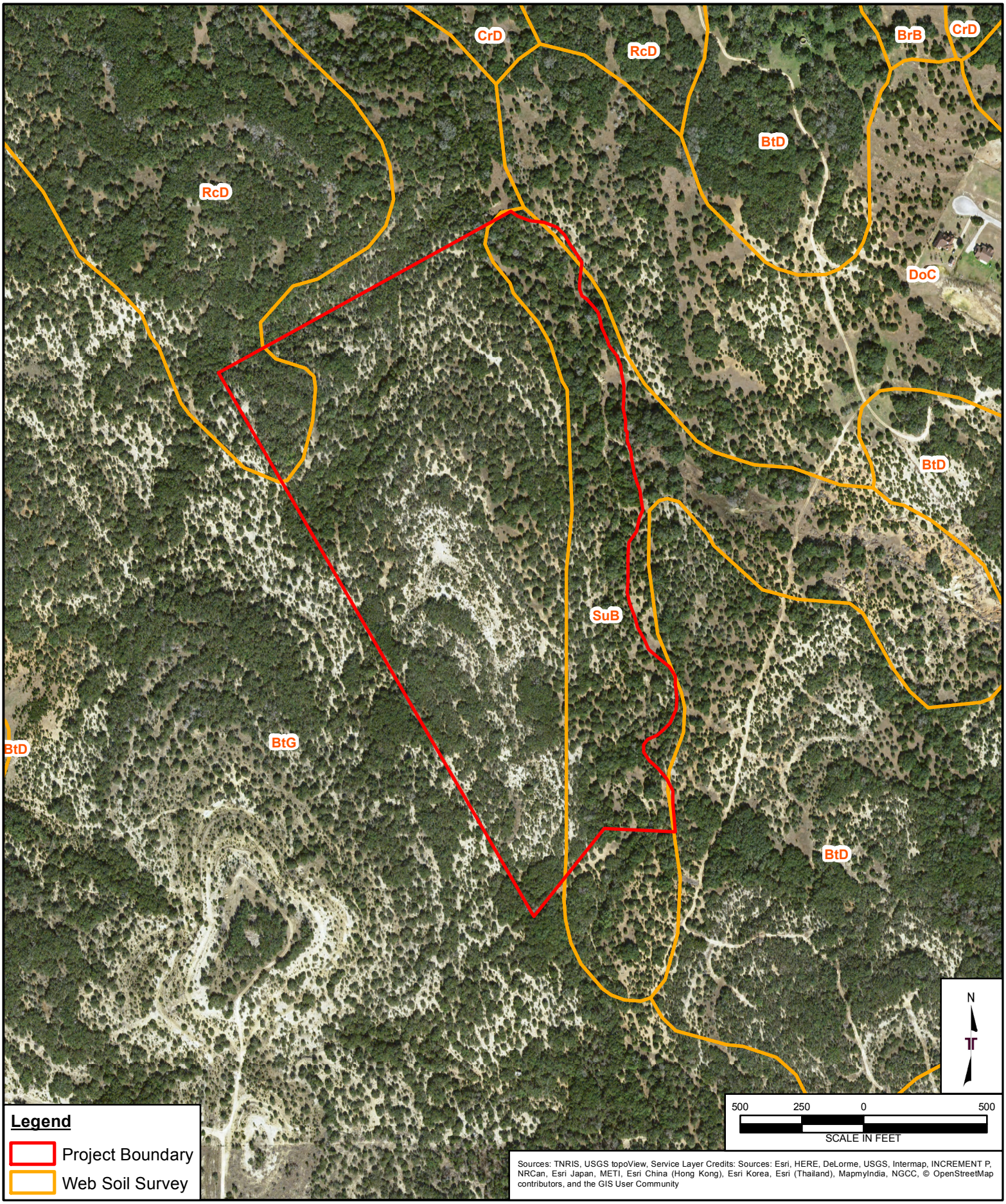
Site Geologic Map

Headwaters School Tract

Red Bud Road
Dripping Springs, Hays County, Texas

EXHIBIT

2



Project Mngr:	CG
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Approved By:	AS

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USDA Web Soil Survey

Headwaters School Tract

Red Bud Road
Dripping Springs, Hays County, Texas

EXHIBIT

3

ATTACHMENT D - Factors Affecting Surface Water Quality

Factors affecting water quality include oils, grease, and other substances typically associated with driving areas. Runoff will be treated as required by the TCEQ Environmental Regulations.

ATTACHMENT E - Volume and Character of Stormwater

The expected character of water generated from the project site includes a mixture of water with oil, grease, and other substances generally associated with paved drives.

This 64.52 ac site has an existing 25-year flow of 432.1 cfs and no impervious cover. After construction, the site will have a 25-year flow of 414.8 cfs and 11.25 ac of impervious cover.

ATTACHMENT J – BMPs for Up Gradient Stormwater

Off-site up gradient stormwater generally consists of sheet flow from the adjacent properties and intermittent flow in the existing drainageways flowing across the tract.

The existing drainageway are protected by stream buffers.

Any flows intercepted onsite will be directed to the onsite controls prior to release to the drainageways.

ATTACHMENT K – BMPs for On-Site Stormwater

Permanent measures to capture and treat the required volumes of storm water runoff associated with the proposed school consist of a batch detention pond and vegetated filter strips designed in accordance with TCEQ's requirements including the Optional Enhanced Measures in RG-348 Appendix A.

ATTACHMENT L – BMPs for Surface Streams

As previously described, all site developed flows will be routed to the onsite BMPs prior to discharge into the existing intermittent drainageways on site. In accordance with the enhanced measures requirement, the peak 2-year release rate is less than 50% of the peak existing 2-year release rate. This helps to minimize streambank erosion of downstream surface streams.

ATTACHMENT M – Construction Plans

Construction plans are included with this application.

ATTACHMENT N:

Inspection, Maintenance, Repair and Retrofit Plan

PROJECT NAME: Dripping Springs Elementary School No. 6

Batch Detention Pond:

Inspections. Inspections should be conducted 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 operation 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 below. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this 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 regarding and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the 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, removal of revegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

Sediment Removal: A properly designed batch detention basin 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) are operating 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 using 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.

Vegetated Filter Strips:

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

Seasonal Mowing and Lawn Care: If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower (or removal of clippings). If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices, however herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.

Inspection: Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance
needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

Debris and Litter Removal: Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e. level spreaders) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than 4 times per year.

Sediment Removal: Sediment removal is not normally required in filter strips, since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.

Grass Reseeding and Mulching: A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Corrective maintenance, such as weeding or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established.

Responsible Party: Clint Pruett
(Name Printed)

Entity: DRIPPING SPRINGS ISD

Mailing Address: 510 W. MERCER STREET

City, State: DRIPPING SPRINGS, TX Zip Code: 78620

Telephone: 512-858-3013

Signature of Responsible Party

12-19-2023
Date

ATTACHMENT P – Measures for Minimizing Surface Stream Contamination

In order to avoid or minimize surface stream contamination, storm water runoff from the site will be routed through the proposed water quality pond and vegetated filter strips prior to any discharge to the existing intermittent drainageways on site. The improvements are not expected to change the way water enters surface streams.

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.

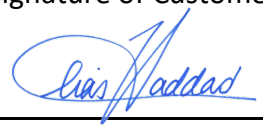
Signature

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: Elias Haddad, P.E

Date: 9/13/2023

Signature of Customer/Agent:



Regulated Entity Name: Drippins Springs ISD New Elementary School No. 6

Project Information

Potential Sources of Contamination

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

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

   ☒ The following fuels and/or hazardous substances will be stored on the site: N/A

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

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

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

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☐ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

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

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

☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Small Barton Creek

Temporary Best Management Practices (TBMPs)

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

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

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☐ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

   ☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

   ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

    ☒ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

    ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

    ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

    ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

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

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A

CONTRACTOR IS RESPONSIBLE FOR ADEQUATE CLEANUP OF ANY SPILLS DURING CONSTRUCTION.

CONTRACTOR SHALL HAVE PERSONNEL ONSITE WHO ARE KNOWLEDGEABLE AND TRAINED TO PERFORM THE SPILL RESPONSE ACTIONS.

SMALL SPILL RESPONSE

BELOW ARE GENERAL STEPS AND MATERIALS TO BE USED FOR CLEANUP.

1) IDENTIFYING THE SUBSTANCE & DETERMINING THE RISK BASED ON THE MATERIAL SAFETY DATA SHEETS

2) ISOLATING THE AREA OF THE SPILL

3) PROTECTING PERSONNEL AND CLEANUP PERSONNEL (Personal Protective Equipment as necessary, goggles, gloves)

4) STOPPING THE SPILL AT THE SOURCE

5) CONTAINING THE SPILL: Utilizing the correct sorbents to dam or divert the spill for clean up.

6) CLEANING UP THE SPILL: Utilizing the proper containers, bags, shovels and other tools, sawdust, sorbent pads, socks, and pillows as needed.

SPILL RESPONSE ACTIONS

Responsibility for adequate cleanup of any chemical spills during construction will be placed on the contractor. The contractor will notify TCEQ of any chemical spills as required at (512) 339-2929.

Reportable quantities as defined by 30 TAC Chapter 327 are as follows:
(a) Hazardous substances. The reportable quantities for hazardous substances shall be:

(1) for spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CFR §302.4; or

(2) for spills or discharges into waters in the state--the quantity designated as the Final RQ in Table 302.4 in 40 CFR §302.4, except where the Final RQ is greater than 100 pounds in which case the RQ shall be 100 pounds.

(b) Oil, petroleum product, and used oil.

(1) The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:

(A) for spills or discharges onto land--210 gallons (five barrels); or

(B) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

(2) The RQ for petroleum product and used oil shall be:

(A) except as noted in subparagraph (B) of this paragraph, for spills or discharges onto land--25 gallons;

(B) for spills or discharges to land from PST exempted facilities--210 gallons (five barrels); or

(C) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

(c) Industrial solid waste or other substances. The RQ for spills or discharges into water in the state shall be 100 pounds.

ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

Some potential sources of contamination are as follows: construction vehicles tracking onto public roads, existing solid waste, and other vehicle contaminants (i.e., fuel, oil, lubricants, etc.). Refer to Attachment A for Spill Response Actions.

ATTACHMENT C – SEQUENCE OF MAJOR ACTIVITIES

1. Install Erosion controls.
2. Start excavation of temporary sediment pond (1 acre).
3. Start rough grading of access roads and site (17.5 acres).
4. Start underground utility installation (within disturbed 17.5 acres).
5. Start construction of building, drives, and parking lot (within disturbed 17.5 acres).
6. Finalize construction of pond and vegetated filter strips (within disturbed 17.5 acres).
7. Restore disturbed areas, place top soil, install permanent vegetation (entire disturbed areas outside building and pavement improvements).

ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

The disturbed areas will drain to one of the existing drainageways on site.

Stabilized construction entrance/exit, concrete clean out area, silt fence, rock berm and inlet protection will be installed to protect these drainageways. During construction, these BMPs are to be inspected weekly and after any rainfall.

Thee TBMPs will provide temporary runoff detention, velocity reduction, and settlement of sediment.

Silt fence and rock berms will prevent pollutants from entering existing surface streams.

There are no naturally-occurring sensitive features identified onsite.

ATTACHMENT F – STRUCTURAL PRACTICES

Structural practices consist of the use of silt fence, rock berms, and inlet protection as previously described.

ATTACHMENT G – DRAINAGE AREA MAP

Drainage area map showing the proposed work is included.

ATTACHMENT H – TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

The water quality pond will be used as a temporary sediment basin during construction. Per RG-348A, the capture volume for Hays County is 8,000 cf/ac which equates to 108,000 cf for the pond drainage area of 13.5 ac (PR 1). See the enclosed Pond Plan and Pond Details sheets for additional information.

ATTACHMENT I INSPECTION AND MAINTENANCE FOR BMPs

The contractor is required to inspect the controls and fences at weekly intervals and after significant rainfall events to ensure that they are functioning properly. Inspections are to be documented in an inspection report which will document maintenance activities, sediment removal and modifications to the sediment and erosion controls. The person(s) responsible for maintenance of controls and fences shall immediately make the necessary repairs to any damaged areas. Silt accumulation at controls must be removed when the depth reaches six inches.

Silt Fence:

(1) Inspect all fencing weekly, and after any rainfall.
(2) Remove sediment when buildup reaches 6 inches.
(3) Replace any torn fabric or install a second line of fencing parallel to the torn section.
(4) Replace or repair any sections crushed or collapsed in the course of construction activity. 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.
(5) 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.

Rock Berm:

(1) Inspection should be made weekly and after each rainfall by the responsible party. For installations in streambeds, additional daily inspections should be made.
(2) Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation.
(3) Repair any loose wire sheathing.
(4) The berm should be reshaped as needed during inspection.
(5) The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
(6) The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.

Stabilized Construction Entrance/Exit:

(1) 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.
(2) All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.

(3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
(4) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
(5) All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Sediment Basins

(1) Inspection should be made weekly and after each rainfall. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Repair should be made promptly as needed by the contractor.
(2) Trash and other debris should be removed after each rainfall to prevent clogging of the outlet structure.
(3) Accumulated silt should be removed and the basin should be re- graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 75% of its original storage capacity.
(4) The removed sediment should be stockpiled or redistributed in areas that are protected from erosion.

Concrete Clean Out Areas

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 J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

1. From September 15 to March 1, seeding shall be with cool season cover crops (wheat at 0.5 pounds per 1000 sf, oats at 0.5 pounds per 1000 sf, cereal rye grain at 0.5 pounds per 1000 sf) with a total rate of 1.5 pounds per 1000 sf. Cool season cover crops are not permanent erosion control.

2. From March 2 to September 14, seeding shall be with hulled bermuda at a rate of 1 pounds per 1000 sf.

   a. Fertilizer shall be water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of 1/2 pound per 1000 sf.

   b. Hydromulch shall comply with table below.

   c. Temporary erosion control shall be acceptable when the grass has grown at least 1 1/2 inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.

   d. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual (as adopted by the City of Dripping Springs).

Material	Description	Longevity	Typical Applications	Application Rate
100% or any blend of wood, cellulose, straw, and/or cotton plant material (except no mulch shall exceed 30% paper).	71% or greater woods/straw 30% or less paper or natural fibers.	0-3 months	Moderate slopes; from flat to 3:1.	1500 to 2000 lbs per acre.

If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.

ATTACHMENT D – NOTICE OF INTENT (NOI)

The NOI will be submitted by the contractor prior to start of construction.

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

I Clint Pruett,
Print Name

Director of Facilities & Construction,
Title - Owner/President/Other

of Dripping Springs Independent School District,
Corporation/Partnership/Entity Name

have authorized Sean Friend and Elias Haddad.
Print Name of Agent/Engineer

of Walker Partners Engineers
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:

Clint Pruett
Applicant's Signature

7-25-2023
Date

THE STATE OF Texas §

County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared Clint Pruett 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 25 day of July, 2023.

Jennifer Eileen Martinez
NOTARY PUBLIC

Jennifer Eileen Martinez
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: Dec 14, 2026

JENNIFER EILEEN MARTINEZ
Notary ID #126196613
My Commission Expires
December 14, 2026

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Dripping Springs ISD New Elementary School No. 6

Regulated Entity Location: West of Headwaters Subdivision, Dripping Springs.

Name of Customer: Dripping Springs ISD

Contact Person: Clint Pruett Phone: 512-858-3032

Customer Reference Number (if issued):CN CN 601259435

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☒ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde

☐ Comal ☐ Kinney

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

☒ Austin Regional Office

☐ 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 ☒ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	64.52 Acres	$ 8,000
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: Lias Haddad Date: 9/15/2023

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

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 601259435		**RN**

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:*

Dripping Springs ISD

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
		74-600309	

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:

PO Box 479 410 W. Mercer St

City	Dripping Springs	**State**	TX	**ZIP**	78620	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(512) 858-3000		( ) -

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.)*

Dripping Springs ISD Elementary School No. 6

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City	Dripping Springs	**State**	TX	**ZIP**	78620	**ZIP + 4**	
24. County	Hays							

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

25. Description to Physical Location:	West of Headwaters subdivision, taking access from Mira Vista Drive				
26. Nearest City			**State**		**Nearest ZIP Code**
Dripping Springs			TX		78620

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:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	12	32.	98	3	31.

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)
8211		611110	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

K-8 Educational Institution

34. Mailing Address:	**N/A**							
	City		**State**		**ZIP**		**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:

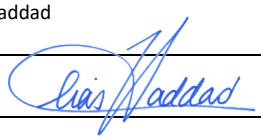
SECTION IV: Preparer Information

40. Name:	Elias Haddad, PE	**41. Title:**	Client Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 382-0021		**( ) -**	ehaddad@walkerpartners.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:	Walker Partners	**Job Title:**	Client Manager		
Name *(In Print):*	Elias Haddad			**Phone:**	**(** 512 **)** 382- **0021**
Signature:				**Date:**	8/23/2023

VICINITY MAP
(NOT TO SCALE)

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.

LEGEND

●	1/2" IRON ROD WITH CAP STAMPED "DELTA SURVEY" FOUND
▲	NAIL FOUND (AS NOTED)
X	WIRE FENCE
CONC	CONCRETE
NO.	NUMBER
DR	DEED RECORDS, HAYS CO., TX
OPR	OFFICIAL PUBLIC RECORDS, HAYS CO., TX

62.52 ACRES - PART OF
WFC HEADWATERS REMAINDER OF 1035.74 ACRES
DOCUMENT NO. 201414000136, OPR

MATCHLINE SHEET 1
SHEET 2

W.R. WOOD SURVEY
ABSTRACT NO. 567
HAYS COUNTY, TEXAS

JOHN T. GILBERT SURVEY NO. 1717
ABSTRACT NO. 511
HAYS COUNTY, TEXAS

EDWARD W. BROOKS SURVEY NO. 44
ABSTRACT NO. 66
HAYS COUNTY, TEXAS

W.R. WOOD SURVEY
ABSTRACT NO. 567
HAYS COUNTY, TEXAS

APPROXIMATE LOCATION OF CENTERLINE OF CREEK

APPROXIMATE LOCATION OF CENTERLINE OF CREEK

APPROXIMATE LOCATION OF CENTERLINE OF CREEK

APPROXIMATE LOCATION OF SURVEY LINE

60' DRIVE
VOLUME 344, PAGE 371, DRR

DELTA

60d NAIL
IN ROCK MOUND

291.33 ACRES
VOLUME 258, PAGE 123, DR

TREE LOCATION AND TOPOGRAPHIC SURVEY OF +/-50 ACRES FOR DRIPPING SPRINGS I.S.D. HAYS COUNTY, TEXAS

DATE: 02-19-2020
PROJECT No.:
3672001
CREW & F.B.:
JS/BW
35/68-28
DRAWN BY:
DK
ALT. SHEET NO.
1
OF 3

Cunningham | Allen
Engineers • Surveyors
3103 BEE CAVES ROAD, SUITE 202
AUSTIN, TEXAS 78746
TEL.: (512) 327-2946
FAX: (512) 327-2973
www.cunningham-allen.com
TBPELS Reg. No. F-284
Firm No. 10000900

REVISION DESC.	DATE

STATE OF TEXAS
REGISTERED
TOMMY P. WATKINS
#5549
PROFESSIONAL
SURVEYOR
02/25/2020

pfluger
office: 512.476.4040 | fax: 512.476.4288
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DSISD ES #6 - HEADWATERS SITE

HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ETJ, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT

300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

PROJECT NO. 4990401
DATE 05/24/23
AUTHOR:___ CHECKED BY:__
REVISIONS:

NO.	Date	Description

SURVEY

C2

!!! CAUTION !!!
EXISTING OVERHEAD UTILITIES IN VICINITY CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE "ONE CALL" LOCATOR SERVICE AT (800) 344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

"RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS"

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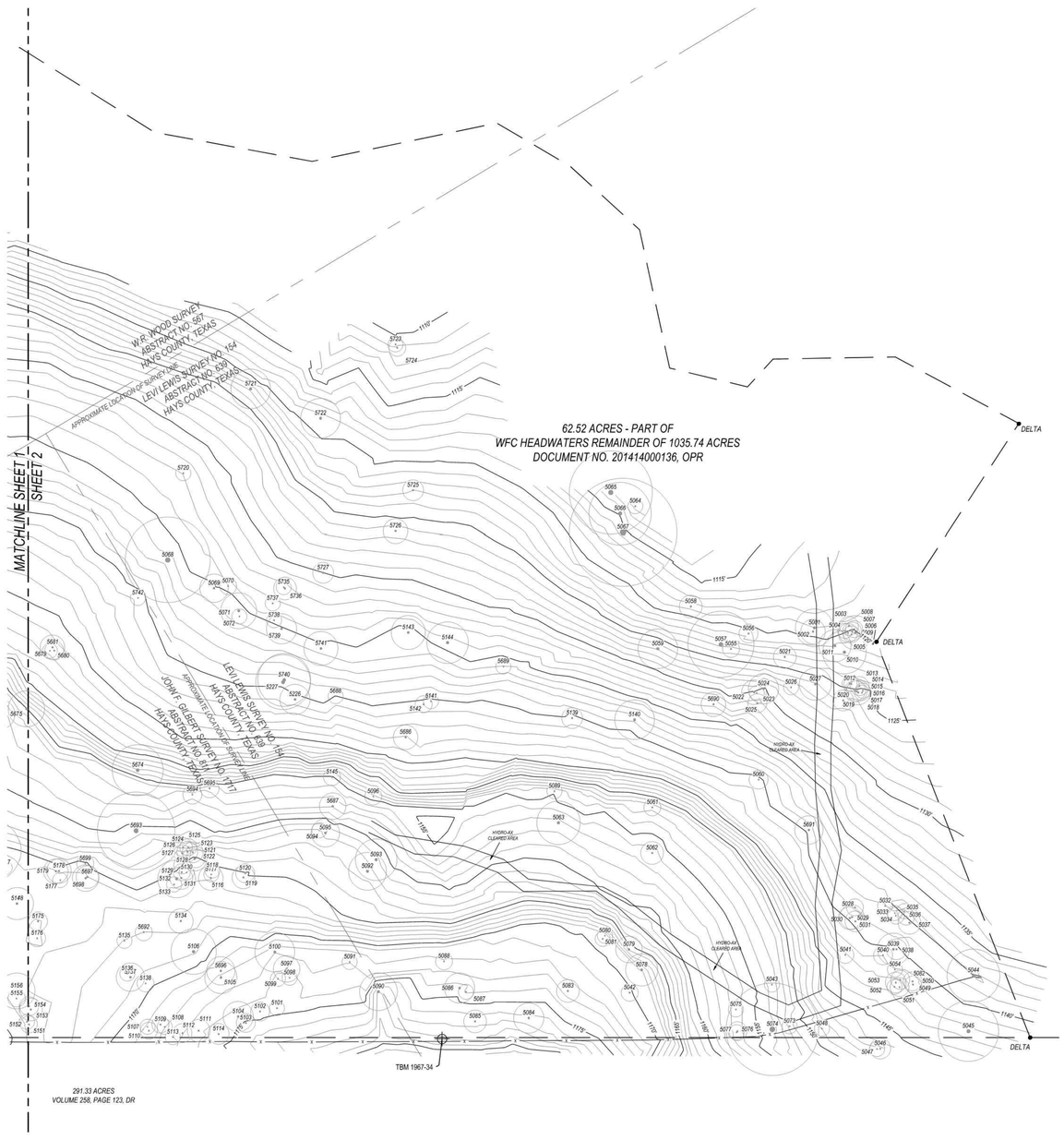
Drawing Path: S:\3672001_Drawings\3672001_TOPO.dwg Plotted By: Tom Watkins Date: 2/20/2020 11:07:52 AM Layout: TOPO SHEET 1 Page Size: Previous paper size (36.00 x 24.00 inches), 1:1

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_SURVEY.dwg Plotted By: Brian Green Date: 12/11/2023 3:46:26 PM Layout: SURVEY Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), #####

LEGEND

- ● 1/2" IRON ROD WITH CAP STAMPED "DELTA SURVEY" FOUND
- ▲ NAIL FOUND (AS NOTED)
- X WIRE FENCE
- CONC CONCRETE
- NO. NUMBER
- DR DEED RECORDS, HAYS CO., TX
- OPR OFFICIAL PUBLIC RECORDS, HAYS CO., TX



GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.

Cunningham | Allen
Engineers • Surveyors
3103 BEE CAVES ROAD, SUITE 202
AUSTIN, TEXAS 78746
TEL: (512) 327-2946
FAX: (512) 327-2973
www.cunningham-allen.com
TBPELS Reg. No. F-284
Firm No. 10000900

REVISION DESC.	DATE

STATE OF TEXAS
REGISTERED
TOMMY P. WATKINS
#5549
LAND SURVEYOR
05/20/2020

TREE LOCATION AND TOPOGRAPHIC SURVEY OF +/-50 ACRES FOR DRIPPING SPRINGS I.S.D. HAYS COUNTY, TEXAS

DATE: 02-19-2020
PROJECT No.:
3672001
CREW & F.B.: FS/RW 1068-28
DRAWN BY:
DK
ALT. SHEET NO.:
2 OF 3

!!! CAUTION !!!
EXISTING OVERHEAD UTILITIES IN VICINITY CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE "ONE CALL" LOCATOR SERVICE AT (800) 344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

"RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS"

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pfluger
office: 512.476.4040 | fax: 512.476.4289
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DSISD ES #6 - HEADWATERS SITE

HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ETJ, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT

300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

PROJECT NO. 4990401
DATE 05/24/23
AUTHOR___ CHECKED BY__
REVISIONS:

NO.	Date	Description

SURVEY

C2.1

Drawing Path: S:\3672001_Drawings\3672001_TOPO.dwg Plotted By: Tom Watkins Date: 2/20/2020 11:08:07 AM Layout: TOPO SHEET 2 Page Size: Previous paper size (36.00 x 24.00 inches), 1:1

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_SURVEY.dwg Plotted By: Brian Green Date: 12/11/2023 3:46:27 PM Layout: SURVEY (2) Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), 1:100

TREE LIST	
TAG #	Description
5001	20" LIVE OAK (M) [13/13]
5002	13" LIVE OAK
5003	10" LIVE OAK
5004	8" LIVE OAK
5005	10" LIVE OAK
5006	9" LIVE OAK
5007	10" LIVE OAK
5008	9" LIVE OAK
5009	18" LIVE OAK (M) [12/11]
5010	23" LIVE OAK (M) [16/14]
5011	17" LIVE OAK
5012	8" LIVE OAK
5013	8" LIVE OAK
5014	11" LIVE OAK (M) [8/6]
5015	11" LIVE OAK (M) [9/4]
5016	10" LIVE OAK
5017	8" LIVE OAK
5018	8" LIVE OAK
5019	13" LIVE OAK (M) [9/8]
5020	11" LIVE OAK
5021	12" LIVE OAK
5022	13" LIVE OAK (M) [9/8]
5023	8" LIVE OAK
5024	16" LIVE OAK
5025	10" LIVE OAK (M) [8/4]
5026	8" LIVE OAK
5027	17" LIVE OAK (M) [10/7/6]
5028	9" CEDAR ELM
5029	13" LIVE OAK (M) [9/7]
5030	12" LIVE OAK (M) [8/7]
5031	11" LIVE OAK
5032	8" LIVE OAK
5033	8" LIVE OAK
5034	9" LIVE OAK
5035	8" LIVE OAK
5036	9" LIVE OAK
5037	12" LIVE OAK
5038	11" LIVE OAK
5039	17" LIVE OAK (M) [12/10]
5040	10" LIVE OAK
5041	9" LIVE OAK
5042	9" LIVE OAK
5043	8" LIVE OAK
5044	28" LIVE OAK
5045	32" LIVE OAK (M) [23/17]
5046	11" LIVE OAK
5047	8" LIVE OAK
5048	8" LIVE OAK
5049	10" LIVE OAK
5050	9" LIVE OAK
5051	10" LIVE OAK
5052	8" LIVE OAK
5053	11" LIVE OAK
5054	8" LIVE OAK
5055	9" LIVE OAK
5056	10" LIVE OAK
5057	35" LIVE OAK (M) [19/16]
5058	12" LIVE OAK
5059	21" LIVE OAK (M) [11/10]
5060	10" LIVE OAK
5061	9" LIVE OAK
5062	12" LIVE OAK
5063	23" LIVE OAK (M) [13/11/8]
5064	8" LIVE OAK
5065	44" LIVE OAK (M) [25/19]
5066	33" LIVE OAK
5067	57" LIVE OAK (M) [22/21/14]
5068	45" LIVE OAK (M) [14/15/16]
5069	15" LIVE OAK
5070	9" LIVE OAK

TREE LIST	
TAG #	Description
5071	19" LIVE OAK (M) [11/8]
5072	8" LIVE OAK
5073	8" LIVE OAK
5074	49" LIVE OAK (M) [14/13/13/9]
5075	8" LIVE OAK
5076	10" LIVE OAK
5077	8" LIVE OAK
5078	17" LIVE OAK
5079	14" LIVE OAK
5080	8" LIVE OAK
5081	8" LIVE OAK
5082	10" LIVE OAK
5083	12" LIVE OAK
5084	16" LIVE OAK
5085	12" LIVE OAK
5086	16" LIVE OAK
5087	8" LIVE OAK
5088	9" LIVE OAK
5089	8" LIVE OAK
5090	20" LIVE OAK (M) [10/10]
5091	8" LIVE OAK
5092	20" LIVE OAK
5093	22" LIVE OAK
5094	8" LIVE OAK
5095	15" LIVE OAK
5096	9" LIVE OAK
5097	14" LIVE OAK
5098	8" LIVE OAK
5099	8" LIVE OAK
5100	21" LIVE OAK (M) [11/10]
5101	8" LIVE OAK
5102	10" LIVE OAK
5103	10" LIVE OAK
5104	16" LIVE OAK (M) [12/8]
5105	17" LIVE OAK (M) [12/8]
5106	24" LIVE OAK (M) [17/14]
5107	8" LIVE OAK
5108	8" LIVE OAK
5109	9" LIVE OAK
5110	9" LIVE OAK
5111	12" LIVE OAK
5112	10" LIVE OAK
5113	8" LIVE OAK
5114	11" LIVE OAK
5116	13" LIVE OAK
5117	8" LIVE OAK
5118	8" LIVE OAK
5119	12" LIVE OAK
5120	10" LIVE OAK
5121	10" LIVE OAK
5122	13" LIVE OAK
5123	11" LIVE OAK
5124	11" LIVE OAK
5125	9" LIVE OAK
5126	10" LIVE OAK
5127	9" LIVE OAK
5128	9" LIVE OAK
5129	9" LIVE OAK
5130	8" LIVE OAK
5131	12" LIVE OAK
5132	20" LIVE OAK (M) [13/7]
5133	8" LIVE OAK
5134	13" LIVE OAK (M) [8/5]
5135	6" LIVE OAK
5136	8" LIVE OAK
5137	15" LIVE OAK (M) [8/7]
5138	9" LIVE OAK
5139	11" LIVE OAK
5140	21" LIVE OAK (M) [11/10]
5141	8" LIVE OAK

TREE LIST	
TAG #	Description
5142	9" LIVE OAK
5143	18" LIVE OAK (M) [13/9]
5144	22" LIVE OAK (M) [12/11/8]
5145	9" LIVE OAK
5146	34" LIVE OAK (M) [17/17]
5147	8" LIVE OAK
5148	17" LIVE OAK
5149	17" LIVE OAK
5150	33" LIVE OAK (M) [11/9/7/6]
5151	9" LIVE OAK
5152	8" LIVE OAK
5153	12" LIVE OAK
5154	10" LIVE OAK
5155	9" LIVE OAK
5156	19" LIVE OAK (M) [8/6/5]
5157	9" LIVE OAK
5158	9" LIVE OAK
5159	8" LIVE OAK
5160	10" LIVE OAK
5161	9" LIVE OAK
5162	8" LIVE OAK
5163	19" LIVE OAK (M) [12/7]
5164	14" POST OAK
5165	9" POST OAK
5166	15" LIVE OAK
5167	15" LIVE OAK
5168	9" LIVE OAK
5169	11" LIVE OAK
5170	12" LIVE OAK
5171	14" LIVE OAK
5172	16" LIVE OAK
5173	8" LIVE OAK
5174	16" POST OAK
5175	10" LIVE OAK
5176	9" LIVE OAK
5177	8" LIVE OAK
5178	13" LIVE OAK
5179	13" LIVE OAK
5180	30" LIVE OAK (M) [18/12]
5181	8" LIVE OAK
5182	20" LIVE OAK (M) [11/9]
5183	18" LIVE OAK (M) [10/8]
5184	8" LIVE OAK
5185	8" LIVE OAK
5186	8" LIVE OAK
5187	8" LIVE OAK
5188	11" LIVE OAK
5189	8" LIVE OAK
5190	8" LIVE OAK
5191	14" LIVE OAK
5192	8" LIVE OAK
5193	9" LIVE OAK
5194	9" LIVE OAK
5195	8" LIVE OAK
5196	8" LIVE OAK
5197	18" LIVE OAK
5198	13" LIVE OAK
5199	14" LIVE OAK
5200	10" LIVE OAK
5201	14" LIVE OAK
5202	8" LIVE OAK
5203	15" LIVE OAK
5204	13" LIVE OAK
5205	17" LIVE OAK (M) [9/8]
5206	9" LIVE OAK
5207	10" POST OAK
5208	25" LIVE OAK (M) [15/10]
5209	16" LIVE OAK
5210	9" LIVE OAK
5211	9" LIVE OAK

TREE LIST	
TAG #	Description
5212	9" LIVE OAK
5213	17" LIVE OAK
5214	21" LIVE OAK
5215	21" LIVE OAK (M) [11/10]
5216	9" LIVE OAK
5217	14" LIVE OAK
5221	8" LIVE OAK
5222	8" LIVE OAK
5223	12" LIVE OAK
5224	8" LIVE OAK
5225	10" LIVE OAK
5226	16" LIVE OAK
5227	29" LIVE OAK
5228	8" LIVE OAK
5229	16" LIVE OAK
5230	10" LIVE OAK
5231	10" LIVE OAK
5232	11" LIVE OAK
5233	8" LIVE OAK
5234	17" LIVE OAK (M) [9/8]
5235	8" LIVE OAK
5236	13" LIVE OAK
5237	11" LIVE OAK
5238	12" LIVE OAK
5239	14" LIVE OAK
5240	19" LIVE OAK
5241	20" LIVE OAK (M) [9/11]
5242	22" LIVE OAK
5243	16" LIVE OAK (M) [8/8]
5244	10" LIVE OAK
5245	14" LIVE OAK
5246	11" LIVE OAK
5247	23" LIVE OAK
5248	16" LIVE OAK
5249	17" LIVE OAK
5250	15" LIVE OAK
5251	11" LIVE OAK
5252	8" LIVE OAK
5253	8" LIVE OAK
5254	12" LIVE OAK
5255	8" LIVE OAK
5256	20" LIVE OAK
5257	17" LIVE OAK
5258	11" LIVE OAK
5259	11" LIVE OAK
5260	11" LIVE OAK
5261	9" LIVE OAK
5262	8" LIVE OAK
5263	10" LIVE OAK
5264	8" LIVE OAK
5265	9" LIVE OAK
5268	11" LIVE OAK
5267	15" LIVE OAK
5268	16" LIVE OAK (M) [8/8]
5269	9" LIVE OAK
5270	9" LIVE OAK
5271	9" LIVE OAK
5272	18" LIVE OAK (M) [10/8]
5273	9" LIVE OAK
5274	11" LIVE OAK
5275	8" LIVE OAK
5276	8" LIVE OAK
5277	35" LIVE OAK (M) [12/12/11]
5278	24" LIVE OAK
5279	36" LIVE OAK (M) [15/12/9]
5280	32" LIVE OAK (M) [14/18]
5281	31" LIVE OAK (M) [15/16]
5282	11" LIVE OAK
5283	8" LIVE OAK
5284	9" LIVE OAK

TREE LIST	
TAG #	Description
5285	16" LIVE OAK
5286	15" LIVE OAK
5287	11" LIVE OAK
5288	9" LIVE OAK
5289	20" LIVE OAK (M) [10/10]
5290	29" LIVE OAK (M) [10/4/15]
5291	8" LIVE OAK
5292	31" LIVE OAK (M) [9/11/11]
5293	10" LIVE OAK
5294	14" LIVE OAK
5295	11" LIVE OAK
5296	11" LIVE OAK
5297	10" LIVE OAK
5298	20" LIVE OAK (M) [11/9]
5299	10" LIVE OAK
5300	9" LIVE OAK
5301	17" LIVE OAK (M) [8/9]
5302	19" LIVE OAK (M) [9/10]
5303	8" LIVE OAK
5304	9" LIVE OAK
5305	13" LIVE OAK
5306	9" LIVE OAK
5307	11" LIVE OAK
5308	8" LIVE OAK
5309	8" LIVE OAK
5310	9" LIVE OAK
5311	8" LIVE OAK
5312	9" LIVE OAK
5313	9" LIVE OAK
5314	11" LIVE OAK
5315	16" LIVE OAK (M) [8/8]
5316	10" LIVE OAK
5317	9" SPANISH OAK
5318	30" LIVE OAK (M) [12/9/9]
5319	18" LIVE OAK (M) [8/10]
5320	12" LIVE OAK
5321	8" LIVE OAK
5322	8" LIVE OAK
5323	8" LIVE OAK
5324	8" LIVE OAK
5325	12" LIVE OAK
5326	11" LIVE OAK
5327	26" LIVE OAK (M) [8/9/9]
5328	11" LIVE OAK
5329	11" LIVE OAK
5330	41" LIVE OAK (M) [11/11/10/9]
5331	13" LIVE OAK
5332	28" LIVE OAK (M) [14/14]
5333	9" LIVE OAK
5334	8" LIVE OAK
5335	24" LIVE OAK
5336	9" LIVE OAK
5337	10" LIVE OAK
5338	15" LIVE OAK
5339	10" LIVE OAK
5340	8" LIVE OAK
5341	8" LIVE OAK
5342	18" LIVE OAK
5343	9" LIVE OAK
5344	9" LIVE OAK
5345	15" LIVE OAK
5346	9" LIVE OAK
5347	9" LIVE OAK
5348	9" LIVE OAK
5349	8" LIVE OAK
5350	8" LIVE OAK
5351	8" LIVE OAK
5352	11" LIVE OAK
5353	8" LIVE OAK
5354	8" LIVE OAK

TREE LIST	
TAG #	Description
5355	8" LIVE OAK
5356	8" LIVE OAK
5357	8" LIVE OAK
5358	25" LIVE OAK (M) [11/14]
5359	14" LIVE OAK
5360	13" LIVE OAK
5361	9" LIVE OAK
5362	11" LIVE OAK
5363	19" LIVE OAK (M) [10/9]
5364	17" LIVE OAK (M) [9/8]
5365	12" LIVE OAK
5366	9" LIVE OAK
5367	8" LIVE OAK
5368	14" LIVE OAK
5369	8" LIVE OAK
5370	9" LIVE OAK
5371	10" LIVE OAK
5372	9" LIVE OAK
5373	9" LIVE OAK
5374	8" LIVE OAK
5375	8" LIVE OAK
5376	8" LIVE OAK
5377	8" LIVE OAK
5378	11" LIVE OAK
5379	8" LIVE OAK
5380	15" LIVE OAK
5381	10" LIVE OAK
5382	11" LIVE OAK
5383	12" LIVE OAK
5384	[8/9]" LIVE OAK (M)
5385	10" LIVE OAK
5386	16" LIVE OAK (M) [8/8]
5387	8" LIVE OAK
5388	14" LIVE OAK
5389	8" LIVE OAK
5390	25" LIVE OAK (M) [8/9]
5391	8" LIVE OAK
5392	18" LIVE OAK (M) [8/10]
5393	9" LIVE OAK
5394	10" LIVE OAK
5395	10" LIVE OAK
5396	11" LIVE OAK
5397	10" LIVE OAK
5398	9" LIVE OAK
5399	8" LIVE OAK
5400	30" LIVE OAK (M) [8/10/12]
5401	14" LIVE OAK
5402	14" LIVE OAK
5403	8" LIVE OAK
5404	10" LIVE OAK
5405	10" LIVE OAK
5406	8" LIVE OAK
5407	13" LIVE OAK
5408	9" LIVE OAK
5409	20" LIVE OAK (M) [10/10]
5410	16" LIVE OAK (M) [8/8]
5411	12" LIVE OAK
5412	9" LIVE OAK
5413	9" LIVE OAK
5414	9" LIVE OAK
5415	11" LIVE OAK
5416	20" LIVE OAK (M) [11/9]
5417	10" LIVE OAK
5418	8" LIVE OAK
5419	11" LIVE OAK
5420	8" LIVE OAK
5421	12" LIVE OAK
5422	10" LIVE OAK
5423	13" LIVE OAK
5424	14" LIVE OAK

TREE LIST	
TAG #	Description
5425	12" LIVE OAK
5426	19" LIVE OAK (M) [10/9]
5427	11" LIVE OAK
5428	15" LIVE OAK
5429	11" LIVE OAK
5430	8" LIVE OAK
5431	18" LIVE OAK (M) [10/8]
5432	9" LIVE OAK
5433	9" LIVE OAK
5434	17" LIVE OAK (M) [9/8]
5435	15" LIVE OAK
5436	13" LIVE OAK
5437	12" LIVE OAK
5438	9" LIVE OAK
5439	9" LIVE OAK
5440	9" LIVE OAK
5441	9" LIVE OAK
5442	11" LIVE OAK
5443	13" LIVE OAK
5444	14" LIVE OAK
5445	12" LIVE OAK
5446	11" POST OAK
5447	8" LIVE OAK
5448	9" LIVE OAK
5449	8" LIVE OAK
5450	8" LIVE OAK
5451	9" LIVE OAK
5452	8" LIVE OAK
5453	15" LIVE OAK
5454	8" LIVE OAK
5455	8" LIVE OAK
5456	6" LIVE OAK
5457	9" LIVE OAK
5458	8" LIVE OAK
5459	13" LIVE OAK
5460	8" LIVE OAK
5461	9" LIVE OAK
5462	10" LIVE OAK
5463	17" LIVE OAK (M) [9/8]
5464	21" LIVE OAK
5465	13" LIVE OAK
5466	9" LIVE OAK
5467	8" LIVE OAK
5468	25" LIVE OAK (M) [15/10]
5469	21" LIVE OAK (M) [10/11]
5470	14" LIVE OAK
5471	9" LIVE OAK
5472	18" LIVE OAK
5473	16" LIVE OAK
5474	11" LIVE OAK
5475	13" LIVE OAK
5476	8" LIVE OAK
5477	8" LIVE OAK
5478	10" LIVE OAK
5479	14" LIVE OAK
5480	10" LIVE OAK
5481	12" LIVE OAK
5482	8" LIVE OAK
5483	9" LIVE OAK
5484	9" LIVE OAK
5485	10" LIVE OAK
5486	8" LIVE OAK
5487	10" LIVE OAK
5488	32" LIVE OAK (M) [18/14]
5489	12" LIVE OAK
5490	8" LIVE OAK
5491	8" LIVE OAK
5492	8" LIVE OAK
5493	10" LIVE OAK
5494	8" LIVE OAK

TREE LIST	
TAG #	Description
5495	8" LIVE OAK
5496	16" LIVE OAK (M) [8/8]
5497	12" LIVE OAK
5498	8" LIVE OAK
5499	11" LIVE OAK
5500	10" LIVE OAK
5501	10" LIVE OAK
5502	9" LIVE OAK
5503	15" LIVE OAK
5504	10" LIVE OAK
5505	15" LIVE OAK
5506	11" LIVE OAK
5507	9" LIVE OAK
5508	9" LIVE OAK
5509	8" LIVE OAK
5510	8" LIVE OAK
5511	8" LIVE OAK
5512	13" LIVE OAK
5513	26" LIVE OAK (M) [13/13]
5514	21" LIVE OAK
5515	10" LIVE OAK
5516	10" LIVE OAK
5517	9" LIVE OAK
5518	8" LIVE OAK
5519	14" LIVE OAK
5520	18" LIVE OAK (M) [9/8]
5521	18" LIVE OAK
5522	12" LIVE OAK
5523	8" LIVE OAK
5525	13" LIVE OAK
5526	10" LIVE OAK
5527	12" LIVE OAK
5528	11" LIVE OAK
5529	19" LIVE OAK (M) [9/10]
5530	8" LIVE OAK
5531	19" LIVE OAK (M) [10/9]
5532	10" LIVE OAK
5533	9" LIVE OAK
5534	27" LIVE OAK (M) [14/14]
5535	40" LIVE OAK (M) [15/9/8]
5536	10" LIVE OAK
5537	8" LIVE OAK
5538	12" LIVE OAK
5539	8" LIVE OAK
5540	8" LIVE OAK
5541	10" LIVE OAK
5542	31" LIVE OAK (M) [12/10/9]
5543	40" LIVE OAK (M) [15/9/8]
5544	10" LIVE OAK
5545	24" LIVE OAK (M) [12/12]
5546	9" LIVE OAK
5547	9" LIVE OAK
5548	9" LIVE OAK
5549	9" LIVE OAK
5550	9" LIVE OAK
5551	9" LIVE OAK
5552	10" LIVE OAK
5553	9" LIVE OAK
5554	9" LIVE OAK
5555	12" LIVE OAK
5556	13" LIVE OAK
5557	13" LIVE OAK
5558	13" LIVE OAK
5559	12" LIVE OAK
5560	13" LIVE OAK
5561	10" LIVE OAK
5562	9" LIVE OAK
5563	8" LIVE OAK
5564	15" LIVE OAK

TREE LIST	
TAG #	Description
5665	9" LIVE OAK
5666	19" LIVE OAK (M) [10/9]
5667	9" LIVE OAK
5668	11" LIVE OAK
5669	9" LIVE OAK
5670	9" LIVE OAK
5671	9" LIVE OAK
5672	13" LIVE OAK
5673	11" LIVE OAK
5674	27" LIVE OAK (M) [17/10]
5675	19" LIVE OAK (M) [10/9]
5676	16" LIVE OAK (M) [8/8]
5677	9" LIVE OAK
5678	8" LIVE OAK
5679	8" LIVE OAK
5680	10" LIVE OAK
5681	13" LIVE OAK
5682	14" LIVE OAK
5683	18" LIVE OAK
5684	29" LIVE OAK (M) [16/13]
5685	13" LIVE OAK
5686	13" LIVE OAK
5687	14" LIVE OAK
5688	8" LIVE OAK
5689	8" LIVE OAK
5690	13" LIVE OAK
5691	15" LIVE OAK
5692	9" LIVE OAK
5693	41" LIVE OAK (M) [15/14/12]
5694	10" LIVE OAK
5695	10" LIVE OAK
5696	15" LIVE OAK
5697	12" LIVE OAK
5698	14" LIVE OAK
5699	9" LIVE OAK
5700	11" LIVE OAK
5701	19" LIVE OAK (M) [9/10]
5702	10" LIVE OAK
5703	9" LIVE OAK
5704	8" LIVE OAK
5705	10" LIVE OAK
5706	9" LIVE OAK
5707	9" LIVE OAK
5708	8" LIVE OAK
5709	8" LIVE OAK
5710	8" LIVE OAK
5711	8" LIVE OAK
5712	11" LIVE OAK
5713	11" LIVE OAK
5714	9" LIVE OAK
5715	21" LIVE OAK (M) [9/12]
5716	10" LIVE OAK
5717	18" SPANISH OAK (M) [9/10]
5718	10" SPANISH OAK
5719	21" SPANISH OAK (M) [9/12]
5720	8" LIVE OAK
5721	21" LIVE OAK (M) [9/12]
5722	21" LIVE OAK
5723	8" LIVE OAK
5724	9" LIVE OAK
5725	11" LIVE OAK
5726	13" LIVE OAK
5727	11" LIVE OAK
5728	8" LIVE OAK
5729	9" LIVE OAK
5730	9" LIVE OAK
5731	10" LIVE OAK
5732	8" LIVE OAK
5733	8" LIVE OAK
5734	8" LIVE OAK

TREE LIST	
TAG #	Description
5735	8" LIVE OAK
5736	12" LIVE OAK
5737	8" LIVE OAK
5738	8" LIVE OAK
5739	16" LIVE OAK (M) [9/8]
5740	28" LIVE OAK (M) [12/16]
5741	18" LIVE OAK (M) [9/10]
5742	8" LIVE OAK
5743	9" LIVE OAK
5744	15" LIVE OAK
5745	8" LIVE OAK
5746	10" LIVE OAK
5747	9" LIVE OAK
5748	11" LIVE OAK

FLOOD NOTE: BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE X (NOT SHADED) - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 48209C0109F, THAT BEARS AN EFFECTIVE/REVISED DATE OF SEPTEMBER 2, 2005. THE SURVEYOR MAKES NO ASSURANCE AS TO THE ACCURACY OF THE DELINEATIONS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP. THIS STATEMENT IS NOT AN OPINION THAT THE PROPERTY WILL OR WILL NOT FLOOD.

BEARINGS ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH CENTRAL ZONE (NAD_83 (2011), GRID NORTH. ALL DISTANCES AND COORDINATES WERE ADJUSTED TO THE SURFACE USING A SURFACE ADJUSTMENT FACTOR OF 1.00007391360.

THE SYMBOLS REFLECTED IN THE LEGEND AND ON THIS SURVEY MAY HAVE BEEN ENLARGED FOR CLARITY. THE SYMBOLS HAVE BEEN PLOTTED NEAR THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE FEATURE.

THIS TOPOGRAPHIC MAP DOES NOT REPRESENT A BOUNDARY SURVEY, AND SHALL NOT BE USED FOR CONVEYANCE. THE LINES AND OTHER INFORMATION REPRESENTING THE PERIMETER OF THE PROPERTY ARE FOR GENERAL DESCRIPTIVE PURPOSES ONLY.

THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE OR TITLE COMMITMENT. THERE MAY BE EASEMENTS, OR OTHER MATTERS, NOT SHOWN HEREON, THAT MAY AFFECT THE PROPERTY. SURVEYOR HAS MADE NO INDEPENDENT INQUIRY AS TO EASEMENTS AND RESTRICTIONS AFFECTING THE PROPERTY.

VERTICAL POSITIONS WERE DETERMINED USING THE "TRIMBLE VRS NETWORK" AND GPS REAL TIME SURVEY METHODS AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (NAVD) 88, USING GEOID 12B.

SITE BENCHMARKS:

1967-34: 1/2 INCH IRON ROD WITH CAP STAMPED "CUNNINGHAM-ALLEN INC" SET ON THE WEST BOUNDARY LINE, OF WFC HEADWATERS REMAINDER OF 1035.74 ACRE TRACT, +/-624' NORTH OF THE SOUTHWEST BOUNDARY CORNER AND +/-33' SOUTH OF THE JOHN F. GILBERT SURVEY NO. 1717 ABSTRACT NO. 811 SURVEY LINE AND THE LEVI LEWIS SURVEY NO. 154 ABSTRACT NO. 639 SURVEY LINE.
ELEV.=1177.87'

NO ABOVEGROUND VISIBLE EVIDENCE OF THE FOLLOWING UTILITIES WERE OBSERVED ON THE SUBJECT SITE AS OF THE DATE OF SURVEY: ELECTRICAL, WATER, GAS, SEWER

UTILITY INFORMATION SHOWN HEREON IF ANY, CONSTITUTES FIELD RECOVERY OF OBSERVED EVIDENCE OF UTILITIES. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES, SUCH AS ELECTRICAL, TELEPHONE, CABLE TV AND PIPELINES, MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. FOR INFORMATION REGARDING BURIED UTILITIES/STRUCTURES OR BEFORE ANY EXCAVATION IS BEGUN, CONTACT THE APPROPRIATE AGENCIES FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATION.

TREES SHOWN HERE ON WERE LOCATED AND MEET THE STANDARDS SET FORTH IN THE CITY OF DRIPPING SPRINGS LANDSCAPE AND TREE PRESERVATION ORDINANCE. OTHER TREES AND VEGETATION MAY EXIST ON SITE.

TREE CROWNS SHOWN HERE ON ARE A GRAPHICAL DEPICTION OF THE PROBABLE EXTENTS OF THE TREE CANOPY BASED ON THE TRUNK SIZE USING THE FORMULA OF ONE (1) FOOT OF RADIUS FOR EVERY ONE (1) INCH OF TRUNK DIAMETER AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE TREE CANOPY. OTHER TREES AND VEGETATION MAY EXIST ON SITE.

(M) – TREE DIAMETER OF MULTI-TRUNK TREE DETERMINED BY ADDING THE DIAMETER OF THE LARGEST TRUNK TO THE DIAMETER OF EACH ADDITIONAL TRUNK

PREPARED BY:
CUNNINGHAM|ALLEN, INC

DATE OF LAST FIELD WORK: 02/13/2020

ISSUE DATE: 02/20/2020

STATE OF TEXAS · REGISTERED · TOMMY P. WATKINS · #5549 · PROFESSIONAL LAND SURVEYOR
02/20/2020

Cunningham | Allen
Engineers • Surveyors
3103 BEE CAVES ROAD, SUITE 202
AUSTIN, TEXAS 78746
TEL: (512) 327-2946
FAX: (512) 327-2973
www.cunningham-allen.com
TBPELS Reg. No. F-284
Firm No. 10000900

REVISION DESC.	DATE

TREE LOCATION AND TOPOGRAPHIC SURVEY OF +/-50 ACRES FOR DRIPPING SPRINGS I.S.D. HAYS COUNTY, TEXAS

DATE: 02-19-2020
PROJECT No.: 3672001
CREW & F.B.: JS/BW 1368-28
DRAWN BY: DK
ALT. SHEET NO.
3 OF 3

pfluger
office: 512.476.4040 | fax: 512.476.4288
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DSISD ES #6 - HEADWATERS SITE
HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ETJ, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT
300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

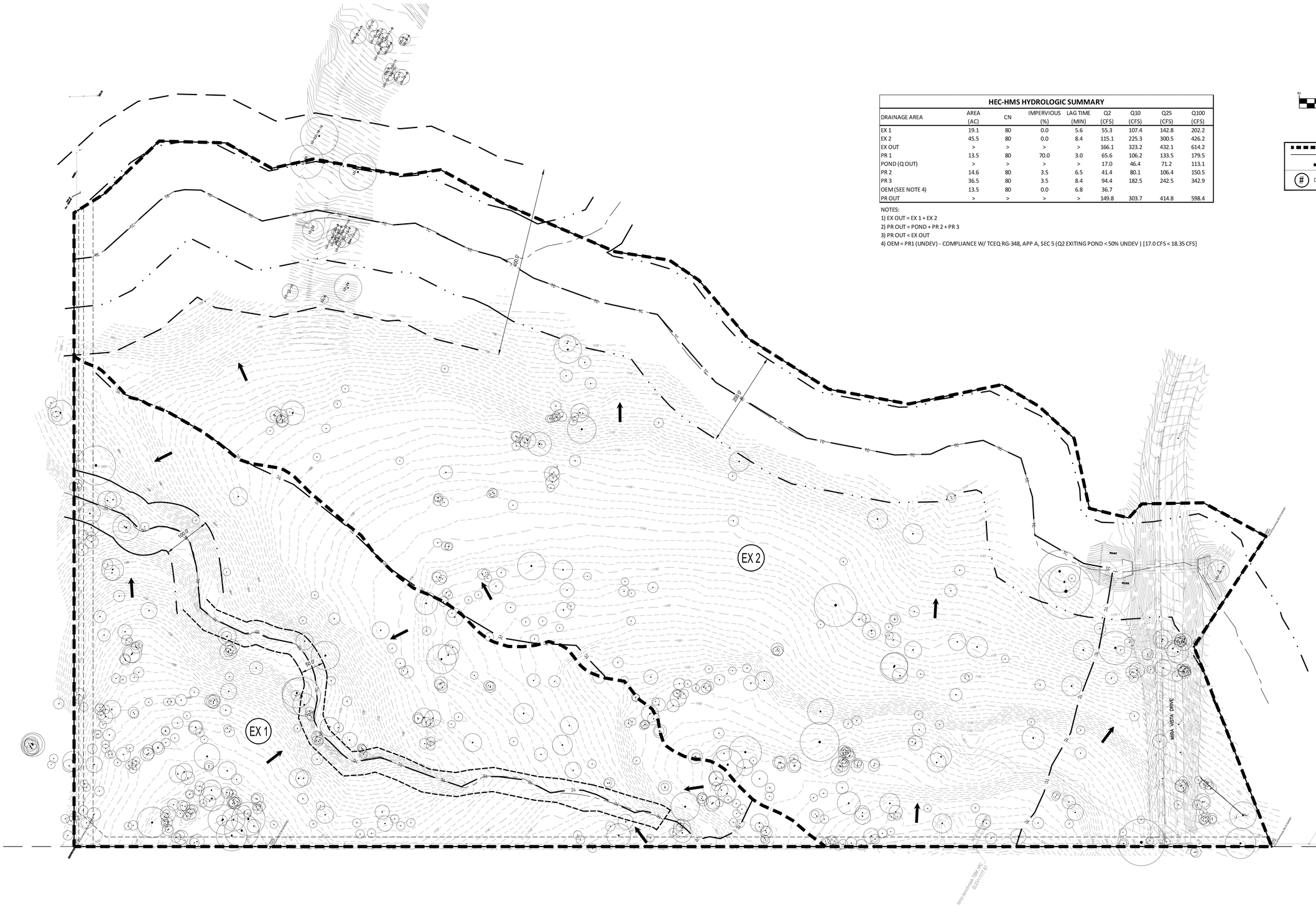
PROJECT NO. 4990401
DATE 05/24/23
AUTHOR CHECKED BY
REVISIONS:
No. Date Description

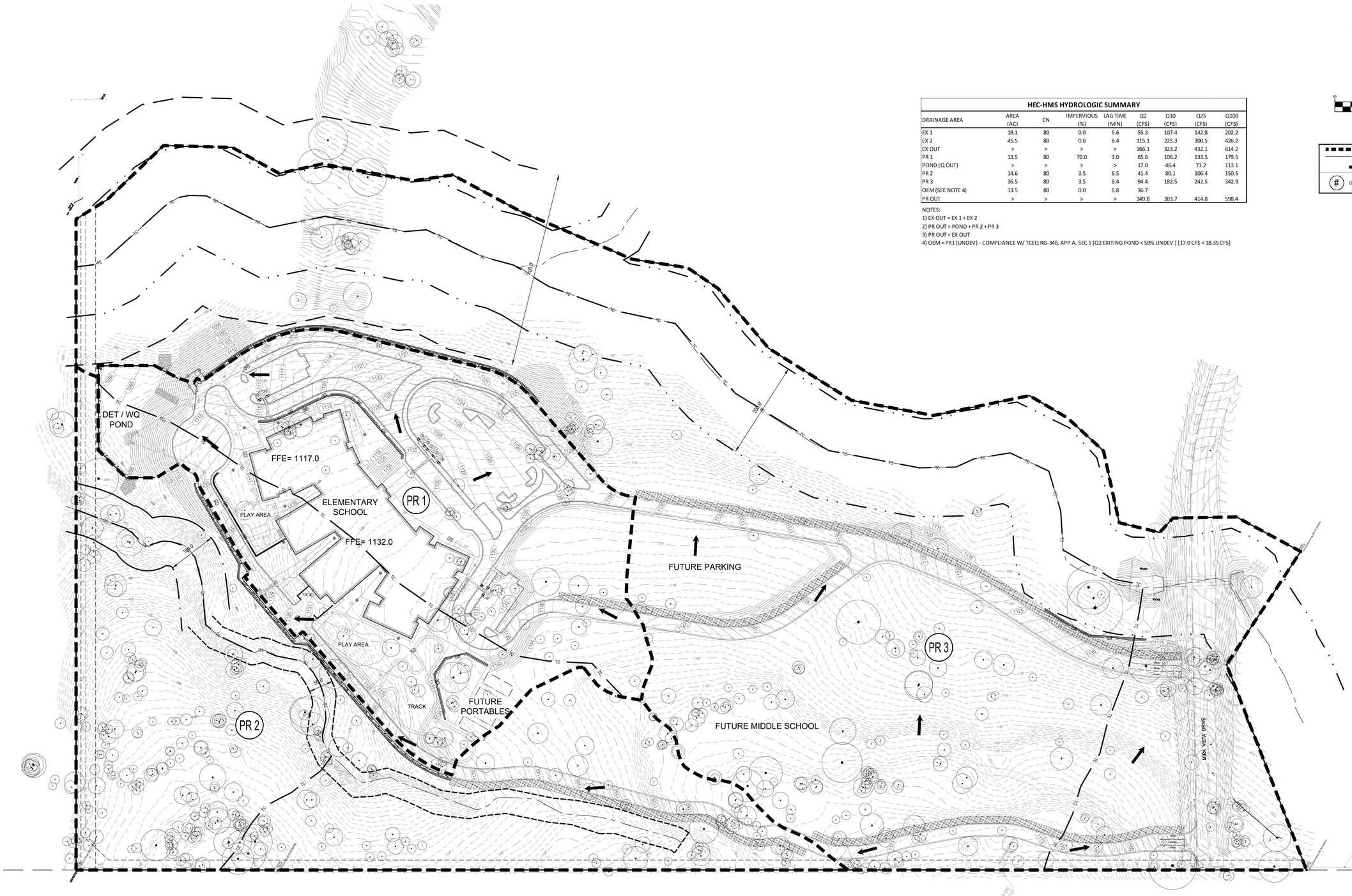
SURVEY

C2.2

!!! CAUTION !!!
EXISTING OVERHEAD UTILITIES IN VICINITY
CONTRACTOR SHALL EXERCISE EXTREME CAUTION
WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTIL


EX 1
EX 2
400.0'
200.0'
100.0'
60.0'
MIRA VISTA DRIVE
ROAD
ROAD
WATER MAIN
WATER MAIN
WATER MAIN



HEC-HMS HYDROLOGIC SUMMARY

DRAINAGE AREA	AREA (AC)	CN	IMPERVIOUS (%)	LAG TIME (MIN)	Q2 (CFS)	Q10 (CFS)	Q25 (CFS)	Q100 (CFS)
EX 1	19.1	80	0.0	5.6	55.3	107.4	142.8	202.2
EX 2	45.5	80	0.0	8.4	115.1	225.3	300.5	426.2
EX OUT	>	>	>	>	166.1	323.2	432.1	614.2
PR 1	13.5	80	70.0	3.0	65.6	106.2	133.5	179.5
POND (Q OUT)	>	>	>	>	17.0	46.4	71.2	113.1
PR 2	14.6	80	3.5	6.5	41.4	80.1	106.4	150.5
PR 3	36.5	80	3.5	8.4	94.4	182.5	242.5	342.9
OEM (SEE NOTE 4)	13.5	80	0.0	6.8	36.7			
PR OUT	>	>	>	>	149.8	303.7	414.8	598.4

NOTES:
1) EX OUT = EX 1 + EX 2
2) PR OUT = POND + PR 2 + PR 3
3) PR OUT < EX OUT
4) OEM = PR1 (UNDEV) - COMPLIANCE W/ TCEQ RG-348, APP A, SEC 5 (Q2 EXITING POND < 50% UNDEV) [17.0 CFS < 18.35 CFS]

GRAPHIC SCALE
80 0 40 80 160
(IN FEET)
SCALE = 1:80

DRAINAGE BOUNDARY LINE
TC TIME OF CONCENTRATION LINE
DRAINAGE FLOW ARROW
DRAINAGE LABEL

Tc Calculations (SCS Unit Hydrograph Model)

AREA No.	Sheet Flow					Shallow Concentrated Flow					Shallow Concentrated Flow					Open Channel Flow						Total T_c (minimum 5 min)		T lag
	L (ft)	n	s (ft/ft)	$P_{2\,(in)}$	$t_{sheet\ min}$	L (ft)	Surface	s (ft/ft)	V (fps)	$t_{shallow}$ min	L (ft)	Surface	s (ft/ft)	V (fps)	$t_{shallow}$ min	L (ft)	n	s (ft/ft)	R	V (fps)	$t_{channel}$ min	min	hrs	
EX 1	100	0.15	0.0500	4.06	6.03	165	Unpaved	0.0700	4.27	0.64	0	Unpaved	0.0100	1.61	0.00	1600	0.03	0.0400	1.00	9.93	2.68	9.36	0.16	5.6
EX 2	100	0.15	0.0750	4.06	5.13	520	Unpaved	0.1100	5.35	1.62	0	Unpaved	0.0100	1.61	0.00	2550	0.03	0.0140	1.00	5.88	7.23	13.98	0.23	8.4
PR 1	0	0.15	0.0200	4.06	0.00	0	Unpaved	0.0100	1.61	0.00	0	Unpaved	0.0100	1.61	0.00	0	0.15	0.0100	1.00	0.99	0.00	5.00	0.08	3.0
PR 2	100	0.15	0.0200	4.06	8.70	233	Unpaved	0.1350	5.93	0.66	0	Unpaved	0.0100	1.61	0.00	847	0.03	0.0400	1.00	9.93	1.42	10.77	0.18	6.5
PR 3	100	0.15	0.0750	4.06	5.13	520	Unpaved	0.1100	5.35	1.62	0	Unpaved	0.0100	1.61	0.00	2550	0.03	0.0140	1.00	5.88	7.23	13.98	0.23	8.4
OEM	100	0.15	0.0600	4.06	5.61	1070	Unpaved	0.0380	3.15	5.67	0	Unpaved	0.0100	1.61	0.00	0	0.03	0.0140	1.00	5.88	0.00	11.28	0.19	6.8

!!! CAUTION !!!
EXISTING OVERHEAD UTILITIES IN VICINITY CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE "ONE CALL" LOCATOR SERVICE AT (800) 344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

"RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS"

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T.B.P.E. Registration No. 8053

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209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DSISD ES #6 - HEADWATERS SITE

HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ETJ, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT
300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

STATE OF TEXAS
SEAN FRIEND
99671
LICENSED
PROFESSIONAL ENGINEER
December 19, 2023

PROJECT NO. 4990401
DATE 05/24/23
AUTHOR:___ CHECKED BY:__
REVISIONS:
NO. Date Description

POND DRAINAGE AREA MAP

C5

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_PROPOSED DA MAP.dwg Plotted By: Brian Green Date: 12/13/2023 8:26:40 AM Layout: POND DRAINAGE AREA MAP Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

SCALE = 1:50

LEGEND

- PROPOSED CURB & GUTTER (UNLESS OTHERWISE NOTED PLANS)
- PROPOSED CONCRETE SIDEWALK (SEE PLAN FOR WIDTHS)
- L.O.C. (LIMITS OF CONSTRUCTION)
- SF — SILT FENCE
- TP — TREE PROTECTION
- S.C.E. (TEMPORARY STABILIZED CONSTRUCTION ENTRANCE)
- S.C.S. (TEMPORARY SPOILS AND CONSTRUCTION STAGING)
- ROCK BERM
- 100 — PROPOSED CONTOURS

PROPOSED UTILITIES:	EXISTING UTILITIES:
FIRE HYDRANTS	FIRE HYDRANTS
WATER VALVE	WATER VALVE
MANHOLE (STORM)	MANHOLE (STORM)
MANHOLE (WW)	MANHOLE (WW)
INLET	INLET
WATER	WATER
WASTEWATER	WASTEWATER
STORM SEWER	STORM SEWER

- PROPERTY LINE
- PROPERTY LINE (ADJACENT)
- EXISTING EASEMENT
- EXISTING TREE (TO REMAIN)
- EXISTING TREE (REMOVAL)
- 50 ' STREAM BUFFERS
- 100 ' STREAM BUFFERS
- 200' STREAM BUFFERS
- 400' STREAM BUFFERS

SEE ALL NOTES SHEETS FOR ADDITIONAL REQUIREMENTS

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DRIPPING SPRINGS, TX 78620

STATE OF TEXAS — SEAN FRIEND — 99671 — LICENSED PROFESSIONAL ENGINEER

December 19, 2023

PROJECT NO.	4990401
DATE	05/24/23
AUTHOR___	CHECKED BY___

REVISIONS:

No.	Date	Description

EROSION & SEDIMENTATION CONTROL PLAN - SECTION 1

C7.1

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_EROSION CONTROL.dwg Plotted By: Brian Green Date: 12/13/2023 8:26:54 AM Layout: EROSION CONTROL - SECTION 1 Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####


HEADWATERS BLVD.
ASPHALT
MOONLIT STREAM PASS
DELTA
RIVER
PL
DET / WQ POND
LD-20-17
LD-21-15
LD-22
LD-23
LD-12-10
LD-10-8
LD-10-11
LD-10-12
LD-10-13
LD-10-14
LD-10-15
LD-10-16
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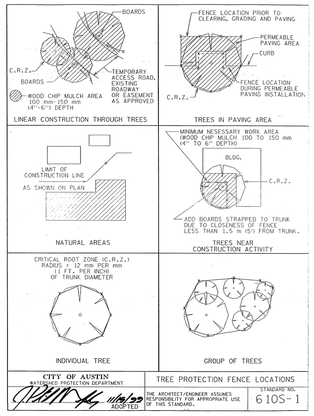
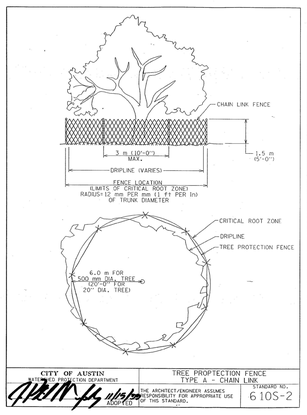
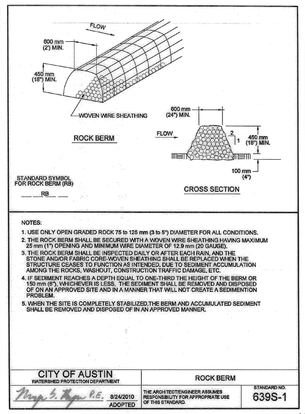
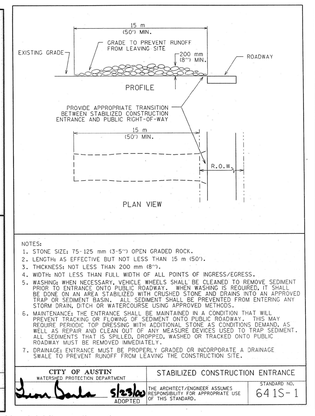
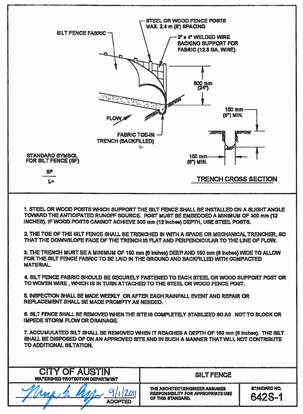
LD-10-50


BOARDS
C.R.Z.
TEMPORARY ACCESS ROAD, EXISTING ROADWAY OR EASEMENT AS APPROVED
WOOD CHIP MULCH AREA 100 mm-150 mm (4"-6") DEPTH
LINEAR CONSTRUCTION THROUGH TREES
FENCE LOCATION PRIOR TO CLEARING, GRADING AND PAVING
PERMEABLE PAVING AREA
CURB
FENCE LOCATION DURING PERMEABLE PAVING INSTALLATION
TREES IN PAVING AREA
MINIMUM NESESSARY WORK AREA (WOOD CHIP MULCH 100 TO 150 mm (4" TO 6" DEPTH)
LIMIT OF CONSTRUCTION LINE AS SHOWN ON PLAN
BLDG.
NATURAL AREAS
ADD BOARDS STRAPPED TO TRUNK DUE TO CLOSENESS OF FENCE LESS THAN 1.5 m (5') FROM TRUNK.
TREES NEAR CONSTRUCTION ACTIVITY
CRITICAL ROOT ZONE (C.R.Z.) RADIUS = 12 mm PER mm (1 FT. PER INCH) OF TRUNK DIAMETER
INDIVIDUAL TREE
GROUP OF TREES
CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
TREE PROTECTION FENCE LOCATIONS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED 1/01/22
STANDARD NO. 610S-1


CHAIN LINK FENCE
3 m (10'-0") MAX.
1.5 m (5'-0")
DRIPLINE (VARIES)
FENCE LOCATION
(LIMITS OF CRITICAL ROOT ZONE) RADIUS=12 mm PER mm (1 FT PER IN) OF TRUNK DIAMETER
CRITICAL ROOT ZONE
DRIPLINE
TREE PROTECTION FENCE
6.0 m FOR 500 mm DIA. TREE (20'-0" FOR 20" DIA. TREE)
CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
TREE PROPTECTION FENCE TYPE A - CHAIN LINK
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED 1/01/22
STANDARD NO. 610S-2


FLOW
600 mm (2') MIN.
400 mm (18") MIN.
WOVEN WIRE SHEATHING
ROCK BERM
600 mm (24") MIN.
400 mm (18") MIN.
100 mm (4")
CROSS SECTION
STANDARD SYMBOL FOR ROCK BERM (RB)
RB
NOTES:
1. USE ONLY OPEN GRADED ROCK 75 to 125 mm (3 to 5") DIAMETER FOR ALL CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).
3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORD /WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTION PROBLEM.
5. WHEN THE SITE IS COMPLETELY STABILIZED,THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
ROCK BERM
Mary S. Hayes, P.E. 8/24/2010 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 639S-1


15 m (50') MIN.
GRADE TO PREVENT RUNOFF FROM LEAVING SITE
200 mm (8") MIN.
EXISTING GRADE
ROADWAY
PROFILE
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY
15 m (50') MIN.
R.O.W.
PLAN VIEW
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 RIGHTS-OF-WAY. 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. DRAINAGES 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
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED 5/29/96
STANDARD NO. 641S-1


SILT FENCE FABRIC
STEEL OR WOOD FENCE POSTS MAX. 2.4 m (8') SPACING
2" x 4" WELDED WIRE BACKING SUPPORT FOR FABRIC (12.5 GA. W/W)
FLOW
800 mm (32")
150 mm (6") MIN.
FABRIC TOE-IN TRENCH (BACKFILLED)
150 mm (6") MIN.
STANDARD SYMBOL FOR SILT FENCE (SF)
SF
TRENCH CROSS SECTION
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
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED 9/1/94
STANDARD NO. 642S-1


FUTURE PARKING
FUTURE MIDDLE SCHOOL
MIRA VISTA DRIVE
ROCKS
GCCRD
1110'
1115'
1120'
1125'
1130'
1135'
1140'
1145'
1150'
1155'
1160'
1165'
1170'
1175'
1180'
1185'
1190'
1195'
1200'
1205'
1210'
1215'
1220'
1225'
1230'
1235'
1240'
1245'
1250'
1255'
1260'
1265'
1270'
1275'
1280'
1285'
1290'
1295'
1300'
1305'

TREE LIST	
TAG #	Description
5001	20" LIVE OAK (M) [13/13]
5002	13" LIVE OAK
5003	10" LIVE OAK
5004	8" LIVE OAK
5005	10" LIVE OAK
5006	9" LIVE OAK
5007	10" LIVE OAK
5008	9" LIVE OAK
5009	18" LIVE OAK (M) [12/11]
5010	23" LIVE OAK (M) [16/14]
5011	17" LIVE OAK
5012	8" LIVE OAK
5013	8" LIVE OAK
5014	11" LIVE OAK (M) [8/6]
5015	11" LIVE OAK (M) [9/4]
5016	10" LIVE OAK
5017	8" LIVE OAK
5018	8" LIVE OAK
5019	13" LIVE OAK (M) [9/8]
5020	11" LIVE OAK
5021	12" LIVE OAK
5022	13" LIVE OAK (M) [9/8]
5023	8" LIVE OAK
5024	16" LIVE OAK
5025	10" LIVE OAK (M) [8/4]
5026	8" LIVE OAK
5027	17" LIVE OAK (M) [10/7/6]
5028	9" CEDAR ELM
5029	13" LIVE OAK (M) [9/7]
5030	12" LIVE OAK (M) [8/7]
5031	11" LIVE OAK
5032	8" LIVE OAK
5033	8" LIVE OAK
5034	9" LIVE OAK
5035	8" LIVE OAK
5036	9" LIVE OAK
5037	12" LIVE OAK
5038	11" LIVE OAK
5039	17" LIVE OAK (M) [12/10]
5040	10" LIVE OAK
5041	9" LIVE OAK
5042	9" LIVE OAK
5043	8" LIVE OAK
5044	28" LIVE OAK
5045	32" LIVE OAK (M) [23/17]
5046	11" LIVE OAK
5047	8" LIVE OAK
5048	8" LIVE OAK
5049	10" LIVE OAK
5050	9" LIVE OAK
5051	10" LIVE OAK
5052	8" LIVE OAK
5053	11" LIVE OAK
5054	8" LIVE OAK
5055	9" LIVE OAK
5056	10" LIVE OAK
5057	35" LIVE OAK (M) [19/16]
5058	12" LIVE OAK
5059	21" LIVE OAK (M) [11/10]
5060	10" LIVE OAK
5061	9" LIVE OAK
5062	12" LIVE OAK
5063	23" LIVE OAK (M) [13/11/8]
5064	8" LIVE OAK
5065	44" LIVE OAK (M) [25/19]
5066	33" LIVE OAK
5067	57" LIVE OAK (M) [22/21/14]
5068	45" LIVE OAK (M) [14/15/16]
5069	15" LIVE OAK
5070	9" LIVE OAK

TREE LIST	
TAG #	Description
5071	19" LIVE OAK (M) [11/8]
5072	8" LIVE OAK
5073	8" LIVE OAK
5074	49" LIVE OAK (M) [14/13/13/9]
5075	8" LIVE OAK
5076	10" LIVE OAK
5077	8" LIVE OAK
5078	17" LIVE OAK
5079	14" LIVE OAK
5080	8" LIVE OAK
5081	8" LIVE OAK
5082	10" LIVE OAK
5083	12" LIVE OAK
5084	16" LIVE OAK
5085	12" LIVE OAK
5086	16" LIVE OAK
5087	8" LIVE OAK
5088	9" LIVE OAK
5089	8" LIVE OAK
5090	20" LIVE OAK (M) [10/10]
5091	8" LIVE OAK
5092	20" LIVE OAK
5093	22" LIVE OAK
5094	8" LIVE OAK
5095	15" LIVE OAK
5096	9" LIVE OAK
5097	14" LIVE OAK
5098	8" LIVE OAK
5099	8" LIVE OAK
5100	21" LIVE OAK (M) [11/10]
5101	8" LIVE OAK
5102	10" LIVE OAK
5103	10" LIVE OAK
5104	16" LIVE OAK (M) [12/8]
5105	17" LIVE OAK (M) [12/8]
5106	24" LIVE OAK (M) [17/14]
5107	8" LIVE OAK
5108	8" LIVE OAK
5109	9" LIVE OAK
5110	9" LIVE OAK
5111	12" LIVE OAK
5112	10" LIVE OAK
5113	8" LIVE OAK
5114	11" LIVE OAK
5116	13" LIVE OAK
5117	8" LIVE OAK
5118	8" LIVE OAK
5119	12" LIVE OAK
5120	10" LIVE OAK
5121	10" LIVE OAK
5122	13" LIVE OAK
5123	11" LIVE OAK
5124	11" LIVE OAK
5125	9" LIVE OAK
5126	10" LIVE OAK
5127	9" LIVE OAK
5128	9" LIVE OAK
5129	9" LIVE OAK
5130	8" LIVE OAK
5131	12" LIVE OAK
5132	20" LIVE OAK (M) [13/7]
5133	8" LIVE OAK
5134	13" LIVE OAK (M) [8/5]
5135	8" LIVE OAK
5136	8" LIVE OAK
5137	15" LIVE OAK (M) [8/7]
5138	9" LIVE OAK
5139	11" LIVE OAK
5140	21" LIVE OAK (M) [11/10]
5141	8" LIVE OAK

TREE LIST	
TAG #	Description
5142	9" LIVE OAK
5143	18" LIVE OAK (M) [13/9]
5144	22" LIVE OAK (M) [12/11/8]
5145	9" LIVE OAK
5146	34" LIVE OAK (M) [17/17]
5147	8" LIVE OAK
5148	17" LIVE OAK
5149	17" LIVE OAK
5150	33" LIVE OAK (M) [11/9/7/6]
5151	9" LIVE OAK
5152	8" LIVE OAK
5153	12" LIVE OAK
5154	10" LIVE OAK
5155	9" LIVE OAK
5156	19" LIVE OAK (M) [8/6/5]
5157	9" LIVE OAK
5158	9" LIVE OAK
5159	8" LIVE OAK
5160	10" LIVE OAK
5161	9" LIVE OAK
5162	8" LIVE OAK
5163	19" LIVE OAK (M) [12/7]
5164	14" POST OAK
5165	9" POST OAK
5166	15" LIVE OAK
5167	15" LIVE OAK
5168	9" LIVE OAK
5169	11" LIVE OAK
5170	12" LIVE OAK
5171	14" LIVE OAK
5172	16" LIVE OAK
5173	8" LIVE OAK
5174	16" POST OAK
5175	10" LIVE OAK
5176	9" LIVE OAK
5177	8" LIVE OAK
5178	13" LIVE OAK
5179	13" LIVE OAK
5180	30" LIVE OAK (M) [18/12]
5181	8" LIVE OAK
5182	20" LIVE OAK (M) [11/9]
5183	18" LIVE OAK (M) [10/8]
5184	8" LIVE OAK
5185	8" LIVE OAK
5186	8" LIVE OAK
5187	8" LIVE OAK
5188	11" LIVE OAK
5189	8" LIVE OAK
5190	8" LIVE OAK
5191	14" LIVE OAK
5192	8" LIVE OAK
5193	9" LIVE OAK
5194	9" LIVE OAK
5195	8" LIVE OAK
5196	8" LIVE OAK
5197	18" LIVE OAK
5198	13" LIVE OAK
5199	14" LIVE OAK
5200	10" LIVE OAK
5201	14" LIVE OAK
5202	8" LIVE OAK
5203	15" LIVE OAK
5204	13" LIVE OAK
5205	17" LIVE OAK (M) [9/8]
5206	9" LIVE OAK
5207	10" POST OAK
5208	25" LIVE OAK (M) [15/10]
5209	16" LIVE OAK
5210	9" LIVE OAK
5211	9" LIVE OAK

TREE LIST	
TAG #	Description
5212	9" LIVE OAK
5213	17" LIVE OAK
5214	21" LIVE OAK
5215	21" LIVE OAK (M) [11/10]
5216	9" LIVE OAK
5217	14" LIVE OAK
5221	8" LIVE OAK
5222	8" LIVE OAK
5223	12" LIVE OAK
5224	8" LIVE OAK
5225	10" LIVE OAK
5226	16" LIVE OAK
5227	29" LIVE OAK
5228	8" LIVE OAK
5229	16" LIVE OAK
5230	10" LIVE OAK
5231	10" LIVE OAK
5232	11" LIVE OAK
5233	8" LIVE OAK
5234	17" LIVE OAK (M) [9/8]
5235	8" LIVE OAK
5236	13" LIVE OAK
5237	11" LIVE OAK
5238	12" LIVE OAK
5239	14" LIVE OAK
5240	19" LIVE OAK
5241	20" LIVE OAK (M) [9/11]
5242	22" LIVE OAK
5243	16" LIVE OAK (M) [8/8]
5244	10" LIVE OAK
5245	14" LIVE OAK
5246	11" LIVE OAK
5247	23" LIVE OAK
5248	16" LIVE OAK
5249	17" LIVE OAK
5250	15" LIVE OAK
5251	11" LIVE OAK
5252	8" LIVE OAK
5253	8" LIVE OAK
5254	12" LIVE OAK
5255	8" LIVE OAK
5256	20" LIVE OAK
5257	17" LIVE OAK
5258	11" LIVE OAK
5259	11" LIVE OAK
5260	11" LIVE OAK
5261	9" LIVE OAK
5262	8" LIVE OAK
5263	10" LIVE OAK
5264	8" LIVE OAK
5265	9" LIVE OAK
5266	11" LIVE OAK
5267	15" LIVE OAK
5268	16" LIVE OAK (M) [8/8]
5269	9" LIVE OAK
5270	9" LIVE OAK
5271	9" LIVE OAK
5272	18" LIVE OAK (M) [10/8]
5273	9" LIVE OAK
5274	11" LIVE OAK
5275	8" LIVE OAK
5276	8" LIVE OAK
5277	35" LIVE OAK (M) [12/12/11]
5278	24" LIVE OAK
5279	36" LIVE OAK (M) [15/12/9]
5280	32" LIVE OAK (M) [14/18]
5281	31" LIVE OAK (M) [15/16]
5282	11" LIVE OAK
5283	8" LIVE OAK
5284	9" LIVE OAK

TREE LIST	
TAG #	Description
5285	16" LIVE OAK
5286	15" LIVE OAK
5287	11" LIVE OAK
5288	9" LIVE OAK
5289	20" LIVE OAK (M) [10/10]
5290	29" LIVE OAK (M) [10/4/15]
5291	8" LIVE OAK
5292	31" LIVE OAK (M) [9/11/11]
5293	10" LIVE OAK
5294	14" LIVE OAK
5295	11" LIVE OAK
5296	11" LIVE OAK
5297	10" LIVE OAK
5298	20" LIVE OAK (M) [11/9]
5299	10" LIVE OAK
5300	9" LIVE OAK
5301	17" LIVE OAK (M) [8/9]
5302	19" LIVE OAK (M) [9/10]
5303	8" LIVE OAK
5304	9" LIVE OAK
5305	13" LIVE OAK
5306	9" LIVE OAK
5307	11" LIVE OAK
5308	8" LIVE OAK
5309	8" LIVE OAK
5310	9" LIVE OAK
5311	8" LIVE OAK
5312	9" LIVE OAK
5313	9" LIVE OAK
5314	11" LIVE OAK
5315	16" LIVE OAK (M) [8/8]
5316	10" LIVE OAK
5317	9" SPANISH OAK
5318	30" LIVE OAK (M) [12/9/9]
5319	18" LIVE OAK (M) [8/10]
5320	12" LIVE OAK
5321	8" LIVE OAK
5322	8" LIVE OAK
5323	8" LIVE OAK
5324	8" LIVE OAK
5325	12" LIVE OAK
5326	11" LIVE OAK
5327	26" LIVE OAK (M) [8/9/9]
5328	11" LIVE OAK
5329	11" LIVE OAK
5330	41" LIVE OAK (M) [11/11/10/9]
5331	13" LIVE OAK
5332	28" LIVE OAK (M) [14/14]
5333	9" LIVE OAK
5334	8" LIVE OAK
5335	24" LIVE OAK [8/8/8]
5336	9" LIVE OAK
5337	10" LIVE OAK
5338	15" LIVE OAK
5339	10" LIVE OAK
5340	8" LIVE OAK
5341	8" LIVE OAK
5342	18" LIVE OAK
5343	9" LIVE OAK
5344	9" LIVE OAK
5345	15" LIVE OAK
5346	9" LIVE OAK
5347	9" LIVE OAK
5348	9" LIVE OAK
5349	8" LIVE OAK
5350	8" LIVE OAK
5351	8" LIVE OAK
5352	11" LIVE OAK
5353	8" LIVE OAK
5354	8" LIVE OAK

TREE LIST	
TAG #	Description
5355	8" LIVE OAK
5356	8" LIVE OAK
5357	8" LIVE OAK
5358	25" LIVE OAK (M) [11/14]
5359	14" LIVE OAK
5360	13" LIVE OAK
5361	9" LIVE OAK
5362	11" LIVE OAK
5363	19" LIVE OAK (M) [10/9]
5364	17" LIVE OAK (M) [9/8]
5365	12" LIVE OAK
5366	9" LIVE OAK
5367	8" LIVE OAK
5368	14" LIVE OAK
5369	8" LIVE OAK
5370	9" LIVE OAK
5371	10" LIVE OAK
5372	9" LIVE OAK
5373	9" LIVE OAK
5374	8" LIVE OAK
5375	8" LIVE OAK
5376	8" LIVE OAK
5377	8" LIVE OAK
5378	11" LIVE OAK
5379	8" LIVE OAK
5380	15" LIVE OAK
5381	10" LIVE OAK
5382	11" LIVE OAK
5383	12" LIVE OAK
5384	[8/9]" LIVE OAK (M)
5385	10" LIVE OAK
5386	16" LIVE OAK (M) [8/8]
5387	8" LIVE OAK
5388	14" LIVE OAK
5389	8" LIVE OAK
5390	25" LIVE OAK (M) [8/9]
5391	8" LIVE OAK
5392	18" LIVE OAK (M) [8/10]
5393	9" LIVE OAK
5394	10" LIVE OAK
5395	10" LIVE OAK
5396	11" LIVE OAK
5397	10" LIVE OAK
5398	9" LIVE OAK
5399	8" LIVE OAK
5400	30" LIVE OAK (M) [8/10/12]
5401	14" LIVE OAK
5402	14" LIVE OAK
5403	8" LIVE OAK
5404	10" LIVE OAK
5405	10" LIVE OAK
5406	8" LIVE OAK
5407	13" LIVE OAK
5408	9" LIVE OAK
5409	20" LIVE OAK (M) [10/10]
5410	16" LIVE OAK (M) [8/8]
5411	12" LIVE OAK
5412	9" LIVE OAK
5413	9" LIVE OAK
5414	9" LIVE OAK
5415	11" LIVE OAK
5416	20" LIVE OAK (M) [11/9]
5417	10" LIVE OAK
5418	8" LIVE OAK
5419	11" LIVE OAK
5420	8" LIVE OAK
5421	12" LIVE OAK
5422	10" LIVE OAK
5423	13" LIVE OAK
5424	14" LIVE OAK

TREE LIST	
TAG #	Description
5425	12" LIVE OAK
5426	19" LIVE OAK (M) [10/9]
5427	11" LIVE OAK
5428	15" LIVE OAK
5429	11" LIVE OAK
5430	8" LIVE OAK
5431	18" LIVE OAK (M) [10/8]
5432	9" LIVE OAK
5433	9" LIVE OAK
5434	17" LIVE OAK (M) [9/8]
5435	15" LIVE OAK
5436	13" LIVE OAK
5437	12" LIVE OAK
5438	9" LIVE OAK
5439	9" LIVE OAK
5440	9" LIVE OAK
5441	9" LIVE OAK
5442	11" LIVE OAK
5443	13" LIVE OAK
5444	14" LIVE OAK
5445	12" LIVE OAK
5446	11" POST OAK
5447	8" LIVE OAK
5448	9" LIVE OAK
5449	8" LIVE OAK
5450	8" LIVE OAK
5451	9" LIVE OAK
5452	8" LIVE OAK
5453	15" LIVE OAK
5454	8" LIVE OAK
5455	8" LIVE OAK
5456	8" LIVE OAK
5457	9" LIVE OAK
5458	8" LIVE OAK
5459	13" LIVE OAK
5460	8" LIVE OAK
5461	9" LIVE OAK
5462	10" LIVE OAK
5463	17" LIVE OAK (M) [9/8]
5464	21" LIVE OAK
5465	13" LIVE OAK
5466	9" LIVE OAK
5467	8" LIVE OAK
5468	25" LIVE OAK (M) [15/10]
5469	21" LIVE OAK (M) [10/11]
5470	14" LIVE OAK
5471	9" LIVE OAK
5472	18" LIVE OAK
5473	16" LIVE OAK
5474	11" LIVE OAK
5475	13" LIVE OAK
5476	8" LIVE OAK
5477	8" LIVE OAK
5478	10" LIVE OAK
5479	14" LIVE OAK
5480	10" LIVE OAK
5481	12" LIVE OAK
5482	8" LIVE OAK
5483	9" LIVE OAK
5484	9" LIVE OAK
5485	10" LIVE OAK
5486	8" LIVE OAK
5487	10" LIVE OAK
5488	32" LIVE OAK (M) [18/14]
5489	12" LIVE OAK
5490	8" LIVE OAK
5491	8" LIVE OAK
5492	8" LIVE OAK
5493	10" LIVE OAK
5494	8" LIVE OAK

TREE LIST	
TAG #	Description
5495	8" LIVE OAK
5496	16" LIVE OAK (M) [8/8]
5497	12" LIVE OAK
5498	8" LIVE OAK
5499	11" LIVE OAK
5500	10" LIVE OAK
5601	10" LIVE OAK
5602	9" LIVE OAK
5603	15" LIVE OAK
5604	10" LIVE OAK
5605	15" LIVE OAK
5606	11" LIVE OAK
5607	9" LIVE OAK
5608	9" LIVE OAK
5609	8" LIVE OAK
5610	8" LIVE OAK
5611	8" LIVE OAK
5612	13" LIVE OAK
5613	26" LIVE OAK (M) [13/13]
5614	21" LIVE OAK
5615	10" LIVE OAK
5616	10" LIVE OAK
5617	9" LIVE OAK
5618	8" LIVE OAK
5619	14" LIVE OAK
5620	18" LIVE OAK (M) [9/8]
5621	18" LIVE OAK
5622	12" LIVE OAK
5623	8" LIVE OAK
5624	8" LIVE OAK
5625	13" LIVE OAK
5626	10" LIVE OAK
5627	12" LIVE OAK
5628	11" LIVE OAK
5629	9" LIVE OAK
5630	11" LIVE OAK
5631	19" LIVE OAK (M) [10/9]
5632	10" LIVE OAK
5633	9" LIVE OAK
5634	27" LIVE OAK (M) [9/
5635	8" LIVE OAK
5636	9" LIVE OAK
5637	8" LIVE OAK
5638	12" LIVE OAK
5639	8" LIVE OAK
5640	8" LIVE OAK
5641	10" LIVE OAK
5642	31" LIVE OAK (M) [12/10/9]
5643	40" LIVE OAK (M) [15/9/8]
5644	10" LIVE OAK
5645	24" LIVE OAK (M) [12/12]
5646	9" LIVE OAK
5647	9" LIVE OAK
5648	9" LIVE OAK
5649	9" LIVE OAK
5650	9" LIVE OAK
5651	9" LIVE OAK
5652	10" LIVE OAK
5653	9" LIVE OAK
5654	9" LIVE OAK
5655	12" LIVE OAK
5656	13" LIVE OAK
5657	13" LIVE OAK
5658	13" LIVE OAK
5659	12" LIVE OAK
5660	13" LIVE OAK
5661	10" LIVE OAK
5662	9" LIVE OAK
5663	8" LIVE OAK
5664	15" LIVE OAK

TREE LIST	
TAG #	Description
5665	9" LIVE OAK
5666	19" LIVE OAK (M) [10/9]
5667	9" LIVE OAK
5668	11" LIVE OAK
5669	9" LIVE OAK
5670	9" LIVE OAK
5671	9" LIVE OAK
5672	13" LIVE OAK
5673	11" LIVE OAK
5674	27" LIVE OAK (M) [17/10]
5675	19" LIVE OAK (M) [10/9]
5676	16" LIVE OAK (M) [8/8]
5677	9" LIVE OAK
5678	8" LIVE OAK
5679	8" LIVE OAK
5680	10" LIVE OAK
5681	13" LIVE OAK
5682	14" LIVE OAK
5683	18" LIVE OAK
5684	29" LIVE OAK (M) [16/13]
5685	13" LIVE OAK
5686	13" LIVE OAK
5687	14" LIVE OAK
5688	8" LIVE OAK
5689	8" LIVE OAK
5690	13" LIVE OAK
5691	15" LIVE OAK
5692	9" LIVE OAK
5693	41" LIVE OAK (M) [15/14/12]
5694	10" LIVE OAK
5695	10" LIVE OAK
5696	15" LIVE OAK
5697	12" LIVE OAK
5698	14" LIVE OAK
5699	9" LIVE OAK
5700	11" LIVE OAK
5701	19" LIVE OAK (M) [9/10]
5702	10" LIVE OAK
5703	9" LIVE OAK
5704	8" LIVE OAK
5705	10" LIVE OAK
5706	9" LIVE OAK
5707	9" LIVE OAK
5708	8" LIVE OAK
5709	8" LIVE OAK
5710	8" LIVE OAK
5711	8" LIVE OAK
5712	11" LIVE OAK
5713	11" LIVE OAK
5714	9" LIVE OAK
5715	21" LIVE OAK (M) [9/12]
5716	10" LIVE OAK
5717	18" SPANISH OAK (M) [9/10]
5718	10" SPANISH OAK
5719	21" SPANISH OAK (M) [9/12]
5720	8" LIVE OAK
5721	21" LIVE OAK (M) [9/12]
5722	21" LIVE OAK
5723	8" LIVE OAK
5724	9" LIVE OAK
5725	11" LIVE OAK
5726	13" LIVE OAK
5727	11" LIVE OAK
5728	8" LIVE OAK
5729	9" LIVE OAK
5730	9" LIVE OAK
5731	10" LIVE OAK
5732	8" LIVE OAK
5733	8" LIVE OAK
5734	8" LIVE OAK

TREE LIST	
TAG #	Description
5735	8" LIVE OAK
5736	12" LIVE OAK
5737	8" LIVE OAK
5738	8" LIVE OAK
5739	16" LIVE OAK (M) [8/8]
5740	28" LIVE OAK (M) [12/16]
5741	18" LIVE OAK (M) [9/10]
5742	8" LIVE OAK
5743	9" LIVE OAK
5744	15" LIVE OAK
5745	8" LIVE OAK
5746	10" LIVE OAK
5747	9" LIVE OAK
5748	11" LIVE OAK

TREE#	TYPE & SIZE
210415	ASH-13-10
210355	LO-10
210412	LO-10
210413	LO-10
210320	LO-10-10
210316	LO-10-6
210318	LO-10-9
210317	LO-11
210319	LO-11
210353	LO-11
210357	LO-11
210414	LO-11-6
210315	LO-11-8
210322	LO-12
210406	LO-12-10
210427	LO-12-10
210351	LO-12-8
210411	LO-12-8
210354	LO-13
240059	LO-16-14
210204	LO-20-17
210400	LO-22
210363	LO-23-18-15
210420	LO-29
210366	LO-35
210370	LO-39
210407	LO-8
210408	LO-8
210410	LO-8
210423	LO-8
210293	LO-8-6
210294	LO-9
210356	LO-9
210324	LO-9-8-4-4

TREE ABBREVIATIONS:

AE=AMERICAN ELM
BE=BOXELDER
BOIS=BOIS D' ARC
BP=BRADFORD PEAR
CB=CHINABERRY
CE=CEDAR ELM
CED=CEDAR
CM=CREPE MYRTLE
CT=CHINESE TALLOW
CW=COTTONWOOD
CYP=CYPRESS
HB=HACKBERRY
LO=LIVEOAK
MSQ=MESQUITE
MUL=MULBERRY
PEC=PECAN
PO=POST OAK
RO=RED OAK
SHIN=SHIN OAK
SHU=SHUMARDI
SO=SPANISH OAK
SYC=SYCAMORE
WAL=WALNUT
WIL=WILLOW
WO=WHITEOAK

UNLABELED IS ORNAMENTAL

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

SCALE = 1:50

LEGEND

- PROPOSED CURB & GUTTER (UNLESS OTHERWISE NOTED PLANS)
- PROPOSED CONCRETE SIDEWALK (SEE PLAN FOR WIDTHS)
- PROPOSED CONCRETE AREAS (TO BE CONSTRUCTED WITH LOTS)
- PROPOSED CONCRETE AREAS (TO BE CONSTRUCTED WITH STREETS)
- L.O.C. (LIMITS OF CONSTRUCTION)
- L.O.C. (LIMITS OF CONSTRUCTION)
- SF — SILT FENCE
- TP — TREE PROTECTION
- TFD — TRIANGULAR FILTER DIKE
- MS — MULCH SOG/LOG
- S.C.E. (TEMPORARY STABILIZED CONSTRUCTION ENTRANCE)
- S.C.S. (TEMPORARY SPOILS AND CONSTRUCTION STAGING)
- ROCK BERM
- 100 — PROPOSED CONTOURS
- +100 — PROPOSED SPOT GRADES
- +100 — *EXISTING SPOT GRADES*

PROPOSED UTILITIES:	*EXISTING UTILITIES:*
FIRE HYDRANTS	*FIRE HYDRANTS*
WATER VALVE	*WATER VALVE*
MANHOLE (STORM)	*MANHOLE (STORM)*
MANHOLE (WW)	*MANHOLE (WW)*
INLET	*INLET*
WATER	*WATER*
WASTEWATER	*WASTEWATER*
STORM SEWER	*STORM SEWER*

SEE ALL NOTES SHEETS FOR ADDITIONAL REQUIREMENTS

!!! CAUTION !!!
EXISTING OVERHEAD UTILITIES IN VICINITY CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE "ONE CALL" LOCATOR SERVICE AT (800) 344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

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pfluger
office: 512.476.4040 | fax: 512.476.4288
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DSISD ES #6 - HEADWATERS SITE

HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ET1, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT

300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

STATE OF TEXAS — SEAN FRIEND — 99671 — LICENSED PROFESSIONAL ENGINEER
December 19, 2023

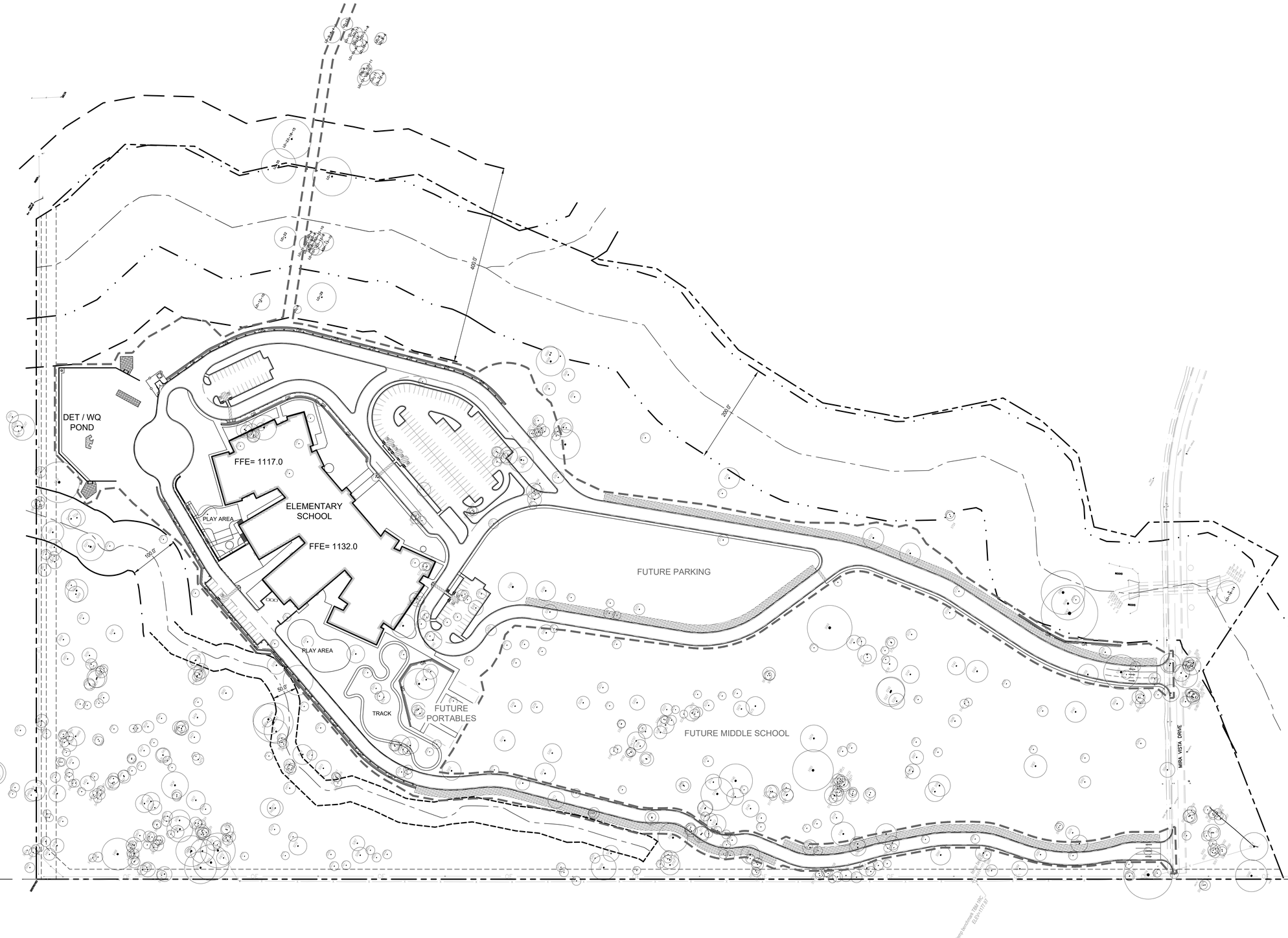
PROJECT NO. 4990401
DATE 05/24/23
AUTHOR ____ CHECKED BY ____
REVISIONS:

No.	Date	Description

EROSION & SEDIMENTATION CONTROL PLAN
TREE LIST

C7.4

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_EROSION CONTROL.dwg Plotted By: Brian Green Date: 12/13/2023 8:27:23 AM Layout: TREE LIST Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####



GRAPHIC SCALE

80 0 40 80 160

(IN FEET)

SCALE = 1:80

LEGEND

- PROPOSED ACCESSIBLE ROUTE
- PROPOSED CURB & GUTTER (UNLESS OTHERWISE NOTED PLANS)
- SDWK PROPOSED CONCRETE SIDEWALK (SEE PLAN FOR WIDTHS)
- PROPOSED CONCRETE AREAS
- PROPOSED CONCRETE AREAS
- BUILDING OVERHEAD HATCH
- L.O.C. (LIMITS OF CONSTRUCTION)
- FIRE LANE PROPOSED FIRE LANE (REFER TO PLAN FOR STRIPING NOTES)

PROPOSED UTILITIES:	*EXISTING UTILITIES:*
FIRE HYDRANTS	*FIRE HYDRANTS*
WATER VALVE	*WATER VALVE*
MANHOLE (STORM)	*MANHOLE (STORM)*
MANHOLE (WW)	*MANHOLE (WW)*
INLET	*INLET*
WATER	*WATER*
WASTEWATER	*WASTEWATER*
STORM SEWER	*STORM SEWER*

- PROPERTY LINE
- PROPERTY LINE (ADJACENT)
- EXISTING EASEMENT
- 100 EXISTING TREE (TO REMAIN)
- 50 ' STREAM BUFFERS
- 100 ' STREAM BUFFERS
- 200' STREAM BUFFERS
- 400' STREAM BUFFERS

SEE ALL NOTES SHEETS FOR ADDITIONAL REQUIREMENTS

!!! CAUTION !!!

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DSISD ES #6 - HEADWATERS SITE

HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ETJ, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT

300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

STATE OF TEXAS
SEAN FRIEND
99671
LICENSED PROFESSIONAL ENGINEER
December 19, 2023

PROJECT NO.	4990401
DATE	05/24/23
AUTHOR:___	CHECKED BY:__

REVISIONS:

No.	Date	Description

OVERALL SITE PLAN

C8

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_SITE.dwg Plotted By: Brian Green Date: 12/13/2023 8:27:32 AM Layout: OVERALL SITE PLAN Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####

DET / WQ POND

FFE= 1117.0

ELEMENTARY SCHOOL

FFE= 1132.0

PLAY AREA

PLAY AREA

TRACK

FUTURE PORTABLES

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)

SCALE = 1:30

LEGEND

- PROPOSED CURB & GUTTER (UNLESS OTHERWISE NOTED PLANS)
- PROPOSED CONCRETE SIDEWALK (SEE PLAN FOR WIDTHS)
- PROPOSED CONCRETE AREAS (TO BE CONSTRUCTED WITH LOTS)
- PROPOSED CONCRETE AREAS (TO BE CONSTRUCTED WITH STREETS)
- L.O.C. (LIMITS OF CONSTRUCTION)
- PROPOSED CONTOURS
- PROPOSED SPOT GRADES
- *EXISTING SPOT GRADES*

PROPOSED UTILITIES:	*EXISTING UTILITIES:*
FIRE HYDRANTS	*FIRE HYDRANTS*
WATER VALVE	*WATER VALVE*
MANHOLE (STORM)	*MANHOLE (STORM)*
MANHOLE (WW)	*MANHOLE (WW)*
INLET	*INLET*
WATER	*WATER*
WASTEWATER	*WASTEWATER*
STORM SEWER	*STORM SEWER*

- PROPERTY LINE
- PROPERTY LINE (ADJACENT)
- EXISTING EASEMENT
- EXISTING TREE (TO REMAIN)
- 50 ' STREAM BUFFERS
- 100 ' STREAM BUFFERS
- 200' STREAM BUFFERS
- 400' STREAM BUFFERS

SEE ALL NOTES SHEETS FOR ADDITIONAL REQUIREMENTS

!!! CAUTION !!!

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STATE OF TEXAS
SEAN FRIEND
99671
LICENSED PROFESSIONAL ENGINEER
December 19, 2023

PROJECT NO.	4990401
DATE	05/24/23
AUTHOR:__	CHECKED BY:__

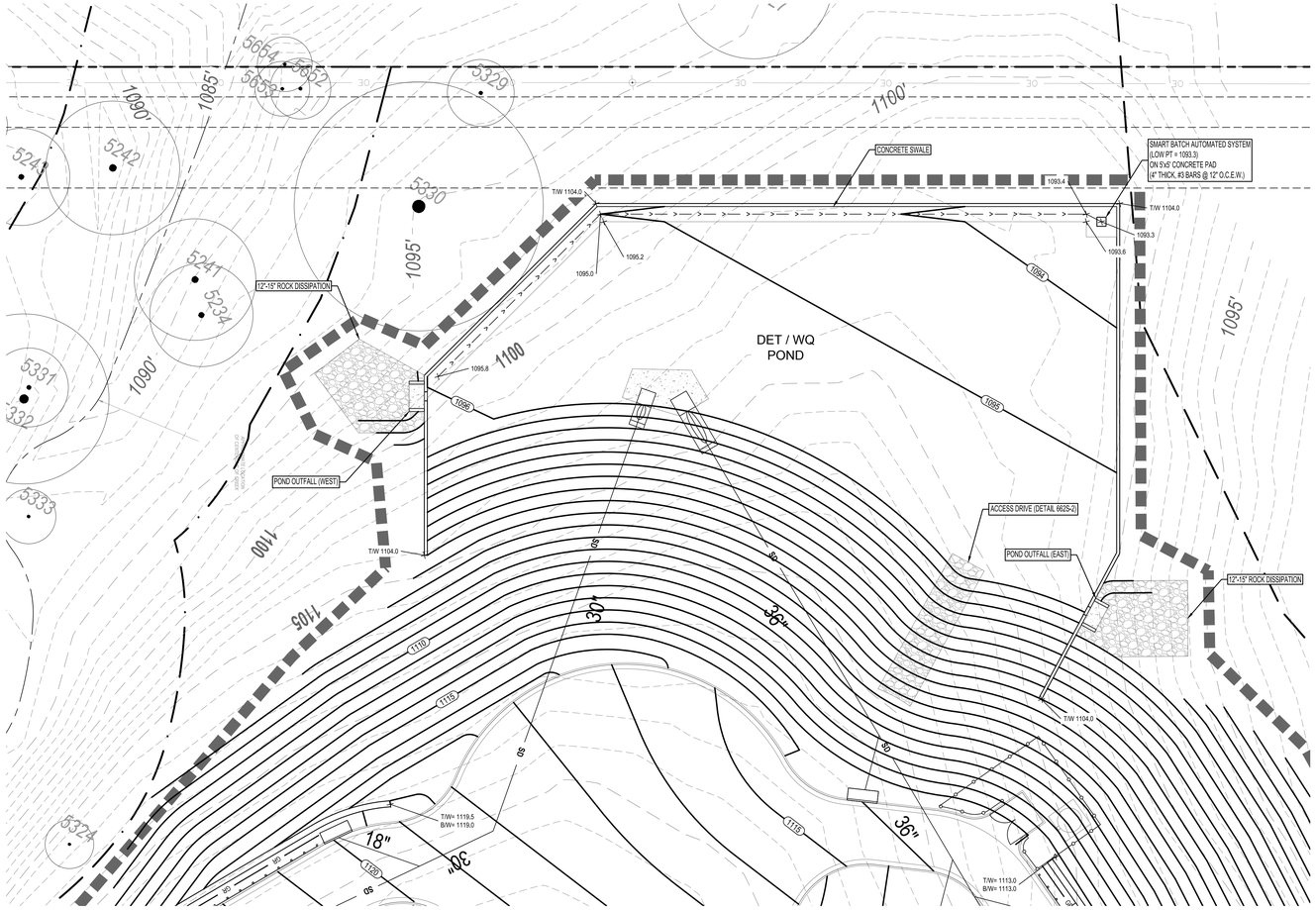
REVISIONS

No.	Date	Description

STORM SEWER PLAN

C11.1

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_STORM SEWER PLAN.dwg Plotted By: Brian Green Date: 12/13/2023 8:27:43 AM Layout: STORM SEWER PLAN Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####


DET / WQ POND
CONCRETE SWALE
SMART BATCH AUTOMATED SYSTEM (LOW PT = 1093.3) ON 5'x5' CONCRETE PAD (4" THICK, #3 BARS @ 12" O.C.E.W.)
12'-15' ROCK DISSIPATION
POND OUTFALL (WEST)
POND OUTFALL (EAST)
ACCESS DRIVE (DETAIL 662S-2)
T/W 1104.0
T/W 1102.0
T/W 1093.4
T/W 1093.3
T/W 1095.8
T/W 1095.0
T/W 1095.2
T/W 1119.5
B/W= 1119.0
T/W= 1113.0
B/W= 1113.0
1090'
1085'
1100'
1095'
1105'
1110'
1115'
1120'
1125'
1130'
1135'
1140'
1145'
1150'
1155'
1160'
1165'
1170'
1175'
1180'
1185'
1190'
1195'
1200'
1205'
1210'
1215'
1220'
1225'
1230'
1235'
1240'
1245'
1250'
1255'
1260'
1265'
1270'
1275'
1280'
1285'
1290'
1295'
1300'

stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.

10. The following records should be maintained and made available to the TCEQ upon request:
    - the dates when major grading activities occur;
    - the dates when construction activities temporarily or permanently cease on a portion of the site; and
    - the dates when stabilization measures are initiated.

11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

    A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;

    B. any change in the nature or character of the regulated activity from that which was originally approved;

    C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or

    D. any development of land previously identified as undeveloped in the approved contributing zone plan.

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

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

Texas Commission on Environmental Quality
Contributing Zone Plan
General Construction Notes

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any ground disturbance or construction activities. This notice must include:
   - the name of the approved project;
   - the activity start date; and
   - the contact information of the prime contractor.
2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter on-site.
3. No hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
4. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
5. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
6. Sediment must be removed from the sediment traps or sedimentation basins when it occupies 50% of the basin's design capacity.
7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
8. All excavated material that will be stored on-site must have proper E&S controls.
9. If portions of the site will have a cease in construction activity lasting longer than 14 days, soil

DSISD ES 6
Batch Detention Pond

Drainage Area Data

Drainage Area Control (DA)	13.50 AC
Drainage Area Impervious Cover	9.45
	70 %

Water Quality Control Calculations :	Required		Provided	
Load Removal (L_M) for this basin	8,482	LB	8,759	LB
Water Quality Volume:				
On-site Water Quality Volume	34,196	CF		
Storage for Sediment	6,839	CF		
Total WQV	41,035	CF	42,160	CF
Water Quality Elevation	1,097.00	FT		
Elevation of Overflow	1,097.00	FT	1,097.30	FT

Batch Detention Pond:

Stage (ft)*		Area (sf)		Storage (cf)			
Elev	Depth	Area	Avg Area	Inc. Vol	Total Vol		
	ft	sf	sf	cf	cf		ac-ft
1093.3		0			0		0.00
1094.0	0.7	1,140	570	399	399		0.01
1095.0	1.0	6,920	4,030	4,030	4,429		0.10
1096.0	1.0	18,450	12,685	12,685	17,114		0.39
1097.0	1.0	19,600	19,025	19,025	36,139		0.83
1098.0	1.0	20,540	20,070	20,070	56,209		1.29
1099.0	1.0	21,470	21,005	21,005	77,214		1.77
1100.0	1.0	22,400	21,935	21,935	99,149		2.28
1104.0	4.0	26,030	24,215	96,860	196,009		4.50

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: DSISD ES 6
Date Prepared:

1. The Required Load Reduction for the total project: Calculations from RG-348

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

County =	Hays	
Total project area included in plan * =	13.50	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	9.45	acres
Total post-development impervious cover fraction * =	0.70	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	8482	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. = 1

Total drainage basin/outfall area =	13.50	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	9.45	acres
Post-development impervious fraction within drainage basin/outfall area =	0.70	
$L_{M\ THIS\ BASIN}$ =	8482	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter **BATCH DETENTION**
Removal efficiency = 91 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: 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 =	13.50	acres
A_I =	9.45	acres
A_P =	4.05	acres
L_R =	9885	lbs

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

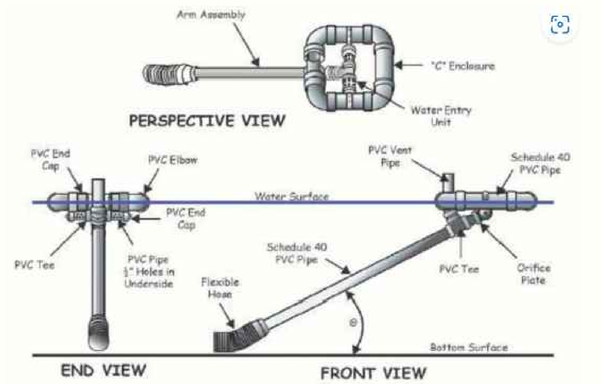
Desired $L_{M\ THIS\ BASIN}$ = 8482 lbs.

F = 0.86

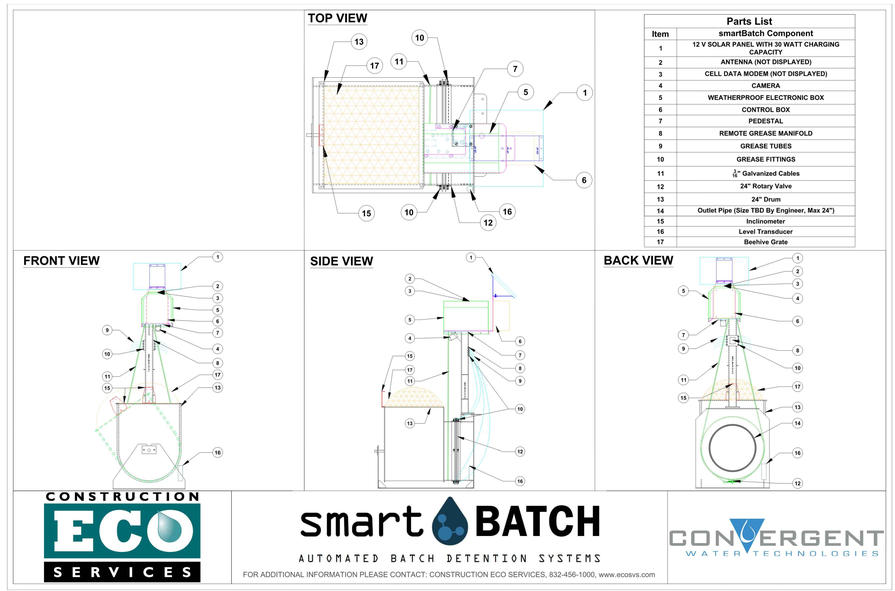
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348

Rainfall Depth =	1.38	inches
Post Development Runoff Coefficient =	0.51	
On-site Water Quality Volume =	34196	cubic feet
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 =	6839	
Total Capture Volume (required water quality volume(s) x 1.20) =	41035	cubic feet

Figure 1.4.5.K.1



DEWATERING SKIMMER

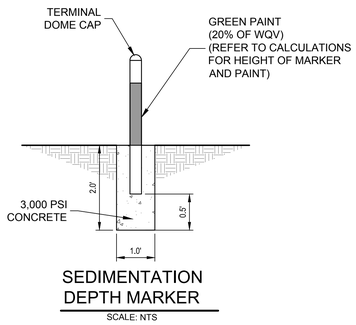


Parts List	
Item	smartBatch Component
1	12 V SOLAR PANEL WITH 30 WATT CHARGING CAPACITY
2	ANTENNA (NOT DISPLAYED)
3	CELL DATA MODEM (NOT DISPLAYED)
4	CAMERA
5	WEATHERPROOF ELECTRONIC BOX
6	CONTROL BOX
7	PEDESTAL
8	REMOTE GREASE MANIFOLD
9	GREASE TUBES
10	GREASE FITTINGS
11	¼" Galvanized Cables
12	24" Rotary Valve
13	24" Drum
14	Outlet Pipe (Size TBD By Engineer, Max 24")
15	Inclinometer
16	Level Transducer
17	Beehive Grate

CONSTRUCTION ECO SERVICES

smartBATCH
AUTOMATED BATCH DETENTION SYSTEMS
FOR ADDITIONAL INFORMATION PLEASE CONTACT: CONSTRUCTION ECO SERVICES, 832-456-1000, www.ecosvs.com

CONVERGENT WATER TECHNOLOGIES



SEDIMENTATION DEPTH MARKER
SCALE: NTS

!!! CAUTION !!!
EXISTING OVERHEAD UTILITIES IN VICINITY CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE "ONE CALL" LOCATOR SERVICE AT (800) 344-8377 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

"RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS"

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Walker Partners engineers | surveyors
T.B.P.E. Registration No. 8053

pfluger
office: 512.476.4040 | fax: 512.476.4288
209 E. Riverside Drive Austin, Texas 78704
pflugerarchitects.com

DSISD ES #6 - HEADWATERS SITE
HEADWATERS AT BARTON CREEK SUBDIVISION
DRIPPING SPRINGS ETJ, TX
HAYS COUNTY

DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT
300 SPORTSPLEX DRIVE
DRIPPING SPRINGS, TX 78620

STATE OF TEXAS
SEAN FRIEND
99671
LICENSED PROFESSIONAL ENGINEER
December 19, 2023

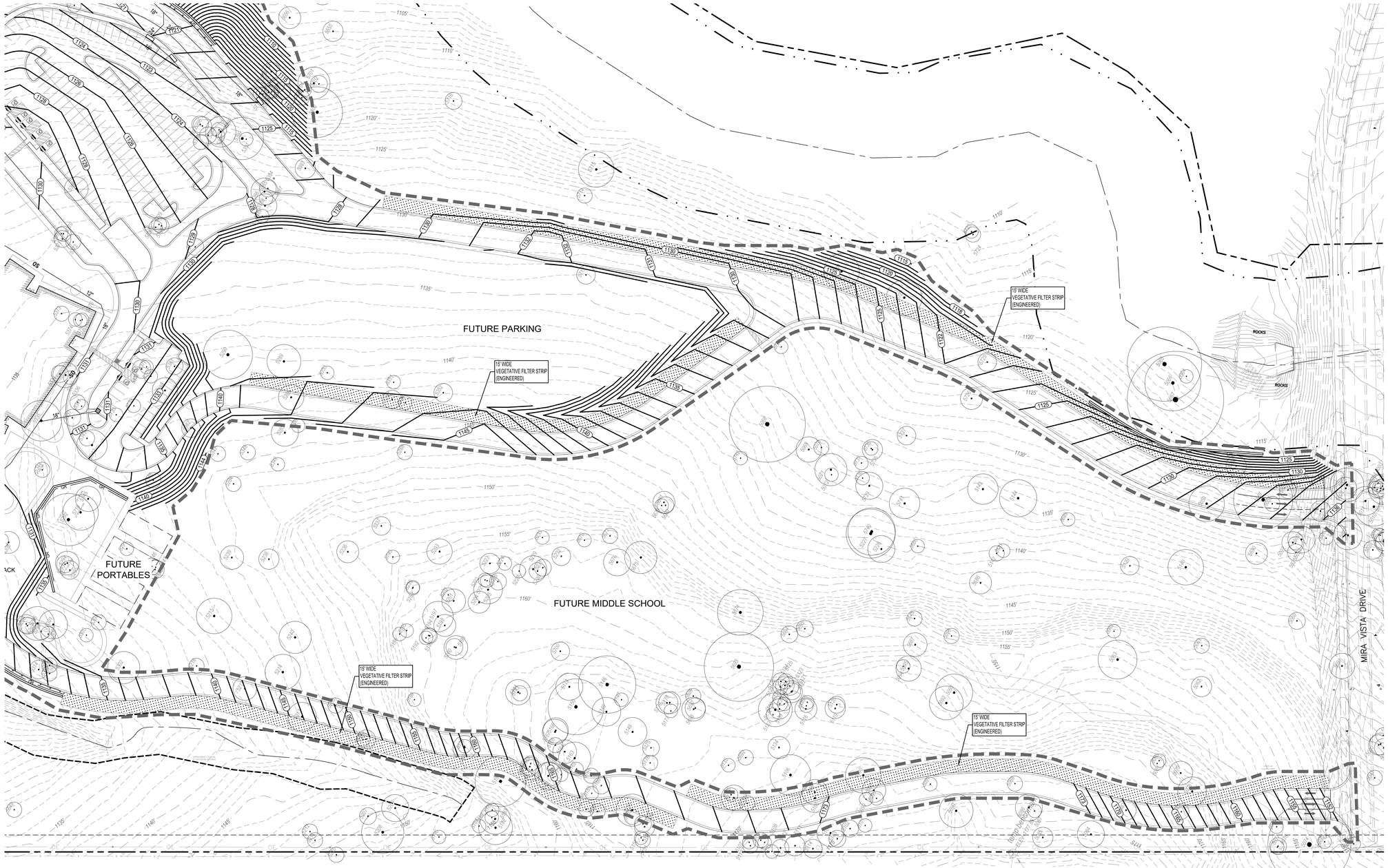
PROJECT NO. 4990401
DATE 05/24/23
AUTHOR ___ CHECKED BY ___
REVISIONS:

No.	Date	Description

POND DETAILS

C12.2

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_POND PLAN.dwg Plotted By: Brian Green Date: 12/19/2023 10:38:26 AM Layout: POND DETAILS Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####



GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

SCALE = 1:50

LEGEND

- PROPOSED CONTOURS
- PROPOSED SPOT GRADES
- *EXISTING CONTOURS - MAJOR*
- *EXISTING CONTOURS - MINOR*
- PROPOSED FLOW DIRECTION
- L.O.C. (LIMITS OF CONSTRUCTION)
- GATE & FENCE (REF. LANDSCAPE FOR POND)
- *EXISTING TREES*
- PROPERTY LINE
- PROPERTY LINE (ADJACENT)
- EXISTING EASEMENT
- EXISTING TREE (TO REMAIN)
- 50 ' STREAM BUFFERS
- 100 ' STREAM BUFFERS
- 200' STREAM BUFFERS
- 400' STREAM BUFFERS

SEE ALL NOTES SHEETS FOR ADDITIONAL REQUIREMENTS

ENGINEERED VEGETATIVE FILTER STRIPS:

1. MAX SLOPE = 20%
2. MIN WIDTH = 15'
3. MIN VEGETATED COVER = 80%
4. TOP EDGE OF FILTER STRIP ALONG THE PAVEMENT / RIBBON CURB TO BE INSTALLED SUCH THAT RUNOFF TRAVELS THROUGH THE FILTER STRIP AND NOT ALONG THE TOP EDGE.
5. FILTER STRIPS TO BE VEGETATED AFTER OTHER PORTIONS OF THE PROJECT ARE COMPLETED.

!!! CAUTION !!!

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SEAN FRIEND
99671
LICENSED PROFESSIONAL ENGINEER
December 19, 2023

PROJECT NO.	4990401
DATE	05/24/23
AUTHOR___	CHECKED BY__

REVISIONS:

	Date	Description
1		

VEGETATIVE FILTER STRIP PLAN

C13.1

Drawing Path: E:\4990401_Drawings_Production Drawings_Production Drawings\SHT_FILTER STRIP.dwg Plotted By: Brian Green Date: 12/13/2023 8:28:13 AM Layout: VEGETATIVE FILTER STRIP PLAN Page Size: ARCH full bleed E1 (30.00 x 42.00 Inches), ####