5906 Old Fredericksburg Road
Suite 300
Austin, Texas 78749
TBPE Firm #8601
(512) 301-3389
www.tdi-llc.net

CONTRIBUTING ZONE PLAN with Optimal Enhanced Measures
For
Hawk Ridge

13885 Evergreen Way
Austin, TX 78620

Prepared For:	Catharine Steven Ventures, LLC
For Review By:	Texas Commission on Environmental Quality
Prepared By:	F.P. (Tres) Howland, III, P.E. Principal TDI Engineering, LLC
Date:	August 5, 2025
TDI Project #:	1527-100

08/29/2025

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Contributing Zone Plan Checklist

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- **Copy of Notice of Intent (NOI)**
- **Agent Authorization Form (TCEQ-0599), if application submitted by agent**
- **Application Fee Form (TCEQ-0574)**
- **Check Payable to the "Texas Commission on Environmental Quality"**
- **Core Data Form (TCEQ-10400)**

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: Hawk Ridge						**2. Regulated Entity No.:**			
3. Customer Name: Catharine Steven Ventures, LLC						**4. Customer No.:**			
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):**		85.52	
9. Application Fee:	$6,500.00		**10. Permanent BMP(s):**			4 Batch Detention Ponds, 2 Wet Basins			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Hays		**14. Watershed:**			Bear 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.)	1	__	__
Region (1 req.)	1	__	__
County(ies)	1	__	__
Groundwater Conservation District(s)	__Edwards Aquifer Authority __Barton Springs/ Edwards Aquifer 1 Hays Trinity __Plum Creek	__Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	__Austin __Buda __Dripping Springs __Kyle __Mountain City __San Marcos __Wimberley __Woodcreek	__Austin __Bee Cave __Pflugerville __Rollingwood __Round Rock __Sunset Valley __West Lake Hills	__Austin __Cedar Park __Florence __Georgetown __Jerrell __Leander __Liberty Hill __Pflugerville __Round Rock

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.

F.P. (Tres) Howland, III, PE

Print Name of Customer/Authorized Agent

08/05/2025

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):	

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Contributing Zone Plan Application (TCEQ Form 10257) Tab 1

ATTACHMENT A	Road Map
ATTACHMENT B	USGS/Edwards Recharge Zone Map
ATTACHMENT C	Project Description
ATTACHMENT D	Factors Affecting Surface Water Quality
ATTACHMENT E	Volume and Character of Stormwater
ATTACHMENT F	Suitability Letter from Authorized Agent
ATTACHMENT G	Alternative Secondary Containment Methods
ATTACHMENT H	AST Containment Structure Drawings
ATTACHMENT I	20% or Less IC Waiver
ATTACHMENT J	BMP's for Upgradient Stormwater
ATTACHMENT K	BMP's for On-Site Stormwater
ATTACHMENT L	BMP's for Surface Streams
ATTACHMENT M	Construction Plans
ATTACHMENT N	Inspection, Maintenance, repair & Retrofit Plan
ATTACHMENT O	Pilot-Scale Field Testing Plan
ATTACHMENT P	Measures for Minimizing Surface Stream Contamination

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: F.P. (Tres) Howland, III, PE

Date: 08/05/2025

Signature of Customer/Agent:

Regulated Entity Name: Hawk Ridge

Project Information

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

   Contact Person: Kirby Walls
   Entity: Catharine Steven Ventures, LLC
   Mailing Address: 801 Polo Club Drive
   City, State: Austin, Texas Zip: 78737
   Telephone: 512-466-5774 Fax: _____
   Email Address: kirby@kirbywalls.com

5. Agent/Representative (If any):

Contact Person: F.P (Tres) Howland, III, PE
Entity: TDI Engineering, LLC.
Mailing Address: 5906 Old Fredericksburg Rd, ste 300
City, State: Austin, Texas Zip: 78749
Telephone: 512-301-3389 Fax: _____
Email Address: thowland@tdi-llc.net, jstewart@tdi-llc.net, permits@tdi-llc.net

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 _____.
☒ 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.

Current end of Evergreen Way, West of Nutty Brown Road.

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

[X] Existing paved and/or unpaved roads
[X] Undeveloped (Cleared)
[ ] Undeveloped (Undisturbed/Not cleared)
[ ] Other: _____

12. The type of project is:

[X] Residential: # of Lots: 62
[ ] Residential: # of Living Unit Equivalents: _____
[ ] Commercial
[ ] Industrial
[ ] Other: _____

13. Total project area (size of site): 85.52 Acres

Total disturbed area: 8.24 Acres

14. Estimated projected population: 198 (3.2 person per household, 2023 US Census Bureau)

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	38,726	÷ 43,560 =	0.889
Parking	124,000	÷ 43,560 =	2.847
Other paved surfaces	196,058	÷ 43,560 =	4.501
Total Impervious Cover	358,784	÷ 43,560 =	8.237

Total Impervious Cover 8.237 **÷ Total Acreage** 85.52 **X 100 =** 9.63 **% Impervious Cover**

16. [X] **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. [X] 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.

[X] 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 _____ (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" = 120' '.

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

62. [X] 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.

[X] The Temporary Stormwater Section (TCEQ-0602) is included with the application.

5906 Old Fredericksburg Road
Suite 300
Austin, Texas 78749
TBPE Firm #8601
(512) 301-3389
www.tdi-llc.net

Attachment A — Road Map

The 85.52-acre site of the Hawk Ridge Subdivision, known as Phase 1, Phase 2, is located at 13885 Evergreen Way, Dripping Springs, Texas, 78620.

Approximate site location

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Attachment B

USGS Quadrangle Map

Please refer to next page for full size map

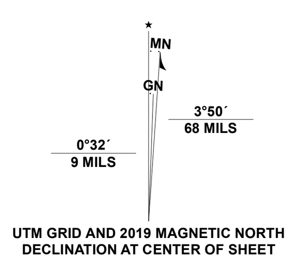
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

SIGNAL HILL QUADRANGLE
TEXAS
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery....................NAIP, October 2016 - November 2016
Roads....................U.S. Census Bureau, 2015 - 2019
Names....................GNIS, 1979 - 2022
Hydrography....................National Hydrography Dataset, 2002 - 2018
Contours....................National Elevation Dataset, 2019
Boundaries....................Multiple sources; see metadata file 2019 - 2021
Wetlands....................FWS National Wetlands Inventory Not Available



UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid	
100,000 - m Square ID 00	
NU	PU
Grid Zone Designation 14R	

SCALE 1:24 000

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Shingle Hills
2 Bee Cave
3 Austin West
4 Dripping Springs
5 Oak Hill
6 Driftwood
7 Mountain City
8 Buda

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway		Local Connector	
Secondary Hwy		Local Road	
Ramp		4WD	

Interstate Route — US Route — State Route

SIGNAL HILL, TX
2022

NSN. 7643016398275
NGA REF NO. USGSX24K71605

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Attachment C **Project Narrative**

The 85.52-acre site of the Hawk Ridge Subdivision, known as Phase 1 and Phase 2, is located at 13885 Evergreen Way, Dripping Springs, Texas, 78620. The property is located in the Bear Creek Watershed which is within the Edwards Aquifer Contributing Zone. This site has a portion that is within the flood hazard area, as seen from FEMA FIRM 48209C0140G, dated January 17, 2025. This site is partially located in the Zone "X" determined to be outside the 0.2% annual event and partially in the Zone "A" determined to be within the 100-year flood plain. There is no zoning of the property as it lies in Hays County. The site is bounded by the Hawk Ridge Phase 1 & Phase 2 property limits. The property soils are comprised of Bolar Clay Loam (BrB), which is type "C" hydrological soil, Brackett-Rock Outcrop Complex (BtD, BtG), which is type "D" hydrological soil, Krum Clay (KrB), which is type "C" hydrological soil, and Purves Clay (PuC), which is type "D" hydrological soil.

This project calls for 62 one-acre single family lots, each 1-acre or larger. The total impervious cover given by the homes is about 38,726 sf. This is impervious cover from the current constructed homes, the rest will be put on a restrictive covenant, requiring rain water harvesting tank for each property. Additionally, associated drive isles and driveways/sidewalks, and 4 batch detention and 2 wet ponds will be constructed. The proposed plan will allow the 85.52-acre property to develop up to a 9.63% impervious cover (358,784 sf).

The drainage for the proposed project will not alter the existing pattern and will be graded to route the runoff to the water quality ponds to be treated then released downstream. There are 2 phases of the property being implement, Phase 1, and Phase 2. Phase 1 infrastructure has been constructed, Phase 2A is to be constructed at the approval of this CZP.

Drainage

Runoff from the property drains to the south in the Phase 2 portion and to the northeast in the Phase 1 portion.

HEC-HMS software, which uses the SCS methodology, along with the City of Austin Atlas-14 Depth of Precipitation values, were used to perform the drainage calculations. Drainage Calculations in the construction set, summarizes the hydrology for both the existing and proposed conditions. In the existing conditions, curve numbers of 84, 84, 83.6, 82.4, 83.9, 81.6 were all used to denote fair condition grass over type "C" and type "D" hydrological soils. Please refer to the table below for existing condition flow rates:

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(512) 301-3389
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HEC-HMS Summary of Inputs & Results
EXISTING

Drainage Area	Size		Time of Concentration	Lag Time	Impervious Cover**		Composite Run-Off	HEC-HMS Peak Runoff "Q" (cfs)			
	(Ac.)	(mi^2)	(min.)	(min.)	(Ac.)	(%)	CN*	2-Year	10-Year	25-Year	100-Year
EX-1	12.608	0.019700	10.9	6.6	0	0.0%	84.0	30.5	59.8	82.1	123.9
EX-2	12.989	0.020295	7.2	4.3	0	0.0%	84.0	33.9	66.2	90.8	136.9
EX-3	25.944	0.040538	15.2	9.1	0	0.0%	83.6	42.3	83.4	114.8	174.0
EX-4	11.427	0.017855	15.9	9.5	0	0.0%	82.4	40.0	80.5	111.6	170.1
EX-5	19.257	0.030089	20.4	12.2	0	0.0%	83.9	38.7	76.1	104.6	158.3
EX-6	3.275	0.005117	9.7	5.8	0	0.0%	81.6	7.5	15.2	21.2	32.4
Total Runoff								192.9	381.2	525.1	795.6

*Pervious Cover = Open Space, Fair Condition Grass & Weighted Hydrologic Soil Groups C & D (CN = 79, CN = 84)
**This development assumes pre-developed condition of 100% vacant land with 0% Impervious Cover

With the proposed development, runoff collected on site will be routed via sheet flow or through a pipe conveying to the water quality ponds for each basin. Once water quality capture volume is achieved, additional runoff will spill over the pond weir and continue to move downstream. For the proposed conditions curve numbers of 82.2, 81.6, 81.5, 79.5, 81.7, 77.5 were all used to denote good condition grass over type "C" and type "D" hydrological soils. Please refer to the table below for post development flow rates:

HEC-HMS Summary of Inputs & Results for Hawk Ridge
DEVELOPED

Drainage Area	Size		Time of Concentration**	Lag Time	Impervious Cover		Composite Run-Off	HEC-HMS Peak Runoff "Q" (cfs)			
	(Ac.)	(mi^2)	(min.)	(min.)	(Ac.)	(%)	CN*	2-Year	10-Year	25-Year	100-Year
WQ1	12.609	0.019702	8.2	4.9	1.571	12.5%	82.2	30.3	60.6	84.1	128.1
WQ2	12.989	0.020295	6.6	4.0	1.162	8.9%	81.6	31.1	63.1	87.7	133.9
WQ3	26.099	0.040780	13.1	7.9	2.923	11.2%	81.6	55.6	113.1	157.6	241.2
WQ4	11.273	0.017614	14.4	8.6	0.693	6.1%	79.3	21.2	44.9	63.5	98.3
WQ5	19.257	0.030089	18.0	10.8	1.859	9.7%	81.7	42.1	86	119.9	183.7
WQ6	3.275	0.005117	9.2	5.5	0.046	1.4%	77.5	6.4	14	20	31.4
$Q_{allowable}$							$Q_{allowable}$ =	192.9	381.2	525.1	795.6
PROP Runoff							$Q_{discharge}$ =	186.7	381.7	532.8	816.6

*Pervious Cover = Open Space, Good Condition Grass & Weighted Hydrologic Soil Groups C & D (CN = 74, CN = 80) and for Impervious Cover (CN = 98)
**Based on 5 minute minimum time of concentration through the MEP drainage system and short hydraulic lengths outside of the bldg.

WATER QUALITY

4 Batch Detention and 2 Wet Basins are being constructed to meet the water quality requirements of this site utilizing Optimal Enhanced Method. The design meets the TCEQ requirements. The total required water quality volume for the Pond 1 (Batch Detention) is 8905 cf and the proposed pond will provide 10,031 cf of storage. The required water quality volume for the Pond 2 (Wet Basin) is 6277 cf and the proposed pond will provide 5669 cf of storage. The required water quality volume for the Pond 3 (Batch Detention) is 16,203 cf and the proposed pond will provide 17,192 cf of storage. The required water quality volume for the Pond 4 (Batch Detention) is 4430 cf and the proposed pond will provide 4605 cf of storage. The required water quality volume for the Pond 5 (Batch Detention) is 10,767 cf and the proposed pond will provide 11,847 cf of storage. The required water quality volume for the Pond 6 (Wet Basin) is 270 cf and the proposed pond will provide 18,997 cf of storage. For full calculations of the water quality elements please see the pond details in the construction plan.

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5906 Old Fredericksburg Road
Suite 300
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Attachment D — Factors Affecting Water Quality

There are several factors affecting the water quality on this site:

1) The construction stage; which is temporary, and
2) The end use stage; which is permanent

The construction activities include driving, handling of construction equipment, site clearing, rough grading, constriction of asphalt and concrete pavement, utilities, building structures, water quality ponds, storm sewers and landscaping of the site. These activities are expected to generate debris, occasional oil and fuel discharge from vehicles, and soil disturbance. Temporary measures such as stabilized construction entrances, silt fence, and tree protection and fencing of the areas to remain natural will reduce any temporary effects on water quality during construction.

Permanent factors affecting water quality include the increased storm-water runoff caused by the impervious cover of the site, oil and gas from daily traffic of automobiles, fertilized in the grassed areas and debris associated with the end use of the site. The water quality ponds designed to service the site will clean storm water runoff as it leaves the property as a way to mitigate these factors.

Materials that may be stored and delivered in and out of this development include all those materials that would be found on a residential subdivision project such as cleaning products, minimal oil and gas storage, and pesticides. These materials will be stored inside the jobsite containers or buildings and will be contained within the drainage areas. The water quality ponds around the site will capture all of the drainage basins runoff.

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Attachment E Volume and Character of Storm-water

Currently, runoff from the property surface drainages to the south in the Phase 2 portion, and to the northeast in the Phase 1 portion.

The developer plans to construct single-family homes, associated driveways/sidewalks, and paved streets. The total impervious cover of the 85.52-acre site will be about 9.63%, or about 358, 784 sf.

Stormwater run-off for the existing and proposed conditions was calculated using HEC-HMS, which used SCS methodology. A summary of the existing and proposed outflows is given below for the 2-year, 10-year, 25-year, and 100-year storm events and includes the curve number calculations for both the existing and proposed conditions.

HEC-HMS Summary of Inputs & Results
EXISTING

Drainage Area	Size		Time of Concentration	Lag Time	Impervious Cover**		Composite Run-Off	HEC-HMS Peak Runoff "Q" (cfs)			
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EX-6	3.275	0.005117	9.7	5.8	0	0.0%	81.6	7.5	15.2	21.2	32.4
Total Runoff								192.9	381.2	525.1	795.6

*Pervious Cover = Open Space, Fair Condition Grass & Weighted Hydrologic Soil Groups C & D (CN = 79, CN = 84)
**This development assumes pre-developed condition of 100% vacant land with 0% Impervious Cover

HEC-HMS Summary of Inputs & Results for Hawk Ridge
DEVELOPED

Drainage Area	Size		Time of Concentration**	Lag Time	Impervious Cover		Composite Run-Off	HEC-HMS Peak Runoff "Q" (cfs)			
	(Ac.)	(mi^2)	(min.)	(min.)	(Ac.)	(%)	CN*	2-Year	10-Year	25-Year	100-Year
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WQ3	26.099	0.040780	13.1	7.9	2.923	11.2%	81.6	55.6	113.1	157.6	241.2
WQ4	11.273	0.017614	14.4	8.6	0.693	6.1%	79.3	21.2	44.9	63.5	98.3
WQ5	19.257	0.030089	18.0	10.8	1.859	9.7%	81.7	42.1	86	119.9	183.7
WQ6	3.275	0.005117	9.2	5.5	0.046	1.4%	77.5	6.4	14	20	31.4
$Q_{allowable}$							$Q_{allowable}$ =	192.9	381.2	525.1	795.6
PROP Runoff							$Q_{discharge}$ =	186.7	381.7	532.8	816.6

*Pervious Cover = Open Space, Good Condition Grass & Weighted Hydrologic Soil Groups C & D (CN = 74, CN = 80) and for Impervious Cover (CN = 98)
**Based on 5 minute minimum time of concentration through the MEP drainage system and short hydraulic lengths outside of the bldg.

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Time of Concentration - Existing Conditions

DRAINAGE AREA	SHEET FLOW					SHALLOW CONCENTRATED FLOW - UNPAVED				T_c (min.)	T_L (min.)
	Manning's n-Value	L (ft)	P_2 - (in/hr.)	S (ft/ft)	$T_{t1} = 0.42(nL)^{0.8}/(P_2^{0.5} \times S^{0.4})$ (min.)	S (ft/ft)	V - (TR-55 Fig. 3-1) S vs. V (ft/s)	L (ft)	$T_{t2} = L/(60(16.1345)(s)^{0.5})$		
WQ1	0.15	100	4.14	0.040	6.54	0.082	4.30	1214	4.39	10.9	6.6
WQ2	0.15	100	4.14	0.095	4.62	0.107	5.10	804	2.54	7.2	4.3
WQ3	0.15	100	4.14	0.040	6.54	0.028	2.70	1402	8.69	15.2	9.1
WQ4	0.15	100	4.14	0.020	8.62	0.028	2.70	1177	7.27	15.9	9.5
WQ5	0.15	100	4.14	0.010	11.38	0.017	2.10	1151	9.02	20.4	12.2
WQ6	0.15	100	4.14	0.030	7.33	0.032	2.90	413	2.38	9.7	5.8

Note: Fair Condition grass cover is used for determining Manning's n-value in existing conditions disregarding current development
Ref: City of Austin Drainage Criteria Manual

Time of Concentration - Developed Conditions

DRAINAGE AREA	SHEET FLOW					SHALLOW CONCENTRATED FLOW - PAVED				Tc (Min)	T_L (Min)
	Manning's n-Value	L (ft)	P_2 - (In/Hr.)	S (ft/ft)	Tt1 (Min) $0.42(nL)^{0.8}/(P_2^{0.5} \times s^{0.4})$	S (ft/ft)	V - (TR-55 Fig. 3-1) S vs. V (ft/s)	L (ft)	Tt2 (Min) $L/(60(20.3282)(s)^{0.5})$		
WQ1	0.134	100	4.14	0.060	5.07	0.073	5.50	1018	3.10	8.2	4.9
WQ2	0.150	100	4.14	0.095	4.62	0.107	7.00	804	2.02	6.6	4.0
WQ3	0.122	100	4.14	0.040	5.52	0.028	3.40	1238	6.10	11.6	7.0
WQ4	0.142	100	4.14	0.020	8.24	0.020	2.90	1076	6.18	14.4	8.6
WQ5	0.137	100	4.14	0.010	10.54	0.015	2.50	1095	7.43	18.0	10.8
WQ6	0.150	100	4.14	0.030	7.32	0.032	3.80	413	1.89	9.2	5.5

Note 1: Min. Tc is 5 minutes
Note 2: Concrete cover is used for determining Manning's n-value in proposed conditions
Ref: City of Austin Drainage Criteria Manual

Stormwater run-off is expected to contain the normal loading of pollutants for storm water, including Total Suspended Solids. The majority of the pollutant removal will come via 4 Batch Detention Ponds and 2 Wet Basin Ponds, while the rest will be removed via natural vegetation.

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Attachment F Suitability Letter from Authorized Agent

The suitability letter can be found on the next page.

Hawk Ridge
Phase 2

THE STATE OF TEXAS
THE COUNTY OF HAYS KNOW ALL MEN BY THESE PRESENTS:
THAT, CATHARINE STEVEN VENTURES, LLC, OWNER OF THAT CERTAIN 38.50 ACRES TRACT OF LAND OUT OF THE LAMAR MOORE SURVEY ABSTRACT No. 323 IN HAYS COUNTY, TEXAS, AS CONVEYED TO IT BY GENERAL WARRANTY DEED RECORDED IN INSTRUMENT No. 2005921I OF THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS, DO HEREBY SUBDIVIDE SAID TRACT OF LAND IN ACCORDANCE WITH THE ATTACHED MAP OR PLAT TO BE KNOWN AS

Hawk Ridge Phase 2

SUBJECT TO ANY EASEMENTS AND/OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED.

WITNESS MY HAND THIS THE 25 DAY OF October A.D., 2023

KIRBY WALLS Authorized Agent for
CATHARINE STEVEN VENTURES, LLC
801 POLO CLUB DRIVE
AUSTIN, TEXAS 78737

THE STATE OF TEXAS
THE COUNTY OF HAYS
BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, ON THIS DAY PERSONALLY APPEARED KIRBY WALLS KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND HE ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED.
GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE 25th DAY OF October A.D. 2023

NOTARY PUBLIC IN AND FOR HAYS COUNTY, TEXAS

KIM YADLOWSKY
My Notary ID # 134156517
Expires January 20, 2027

STATE OF TEXAS
COUNTY OF TRAVIS
KNOW ALL MEN BY THESE PRESENTS:
THAT I, THE UNDERSIGNED, A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE ENGINEERING RELATED REQUIREMENTS OF THE HAYS COUNTY SUBDIVISION REGULATIONS.

ANDREW DODSON, PE
DODSON CIVIL GROUP
TX FIRM 20870

10-27-23
DATE

STATE OF TEXAS
COUNTY OF TRAVIS
KNOW ALL MEN BY THESE PRESENTS:
THAT I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE SURVEY RELATED REQUIREMENTS OF THE HAYS COUNTY SUBDIVISION REGULATIONS AND FURTHER CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE AND IS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND AND THAT THE CORNER MONUMENTS WERE PROPERLY PLACED UNDER MY SUPERVISION.

10-25-2023
DATE

HOLT CARSON
REGISTERED PROFESSIONAL LAND SURVEYOR No. 5166
HOLT CARSON, INC.
1904 FORTVIEW ROAD AUSTIN, TEXAS 78704
FIRM 10050700

PLAT NOTES:

1. THIS FINAL PLAT IS NOT LOCATED WITHIN THE JURISDICTION OF ANY MUNICIPALITY.
2. NO PORTION OF THIS PLAT LIES WITHIN THE BOUNDARIES OF THE EDWARDS AQUIFER RECHARGE ZONE.
3. THIS PLAT LIES WITHIN THE BOUNDARIES OF THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER.
4. THIS PLAT IS LOCATED WITHIN THE BOUNDARY OF THE DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT.
5. A PORTION OF THIS PROPERTY IS LOCATED WITHIN ZONE A (100 YEAR FLOOD PLAIN) AS DELINEATED ON THE FLOOD INSURANCE RATE MAP PANEL No. 48209C 0140 F, EFFECTIVE DATE OF SEPTEMBER 2, 2005, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
6. WATER SERVICE WILL BE PROVIDED TO EACH LOT FROM WEST TRAVIS COUNTY PUA.
7. WASTEWATER SERVICE WILL BE PROVIDED TO EACH LOT BY AN ADVANCED ON-SITE SEWAGE FACILITY.
8. ELECTRIC SERVICE WILL BE PROVIDED BY THE PEDERNALES ELECTRIC COOPERATIVE.
9. DRIVEWAYS SHALL COMPLY WITH CHAPTER 721 OF HAYS COUNTY DEVELOPMENT REGULATIONS, AND BE PERMITTED THROUGH THE TRANSPORTATION DEPARTMENT OF HAYS COUNTY UNDER CHAPTER 751.
10. THIS SUBDIVISION IS LOCATED WITHIN HAYS-TRINITY GROUNDWATER CONSERVATION DISTRICT 2.
11. ALL CULVERTS, WHEN REQUIRED, SHALL COMPLY WITH THE HAYS COUNTY STANDARD:
12. MAILBOXES PLACED WITHIN THE ROW, SHALL BE OF AN APPROVED TxDOT OR FHWA DESIGN.
13. POST CONSTRUCTION STORMWATER CONTROL MEASURES SHALL HAVE A MAINTENANCE PLAN. THE MAINTENANCE PLAN MUST BE FILED IN THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY. THE OWNER/OPERATOR OF ANY NEW DEVELOPMENT OR REDEVELOPMENT SITE SHALL DEVELOP AND IMPLEMENT A MAINTENANCE PLAN ADDRESSING MAINTENANCE REQUIREMENTS FOR ANY STRUCTURAL CONTROL MEASURES INSTALLED ON SITE. OPERATION AND MAINTENANCE PERFORMED SHALL BE DOCUMENTED AND RETAINED AND MADE AVAILABLE FOR REVIEW UPON REQUEST.
14. POST DEVELOPMENT CONDITIONS RUNOFF RATE SHALL BE NO GREATER THAN THE PRE-DEVELOPED CONDITION FOR 2, 5, 10, 15 AND 100 YEAR STORM EVENTS. PRE AND POST DEVELOPMENT RUNOFF CALCULATIONS SHALL BE INCLUDED WITH THE CONSTRUCTION DRAWINGS FOR THIS SUBDIVISION.
15. ALL ROADWAYS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE HAYS COUNTY STANDARDS.
16. THIS SUBDIVISION LIES WITHIN THE HAYS COUNTY EMERGENCY SERVICES DISTRICT No. 1 AND 6.

SEWAGE DISPOSAL/INDIVIDUAL WATER SUPPLY CERTIFICATION, TO-WIT:

NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO AN INDIVIDUAL WATER SUPPLY OR A STATE APPROVED COMMUNITY WATER SYSTEM. DUE TO DECLINING WATER SUPPLIES AND DIMINISHING WATER QUALITY, PROSPECTIVE PROPERTY OWNERS ARE CAUTIONED BY HAYS COUNTY TO QUESTION THE SELLER CONCERNING GROUND WATER AVAILABILITY. RAIN WATER COLLECTION IS ENCOURAGED AND IN SOME AREAS MAY OFFER THE BEST RENEWABLE WATER RESOURCE.

NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A PUBLIC SEWER SYSTEM OR TO AN ON-SITE WASTEWATER SYSTEM WHICH HAS BEEN APPROVED AND PERMITTED BY HAYS COUNTY DEVELOPMENT SERVICES DEPARTMENT.

NO CONSTRUCTION OR OTHER DEVELOPMENT WITHIN THIS SUBDIVISION MAY BEGIN UNTIL ALL HAYS COUNTY DEVELOPMENT AUTHORIZATION REQUIREMENTS HAVE BEEN SATISFIED.

11-1-2023

MARCUS PACHECO DIRECTOR
HAYS COUNTY DEVELOPMENT
SERVICES DEPARTMENT

11-6-2023

ERIC VAN GAASBEEK R.S., C.F.M.
HAYS COUNTY FLOODPLAIN ADMINISTRATOR

THE STATE OF TEXAS
THE COUNTY OF HAYS
I, ELAINE H. CARDENAS, COUNTY CLERK OF HAYS COUNTY, TEXAS, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT OF WRITING WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE ON THE 14 DAY OF November A.D. 2023, AT 1:55 O'CLOCK P M. IN THE PLAT RECORDS OF HAYS COUNTY, TEXAS, IN INSTRUMENT No. 23041787
WITNESS MY HAND AND SEAL OF OFFICE, THIS THE 14 DAY OF November A.D. 2023.

Elaine H Cardenas by Angelica Mendez, Deputy

ELAINE H. CARDENAS
COUNTY CLERK
HAYS COUNTY, TEXAS.

STATE OF TEXAS
COUNTY OF HAYS
I, ELAINE H. CARDENAS, COUNTY CLERK OF HAYS COUNTY, TEXAS, DO HEREBY CERTIFY THAT ON THE 24 DAY OF October, A.D. 2023, THE COMMISSIONERS COURT OF HAYS COUNTY, TEXAS, PASSED AN ORDER AUTHORIZING THE FILING FOR RECORD OF THIS PLAT, AND SAID ORDER HAS BEEN DULY ENTERED IN THE MINUTES OF THE SAID COURT IN INSTRUMENT No.

WITNESS MY HAND AND SEAL OF OFFICE, THIS THE 14 DAY OF November A.D. 2023.

RUBEN BECERRA
COUNTY JUDGE
HAYS COUNTY, TEXAS

Elaine H Cardenas by Angelica Mendez, Deputy

ELAINE H. CARDENAS
COUNTY CLERK
HAYS COUNTY, TEXAS.

IN ORDER TO PROMOTE SAFE USE OF ROADWAYS AND PRESERVE THE CONDITIONS OF PUBLIC ROADWAYS, NO DRIVEWAY CONSTRUCTED ON ANY LOT WITHIN THIS SUBDIVISION SHALL BE PERMITTED ACCESS ONTO A PUBLICLY DEDICATED ROADWAY UNLESS (A) A DRIVEWAY PERMIT HAS BEEN ISSUED BY THE TRANSPORTATION DEPARTMENT OF HAYS COUNTY AND (B) THE DRIVEWAY SATISFIES THE REQUIREMENT FOR DRIVEWAYS SET FORTH IN TABLE 721.02 OF THE HAYS COUNTY DEVELOPMENT REGULATIONS.

IN APPROVING THIS PLAT BY THE COMMISSIONERS COURT OF HAYS COUNTY, TEXAS, IT IS UNDERSTOOD THAT THE BUILDING OF ALL STREETS, ROADS, AND OTHER PUBLIC THOROUGHFARES DELINEATED AND SHOWN ON THIS PLAT, AND ALL BRIDGES AND CULVERTS NECESSARY TO BE CONSTRUCTED OR PLACED IN SUCH STREETS, ROADS, OR OTHER PUBLIC THOROUGHFARES, OR IN CONNECTION THEREWITH SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR THE DEVELOPER OF THE TRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PRESCRIBED BY THE COMMISSIONERS COURT OF HAYS COUNTY, TEXAS, AND THE COMMISSIONERS OF HAYS COUNTY, TEXAS, ASSUME NO OBLIGATION TO BUILD THE STREETS, ROADS, OR OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT OR OF CONSTRUCTING ANY BRIDGES OR CULVERTS IN CONNECTION THEREWITH.

PRIVATELY MAINTAINED PAVED STREETS:

CATHERINE STEVEN VENTURES, LLC, BY FILING THIS PLAT OF RECORD, AND ALL FUTURE OWNERS OF PROPERTY WITHIN THIS SUBDIVISION, BY PURCHASING SUCH PROPERTY, ACKNOWLEDGE AND AGREE THAT HAYS COUNTY SHALL HAVE NO OBLIGATION WHATSOEVER TO REPAIR OR ACCEPT MAINTENANCE OF THE ROADS SHOWN ON THIS SUBDIVISION UNTIL AND UNLESS CATHERINE STEVEN VENTURES, LLC AND/OR THE HAWKRIDGE HOMEOWNERS ASSOCIATION HAS IMPROVED THE ROADWAYS TO THE THEN CURRENT STANDARDS REQUIRED BY HAYS COUNTY AND THE ROADS HAVE BEEN ACCEPTED FOR MAINTENANCE BY FORMAL, WRITTEN ACTION OF THE COMMISSIONERS COURT AND THE ROADWAY, WITH ALL REQUIRED RIGHT-OF-WAY HAS BEEN DEDICATED BY THE OWNERS THEREOF, AND ACCEPTED BY THE COUNTY, AS A PUBLIC STREET. CATHERINE STEVEN VENTURES, LLC AND ALL FUTURE OWNERS OF PROPERTY WITHIN THIS SUBDIVISION SHALL LOOK SOLELY TO THE HAWKRIDGE HOMEOWNERS ASSOCIATION FOR FUTURE MAINTENANCE AND REPAIR OF THE ROADS AND STREETS SHOWN ON THIS SUBDIVISION.

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Suite 300
Austin, Texas 78749
TBPE Firm #8601
(512) 301-3389
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Attachment G Alternative Secondary Containment Methods

There will be no above ground storage tanks associated with this project.

Attachment H AST Containment Structure Drawings

There will be no above ground storage tanks associated with this project

Attachment I 20% or Less Impervious Cover Waiver

This site is limited to 20% impervious cover, however is governed by OEM standards and will not be requesting a waiver from permanent water quality controls.

Attachment J BMPs for Up-gradient Storm Water

There is no up-stream storm water flow that runs across the property to the water quality ponds. All up-stream drainage is routed via its natural path, around the ponds to existing water courses.

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Attachment K — BMPs for On-site Storm-water

There will be 6 Water Quality Ponds treating storm-water runoff from this development.

The ponds will consist of 4 Batch Detention Ponds and 2 Wet Basin Ponds constructed for this development.

Water Quality Calculations for the ponds can be found on the TSS Removal Calculations Sheet, in the Construction Plans.

Disturbed areas of the site not covered by pavements, driveways, or buildings, will be hydro mulched or sodded at the end of construction. Landscaped areas will be maintained, and watered to establish healthy vegetative cover using native vegetation.

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Suite 300
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Attachment L — BMPs for Surface Streams

There are no surface streams on the property. On-site stormwater will not enter any downstream surface tributaries until it has been treated by the water quality ponds. The water quality ponds are designed to TCEQ Standards using Optimal Enhanced Measures to prevent pollutants from exiting the site and entering any surface streams, sensitive features, or the aquifer.

There are no critical environmental features on site as can be seen in the Geological Assessment.

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Suite 300
Austin, Texas 78749
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Attachment M — Construction Plans

Included in this CZP-OEM submission is a full set of construction plans. Within the construction set are calculations for the proposed water quality ponds, plans on how to construct the ponds, and details.

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Attachment N Inspection, Maintenance, Repair, and Retrofit Plan

There will be 4 batch detention ponds as well as 2 wet basin ponds constructed with this development. The water quality control is designed to those specifications. Runoff from the property after being treated by the water quality ponds is released to the tributary of Bear Creek.

1. Inspection Plan for Permanent BMPs

The ponds shall be constructed and finished with equipment capable of excavating and forming or shaping the pond and splitter structures to the approximate plan dimensions.

Inspection of the rough-cut excavation should include:

a) Date, time, temperature, weather condition, personnel make inspections, equipment used for excavation,
b) Documentation noting the approximate quantity of excavation to determine the volume of excavation,
c) Verification that the excavation volume meets or exceeds the plan volume, and
d) Notation regarding the conditions of the area and surrounding area following excavation.

Inspection of the final grading, and shaping excavation should include:

e) Date, time, temperature, weather condition, personnel make inspections, equipment used for final grading,
f) Documentation noting the approximate overall quantity of excavation to determine the overall volume of excavation,
g) Verification that the overall excavation volume meets or exceeds the plan volume, and
h) Notation regarding the conditions of the area and surrounding area following final excavation.

Inspection of the splitter structures should include:

i) Date, time, temperature, weather condition, personnel make inspections, equipment or means used for forming or shaping the structure,
j) Documentation noting the approximate overall quantity of material used to form or shape the structures (if appropriate),
k) Verification that the overall final structure meets the dimensioning of the plan structure, and
l) Notation regarding the conditions of the area and surrounding area following final structure control construction.

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2. **Maintenance and Routine Maintenance for All Structural (Storm-water Capture) Systems**

Water quality ponds of all types have similar routine maintenance requirements, although most ponds have some unique maintenance needs, as detailed in this section. The following general maintenance requirements apply to all pond BMPs:

a. BMP facilities must be inspected at least twice a year (once during or immediately following a wet weather event) to evaluate facility operation and proper documentation must be made including but not limited to: date, time, personnel performing inspection, weather condition, condition of facility observed, and recommendation, if any, for corrective actions.
b. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired (re-shaped, filled, compacted and re-vegetated) or re-vegetated as soon as possible.
c. Grass areas in and around ponds must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. When mowing of grass is performed, a mulching mower must be used, or grass clippings must be caught, collected, and removed.
d. No inorganic or organic fertilizers may be used on grass to enhance growth.
e. Debris and litter accumulated in the facilities must be removed during each inspection or more frequently as needed.
f. Excessive sediment must be removed and properly disposed of as discussed below in the next item.
g. With each inspection, any damage to the structural elements of the systems (pipes, concrete drainage structures, retaining walls, etc.) must be identified and repaired as soon as possible.

3. **Maintenance and Routine Maintenance for Water Quality Ponds**

a. Accumulated paper, trash, and debris should be removed every six months or as necessary.
b. The basins shall be inspected annually by a qualified inspector and repairs should be made, if necessary, as soon as possible.
c. All piping must be cleaned to maintain design drawdown time.
d. Over to provide maintenance logs for the services under agreement.
e. More detailed Batch Detention (SmartPOND) maintenance information is listed below.

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4. Repair and Retrofit of Permanent BMPs

   If following routine inspection and maintenance, it is determined that repair or a pond retrofit is necessary, the engineer of record, or an engineer with similar abilities, should be notified or consulted.

   A repair plan or retrofit plan may be necessary, and if determined necessary, should be developed on a case-by-case basis and permitted, if necessary. Same or similar materials to those used in the original pond should be used, if practical, for any repair or retrofit.

5. Part responsible for maintaining the BMP (s)

   Kirby Walls is responsible for the inspection, maintenance, and repairs of the BMPs listed in this report and on the construction plan set.

Kirby Walls
Catharine Steven Ventures, LLC
512-466-5774

Signature

smartPOND Vault Valve System

-Operation, Inspection & Maintenance-

Operation

The smartPOND vault valve configuration includes a weatherproof and lockable control cabinet housing all actuators and electronics, which is mounted in a manhole structure that is typically buried in the berm of a stormwater detention pond. Manual control, real time remote control, and pre-programmed automated functions are all standard options with this free-standing, self-contained system.

Periodic inspection and maintenance is required to guarantee proper functioning and optimal performance of the device. This document will detail those procedures.

Inspection

All Inspections should be done in accordance to Texas Commission of Environmental Quality's RG-348 Section 3.5.20.

Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual 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 in previous sections. 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.

Maintenance

All maintenance should be done in accordance to Texas Commission of Environmental Quality's RG-348 Section 3.5.20.

Mowing

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

Litter and Debris Removal

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

Erosion control

The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on 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 vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

Sediment Removal

A properly designed 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.

If maintenance or repairs are required, please contact Convergent's manufacturing partner, Autoflow LLC (Ph: 601.842.6806, info@autoflowllc.com) to receive a Field Maintenance Request Form to discuss pricing and a service call to the device.

5906 Old Fredericksburg Road
Suite 300
Austin, Texas 78749
TBPE Firm #8601
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Attachment O Pilot-Scale Field Testing Plan, if BMPs not based on Edward's-Aquifer Riles: Technical Guidance

This project utilized the TCEQ Technical Guidance Manual to design permanent BMPs and measures for this site.

Attachment P Measures for Minimizing Surface Stream Contamination

No additional measures for minimizing surface stream contamination are designed other than those discussed in previous attachments of this report.

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Austin, Texas 78749
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Temporary Stormwater Section (TCEQ Form 0602) Tab 2

ATTACHMENT A	Spill Response Actions
ATTACHMENT B	Potential Sources of Contamination
ATTACHMENT C	Sequence of Major Activities
ATTACHMENT D	Temporary Best Management Practices & Measures
ATTACHMENT E	Request to Temporarily Seal a Feature, if Sealing a Feature
ATTACHMENT F	Structural Practices
ATTACHMENT G	Drainage Area Map
ATTACHMENT H	Temporary Sediment Pond(s) Plans & Calculations
ATTACHMENT I	Inspection & Maintenance for BMP's
ATTACHMENT J	Schedule of Interim & Permanent Soil Stabilization Practice

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.

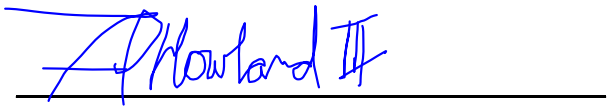
Signature

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: F.P. (Tres) Howland, III, PE

Date: 08/05/2025

Signature of Customer/Agent:



Regulated Entity Name: Hawk Ridge

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

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

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

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

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

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

Sequence of Construction

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

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

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

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

Temporary Best Management Practices (TBMPs)

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

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

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

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

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

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

8. [X] 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

Soil Stabilization Practices

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

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

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

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

Administrative Information

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

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

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

5906 Old Fredericksburg Road
Suite 300
Austin, Texas 78749
TBPE Firm #8601
(512) 301-3389
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Attachment A — Spill Response Actions

The most likely instances of a spill of hydrocarbons or hazardous substances are:

1. Refueling construction equipment.
2. Performing operator-level maintenance, including adding petroleum, oils, or lubricants/
3. Unscheduled or emergency repairs, such as hydraulic fluid leaks.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table on the TCEQ's website for Spill Response. The Table is included here. The contractor is required to clean up the spill and notify the TCEQ as required.

During business hours, report spills to the TCEQ's Austin Region Office at (512)339-2929.

After business hours, report spills to the Environmental response Hotlines at 1-800-832-8224, or to the TCEQ Spill Reporting Hotline at (512)46307727, which is also answered 24 hours a day.

The TCQ spill response web address is: https://www.tceq.texas.gov/response/spills

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Attachment B — Potential Sources of Contamination

Potential sources of contamination can be found on the site in the form of fuels for the trucks and equipment and dispenser systems for fuels as well as asphalt pavement for the completion of the pavement. Also, disrupted sediment is a potential contamination downstream of the site. The owner will take full responsibility for the immediate clean-up of any asphalt, emulsion, coating or concrete, and any damage to silt fence surrounding the property. Stand-by personnel and equipment will be readily available during the curing time in case a spill or break occurs.

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Attachment C — Sequence of Major Activities

1. Coordinate all start-up work with owner
2. Install temporary erosion and sedimentation controls. Silt and sediment shall be removed after any rainfall or when the depth of silt/sediment is 1' at any silt fence.
3. Contact the Engineer to arrange a pre-construction meeting at least two days in advance of starting construction.
4. Begin site clearing
5. Rough grade water quality ponds for storm runoff.
6. Constriction areas shall be stripped of all vegetation, loose topsoil, cobbles, and boulders.
7. Install utility improvements.
8. Install storm sewer piping to water quality ponds.
9. Install all pavement, above ground structures, and finish water quality ponds.
10. Hydro-mulch or sod all disturbed areas and clean up the site.
11. Finalize all site improvements.
12. Final cleaning of erosion and sedimentation controls
13. Receive the approval for completion of site work from Engineer or inspector
14. Dispose of all construction debris and trash. Hydro-mulch any disturbed areas following site cleanup. Complete permanent erosion control and site restoration.
15. Project Engineer shall schedule final inspection of site with owner, and submit completion letter to TCEQ. Remove any temporary erosion/sedimentation controls and tree protection. Restore any areas disturbed during removal of erosion/sedimentation controls.

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Attachment D Temporary Best Management Practices and Measures

1. The contractor shall install erosion/sedimentation controls and tree/natural area protective fencing prior to any site preparation work.
2. The placement of erosion/sedimentation controls shall be in accordance with the approved Erosion and Sedimentation Control Plan.
3. The placement of tree/natural area protective fencing shall be in accordance with the approved Erosion and Sedimentation Control Plan.
4. Specifically, the following temporary BMPs will be used during the construction of this project:
    a. Silt Fence: Silt fence will be installed all around the downhill side of the limits of construction to prevent sediment from leaving the property via sheet storm water flow.
    b. Inlet protection: Inlet protection will be installed around all existing and proposed inlets to prevent sediment from washing into the stormwater infrastructure.
    c. Stabilized Construction Entrance: The stabilized construction entrance will be installed at the entrance of the property to prevent vehicles from removing sediment from the property.
    d. Concrete Washout Pit: The concrete washout pit will be provided for washing tools and equipment of concrete and other debris.
5. A pre-construction conference shall be held on-site with the contractor, design Engineer, and any other governing Agency or Inspectors after installation of erosion/sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The contractor shall notify the Engineer, at least two days prior to the meeting date.
6. Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by TCEQ. Minor changes to be made as field revisions to the Erosion and Sedimentation Control Plan may be required by the Engineer during the course of construction to correct control inadequacies.
7. 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. The person responsible for maintenance of control and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches 6 inches.
8. Prior to final acceptance by the Engineer, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and re-vegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.

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9. All work must stop if a void in the rock substrate is discovered which is: one square foot in total area; blows air from within the substrate and/or consistently receives water during any rain event. At this time, it is the responsibility of the On-site Superintendent to immediately contact the Engineer for further investigation.
10. Permanent Erosion Control: All disturbed areas shall be restored as noted below.
    a. A minimum of four inches of topsoil shall be placed in all drainage channels (except rock) and between the curb and ROW line.
11. All tress and natural areas shown on plan to be preserved shall be protected during construction with temporary fencing.
12. Protective fences shall be installed prior to the start of any site preparation work (clearing, grubbing, and grading), and shall be maintained throughout all phases of the construction project.
13. Protective fences shall be erected according to the Details and Standards shown in the plans.
14. Erosion and sedimentation control barriers shall be installed or maintained in a manner, which does not result in soil built-up within tree drip lines.
15. Protective fences shall surround the tress or group of trees, and will be located at the outermost limit of branches (drip line), or, for natural areas, protective fences shall follow the Limit of Construction line, in order to prevent the following:
    a. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment
    b. Root zone disturbance due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Arborist;
    c. Wounds to exposed roots, trunk, or limbs by mechanical equipment;
    d. Other activities detrimental to tress such as chemical storage, cement truck cleaning, and fires
16. Exceptions to installing fences at tree drip lines may be permitted in the following cases:
    a. Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet behind the area disturbed;
    b. Where permeable paving is to be installed within a tree's drop line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimize root damage);
    c. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the building;
    d. Where there are severe space constraints due to tract size, or other special requirements, contact an Arborist to discuss alternatives.
17. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 feet (or to the limits of lower branching) in addition to the reduced fencing provided.
18. Trees approved for removal shall be removed in a manner, which does not impact trees to be preserved.

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19. Any roots exposed by construction activity shall be pruned flushed with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within the 2 days, cover them with organic material in a manner, which reduces soil temperature and minimizes water loss due to evaporation.
20. Any trenching required for the installation of landscape irrigation shall be placed, as far from existing tree trunks as possible.
21. No landscape topsoil dressing greater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flare of any tree.
22. Pruning to provide clearance for structures, vehicular traffic, and equipment shall take place before damage occurs (ripping of branches, etc.).
23. All finished pruning shall be done according to recognized, approved standards of the industry.
24. Deviation from the above notes may be considered rule violations if there is substantial no-compliance or if a tree sustains damage as a result.

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Attachment E Request to Temporarily Seal A Feature, If Sealing

No Features are within the project limits. No Temporary Seal request is made.

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Attachment F — Structural Practices

During construction of the Site Development Construction Improvements, runoff from the site will be captured downstream rough-graded locations of where the finished water quality ponds are to be located. Once erosion controls have been installed and the pre-construction meeting has occurred, the first movement of earth will be the rough and final grading of the pond to its full volume. Should a storm occur during construction, all of the runoff will be captured and the sediment removed through settlement and possibly the silt fencing.

The ponds can be found on the construction plan set.

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Attachment G — Drainage Area Map

The Drainage Area Maps are shown on the construction plan set.

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Attachment H Temporary Sediment Pond(s) Plans and Calculations

This site is to receive water quality treatment through the use of 4 Batch Detention ponds and 2 Wet Basin ponds. During construction the water quality will be achieved primarily through the silt fencing. All pertinent design calculations are shown on the TSS Removal Calculations Sheet.

No Temporary Sediment Ponds are planned with this site since (i) the majority of the site is left in its natural state, (ii) each lot end user will install rain-water harvesting tanks to disconnect the roofs within each lot, leaving (iii) the primary subdivision infrastructure to be treated by the individual water quality pond within the basins they serve.

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Attachment I

Inspection and Maintenance for BMPs

Inspections

Each contractor will designate a qualified person (or persons) to perform the following inspections:

1. Disturbed areas and areas used for storage of materials that are exposed to precipitation will be inspected for evidence of, or the potential for pollutants entering the drainage system.
2. Erosion and sediment control measures identified in the plan will be observed to ensure that they are operating correctly.
3. Where discharge locations or points are accessible, they will be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.
4. Location where vehicles enter or exit the site will be inspected for evidence of off-site sediment tracking.
5. Permanent seeding and planting will be inspected for bare spots, washouts, and unhealthy growth.

The inspection shall be conducted by the responsible person at least once a week and after any rainfall.

The information required within an inspection and maintenance report is as follows:

1. Summary of the scope of the inspection.
2. Name(s) and qualifications of personnel making the inspection.
3. The dates of the inspections.
4. Major observations relating to the implementation of the storm-water pollution prevention plan.
5. Changes required correcting damages or deficiencies in the control measures.

In addition to the required routine inspections, the following record of information will also be maintained:

1. The dates when the major grading activities occur.
2. The dates when construction activities temporarily or permanently cease on a portion of the site.
3. The dates when stabilization measures are initiated.

Inspection and maintenance reports as well as all records required by this storm-water pollution prevention plan shall become part of the storm-water pollution plan.

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Maintenance

Based on the results of the inspection, any changes required to correct damages or deficiencies in the control measures shall be made within seven (7) calendar days after the inspection. If the existing stabilization/erosion controls need modification or additional stabilization/erosion controls are necessary, implementation shall be achieved prior to the next anticipated storm event. If, however, the execution of this requirement becomes impractical, then the implementation will occur as soon as possible, with the incident duly noted with an explanation of the impracticality, in the inspection report.

See the below Maintenance Guidelines for each BMP listed below:

Silt Fence Inspection and Maintenance Guidelines:

(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.

Construction Entrance Inspection and Maintenance Guidelines:

(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 course by using approved methods.

Inlet Protection Inspection and Maintenance Guidelines:

(1) Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
(2) Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
(3) Check placement of device to prevent gaps between device and curb.

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(4) Inspect filter fabric and patch or replace if torn or missing.
(5) Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

8/6/25

Applicants Signature Date

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Attachment J Schedule of Interim and Permanent Soil Stabilization Practices

The purpose of soil stabilization is to prevent soil from leaving the site. The soil on the portion of the site that is left in the natural condition and will remain stabilized by the native vegetation. The soil on the developed portion of the project will be stabilized by grass, pavement, or buildings.

Interim soil stabilization practices consist of temporary seeding. Within 14 days after the construction activity ceases in a particular area, all disturbed ground where there will not be construction for longer than 21 days must be seeded with fast-germinating temporary seed and protected with mulch.

Permanent soil stabilization practices for pervious area of the site consist of permanent seeding. All areas at final grade must be seeded within 14 days after completion of the major construction activity. Except for small level spots, seeded areas should be protected with mulch. Final site stabilization is achieved when grass cover provides permanent stabilization for at least 70 percent of the disturbed soil surface, exclusive of areas that have been paved.

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Copy of Notice of Intent (NOI) **Tab 3**

TCEQ Office Use Only
Permit No.:
RN:
CN:
Region:

RESET FORM

Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit (TXR150000)

IMPORTANT:

- Use the INSTRUCTIONS to fill out each question in this form.
- Use the CHECKLIST to make certain you filled out all required information. Incomplete applications **WILL** delay approval or result in denial.
- Once processed your permit can be viewed at: http://www.tceq.texas.gov/goto/wq-dpa

ePERMITS: Sign up now for online NOI: https://www3.tceq.texas.gov/steers/
Pay a $225 reduced application fee by using ePermits.

APPLICATION FEE:

- You must pay the **$325** Application Fee to TCEQ for the paper application to be complete.
- Payment and NOI must be mailed to separate addresses.
- Did you know you can pay on line?
  - Go to http://www.tceq.texas.gov/goto/epay
  - Select Fee Type: GENERAL PERMIT CONSTRUCTION STORM WATER DISCHARGE NOI APPLICATION
- **Provide your payment information below, for verification of payment:**

☐ Mailed Check/Money Order Number: _____
Name Printed on Check: _____
Copy of check enclosed? ☐ Yes

☐ EPAY Voucher Number: _____
Is the Payment Voucher copy attached? ☐ Yes

RENEWAL: Is this NOI a Renewal of an existing General Permit Authorization? (Note: A permit cannot be renewed after June 3, 2013.)

☐ Yes The Permit number is: TXR15_____
(If a permit number is not provided, a new number will be assigned.)

☐ No

1) OPERATOR (Applicant)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? You may search for your CN at: http://www.tceq.texas.gov/goto/cr-customer

CN_____

b) What is the Legal Name of the entity (applicant) applying for this permit?

_____

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

c) What is the contact information for the Operator (Responsible Authority)? The mailing address must be recognized by the US Postal Service (USPS). You may verify the address at: https://tools.usps.com/go/ZipLookupAction!input.action

Prefix (Mr. Ms. Miss):_____
First/Last Name:_____ Suffix:_____
Title:_____Credential:_____
Phone Number:_____Ext:_____Fax Number:_____
E-mail:_____
Mailing Address:_____
Internal Routing (Mail Code, Etc.):_____
City:_____State:_____ZIP Code:_____
If outside USA:
Territory:_____Country Code:_____ Postal Code:_____

d) Indicate the type of Customer (The instructions will help determine your customer type):

☐ Individual ☐ Limited Partnership ☐ Sole Proprietorship-DBA
☐ Joint Venture ☐ General Partnership ☐ Corporation
☐ Trust ☐ Estate ☐ Federal Government
☐ State Government ☐ County Government ☐ City Government
☐ Other Government

e) Independent Operator? (If governmental entity, subsidiary, or part of a larger corporation, check "No".)

☐ Yes ☐ No

f) Number of Employees:

☐ 0-20; ☐ 21-100; ☐ 101-250; ☐ 251-500; or ☐ 501 or higher

g) Customer Business Tax and Filing Numbers:
(REQUIRED for Corporations and Limited Partnerships. Not Required for Individuals, Government, or Sole Proprietors)
State Franchise Tax ID Number:_____
Federal Tax ID:_____
Texas Secretary of State Charter (filing) Number:_____
DUNS Number (if known):_____

2) APPLICATION CONTACT

If TCEQ needs additional information regarding this application, who should be contacted?

Is the application contact the same as the applicant identified above?

☐ Yes, go to Section 3).

☐ No, complete section below

Prefix (Mr. Ms. Miss):_____
First/Last Name: _____ Suffix: _____
Title:_____Credential:_____
Organization Name:_____
Phone Number:_____ Ext:_____ Fax Number:_____
E-mail:_____
Mailing Address:_____
Internal Routing (Mail Code, Etc.):_____
City:_____ State:_____ ZIP Code:_____
Mailing Information if outside USA:
Territory:_____Country Code:_____Postal Code:_____

3) REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

If the site of your business is part of a larger business site or if other businesses were located at this site before yours, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at:
http://www.tceq.texas.gov/goto/cr-searchrn

If the site is found, provide the assigned Regulated Entity Reference Number and provide the information for the site to be authorized through this application below. The site information for this authorization may vary from the larger site information.

a) TCEQ issued RE Reference Number (RN): RN_____

b) Name of project or site (the name known by the community where located):
_____

c) In your own words, briefly describe the primary business of the Regulated Entity: (Do not repeat the SIC and NAICS code):

d) County (or counties if > 1)

e) Latitude:_____Longitude: _____

f) Does the site have a physical address?

☐ Yes, complete Section A for a physical address.

☐ No, complete section B for site location information.

Section A: Enter the physical address for the site.
Verify the address with USPS. If the address is not recognized as a delivery address, provide the address as identified for overnight mail delivery, 911 emergency or other online map tools to confirm an address.

Physical Address of Project or Site:
Street Number: _____ Street Name: _____
City:_____ State:Texas ZIP Code:_____

Section B: Enter the site location information.

If no physical address (Street Number & Street Name), provide a written location access description to the site. (Example: located 2 miles west from intersection of Hwy 290 & IH35 accessible on Hwy 290 South)

City where the site is located or, if not in a city, what is the nearest city:

State: Texas ZIP Code where the site is located:

4) GENERAL CHARACTERISTICS

a) Is the project/site located on Indian Country Lands?

☐ Yes - If the answer is Yes, you must obtain authorization through EPA, Region 6.

☐ No

b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?

☐ Yes - If the answer is Yes, you may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA, Region 6.

☐ No

c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site?

Primary SIC Code:

d) If applicable, what is the Secondary SIC Code(s):

e) What is the total number of acres disturbed?

f) Is the project site part of a larger common plan of development or sale?

☐ Yes - If the answer is Yes, the total number of acres disturbed can be less than 5 acres.

☐ No - If the answer is No, the total number of acres disturbed must be 5 or more. If the total number of acres disturbed is less than 5 then the project site does not qualify for coverage through this Notice of Intent. Coverage will be denied. See the requirements in the general permit for small construction sites.

g) What is the name of the first water body(s) to receive the stormwater runoff or potential runoff from the site?

h) What is the segment number(s) of the classified water body(s) that the discharge will eventually reach?

i) Is the discharge into an MS4?

☐ Yes - If the answer is Yes, provide the name of the MS4 operator below.

_____

Note: The general permit requires you to send a copy of the NOI to the MS4 operator.

☐ No

j) Are any of the surface water bodies receiving discharges from the construction site on the latest EPA-approved CWA 303(d) List of impaired waters?

☐ Yes - If the answer is Yes, provide the name(s) of the impaired water body(s) below.

_____

☐ No

k) Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer as defined in 30 TAC Chapter 213?

☐ Yes - If the answer is Yes, complete certification below by checking "Yes."

☐ No

I certify that a copy of the TCEQ approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) is either included or referenced in the Stormwater Pollution Prevention Plan.

☐ Yes

5) CERTIFICATION

Check Yes to the certifications below. Failure to indicate Yes to ***ALL*** items may result in denial of coverage under the general permit.

a) I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000). ☐ Yes

b) I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas. ☐ Yes

c) I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed. ☐ Yes

d) I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the general permit TXR150000. Note: For multiple operators who operate under a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3 provided all obligations are confirmed by at least one operator. ☐ Yes

Operator Certification:

I,_____ _____
Typed or printed name Title

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under **30 Texas Administrative Code §305.44** to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature: _____ Date:_____
(Use blue ink)

NOTICE OF INTENT CHECKLIST (TXR150000)

- Did you complete everything? Use this checklist to be sure!
- Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

This checklist is for use by the operator to ensure a complete application. Missing information may result in denial of coverage under the general permit. (See NOI process description in the Instructions)

Application Fee:

If paying by Check:

- ☐ Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)
- ☐ Check number and name on check is provided in this application.

If using ePay:

- ☐ The voucher number is provided in this application or a copy of the voucher is attached.

PERMIT NUMBER:

- ☐ Permit number provided – if this application is for renewal of an existing authorization.

OPERATOR INFORMATION - Confirm each item is complete:

- ☐ Customer Number (CN) issued by TCEQ Central Registry
- ☐ Legal name as filed to do business in Texas (Call TX SOS 512/463-5555)
- ☐ Name and title of responsible authority signing the application
- ☐ Mailing address is complete & verifiable with USPS. www.usps.com
- ☐ Phone numbers/e-mail address
- ☐ Type of operator (entity type)
- ☐ Independent operator
- ☐ Number of employees
- ☐ For corporations or limited partnerships – Tax ID and SOS filing numbers
- ☐ Application contact and address is complete & verifiable with USPS. http://www.usps.com

REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE - Confirm each item is complete:

- ☐ Regulated Entity Reference Number (RN) (if site is already regulated by TCEQ)
- ☐ Site/project name/regulated entity
- ☐ Latitude and longitude http://www.tceq.texas.gov/gis/sqmaview.html
- ☐ County
- ☐ Site/project physical address. Do not use a rural route or post office box.
- ☐ Business description

GENERAL CHARACTERISTICS - Confirm each item is complete:

- ☐ Indian Country Lands –the facility is not on Indian Country Lands
- ☐ Construction activity related to facility associated to oil, gas, or geothermal resources
- ☐ Standard Industrial Classification (SIC) Code www.osha.gov/oshstats/sicser.html
- ☐ Acres disturbed is provided and qualifies for coverage through a NOI
- ☐ Common plan of development or sale
- ☐ Receiving water body(s)
- ☐ Segment number(s)
- ☐ Impaired water body(s)
- ☐ MS4 operator
- ☐ Edwards Aquifer rule

CERTIFICATION

- ☐ Certification statements have been checked indicating "Yes"
- ☐ Signature meets 30 Texas Administrative Code (TAC) 305.44 and is original.

Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit (TXR150000)

General Information and Instructions

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):

BY REGULAR U.S. MAIL
Texas Commission on Environmental Quality
Stormwater Processing Center (MC-228)
P.O. Box 13087
Austin, Texas 78711-3087

BY OVERNIGHT/EXPRESS MAIL
Texas Commission on Environmental Quality
Stormwater Processing Center (MC-228)
12100 Park 35 Circle
Austin, TX 78753

TCEQ Contact List:

Application – status and form questions:	512/239-3700, swpermit@tceq.texas.gov
Technical questions:	512/239-4671, swgp@tceq.texas.gov
Environmental Law Division:	512/239-0600
Records Management - obtain copies of forms:	512/239-0900
Reports from databases (as available):	512/239-DATA (3282)
Cashier's office:	512/239-0357 or 512/239-0187

Notice of Intent Process:

When your NOI is received by the program, the form will be processed as follows:

1) **Administrative Review:** Each item on the form will be reviewed for a complete response. In addition, the operator's legal name must be verified with Texas Secretary of State as valid and active (if applicable). The address(s) on the form must be verified with the US Postal service as receiving regular mail delivery. Never give an overnight/express mailing address.

2) **Notice of Deficiency:** If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.

3) **Acknowledgment of Coverage:** An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.
   -or-
   Denial of Coverage: If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

General Permit (Your Permit)

For NOIs submitted **electronically** through ePermits, provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For **paper** NOIs, provisional coverage under the general permit begins **7 days after a completed NOI is postmarked for delivery** to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site http://www.tceq.texas.gov. Search using key word TXR150000.

General Permit Forms

The Notice of Intent (NOI), Notice of Termination (NOT), and Notice of Change (NOC) (including instructions) are available in Adobe Acrobat PDF format on the TCEQ web site http://www.tceq.texas.gov.

Change in Operator

An authorization under the general permit is not transferable. If the operator of the regulated entity changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number.

You can find the information on the Central Registry web site at http://www15.tceq.texas.gov/crpub/. You can search by the Regulated Entity (RN), Customer Number (CN) or Name (Permittee), or by your permit number under the search field labeled "Program ID". Capitalize all letters in the permit number.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For General Permits, a Notice of Change form must be submitted to the program area.

Fees associated with a General Permit

Payment of the fee may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

Application Fee: This fee is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit.

Mailed Payments:

Payment must be mailed under separate cover at one of the addresses below using the attached Application Fee submittal form. (DO NOT SEND A COPY OF THE NOI WITH THE APPLICATION FEE SUBMITTAL FORM)

BY REGULAR U.S. MAIL
Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL
Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, TX 78753

ePAY Electronic Payment: http://www.tceq.texas.gov/epay
When making the payment you must select Water Quality, and then select the fee category "General Permit Construction Storm Water Discharge NOI Application". You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

Renewal of General Permit. Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied a new permit number will be issued.

1. Operator (Applicant)

a) Enter assigned Customer Number (CN)

TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number.**
If this customer has not been assigned a CN, leave the space for the CN blank.
If this customer has already been assigned this number, enter the permittee's CN.

b) Legal Name

Provide the current legal name of the permittee, as authorized to do business in Texas. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512/463-5555, for more information related to filing in Texas. If filed in the county where doing business, provide a copy of the legal documents showing the legal name.

c) Operator Contact's (Responsible Authority) Contact Information and Mailing Address

Provide the first and last name, and the title of the person signing the Certification section of the application. This person must be an individual having signatory authority in accordance with 30 TAC Chapter §305.44. This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. The address must be verifiable with the US Postal Service at https://tools.usps.com/go/ZipLookupAction!input.action for regular mail delivery (not overnight express mail). If you find that the address is not verifiable using the USPS web search, please indicate the address is used by the USPS for regular mail delivery.

The area code and phone number should provide contact to the operator. Leave Extension blank if not applicable.

The fax number and e-mail address are optional and should correspond to the operator.

d) Type of Customer (Entity Type)

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for a permit, registration or authorization.

Sole Proprietorship – DBA

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

- be under the person's name
- have its own name (doing business as or d.b.a.)
- have any number of employees

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

Individual

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ.

Partnership

- A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). A Limited Partnership or Limited Liability Partnership (Partnership) is required to file with the Texas Secretary of State. A General Partnership or Joint Venture is not required to register with the state.
- **Partnership (Limited Partnership or Limited Liability Partnership):** A limited partnership is defined in the Act as a partnership formed by two or more persons under the provisions of Section 3 of the Uniform Limited Partnership Act (Art. 6132a, Revised Civil Statutes of Texas) and having as members one or more general partners and one or more limited partners. The limited partners as such are not bound by the obligations of the partnership. Limited partners may not take part in the day-to-day operations of the business. A Limited Partnership must file with the Texas Secretary of State. A registered limited liability partnership is a general or limited partnership that is registered with the Texas Secretary of State. The partnership's name must contain the words "Registered Limited Liability Partnership" or the abbreviation "L.L.P." as the last words or letters of its name.
- **General Partnership:** A general partner may or may not invest, participates in running the partnership and is liable for all acts and debts of the partnership and any member of it. A General Partnership does not have limited partners. For a General Partnership, there is no registration with the state or even written agreement necessary for a general partnership to be formed. The legal definition of a partnership is generally stated as "an association of two or more persons to carry on as co-owners a business for profit" (Revised Uniform Partnership Act § 101 [1994]).
- **Joint Venture:** A joint venture is but another name for a special partnership. It might be distinguished from a general partnership in that the latter is formed for the transaction of a general business, while a joint venture is usually limited to a single transaction. That is, a joint venture is a special combination of persons in the nature of a partnership engaged in the joint prosecution of a particular transaction for mutual benefit or profit.

Corporation

A customer meets all of these conditions:

- is a legally incorporated entity under the laws of any state or country
- is recognized as a corporation by the Texas Secretary of State
- has proper operating authority to operate in Texas.
- The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

Government

Federal, state, county, or city government (as appropriate)
The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the

applicant. A department name or other description of the organization should not be included as a part of the 'legal name' as applicant.

Trust or Estate

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

Other Government

A utility district, water district, tribal government, college district, council of governments, or river authority. Write in the specific type of government.

e) Independent Entity

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

f) Number of Employees

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

g) Customer Business Tax and Filing Numbers

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

State Franchise Tax ID Number

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter this number here.

Federal Tax ID

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

TX SOS Charter (filing) Number

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512/463-5555.

DUNS Number

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

2. APPLICATION CONTACT

Provide the name, title and communication information of the person that TCEQ can contact for additional information regarding this application.

3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) Regulated Entity Reference Number (RN)

A number issued by TCEQ's Central Registry to sites (a location where a regulated activity occurs) regulated by TCEQ. This is not a permit number, registration number, or license number. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at: http://www.tceq.texas.gov/goto/cr-searchrn

If the site is found, provide the assigned Regulated Entity Reference Number (RN) and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

b) Site/Project Name/Regulated Entity
Provide the name of the site as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

c) Description of Activity Regulated
In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

d) County
Identify the county or counties in which the regulated entity is located.

e) Latitude and Longitude
Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to:
http://www.tceq.texas.gov/gis/sqmaview.html or http://nationalmap.gov/ustopo

f) Site/Project (RE) Physical Address/Location Information
Enter the complete address for the site in Section A if the address can be validated through the US Postal Service. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street (or house) number and street name, enter NO ADDRESS for the street name in Section A. In Section B provide a complete written location description. For example: "The site is located 2 miles west from intersection of Hwy 290 & IH35, located on the southwest corner of the Hwy 290 South bound lane."
Provide the city (or nearest city) and zip code of the facility location.

4. GENERAL CHARACTERISTICS

a) Indian Country Lands
If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA, Region 6, Dallas. Do not submit this form to TCEQ.

b) Construction activity associated with facility associated with exploration, development, or production of oil, gas, or geothermal resources

If your activity is associated with oil and gas exploration, development, or production, you may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization from EPA Region 6. For more information, see: http://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the Railroad Commission's jurisdiction must be authorized by the EPA and the Railroad Commission of Texas, as applicable. Activities under Railroad Commission of Texas jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the Railroad Commission of Texas; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The Railroad Commission of Texas also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the Railroad Commission of Texas. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from "field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities" unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the Railroad Commission of Texas prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

c) Primary Standard Industrial Classification (SIC) Code

Provide the SIC Code that best describes the construction activity being conducted at this site.

Common SIC Codes related to construction activities include:

- 1521 - Construction of Single Family Homes
- 1522 - Construction of Residential Bldgs. Other than Single Family Homes
- 1541 - Construction of Industrial Bldgs. and Warehouses

- 1542 - Construction of Non-residential Bldgs, other than Industrial Bldgs. and Warehouses
- 1611 - Highway and Street Construction, except Highway Construction
- 1622 - Bridge, Tunnel, and Elevated Highway Construction
- 1623 - Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, go to:
http://www.osha.gov/pls/imis/sicsearch.html

d) Secondary SIC Code
Secondary SIC Code(s) may be provided. Leave blank if not applicable. For help with SIC Codes, go to: http://www.osha.gov/pls/imis/sicsearch.html

e) Total Number of Acres Disturbed
Provide the approximate number of acres that the construction site will disturb. Construction activities that disturb less than one acre, unless they are part of a larger common plan that disturbs more than one acre, do not require permit coverage. Construction activities that disturb between one and five acres, unless they are part of a common plan that disturbs more than five acres, do not require submission of an NOI. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

If you have any questions about this item, please contact the stormwater technical staff by phone at (512)239-4671 or by email at swgp@tceq.texas.gov.

f) Common Plan of Development
Construction activities that disturb less than five acres do not require submission of an NOI unless they are part of a common plan of development or for sale where the area disturbed is five or more acres. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

For more information on "What is a common plan of development?" go to:
www.tceq.texas.gov/permitting/stormwater/common_plan_of_development_steps.html

For further information, go to the TCEQ stormwater construction webpage at:
www.tceq.texas.gov/goto/construction and search for "Additional Guidance and Quick Links". If you have any further questions about this item, please call the stormwater technical staff at (512)239-4671.

g) Identify the water body(s) receiving stormwater runoff
The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

If your site has more than one outfall you need to include the name of the first water body for each outfall, if they are different.

h) Identify the segment number(s) of the classified water body(s)
Identify the classified segment number(s) receiving a discharge directly or indirectly. Go to the following link to find the segment number of the classified water body where stormwater will flow from the site: www.tceq.texas.gov/waterquality/monitoring/viewer.html

You may also find the segment number in TCEQ publication GI-316: www.tceq.texas.gov/publications/gi/gi-316

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

- 0100 (Canadian River Basin)
- 0200 (Red River Basin)
- 0300 (Sulfur River Basin)
- 0400 (Cypress Creek Basin)
- 0500 (Sabine River Basin)

Call the Water Quality Assessments section at (512)239-4671 for further assistance.

i) Discharge into MS4 – Identify the MS4 Operator
The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at (512)239-4671.

j) Surface Water bodies on list of impaired waters – Identify the impaired water body(s)
Indicate Yes or No if any surface water bodies receiving discharges from the construction site are on the latest EPA-approved CWA 303(d) List of impaired waters. Provide the name(s) of surface water bodies receiving discharges or potential discharges from the construction site that are on the latest EPA-approved CWA 303(d) List of impaired waters. The EPA-approved CWA 303(d) List of impaired waters in Texas can be found at: www.tceq.texas.gov/waterquality/assessment/305_303.html

NOTE: Do not use any "draft" documents.

k) Discharges to the Edwards Aquifer Recharge Zone and Certification
See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer at: www.tceq.texas.gov/field/eapp/viewer.html

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required before construction can begin. The certification must be answered "Yes" for coverage under the Construction General Permit. The TCEQ approved plan must be readily available for TCEQ staff to review at the time that the NOI is submitted.

The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

5. CERTIFICATIONS

Failure to indicate **Yes** to ALL of the certification items may result in denial of coverage under the general permit.

a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

Provisional coverage under the Construction General Permit (TXR150000) begins 7 days after the completed paper NOI is postmarked for delivery to the TCEQ. (Electronic applications submitted through ePermits have immediate provisional coverage). You must obtain a copy and read the Construction General Permit before submitting your application. You may view and print the Construction General Permit for which you are seeking coverage at the TCEQ web site: www.tceq.texas.gov/goto/construction

b) Certification of Legal Name

The full legal name of the applicant as authorized to do business in Texas is required. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at (512)463 5555, for more information related to filing in Texas.

c) Understanding of Notice of Termination

A permittee shall terminate coverage under this Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

d) Certification of Stormwater Pollution Prevention Plan

The SWP3 identifies the areas and activities that could produce contaminated runoff at your site and then tells how you will ensure that this contamination is mitigated. For example, in describing your mitigation measures, your site's plan might identify the devices that collect and filter stormwater, tell how those devices are to be maintained, and tell how frequently that maintenance is to be carried out. You must develop this plan in accordance with the TCEQ general permit requirements. This plan must be developed and implemented before you complete this NOI. The SWP3 must be available for a TCEQ investigator to review on request.

Operator Certification:

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

IF YOU ARE A CORPORATION:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the Texas Commission on Environmental Quality's Environmental Law Division at (512)239-0600.

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

Texas Commission on Environmental Quality
General Permit Payment Submittal Form

Use this form to submit your Application Fee only if you are mailing your payment.

- Complete items 1 through 5 below:
- Staple your check in the space provided at the bottom of this document.
- Do not mail this form with your NOI form.
- Do not mail this form to the same address as your NOI.

Mail this form and your check to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, TX 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, TX 78753

Fee Code: GPA General Permit: TXR150000

1. Check / Money Order Number:
2. Amount of Check/Money Order:
3. Date of Check or Money Order:
4. Name on Check or Money Order:
5. NOI INFORMATION

   If the check is for more than one NOI, list each Project/Site (RE) Name and Physical Address exactly as provided on the NOI. DO NOT SUBMIT A COPY OF THE NOI WITH THIS FORM AS IT COULD CAUSE DUPLICATE PERMIT ENTRIES.

   See Attached List of Sites (If more space is needed, you may attach a list.)

   Project/Site (RE) Name:

   Project/Site (RE) Physical Address:

Staple Check in This Space

5906 Old Fredericksburg Road
Suite 300
Austin, Texas 78749
TBPE Firm #8601
(512) 301-3389
www.tdi-llc.net

Agent Authorization (TCEQ Form 0599) **Tab 4**

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

I Kirby Walls,
Print Name

Owner,
Title - Owner/President/Other

of Catharine Steven Ventures, LLC,
Corporation/Partnership/Entity Name

have authorized F.P. (Tres) Howland, III, PE
Print Name of Agent/Engineer

of TDI Engineering, LLC.
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature — 8/6/25 Date

THE STATE OF Texas §

County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared Kirby Walls 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 6 day of August, 2025.

Kim Yadlowsky
NOTARY PUBLIC

Kim Yadlowsky
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 1-20-27

KIM YADLOWSKY
My Notary ID # 134156517
Expires January 20, 2027

5906 Old Fredericksburg Road
Suite 300
Austin, Texas 78749
TBPE Firm #8601
(512) 301-3389
www.tdi-llc.net

Application Fee (TCEQ Form 0574) Tab 5

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Hawk Ridge
Regulated Entity Location: Hays County
Name of Customer: Catharine Steven Ventures, LLC
Contact Person: Kirby Walls Phone: 512-466-5774
Customer Reference Number (if issued):CN _____
Regulated Entity Reference Number (if issued):RN _____
Austin Regional Office (3373)

[X] Hays [ ] Travis [ ] Williamson

San Antonio Regional Office (3362)

[ ] Bexar [ ] Medina [ ] Uvalde
[ ] Comal [ ] Kinney

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

[X] Austin Regional Office
[ ] Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

[ ] San Antonio Regional Office
[ ] Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

[ ] Recharge Zone [X] Contributing Zone [ ] Transition Zone

Type of Plan	*Size*	*Fee Due*
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	85 Acres	$ 6,500.00
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: _____ Date: 8/6/25

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

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

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Core Data (TCEQ Form 10400) **Tab 6**

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*)

CN

Follow this link to search for CN or RN numbers in Central Registry**

3. Regulated Entity Reference Number (*if issued*)

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:*

Catharine Steven Ventures, LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** (*if applicable*)
803779821	32076118697	85-3943557	N/A

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 ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:	801 Polo Club Drive						
	City	Austin	**State**	TX	**ZIP**	78737	**ZIP + 4**

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512)466- 5774		( ) -

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.)*

Hawk Ridge

23. Street Address of the Regulated Entity: *(No PO Boxes)*	13885 Evergreen Way							
	City	Austin	**State**	TX	**ZIP**	78737	**ZIP + 4**	
24. County	Hays County							

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

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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)
1521	1611	236115	237310

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

Single family Subdivision development

34. Mailing Address:	801 Polo Club Drive							
	City	Austin	**State**	TX	**ZIP**	78737	**ZIP + 4**	
35. E-Mail Address:	kirby@kirbywalls.com							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512)466- 5774		( ) -

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:	F.P. (Tres) Howland,III, PE	41. Title:	Principal
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512)301-3389		( ) -	thowland@tdi-llc.net

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:	Catharine Steven Ventures, LLC	**Job Title:**	Owner
Name *(In Print)*:	Kirby Walls	**Phone:**	(512)466-5774
Signature:		**Date:**	8/6/25

GEOLOGIC ASSESSMENT

For

HAWK RIDGE TRACT
EVERGREEN WAY
AUSTIN, TEXAS
Prepared for

TDI ENGINEERING, LLC
5906 OLD FREDERICKSBURG ROAD, SUITE 300
AUSTIN, TX 78749
Prepared by

Professional Service Industries, Inc.
3 Burwood Lane
San Antonio, Texas 78216
Telephone (210) 342-9377

PSI PROJECT NO.: 0435- 6625

May 5, 2025

Project Number: 0435-6625
May 5, 2025

Professional Service Industries, Inc.
3 Burwood Lane, San Antonio, TX 78216
Phone: (210) 342-9377
Fax: (512) 491-0221

TDI Engineering, LLC
5906 Old Fredericksburg Road, Suite 300
Austin, TX 78749

Attn. Mr. Tres Howland, PE, Principal
email: thowland@tdi-llc.net

Re: **Geologic Assessment**
Hawk Ridge Tract
Evergreen Way
Austin, Texas 78737
PSI Project Number 0435-6625

Dear Mr. Howland:

Professional Service Industries, Inc. (PSI) has completed a Texas Commission on Environmental Quality (TCEQ) Geologic Assessment for the above referenced property. The Geologic Assessment was conducted in general accordance with the application requirements for the TCEQ water pollution abatement plans (WPAP) for regulated developments located on the Edwards Aquifer Recharge or Contributing Zones. The purpose of this report is to describe surficial geologic units and identify the locations and extent of significant recharge features present in the development area.

AUTHORIZATION

Authorization to perform this assessment was given by a signed copy of PSI Proposal PSI Proposal No. 0435-447478.

PROJECT DESCRIPTION

The subject site is an approximate 87.3-acre tract of land located on both sides of Evergreen Way in Hays County, Texas beginning at the 13855 Evergreen Way address. The property consists of residential developed and undeveloped property. The site's topography is mostly hilltop to hill slope with some low slope to level areas and is partially covered in medium sized trees Juniper and Oak trees and native grasses.

PHYSIOGRAPHY- GEOLOGY - HYDROGEOLOGY

Regional Physiography

From west to east, the two physiographic provinces in Hays County are: the Edwards Plateau and the Blackland Prairie. The Edwards Plateau terrain is rugged and hilly, with elevations ranging from 600 feet to 1,400 feet above sea level. This area is underlain by beds of limestone that dip gently to the southeast. Southeast of the Edwards Plateau is the Balcones Fault Zone, which is also the northernmost limit of the Blackland Prairie. The Balcones Fault Zone extends north-south across Hays County and is composed of fault blocks of limestone, chalk, shale and marl. The undulating, hilly topography of the Blackland Prairie ranges in elevation from about 400 feet to 800 feet above sea level. The faults are predominantly normal, down thrown-to-the Gulf Coast, with near vertical throws.

Site Geology and Soils

The subject property lies on the far eastern Edwards Plateau. According to maps published by the University of Texas at Austin Bureau of Economic Geology in cooperation with the United States Geological Survey (USGS), no faults are mapped in the immediate proximity to the subject site.

The surface geologic formation mapped at the site on the surface is the Upper Glen Rose Limestone. The Glen Rose is the uppermost, thickest, and most extensively exposed formation of the Trinity Group and consists of alternating beds of limestone, dolomite and marl in alternating resistant and recessive beds forming stairstep topography. The formation contains soft yellow magnesium fossiliferous beds along with alternating with fine argillaceous sand with occasional dimension layers of almost pure crystalline limestones, chalk, and magnesium limestones, often oolitic in structure.

The subject site is wholly mapped as located within the Edwards Aquifer Contributing Zone. Surface observations indicated mostly bedrock float material and a thin soil cover on steep to moderate slopes with mostly soil cover on the low slope areas. The site is vegetated with juniper and oak trees.

Four main soil types are mapped at the site. Soils at the subject property consist of:

- **Bolar clay loam, 1 to 3 percent slopes:**
  The Bolar series consists of moderately deep, well drained, moderately permeable soils formed in interbedded limestones and calcareous marls formed in residuum. These occur on summits, shoulders, and backslopes of ridges on hills.
- **Brackett-Rock Outcrop-Comfort complex, 1 to 8 percent slopes and 8 to 30 percent slopes:**
  The Brackett series consists of shallow to paralithic bedrock, well drained soils formed in residuum weathered from limestone of Cretaceous age, mainly from the Glen Rose formation. These nearly level to very steep soils are located on backslopes of ridges on dissected plateaus of the Edwards Plateau.

- **Krum clay, 1 to 3 percent slopes:**
  The Krum series consists of very deep to clayey alluvium, well drained soils that formed in calcareous clayey alluvium derived from interbedded chalk and marl. These nearly level to moderately sloping soils are on risers and treads of stream terraces on river valleys and dissected plains.
- **Purves clay, 1 to 5 percent slopes:**
  The Purves series consists of shallow, well drained, moderately slowly permeable soils that formed in interbedded limestone and marl. These soils are on gently sloping to steep upland divides with plane to convex surfaces.

Edwards Aquifer Contributing Zone Hydrogeology

The Edwards Aquifer Contributing and Recharge Zone Maps (Attachment D), provided by the TCEQ, along with various other references were reviewed for this assessment. These Edwards Aquifer maps are based on official maps containing regulatory boundaries based on previous geologic studies and interpretations of the Edwards Aquifer hydrogeology, including recharge, transition, contributing, artesian and saline zones, as defined in 30 TAC 213.

The Edwards Aquifer recharge zone is located approximately 2.5 miles to the southeast where the Edwards Formation is exposed due to normal faulting in a northeast to southwest direction. The Trinity Aquifer is the main source of groundwater in this area. Depths to usable groundwater are approximately 250 to 600 feet below grade within Trinity Aquifer's upper and middle units. The elevation of the property ranges from approximately 1080 feet above mean sea level (AMSL) on the northwestern portion to approximately 1045 feet AMSL on the southeastern portion. The topographic contour lines for the property indicate a moderate slope to the southeast.

SITE INVESTIGATION

The site investigation was performed by inspecting the subject area, and identifying any drainage features, fractured or vuggy rock outcrops, closed depressions, sinkholes, caves, or indications of fault/fracture zones. The purpose of the site investigation was to delineate features with recharge potential that may warrant special protection or consideration.

The subject site is currently partially developed with many undeveloped lots. The surrounding area is comprised of residential subdivisions and homestead tracts. Thin surficial soils with exposed bedrock and bedrock float rocks were observed on the surface of the undeveloped areas. Although a watershed stream feature was observed across the Phase 2 tract, no exposed bedrock was observed within the channel. An abandoned windmill water well was observed on the eastern portion of the Phase 1 tract with a six-inch diameter steel uncapped casing exposed on the surface. There are no indications of recharge features such as fault/fracture zones and/or evidence of springs, natural ponds, etc. on the site. The results of the site investigation are included in the attached TCEQ 0585 report format and the associated Geologic Assessment Table (Attachment A).

SUMMARY

This geologic assessment did not identify any natural sensitive, or potential recharge features on the subject tract. An uncapped water well feature is identified on the site geologic map and discussed in the assessment table. Based on review of geologic maps, other resources, and the site reconnaissance, there does not appear to be evidence of natural recharge features or other geologic structural features. No permanent streams or springs exist

on the subject tract.

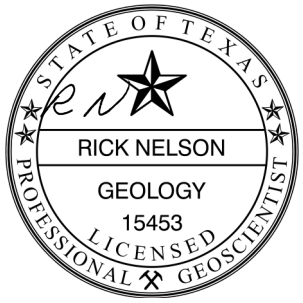
It is possible that future clearing/construction activities will reveal the presence of features currently hidden by thick vegetation and/or soil cover. If caves, sinkholes, or solution cavities are encountered during future clearing/construction activities, please contact our office for additional assistance.

We appreciate this opportunity to be of service to you. If you have any questions, please do not hesitate to contact our office.

Respectfully Submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.

Rick Nelson

Rick Nelson, P.G.
Senior Scientist, Environmental Services



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WARRANTY

The field observations and research reported herein are considered sufficient in detail and scope to form a reasonable basis for a general geological recharge assessment of this site. PSI warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted geologic methods, only for the site described in this report. These methods have been developed to provide the client with information regarding apparent indications of existing or potential conditions relating to the subject site and are necessarily limited to the conditions observed at the time of the site visit and research. This report is also limited to the information available at the time it was prepared. In the event additional information is provided to PSI following the report, it will be forwarded to the client in the form received for evaluation by the client. There is a possibility that conditions may exist which could not be identified within the scope of the assessment or which were not apparent during the site visit. PSI believes that the information obtained from others during the review of public information is reliable; however, PSI cannot warrant or guarantee that the information provided by others is complete or accurate.

This report has been prepared for the exclusive use of the client for the site discussed herein. Reproductions of this report cannot be made without the expressed approval the client. The general terms and conditions under which this assessment was prepared apply solely to the client for this site. No other warranties are implied or expressed.

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: Rick Nelson Telephone: 512-636-1647

Date: 5/5/2025 Fax: 210-342-9401

Representing: PSI TBPG No. 50128 (Name of Company and TBPG or TBPE registration number)

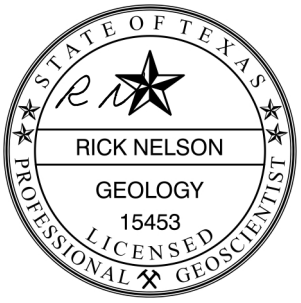
Signature of Geologist:

Rick Nelson

Regulated Entity Name: TDI Engineering, LLC, 5906 Old Fredericksburg Road, Suite 300, Austin, TX 78759

Project Information

1. Date(s) Geologic Assessment was performed: 4/15/2025
2. Type of Project:
   - ☒ WPAP
   - ☐ SCS
   - ☐ AST
   - ☐ UST
3. Location of Project:
   - ☐ Recharge Zone
   - ☐ Transition Zone
   - ☒ Contributing 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)
BrB - Bolar clay loam, 1 to 3 percent slopes	C	2.3
BtD - Brackett-Rock outcrop-Comfort complex, 1 to 8 percent slopes	D	1.1
BtG - Brackett-Rock outcrop-Real complex, 8 to 30 percent slopes	D	1.1
KrB - Krum clay, 1 to 3 percent slopes	C	6.5
PuC - Purves clay, 1 to 5 percent slopes	D	1.8

** 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" = 375'
   Site Geologic Map Scale: 1" = 375'
   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 1 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    ☐ The wells are not in use and have been properly abandoned.
    ☒ The wells are not in use and will be properly abandoned.
    ☐ The wells are in use and comply with 16 TAC Chapter 76.
    ☐ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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

GEOLOGIC ASSESSMENT TABLE

PSI 0435-6625 **PROJECT NAME:** Hawk Ridge Tract, Evergreen Way, Austin, Tx

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
	Decimal Degrees					X	Y	Z		10							<40	>40	<1.6	>1.6	
WW-1	30.16775	-97.973073	MB	30	Kgru	0.5	0.5	100					N	5		35	X		X		Flat

* DATUM:_____

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 (Pump in well)

12 TOPOGRAPHY

Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Commission on Environmental Quality'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 Chapter 213.

Rick Nelson _____

Date 5/5/2025

Sheet 1 of 1

STATE OF TEXAS
RICK NELSON
GEOLOGY
15453
LICENSED
PROFESSIONAL GEOSCIENTIST

TCEQ-0585-Table (Rev. 10-01-04)

ATTACHMENT B

STRATIGRAPHIC COLUMN

Hawk Ridge Tract

Evergreen Way

Austin, TX 78737

PSI Project No. 0435-6625

FORMATION	THICKNESS	LITHOLOGIC DESCRIPTION
Upper Glen Rose (Kgru) *(outcropped onsite)*	220 ft	Alternating beds. Soft yellow magnesium fossiliferous beds, siliceous at base, alternating with fine argillaceous sand with occasional dimension layers of almost pure crystalline limestones, chalk, and magnesium limestones, often oolitic in structure.
Lower Glen Rose (Kgrl)	160 ft	Thin-to-medium-bedded mudstone, wackestone, and packstone
Hensel Sand (Kh)	30-40 ft	Mostly fine grained, friable to well cemented sand, light gray to brown.

ATTACHMENT C

SITE GEOLOGIC NARRATIVE

Regional Physiography

From west to east, the two physiographic provinces in Hays County are: the Edwards Plateau and the Blackland Prairie. The Edwards Plateau terrain is rugged and hilly, with elevations ranging from 600 feet to 1,400 feet above sea level. This area is underlain by beds of limestone that dip gently to the southeast. Southeast of the Edwards Plateau is the Balcones Fault Zone, which is also the northernmost limit of the Blackland Prairie. The Balcones Fault Zone extends north-south across Hays County and is composed of fault blocks of limestone, chalk, shale and marl. The undulating, hilly topography of the Blackland Prairie ranges in elevation from about 400 feet to 800 feet above sea level. The faults are predominantly normal, down thrown-to-the Gulf Coast, with near vertical throws.

Site Geology and Soils

The subject property lies on the far eastern Edwards Plateau. According to maps published by the University of Texas at Austin Bureau of Economic Geology in cooperation with the United States Geological Survey (USGS), no faults are mapped in the immediate proximity to the subject site.

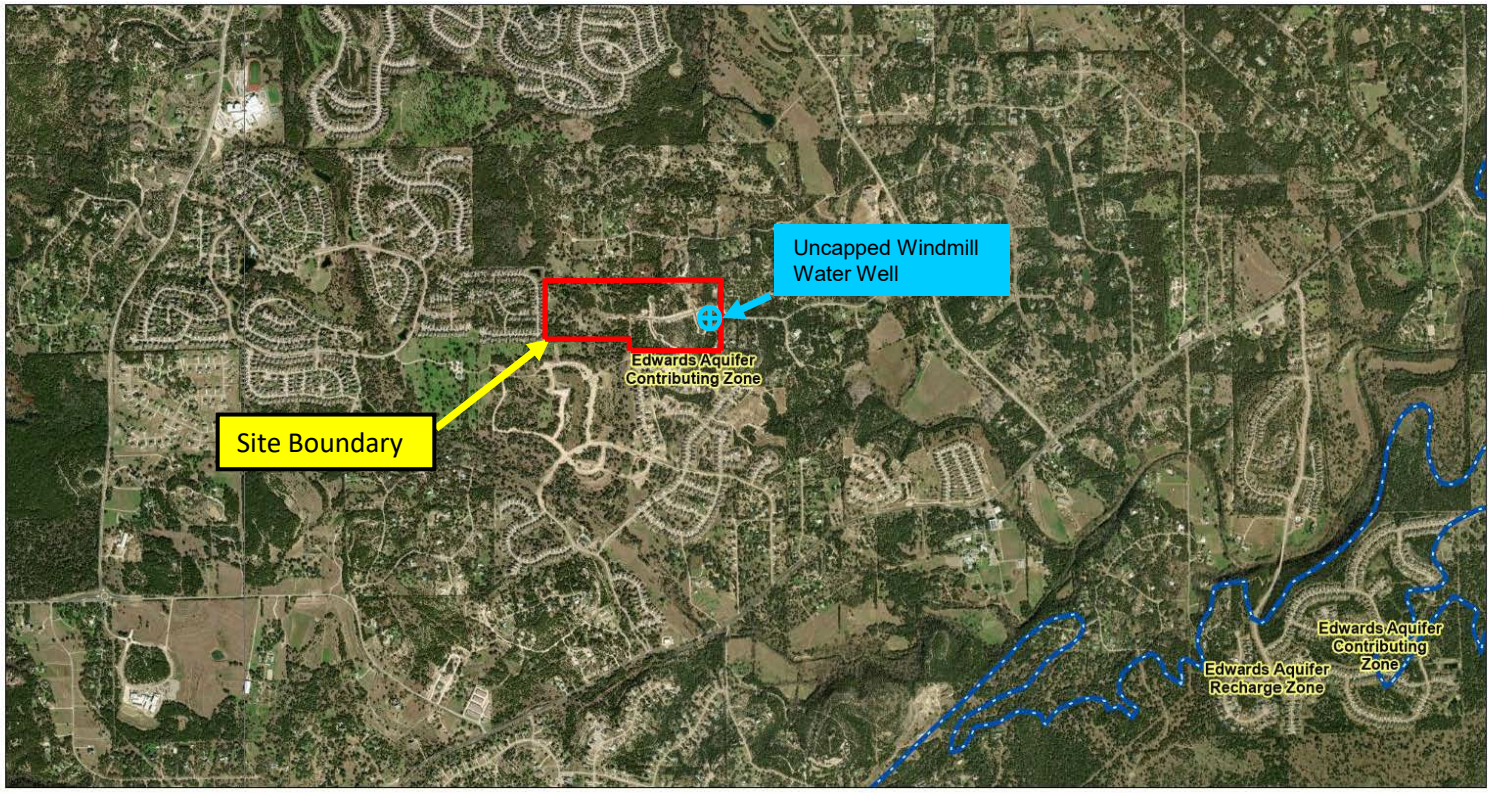
The surface geologic formation mapped at the site on the surface is the Upper Glen Rose Limestone. The Glen Rose is the uppermost, thickest, and most extensively exposed formation of the Trinity Group and consists of alternating beds of limestone, dolomite and marl in alternating resistant and recessive beds forming stairstep topography. The formation contains soft yellow magnesium fossiliferous beds along with alternating with fine argillaceous sand with occasional dimension layers of almost pure crystalline limestones, chalk, and magnesium limestones, often oolitic in structure.

The subject site is wholly mapped as located within the Edwards Aquifer Contributing Zone. The surface is mostly exposed bedrock float material and a thin soil cover. The site is vegetated with juniper and oak trees.

Four main soil types are mapped at the site. Soils at the subject property consist of:

- **Bolar clay loam, 1 to 3 percent slopes:**
  The Bolar series consists of moderately deep, well drained, moderately permeable soils formed in interbedded limestones and calcareous marls formed in residuum. These occur on summits, shoulders, and backslopes of ridges on hills. The soil does not meet hydric criteria.
- **Brackett-Rock Outcrop-Comfort complex, 1 to 8 percent slopes and 8 to 30 percent slopes:**
  The Brackett series consists of shallow to paralithic bedrock, well drained soils formed in residuum weathered from limestone of Cretaceous age, mainly from the Glen Rose formation. These nearly level to very steep soils are located on backslopes of ridges on dissected plateaus of the Edwards Plateau.
- **Krum clay, 1 to 3 percent slopes:**
  The Krum series consists of very deep to clayey alluvium, well drained soils that formed in calcareous clayey alluvium derived from interbedded chalk and marl. These nearly level to moderately sloping soils are on risers and treads of stream terraces on river valleys and dissected plains.
- **Purves clay, 1 to 5 percent slopes:**
  The Purves series consists of shallow, well drained, moderately slowly permeable soils that formed in interbedded limestone and marl. These soils are on gently sloping to steep upland divides with plane to convex surfaces.

Hawk Ridge Tract, Evergreen Way, Austin, Tx



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1:24,234

0 0.25 0.5 1 mi
0 0.4 0.8 1.6 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, TCEQ

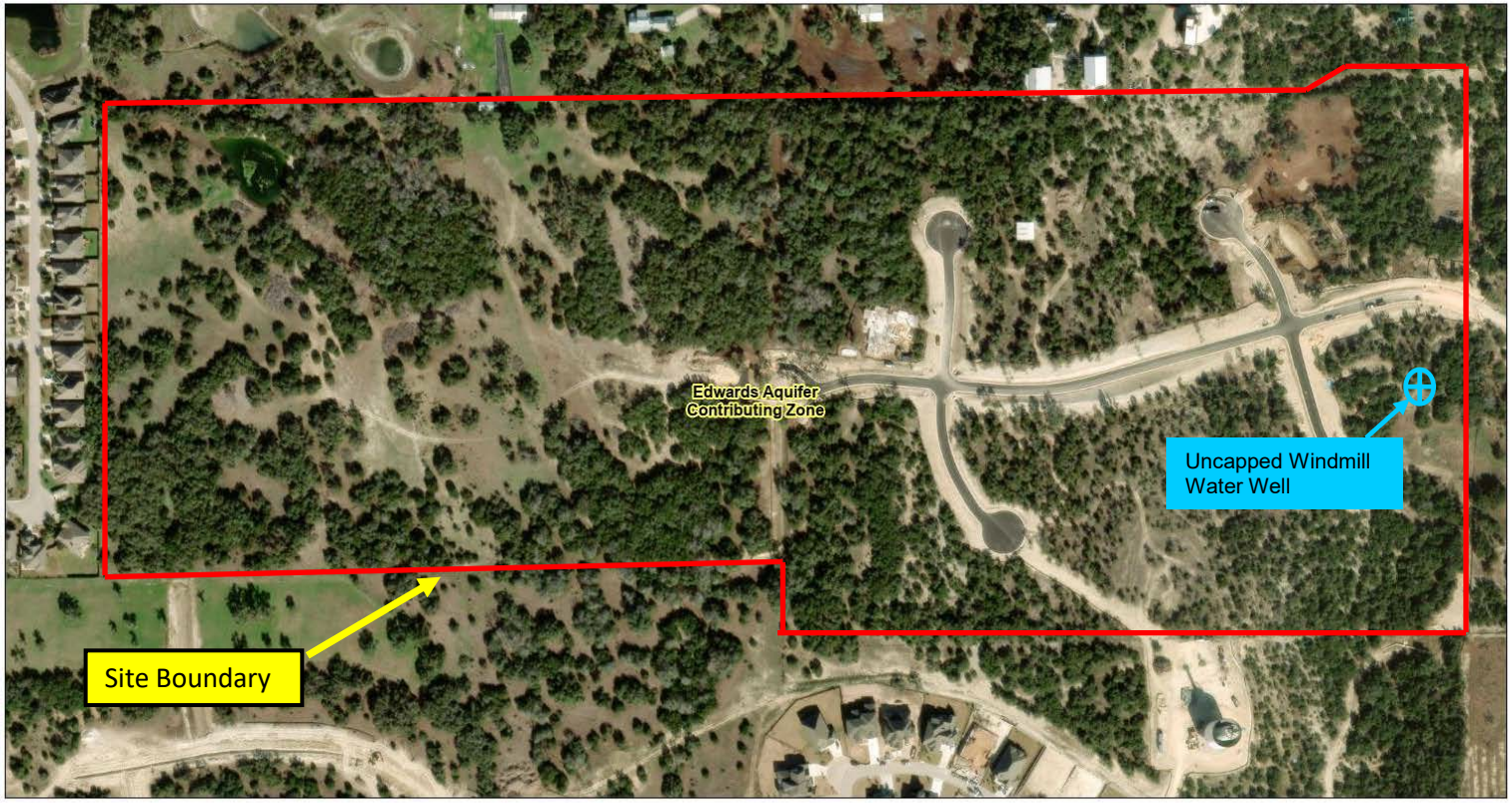
intertek psi
3 Burwood Lane
San Antonio, Texas 78216

Hawk Ridge Tract
Evergreen Way
Austin, TX 78737
PSI Project No. 0435-6625

ATTACHMENT D
Edwards Aquifer Map (regional)

N

Hawk Ridge - Evergreen Way, Austin, Tx



4/28/2025, 1:38:06 PM

1:3,076

0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

Maxar, Microsoft, TCEQ

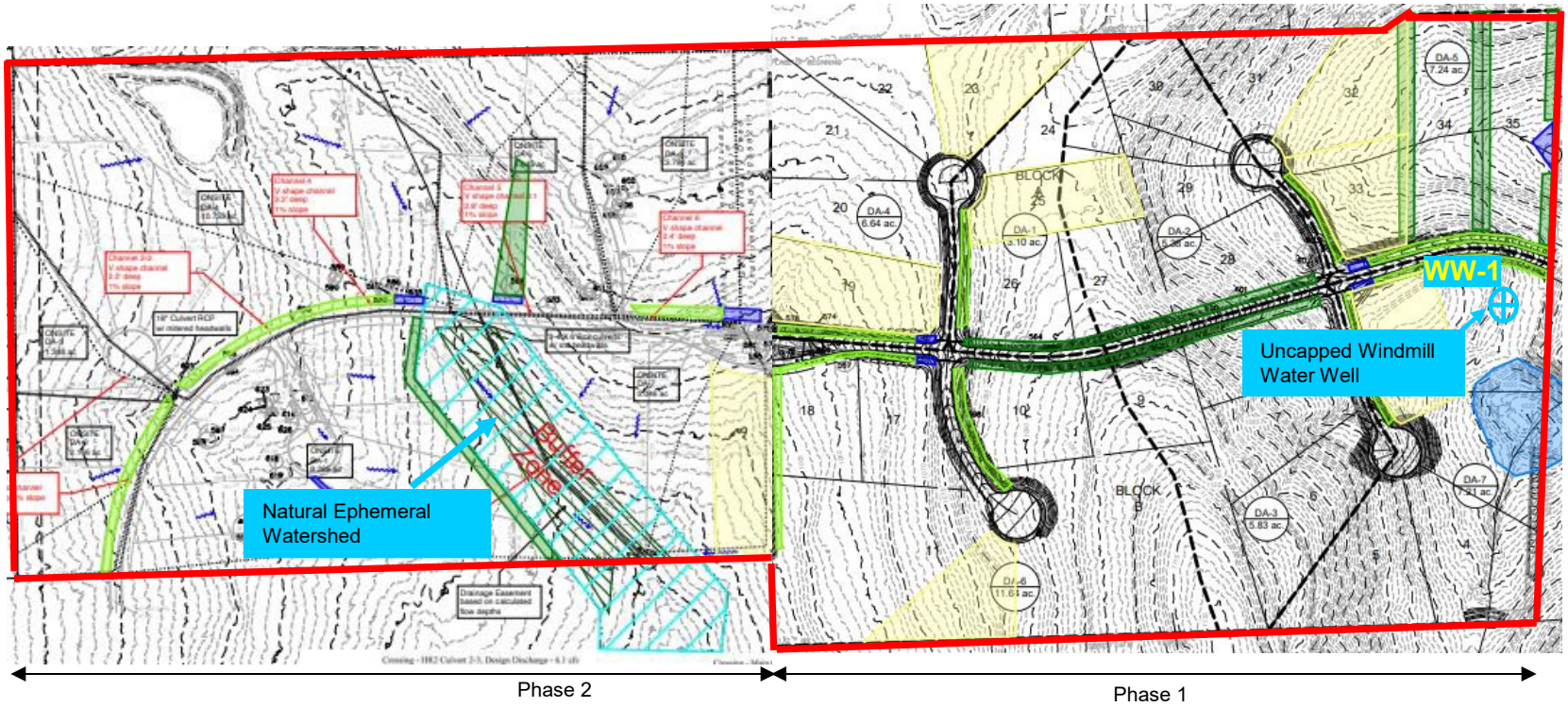
intertek psi

3 Burwood Lane
San Antonio, Texas 78216

Hawk Ridge Tract
Evergreen Way
Austin, TX 78737
PSI Project No. 0435-6625

ATTACHMENT D
Edwards Aquifer
Map (local)

N

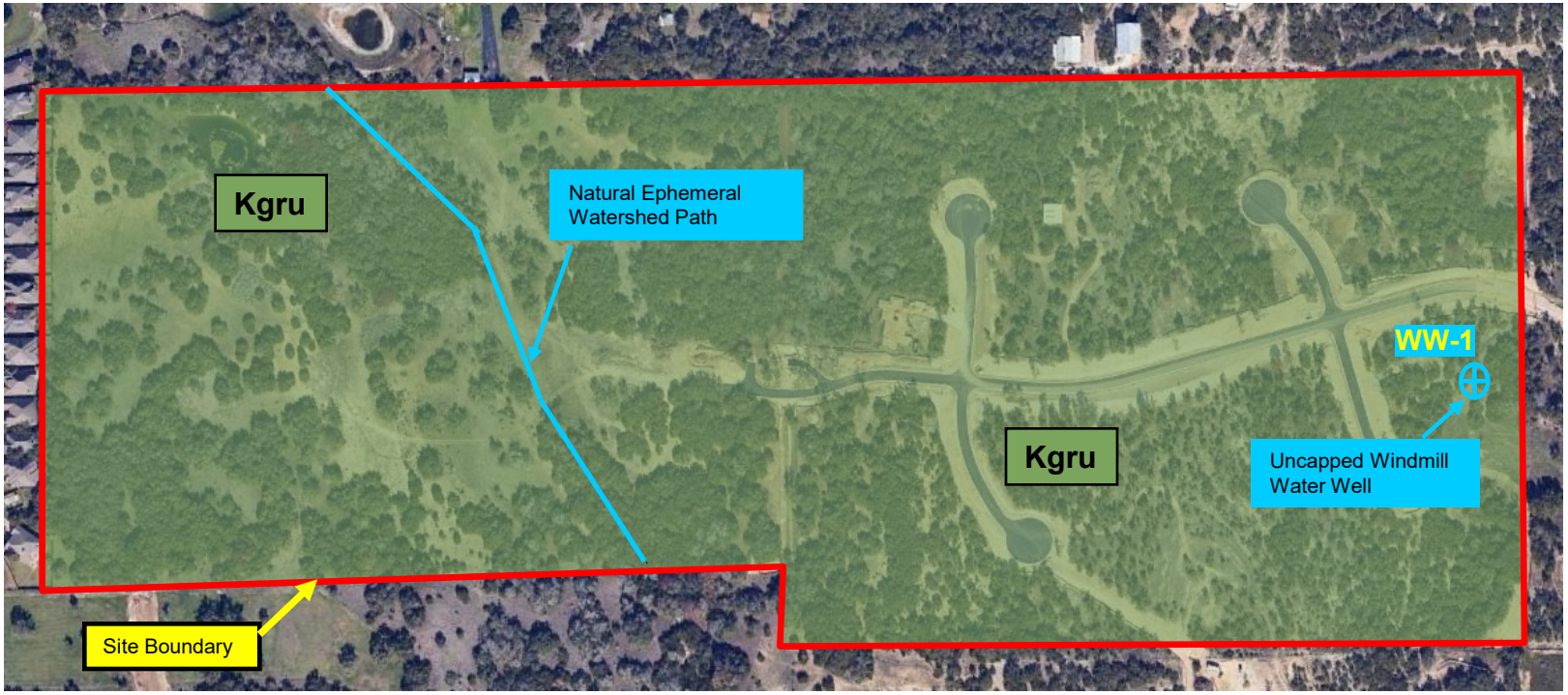


intertek psi
3 Burwood Lane
San Antonio, Texas 782156

Hawk Ridge Tract
Evergreen Way
Austin, TX 78737
PSI Project No. 0435-6625

ATTACHMENT D
Site Plan

N
Graphic Scale
0 375 ft



STATE OF TEXAS
RICK NELSON
GEOLOGY
15453
LICENSED
PROFESSIONAL GEOSCIENTIST

Source: Geologic Atlas of Texas
Bureau of Economic Geology
University of Texas, 1995

Kgru	Upper Glen Rose Limestone
	Site Boundary

intertek psi

3 Burwood Lane
San Antonio, Texas 782156

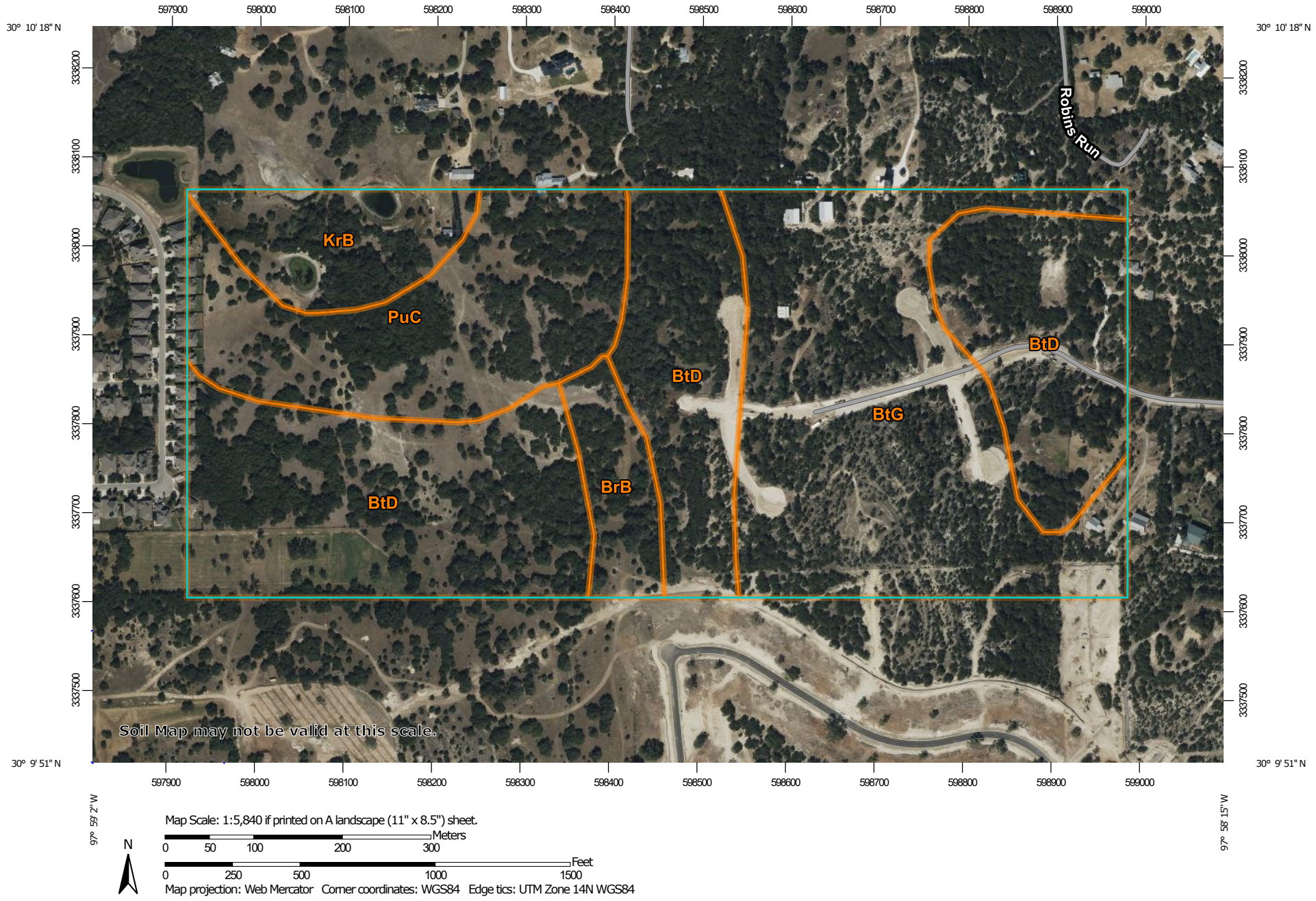
Hawk Ridge Tract
Evergreen Way
Austin, TX 78737
PSI Project No. 0435-6625

ATTACHMENT D
Site Geologic Map

N
Graphic Scale
0 375 ft

Attachment D - Soils Map

Soil Map—Comal and Hays Counties, Texas
(Hawk Ridge Tract, Evergreen Way, Austin, Tx)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas
Survey Area Data: Version 21, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BrB	Bolar clay loam, 1 to 3 percent slopes	5.0	4.1%
BtD	Brackett-Rock outcrop-Comfort complex, 1 to 8 percent slopes	51.3	42.4%
BtG	Brackett-Rock outcrop-Real complex, 8 to 30 percent slopes	35.6	29.4%
KrB	Krum clay, 1 to 3 percent slopes	8.1	6.7%
PuC	Purves clay, 1 to 5 percent slopes	21.0	17.3%
Totals for Area of Interest		**121.0**	**100.0%**

ATTACHMENT E

PHOTOGRAPHS

1. View of entrance to property from the east property line

2. View of typical completed residence in Phase1

3. Typical undeveloped hillside lot area

4. Typical undeveloped flat lot

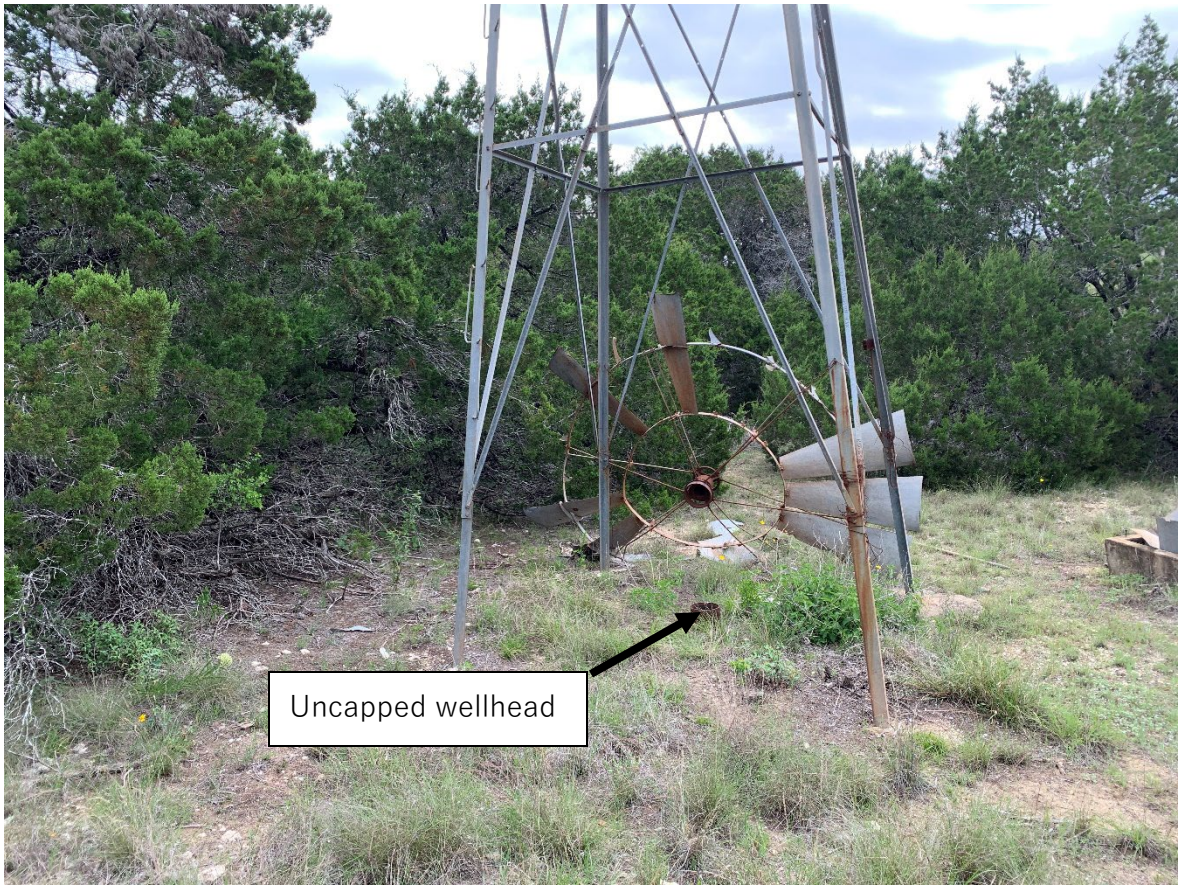
5. Preliminary trenching for septic system

6. Watershed basin one east boundary of Phase 1

7. Watershed channel on Phase 2 section - view to the southeast

8. Manmade pond on northwest corner of Phase 2

9. Vegetative filter strip between Phase I and 2



10. Windmill with uncapped steel cased well below

POTENTIAL JURISDICTIONAL WATERS DETERMINATION

HAWK RIDGE PHASE 2

RESIDENTIAL DEVELOPMENT

AUSTIN, TRAVIS COUNTY, TEXAS

Whitenton Group, Inc. (WGI) was contracted to conduct a potential jurisdictional waters determination for the Hawk Ridge Phase 2 residential development (~84 acres) in Austin, Travis County, Texas (Figure 1). Based on a desktop/online review, two features were identified as potential aquatic resources. These features are located on the western portion of the property and include a drainage that conveys stormwater runoff from north to south and a pond on the west side of this drainage at the northern extent. These features are identified on both the National Wetlands Inventory (NWI) maps and the National Hydrography Dataset (NHD), as shown in Figure 2.

An on-site potential jurisdictional waters determination was conducted on 26 June 2025 by a Senior Professional Wetland Scientist (SPWS) with 25 years of experience in U.S. Army Corps of Engineers (USACE) permitting and familiarity with the Central Texas region. The site visit focused on the western portion of the property where the features had been identified during the desktop review. The purpose of the site visit was to assess and verify field conditions relative to the desktop review, in order to determine whether either of these features would be considered Waters of the U.S., as defined in the Federal Register.

The SPWS walked the entire length of the NHD blue line (as identified during the desktop review) and also assessed the pond feature. The pond is man-made and isolated, with no connection to the drainage feature. The drainage feature does not possess a continuous Ordinary High Water Mark (OHWM), or does it have a discernible channel with a defined bed and bank. No water was present in the drainage at the time of the survey, and there were no signs of intermittent or perennial ponding or flow. This drainage is ephemeral and only conveys water during or immediately after rainfall events. It is considered a non-relatively permanent waterbody (NRPW). According to USACE guidance, in order for a drainage feature or stream to be regulated under the Clean Water Act by the USACE, it must possess an OHWM and be considered a *relatively permanent waterbody* (RPW). The Environmental Protection Agency (EPA) website provides a detailed description and definitions of Waters of the US.

Although aquatic features are identified on desktop/online resources, the on-site potential jurisdictional determination results are negative. The results of the on-site jurisdictional determination are negative. There are no features in this area that would qualify as Waters of the U.S. Therefore, no authorization or permitting from the USACE is required for development activities.

Respectfully,

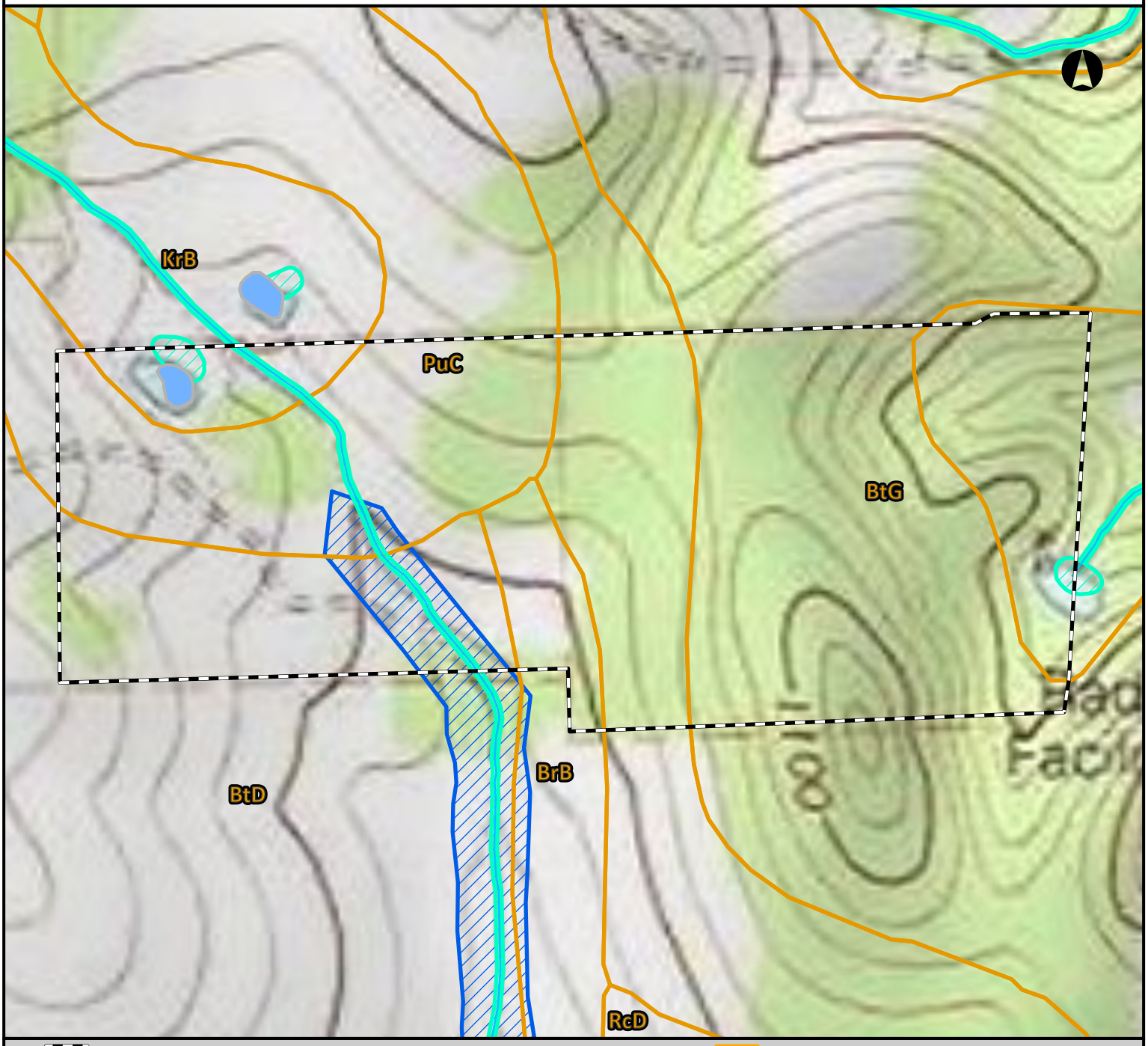
Scott W. Jecker SPWS

Potential Jurisdictional Waters Determination
Aerial Imagery
Hawk Ridge Phase 2
Hays County, Texas

Survey Area (84.7 Acres)

Background Resources: ESRI Aerial Imagery	Surveyor(s): Scott Jecker PWS	Project Number and Information: 250091 Potential Jurisdictional Waters Determination Hawk Ridge Phase 2 Capitol Environmental	WHITENTON group environmental consultants 3413 Hunter Road San Marcos Texas 78666
GPS and Coordinate System: Emlid Reach RX UTM NAD 1983 Zone 14 North	Map Created: 07/07/2025 by L. Smith		Feet 0 500 1,000

Potential Jurisdictional Waters Determination
Topographic Map
Hawk Ridge Phase 2
Hays County, Texas



Survey Area (84.7 Acres)

FEMA Flood Zone

NHD Lake/Pond

NHD Stream/River

NWI Polygon

Soil Map Unit Boundary

BrB - Bolar clay loam
BtD - Brackett-Rock outcrop-Comfort complex
BtG - Brackett-Rock outcrop-Real complex
KrB - Krum clay
PuC - Purves clay

Background Resources: ESRI Aerial Imagery	Surveyor(s): Scott Jecker PWS	Project Number and Information: 250091 Potential Jurisdictional Waters Determination Hawk Ridge Phase 2 Capitol Environmental	WHITENTON group environmental consultants 3413 Hunter Road San Marcos Texas 78666
GPS and Coordinate System: Emlid Reach RX UTM NAD 1983 Zone 14 North	Map Created: 07/07/2025 by L. Smith		Feet 0 500 1,000

WATER QUALITY PLANS FOR:

HAWK RIDGE SUBDIVISION

PHASE -1&2

RELATED CASES:
- FINAL PLAT PHASE -1 DOC# 21072200
- FINAL PLAT PHASE -2 DOC# 23041787
- FINAL PLAT RESUBDIVID - LOT 11, 18, 27 DCO# 23006415

ZONING:
- N/A

LEGAL DESCRIPTION:
- HAWK RIDGE PHASE -1

WATERSHED:
- BEAR CREEK

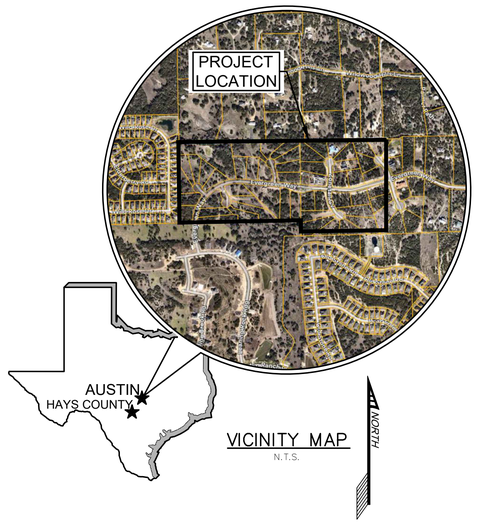
CURRENT USE:
- VACANT LAND

PROPOSED USE:
- SINGLE FAMILY HOME SITES

100-YR FLOOD PLAIN:
- ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOOD PLAIN, AS SHOWN ON THE FEMA FIRM MAP 48209C01406, DATED JANUARY 17, 2025

PROJECT SCOPE:

CONSTRUCT 6 WATER QUALITY PONDS THAT SUPPORT THE SUBDIVISION INFRASTRUCTURE PLANS OF HAWK RIDGE SUBDIVISION PHASE 1 AND PHASE 2.



NOTES:

1. THESE ENGINEERING PLANS ARE COMPLETE AND THE TECHNICAL DATA CONTAINED WITHIN IS ACCURATE AND IN ACCORDANCE WITH HAYS CO., TCEQ, AND WTCPUA CODE TO THE BEST OF OUR KNOWLEDGE.
2. ALL NECESSARY INSPECTIONS AND/OR UTILITY SERVICE CONNECTIONS SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF WATER SERVICES.
3. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE HAYS CO., TCEQ, AND WTCPUA MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
4. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE 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 HAYS CO., TCEQ, AND WTCPUA.
5. ALL DISTURBED AREAS OF THIS PROJECT SHALL BE RE-VEGETATED AND ALL PERMANENT EROSION AND SEDIMENTATION CONTROLS COMPLETED PRIOR TO THE ISSUANCE OF OCCUPANCY PERMITS.
6. ANY AREA WITHIN THE LIMITS OF CONSTRUCTION OF THE PROJECT WHICH IS NOT ADEQUATELY REVEGETATED SHALL BE BROUGHT INTO COMPLIANCE PRIOR TO THE RELEASE OF THE FINAL ACCEPTANCE.
7. THIS SITE DOES LIES OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE.
8. RETAINING WALL OVER FOUR FEET IN HEIGHT, MEASURE FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL SHALL BE ENGINEERED AND WILL REQUIRE A SEPARATE PERMIT . UNIFORM BUILDING CODE 106.2.5.

Sheet List Table

Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	PLAT –1
4	PLAT – 2
5	EROSION CONTROL PLAN
6	OVERALL DRAIANGE PLAN
7	TSS REMOVAL CALC – ALL PONDS
8	POND – 1
9	POND – 2
10	POND – 3
11	POND – 4
12	POND – 5
13	POND – 6
14	DETAIL – 1
15	DETAIL – 2
16	DETAIL – 3
17	DETAIL – 4
18	DETAIL – 5

SUBMITTED TO: TCEQ: AUGUST 28, 2025

OWNER:	CATHARINE STEVEN VENTURES, LLC 801 PALO CLUB DR. AUSTIN, TX. 78737
CONTACT:	KIRBY WALLS
CIVIL ENGINEERING:	TDi ENGINEERING, LLC 5906 OLD FREDERICKSBURG ROAD, STE. 300 AUSTIN, TX. 78746 PH: (512)301-3389
CONTACT:	F.P.(TRES) HOWLAND III, P.E.

REVISIONS / CORRECTIONS:

NUMBER	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET #'S	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMPERVIOUS COVER (SF)	TOTAL SITE IMPERVIOUS COVER (SF / %)	CITY OF AUSTIN APPROVAL DATE	DATE IMAGED

CIVIL & STRUCTURAL ENGINEERING
AUSTIN / HOUSTON

TDI Engineering, LLC
5906 Old Fredericksburg Road, Suite 300
Austin, TX 78749
512-301-3389 | www.tdi-llc.net

*THINK DESIGN innovate, integrate, implement...

TDi ENGINEERING

08/29/25

STATE OF TEXAS
F.P. HOWLAND III
90451
REGISTERED PROFESSIONAL ENGINEER

FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

COVER SHEET

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 1

1 OF 18

Drawing: \\WG01fs\tdi-llc\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALAN2
Last Modified: Aug 29, 25 - 14:54
Plot Date/Time: Aug 29, 25 - 14:55:32

WTCPUA WATER & WASTEWATER GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE STATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (0.S.H.A.).COPIES OF O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. AUSTIN AREAOFFICE - LA COSTA GREEN BLDG 1033, LA POSADA DR, SUITE 375, AUSTIN, TEXAS 78752-3832, 512-374-0271.
2. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND TO THE STATE LAW, (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436 ©) AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES WHEN OPERATING IN THE VICINITY OF ELECTRICAL LINES. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY REQUIREMENTS, AND FOR COORDINATION OF ALL WORK WITH THE APPROPRIATE ELECTRIC UTILITY COMPANY.
3. THE CONTRACTOR SHALL CONTACT THE ONE-CALL BOARD OF TEXAS AT 811 OR 1-800-545-6005 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. THE LOCATION AND TYPE OF UTILITIES AND UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. IN ADDITIONAL TO NORMAL PRECAUTIONS WHEN EXCAVATING, USE EXTRA CAUTION WHEN EXCAVATING WITHIN 25 FEET OF ANY UTILITIES SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THE PROJECT. THIS INCLUDES ALL WATER, WASTEWATER,GAS, ELECTRICAL, TELEPHONE, CABLE TELEVISION, AND STREET AND DRAINAGE WORK. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND WTCPUA INSPECTOR WITHIN TWENTY-FOUR (24) HOURS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL SPOIL MATERIAL FROM THE CONSTRUCTION SITE. ALL SPOILS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL SITE.THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE. THE CONTRACTOR SHALL NOTIFY THE WTCPUA INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF THE MATERIAL. NO SPOILS ARE TO REMAIN OVERNIGHT IN THE FLOODPLAIN.
6. NO BLASTING OR BURNING WILL BE ALLOWED.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, AT HIS EXPENSE, ALL UTILITIES, PAVEMENT,CURB, FENCES OR ANY OTHER ITEMS DAMAGED DURING CONSTRUCTION REGARDLESS OF WHETHER THESE ITEMS ARE SHOWN ON THE CONSTRUCTION PLANS.
8. WHENEVER EXISTING UTILITIES, INDICATED OR NOT ON PLANS, PRESENT OBSTRUCTIONS TO GRADE AND/OR ALIGNMENT OF PROPOSED PIPE, CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER WHO WILL DETERMINE IF EXISTING IMPROVEMENTS ARE TO BE RELOCATED OR IF THE GRADE AND/OR ALIGNMENT OF PROPOSED PIPE IS TO BE CHANGED.
9. DUST PREVENTION SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE. DUST CONTROL SHALL INCLUDE SPRAYING OF WATER ON ALL DISTURBED AREAS, SPOIL PILES, OR HAUL MATERIALS ASSOCIATED WITH THE PROJECT OR OTHER METHODS APPROVED BY THE WTCPUA.
10. CLEANUP - UPON COMPLETION AND BEFORE MAKING APPLICATION FOR ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL CLEAN ALL STREETS AND ALL GROUND OCCUPIED BY HIM IN CONNECTION WITH THE WORK OF ALL RUBBISH, EXCESS MATERIALS, EXCESS EXCAVATED MATERIALS, TEMPORARY STRUCTURES AND EQUIPMENT. ALL PARTS OF THE WORK SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION SATISFACTORY TO THE WTCPUA AND OTHER GOVERNMENTAL BODIES HAVING JURISDICTION PRIOR TO SUBMITTAL OF THE FINAL PAYMENT.
11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO MINIMIZE DISRUPTION OF DELIVERIES, PARKING, AND OTHER ACTIVITIES.
12. DEWATERING, IF NECESSARY, SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT CONSTITUTE A BASIS FOR ADDITIONAL PAYMENT.
13. THE MINIMUM DEPTH OF COVER FROM TOP OF PIPE TO FINISHED GRADE FOR ALL WATER LINES SHALL BE FOUR FEET. INSTALL LINES TO AVOID HIGH POINTS.
14. CONCRETE SHALL BE CLASS 'A' WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS OTHERWISE NOTED. '
15. REINFORCING STEEL SHALL BE ASTM A 615M, GRADE 60 UNLESS OTHERWISE NOTED.
16. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE WTCPUA MUST RELY ON THE ADEQUACY OF THE DESIGN ENGINEER. APPROVAL OF THESE PLANS BY THE WTCPUA DOES NOT RELEASE THE DESIGN ENGINEER OF THESE RESPONSIBILITIES.
17. CHANGES IN ALIGNMENT OF WATER LINES, BOTH HORIZONTAL AND VERTICAL, SHALL BE ACHIEVED BY DEFLECTION JOINTS OR BY USE OF FITTINGS. DEFLECTION OF PIPE JOINTS AT FITTINGS IS ONLY ALLOWED ON DUCTILE IRON PIPE. LONGITUDINAL BENDING OF PIPE IS NOT ALLOWED. DEFLECTION OF STRAIGHT PIPE SECTIONS SHALL NOT EXCEED 1 DEGREE AT EACH JOINT (EVEN IF JOINT RESTRAINT DEVICES ARE INSTALLED).
18. A PRESSURE REDUCING VALVE SHALL BE REQUIRED IF THE PRESSURE EXCEEDS 65 PSI ON THE CUSTOMER SIDE AT THE CONNECTION TO THE PUA'S WATER SYSTEM.

WEST TRAVIS COUNTY PUA WATER AND WASTEWATER UTILITY NOTES

1. WEST TRAVIS COUNTY PUA IS THE WATER AND / OR WASTEWATER SERVICE PROVIDER FOR THIS PROJECT. A PRE-CONSTRUCTION MEETING WITH THE WTCPUA SHALL BE HELD PRIOR TO COMMENCEMENT OF CONSTRUCTION TO SCHEDULE INSPECTION OF INSTALLATION OF WATER/WASTEWATER FACILITIES. WATER FACILITIES WILL BE INSPECTED UP TO, AND INCLUDING, THE WATER METER AND/OR FIRE HYDRANTS. THE CONTACT NUMBER FOR WTCPUA IS (512) 263- 0100.
2. THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND STANDARD DETAILS CURRENT AT THE TIME OF CONSTRUCTION SHALL GOVERN MATERIALS AND METHODS USED TO PERFORM THIS WORK. CITY OF AUSTIN SPECIFICATIONS AND STANDARD DETAILS ARE AVAILABLE ATHTTPS://LIBRARY.MUNICODE.COM/TX/AUSTIN/CODES/
3. CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS, INCLUDING BUT NOT LIMITED TO STREET/DRIVEWAY CUT AND UTILITY CUT PERMITS FROM THE APPROPRIATE GOVERNMENTAL AGENCY BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
4. THE WTCPUA SHALL BE CONTACTED AT (512) 263-0100 AT LEAST 48 HOURS BEFORE CONNECTING TO THEIR EXISTING WATER AND/OR WASTEWATER FACILITIES.
5. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 811 OR 1-800-545-6005 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. IN ADVANCE OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.
6. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND/OR WASTEWATER SERVICES.
7. WHERE WATER LINES AND SEWER LINE ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) (PIPE DESIGN) AND 30 TAC §290.44(E) (WATER DISTRIBUTION). ANY DEVIATION OF THESE STANDARDS SHALL REQUIRE A VARIANCE APPROVED BY TCEQ BEFORE SUBMITTING PIPING ASSIGNMENTS TO THE WTCPUA.
8. THE CITY OF AUSTIN SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE. CONTRACT DOCUMENTS, WHICH INCLUDE A TRENCH SAFETY PLAN SIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER AND A PAY ITEM FOR TRENCH SAFETY MEASURES, IN COMPLIANCE WITH OSHA, STATE, COUNTY, AND CITY REQUIREMENTS BEFORE BEGINNING WORK ON THE PROJECT.
9. ALL MATERIAL TESTS, INCLUDING SOIL DENSITY TESTS AND RELATED SOIL ANALYSIS, SHALL BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY FUNDED BY THE OWNER IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 1804S.4.
10. CONNECTIONS TO EXISTING WTCPUA WATER LINES SHALL BE MADE BY CUT-IN TEES IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(24). ISOLATION VALVES SHALL BE INSTALLED ON THE ENDS OF THE CUT-IN TEE, AS NECESSARY. A SHUT-OUT VALVE PLAN SHALL BE PROVIDED SHOWING THE LOCATION OF EXISTING GATE VALVES IN THE VICINITY OF THE CONNECTION. THE SHUT-OUT PLAN SHALL IDENTIFY ALL AFFECTED PROPERTY OWNERS. CONTRACTOR SHALL PERFORM ALL WORK AND SHALL FURNISH ALL MATERIALS, INCLUDING DRAINING AND CUTTING INTO EXISTING PIPING AND CONNECTING A NEW PIPELINE OR OTHER EXTENSION INTO THE EXISTING PRESSURE PIPING, FORMING AN ADDITION TO THE POTABLE WATER TRANSMISSION AND DISTRIBUTION NETWORK AND PERFORMING NECESSARY SHUTOFFS. CONTRACTOR SHALL SCHEDULE ALL SUCH CONNECTIONS IN ADVANCE AND SUCH SCHEDULE SHALL BE APPROVED BY THE WTCPUA BEFORE BEGINNING THE WORK. AT LEAST 48 HOURS NOTICE SHALL BE GIVEN TO THE WTCPUA PRIOR TO MAKING THE CONNECTION, AND A REPRESENTATIVE FROM THE WTCPUA SHALL BE PRESENT WHEN THE CONNECTION IS MADE. PRESSURE TAPS MAY BE APPROVED ON A CASE BY-CASE BASIS. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED. WHEN APPROVED, ANY TAPS SHALL BE MADE BY USE OF AND APPROVED FULL CIRCLE, GASKETED CAST IRON OR DUCTILE IRON TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES PRIOR TO MAKING THE PRESSURE TAP AND THE USE OF PRECAST BLOCKS MAY BE USED TO HOLD THE TAP IN ITS CORRECTION POSITION PRIOR TO BLOCKING. THE BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE REOPENED FOR SERVICE FROM THAT TAP. THE CONTRACTOR SHALL NOTIFY THE WTCPUA INSPECTOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE FOR THE WTCPUA TO NOTIFY THE AFFECTED CUSTOMERS. THE WTCPUA SHALL BE PRESENT WHILE ALL WORK IS PERFORMED TO MAKE THE CONNECTION.
11. THRUST RESTRAINT SHALL BE BY METAL THRUST RESTRAINTS IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(22).
12. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY OF STANDARD SPECIFICATION ITEM 51LS.3 E AND SHALL BE APPROVED FIRE DEPARTMENT OR OTHER APPROPRIATE PARTY PRIOR TO INSTALLATION. FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP WILL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND PLACED IN SERVICE. FIRE HYDRANTS THAT ARE TO BE USED AS DRAIN HYDRANTS SHALL BE PAINTED SILVER W/ BLUE CAPS PRIOR TO ACCEPTANCE. WHERE STORZ ADAPTORS ARE REQUIRED (HAYS COUNTY), FIRE HYDRANTS SHALL BE MANUFACTURED WITH INTEGRAL STORZ ADAPTORS.
13. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(29) AND/OR TCEQ RULES.
14. TEST PRESSURE FOR 2-HOUR TEST SHALL BE AT 175 PSI AT THE LOWEST POINT IN THE LINE.

NOTE: PRIOR TO PRESSURE TESTING, CONTRACTOR SHALL VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT BACK TO AND INCLUDING THE VALVE AGAINST WHICH THE PRESSURE TEST SHALL BE PERFORMED, HAS BEEN INSTALLED TO AT LEAST THE SPECIFICATIONS OF THIS PROJECT. FAILURE TO VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT IN THE EXISTING LINE MEETS OR EXCEEDS THE SPECIFICATIONS OF THIS PROJECT MAY RESULT IN SERIOUS DAMAGE TO THE EXISTING WATERLINE.

15. WATER LINES SHALL BE FILLED WITH WATER AND ALL AIR EXPELLED AT LEAST 24 HOURS BEFORE TESTING. ALL SERVICE LATERALS AND DRAIN VALVE LEADS, WITH THE HYDRANT VALVES CLOSED AND NOZZLE CAPS OPEN SHALL BE INCLUDED IN THE TESTS.
16. CONTRACTOR SHALL SUBMIT A DISINFECTION AND FLUSHING PLAN IN ACCORDANCE WITH AWWA STANDARDS TO THE WTCPUA FOR APPROVAL. REQUIRED FLUSHING VOLUMES, FLUSHING SCHEDULE, AND METHOD OF DISPOSAL OF FLUSH WATER SHALL BE IN ACCORDANCE WITH THE APPROVED PLAN.
17. GATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMINGTO AWWAC509, WITH A MINIMUM RATED WORKING PRESSURE OF 250 PSIG.
18. FORCE MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(27) AND/OR TCEQ RULES.
19. GRAVITY SANITARY SEWER MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEMS 510.3(26) AND/OR TCEQ RULES. IN ADDITION, ALL GRAVITY SANITARY SEWER MAINS SHALL BE TELEVISED PRIOR TO ACCEPTANCE BY WTCPUA. DIGITAL FILES (VIA CD-ROM) CLEARLY SHOWING TELEVISED RECORDING SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOLLOWING INSPECTION.
20. LOCATOR 'FINDER' WIRE - ALL NON -METALLIC WATER LINES SHALL HAVE A FINDER WIRE LOCATED ABOVE THE PIPE. THE WIRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND will terminate at each isolation VALVE SUCH THATITIS ACCESSIBLE FROM THE VALVE BOX.
21. LOCATOR 'FINDER' WIRE - ALL NON-METALLIC WASTEWATER LINES SHALL HAVE A FINDER WIRE LOCATED ABOVE THE PIPE. THE WIRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND WILL TERMINATE AT READILY ACCESSIBLE LOCATIONS THROUGHOUT THE COLLECTION SYSTEM.
22. ALL VALVE RISERS SHALL HAVE A 1'-6" SQUARE CONCRETE BOX POURED AROUND THEM AT FINISHED GRADE.
23. ALL MANHOLES SHALL BE LINED WITH A CORROSION RESISTANT LINING APPROVED BY THE WTCPUA.
24. BOLTED AND GASKETED COVERS SHALL BE USED FOR ALL MANHOLES LOCATED IN THE 100-YEAR FLOODPLAIN. WHERE THERE ARE MORE THAN THREE GASKETED MANHOLES IN A ROW, VENTS SHALL BE PROVIDED ON EVERY THIRD MANHOLE.
25. THE DOWNSTREAM END OF ANY FORCE MAIN SHALL BE TERMINATED IN A SANITARY SEWER MANHOLE IN A MANNER TO MINIMIZE TURBULENCE.
26. CONTRACTOR SHALL HAVE NECESSARY EROSION AND SEDIMENTATION CONTROLS IN PLACE PRIOR TO COMMENCING WATER/WASTEWATER FACILITY CONSTRUCTION.
27. RECORD DRAWINGS, AS STIPULATED BY THE WTCPUA, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR VERIFICATION AND FURNISHED TO THE WTCPUA UPON COMPLETION OF THE PROJECT.
28. THE WTCPUA WILL OWN AND OPERATE ALL WATER LINES AND APPURTENANCES UP TO AND INCLUDING THE WATER METER. THESE IMPROVEMENTS WILL BE DEFINED BY A RECORDED EASEMENT OR IN PUBLIC RIGHT-OF-WAY.
29. ANY PORTIONS OF WASTEWATER LINES INCLUDING SERVICES THAT ARE LOCATED OUTSIDE OF A RECORDED EASEMENT OR PUBLIC RIGHT-OF-WAY WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER, OR HIS/HER ASSIGNS.
30. WHERE EXISTING WATER AND/OR WASTEWATER INFRASTRUCTURE IS TO BE ABANDONED, THE ENGINEER SHALL SUBMIT AN ABANDONMENT PLAN FOR APPROVAL BY THE WTCPUA.
31. WATER SERVICES SHALL BE INSTALLED USING HDPE PIPE. COPPER IS NOT ALLOWED.
32. FOR ANY STORM SEWER LINE CROSSING A WATER OR WASTEWATER LINE CLOSER THAN 18", THE STORM SEWER PIPE SHALL BE LAID SUCH THAT NO STORM SEWER JOINTS WILL BE OVER THE WATER PIPE CROSSING

SPOILS MANAGEMENT AND DISPOSAL NOTES

1. TEMPORARY HOLDING SITES AS NECESSARY TO STOCKPILE EXCAVATED SOILS, EMBEDMENT MATERIAL,AND/OR PIPING AND APPURTENANCES MAY BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION AS SHOW NON THE PLANS.
2. NO PERMANENT SPOILS DISPOSAL SHALL BE ALLOWED ON-SITE, UNLESS APPROVED BY THE OWNER AND GOVERNING AUTHORITY.
3. ALL SPOILS MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL DISPOSAL SITE.THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE; AND SHALL NOTIFY THE OWNER AND/OR ENGINEER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF ANY SPOIL MATERIAL.

EROSION/SEDIMENTATION CONTROL NOTES:

REFER TO SHEET 5 FOR EROSION / SEDIMENTATION CONTROL NOTES.

HOURS OF CONSTRUCTION - (WTCPUA RELATED ITEMS)

1. NO WORK SHALL BE DONE BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M; NOR ON SUNDAYS OR LEGAL HOLIDAYS WITHOUT THE WRITTEN PERMISSION OF THE WTCPUA IN EACH CASE, EXCEPT SUCH WORK AS MAYBE NECESSARY FOR THE PROPER CARE, MAINTENANCE AND PROTECTION OF THE WORK ALREADY DONE OR IN THE CASE OF AN EMERGENCY.

LIMITS OF CONSTRUCTION

1. THE LIMITS OF CONSTRUCTION SHALL BE BOUNDED BY THE RIGHT OF WAY LINE OR PERMANENT /TEMPORARY CASEMENT LIMITS SHOWN ON THE PLANS. LIMITS OF CONSTRUCTION MAY BE FURTHER RESTRICTED BY PLACEMENT OF SILT FENCE, TREE PROTECTION FENCING, OR OTHER APPURTENANCES AS SHOWN ON THE PLANS.
2. LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED BY THE CONTRACTOR BY INSTALLING SILT FENCE,ORANGE TENSAR FENCING (4 - FOOT ROLL TIED TO 6-FOOT POSTS SET AT 10-FOOT INTERVALS) OR OTHER BARRIERS AS APPROVED BY THE ENGINEER. ALL TEMPORARY BARRIERS SHALL BE REMOVED AT THE END OF THE PROJECT.
3. ANY AREAS OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY THE CONTRACTOR SHALL IMMEDIATELY BE RESTORED TO PRE CONSTRUCTION CONDITION.

SANITARY FACILITIES

1. PROVISIONS SHALL BE MADE FOR NECESSARY SANITARY CONVENIENCES FOR THE USE OF LABORERS ON THE WORK. THE FACILITIES MUST BE PROPERLY SECLUDED FROM PUBLIC OBSERVATION AND SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.

PROTECTION OF BORE PITS

1. INSTALL BARRIER FENCING (TENSAR ORANGE FENCING OR CHAIN LINK FENCING) TO SURROUND THE BORE PITS.BARRIER FENCING SHALL REMAIN IN PLACE AT ALL TIMES WHILE THE BORE PIT IS OPEN. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY AND SAFETY AT THE BORE PITS.

HORIZONTAL CONTROLS

1. ALL LINEWORK SHALL BE STAKED PRIOR TO CONSTRUCTION WITH SEALED CUT SHEETS PROVIDED TO THE WTCPUA INSPECTOR PRIOR TO CONSTRUCTION.

CONSTRUCTION SEQUENCING

1. 48 HOURS PRIOR TO BEGINNING ANY WORK, CALL THE ONE-CALL BOARD OF TEXAS AT 811 OR 1-800-545-6005FOR UTILITY LOCATIONS AND OBTAIN STREET CUT PERMIT FOR ANY WORK WITHIN CITY, COUNTY, AND/OR STATE RIGHT-OF-WAY.
2. INSTALL TEMPORARY EROSION CONTROLS AND TREE/NATURAL AREA PROTECTION FENCING PRIOR TO PRE-CONSTRUCTION MEETING AND PRIOR TO ANY SITE CLEARING, GRUBBING, EXCAVATION, MATERIAL STOCKPILING, OR OTHER CONSTRUCTION OPERATIONS.
3. SCHEDULE AND CONVENE A PRE CONSTRUCTION MEETING INCLUDING BUT NOT LIMITED TO THE OWNER'S REPRESENTATIVE, ENGINEER, WTCPUA REPRESENTATIVE, FIRE DEPARTMENT, CITY, COUNTY, TXDOT REPRESENTATIVE, AND TCEQ REPRESENTATIVE, AS APPLICABLE.
4. INSTALL TRAFFIC CONTROL MEASURES.
5. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO INITIATING CONSTRUCTION.
6. ROUGH CUT WATER QUALITY PONDS AND DIRECT RUNOFF TO PONDS TO ACT AS A SEDIMENT TRAP.
7. REMOVE AND STOCKPILE TOPSOIL IN AREAS AS REQUIRED.
8. ROUGH CUT ROADS/SITE, AS NECESSARY.
9. INSTALL ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE WTCPUA WHEN SWITCHING SERVICE TO THE WTCPUA SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS/FACILITIES TO ENSURE SERVICE IS MAINTAINED DURING SWITCHOVER.
10. COMPLETE ALL UNDERGROUND INSTALLATIONS, INCLUDING INSTALLATION OF SLEEVES.
11. COMPLETE SUBGRADE.
12. COMPLETE 1ST COURSE BASE.
13. COMPLETE FINAL COURSE BASE.
14. LAY PAVEMENT AND/OR COMPLETE ANY PAVEMENT REPAIR.
15. COMPLETE WATER QUALITY PONDS.
16. COMPLETE PERMANENT EROSION CONTROL AND SITE RESTORATION.
17. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
18. COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED BY CONSTRUCTION OPERATIONS.

TRAFFIC CONTROL NOTES

1. PLANS SHALL INDICATE RESPONSIBLE AGENT FOR TRAFFIC CONTROL (ENGINEER OR CONTRACTOR).
2. CONTRACTOR SHALL MAINTAIN REASONABLE LOCAL VEHICULAR TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS.
3. CONTRACTOR SHALL PROVIDE SIGNS, BARRICADES, FLAGGERS, AND OTHER MEASURES AS REQUIRED TO ALLOW FOR VEHICULAR AND PEDESTRIAN TRAFFIC TO PROCEED SAFELY WITH MINIMUM INCONVENIENCE.
4. SIGNS, BARRICADES, FLAGGERS, AND RELATED WORK SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WITH THE REQUIREMENTS OF THE GOVERNING CITY/COUNTY.
5. FOR ANY ACTIVITY WITHIN TXDOT RIGHT-OF-WAY, PROJECT MUST HA', E A TXDOT PERMIT. A COPY OF THE TXDOT PERMIT SHALL BE PROVIDED TO THE WTCPUA PRIOR TO CONSTRUCTION.

TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. AT A MINIMUM, CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS."
2. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI [§290.44(A)(1)].
3. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL(NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSIONRATIO OF 26 OR LESS [§290.44(A)(2)].
4. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY [§290.44(A)(3)].
5. ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALL BE PERPENDICULAR [§290.44(E)(4)(B)].
6. WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE [§290.44(A)(4)].
7. THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES IS0.25 PERCENT [§290.44(B)].
8. THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES WITH VENT OPENINGS TO THE ATMOSPHERE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT [§290.44(D)(1)].
9. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION [§290.44(F)(1)].
10. WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI-PERMANENT BODY OF WATER THE WATERLINE SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED [§290.44(F)(2)].
11. PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CURRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE THE FORMULAS IN THE NOTES ON THE PLANS.

11.1. THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

$$Q = \frac{LD\sqrt{P}}{148,000}$$

WHERE:
Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).

11.2. THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THEAMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA)C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

$$L = \frac{SD\sqrt{P}}{148,000}$$

WHERE:
L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).

12. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET §290.44(E)(1)-(4).
13. THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT [§290.44(E)(5)].
14. FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION [§290.44(E)(6)].
15. SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER LATERALS,OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE [§290.44(E)(7)].
16. WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS [§290.44(E)(8)].
17. THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH AWWA STANDARD C-651-14 OR MOST RECENT, THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLE SSHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER [§290.44(F)(3)].
18. DE-CHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE WITH CURRENT AWWA STANDARD C655-09 OR MOST RECENT.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES - LEGAL DISCLAIMER

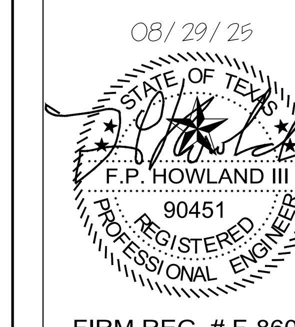
THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION.
FURTHER ACTIONS MAY 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
   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) 339-3795SAN 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.

CIVIL & STRUCTURAL ENGINEERING
AUSTIN / HOUSTON
TDI Engineering, LLC
5906 Old Fredericksburg Road, Suite 300
Austin, TX 78749
512–301–3389 | www.tdi–llc.net
*THINK DESIGN innovate, integrate, implement...
TDi* ENGINEERING



FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

GENERAL NOTES

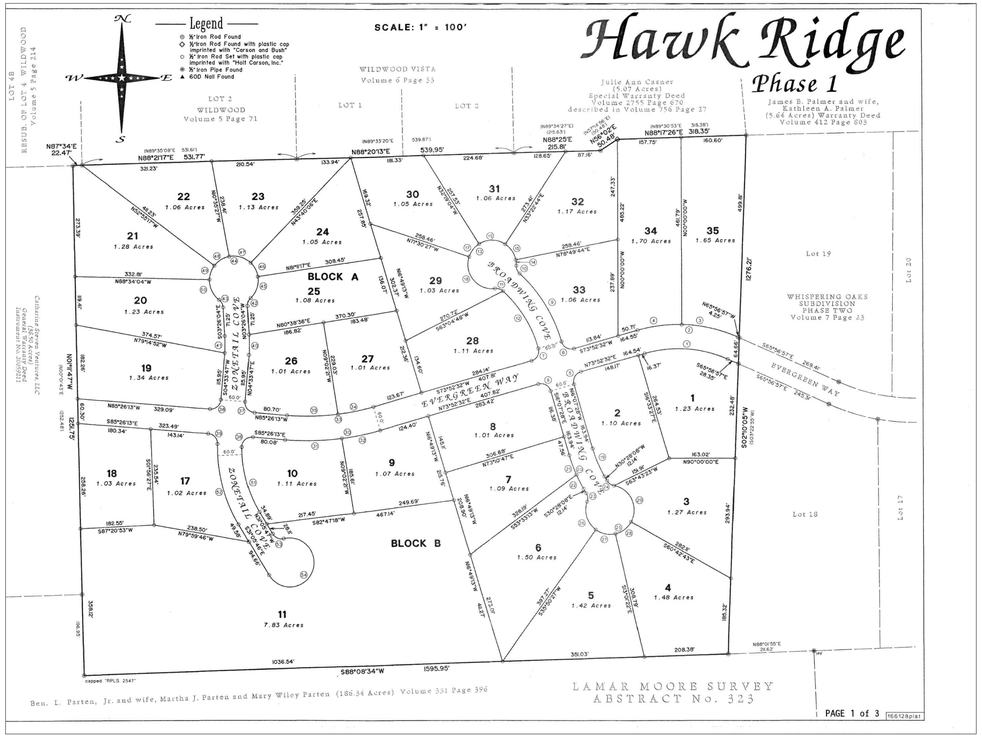
PROJECT # 1527-100

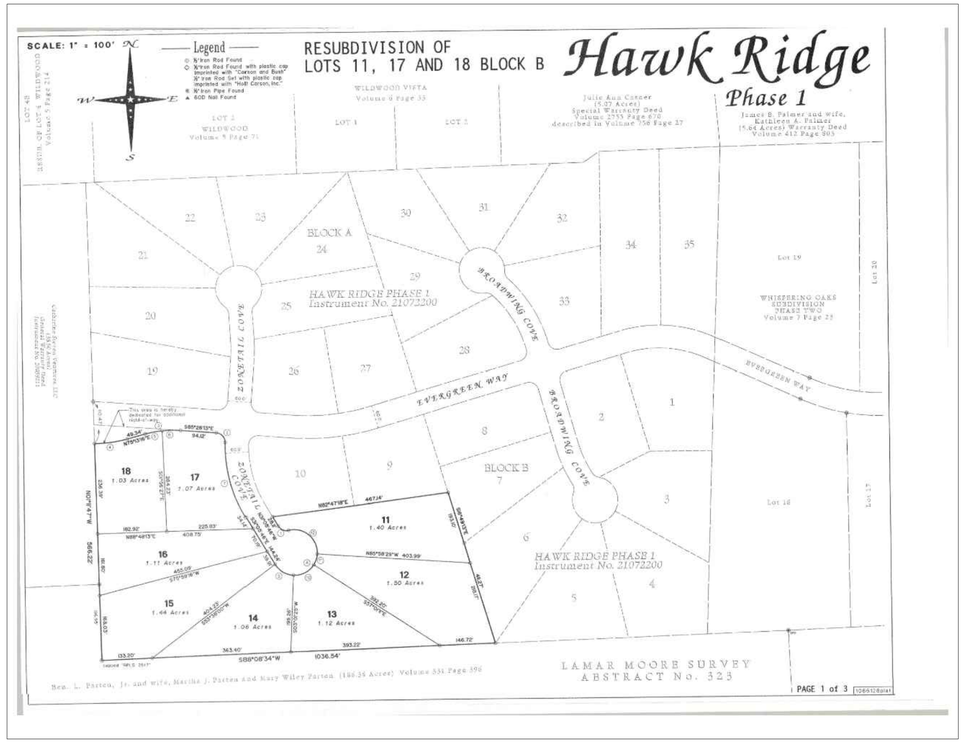
ISSUE DATE 8/29/2025

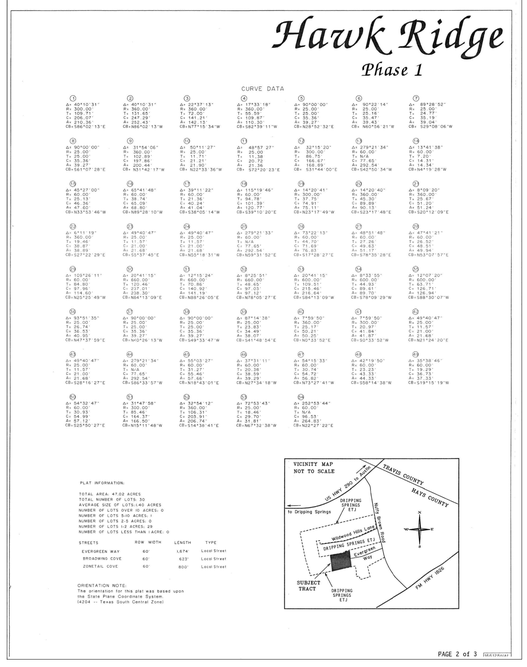
PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

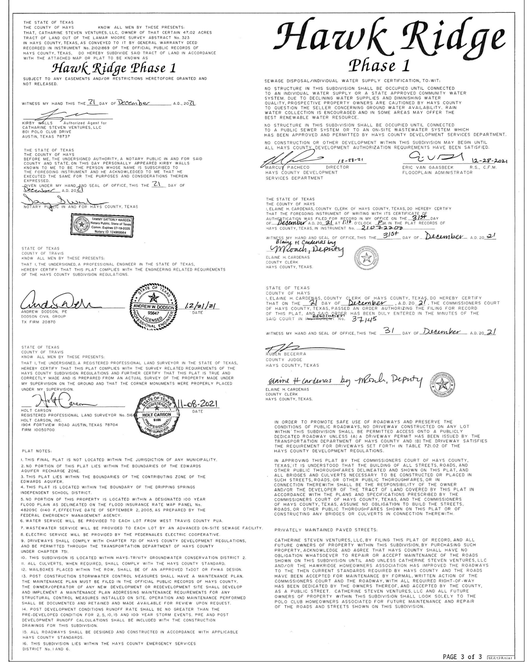
SHEET
2

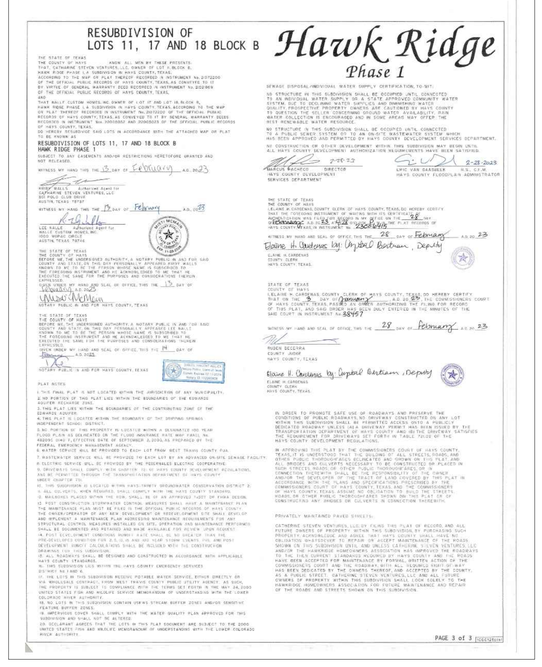
Drawing: \\W2019a\tdi-llc\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANIZ
Last Modified: Aug. 29, 25 - 14:54
Plot Date/Time: Aug. 29, 25 - 14:55:36

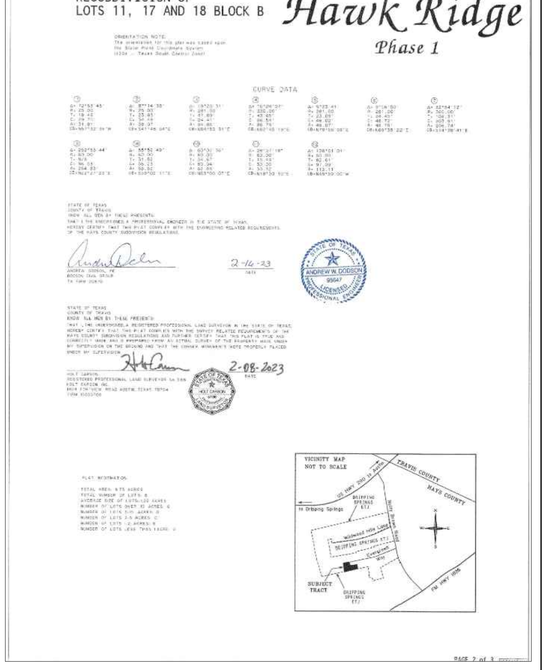












ORIGINAL PLAT PHASE - 1

AMENDED PLAT PHASE - 1

THIS DOCUMENT IS FOR REFERENCE ONLY AND IS NOT TO SCALE.

CIVIL & STRUCTURAL ENGINEERING
AUSTIN / HOUSTON

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5906 Old Fredericksburg Road, Suite 300
Austin, TX 78749
512-301-3389 | www.tdi-llc.net

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TDi ENGINEERING

08/29/25
STATE OF TEXAS
F.P. HOWLAND III
90451
REGISTERED PROFESSIONAL ENGINEER
FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

PLAT -1

PROJECT # 1527-100

ISSUE DATE 8/29/2025

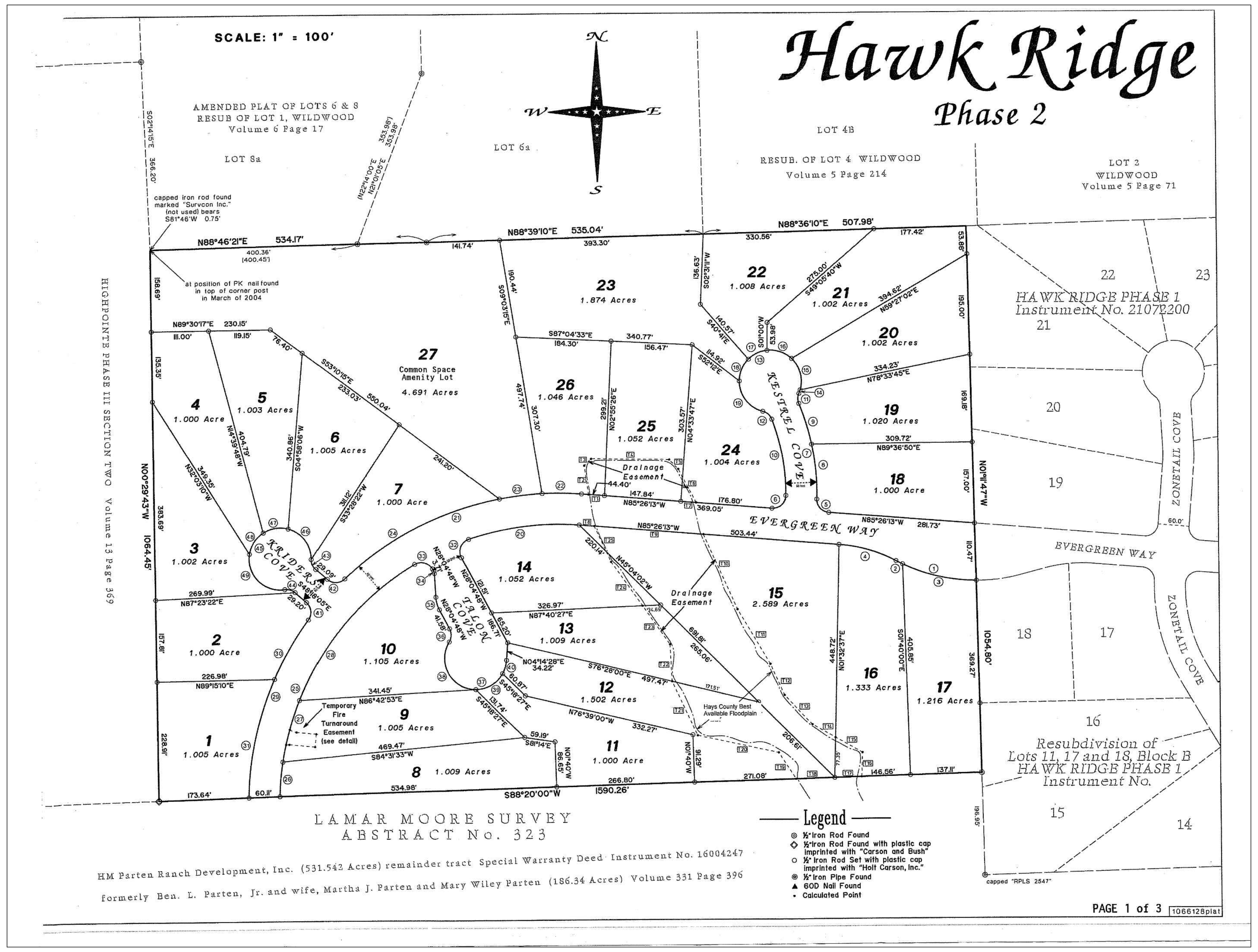
PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 3

3 OF 18

Drawing: \\WORKshare\pw-ix\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug. 29, 25 - 14:54
Last Plotted: Aug. 29, 25 - 14:55:41

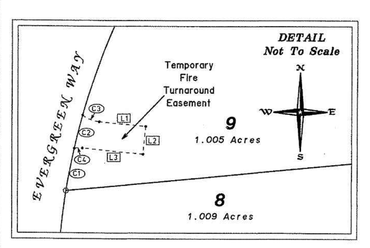
ORIGINAL PLAT PHASE - 2



Hawk Ridge
Phase 2

CURVE DATA

Curve	Δ	R	T	C	A	CB
1	27°48'31"	330.00'	81.69'	158.60'	160.17'	S75°48'21"E
2	2°27'19"	330.00'	7.07'	14.14'	14.14'	S63°07'45"E
3	25°21'12"	330.00'	74.23'	144.84'	146.02'	S77°02'01"E
4	23°32'08"	281.00'	58.54'	114.62'	115.43'	S73°40'09"E
5	87°21'54"	25.00'	23.88'	34.53'	38.12'	N41°45'16"W
6	93°25'47"	25.00'	26.54'	36.40'	40.77'	S47°50'53"W
7	24°10'16"	450.00'	96.35'	188.43'	189.84'	N10°09'27"W
8	13°40'06"	450.00'	53.93'	107.10'	107.35'	N4°54'22"W
9	10°30'10"	450.00'	41.36'	82.37'	82.49'	N16°59'30"W
10	22°12'08"	390.00'	76.52'	150.18'	151.13'	S9°58'05"E
11	45°38'51"	25.00'	10.52'	19.39'	19.92'	N0°34'51"E
12	54°35'37"	25.00'	12.90'	22.93'	23.82'	S48°21'57"E
13	279°04'02"	60.00'	N/A	77.88'	292.24'	S63°52'15"W
14	6°53'54"	60.00'	3.62'	7.22'	7.22'	N19°57'19"E
15	63°07'45"	60.00'	36.86'	62.81'	66.11'	N15°03'30"W
16	49°20'34"	60.00'	27.56'	50.09'	51.67'	N71°17'39"W
17	38°50'19"	60.00'	21.15'	39.90'	40.67'	S64°36'54"W
18	44°41'22"	60.00'	24.66'	45.62'	46.80'	S22°51'04"W
19	76°10'09"	60.00'	47.02'	74.02'	79.76'	S37°34'41"E
20	23°01'07"	540.00'	109.96'	215.49'	216.95'	N83°03'13"E
21	47°52'15"	600.00'	266.33'	486.85'	501.30'	S70°37'39"W
22	7°16'51"	600.00'	38.17'	76.19'	76.25'	N89°04'39"W
23	7°55'09"	600.00'	41.53'	82.86'	82.93'	S83°19'21"W
24	32°40'14"	600.00'	175.85'	337.51'	342.12'	S63°01'39"W
25	57°17'57"	540.00'	295.02'	517.81'	540.03'	N30°36'38"E
26	7°05'01"	540.00'	33.42'	66.72'	66.76'	N5°30'10"E
27	13°00'33"	540.00'	61.57'	122.35'	122.61'	N15°32'57"E
28	37°12'23"	540.00'	181.76'	344.53'	350.66'	N40°39'25"E
29	34°59'51"	600.00'	189.16'	360.82'	366.49'	S19°05'47"W
30	12°38'51"	600.00'	66.49'	132.17'	132.44'	S30°16'17"W
31	22°21'00"	600.00'	118.53'	232.57'	234.05'	S12°46'22"W
32	99°37'28"	25.00'	29.60'	38.20'	43.47'	N21°43'56"E
33	92°39'35"	25.00'	26.19'	36.17'	40.43'	S74°24'36"E
34	25°00'02"	11.00'	2.44'	4.76'	4.80'	N15°34'48"W
35	25°00'01"	58.00'	12.86'	25.11'	25.31'	S15°34'47"E
36	60°23'19"	25.00'	14.55'	25.15'	26.35'	S2°06'51"W
37	208°04'02"	60.00'	N/A	116.42'	217.89'	S71°43'30"E
38	122°16'50"	60.00'	108.87'	105.10'	128.05'	S28°49'54"E
39	60°18'21"	60.00'	34.85'	60.28'	63.15'	N59°52'30"E
40	25°28'51"	60.00'	13.57'	26.46'	26.68'	N16°58'54"E
41	84°53'48"	25.00'	22.87'	33.75'	37.04'	S5°51'12"E
42	85°00'22"	25.00'	22.91'	33.78'	37.09'	S89°11'43"W
43	49°40'47"	25.00'	11.57'	21.00'	21.68'	N23°27'42"W
44	49°40'47"	25.00'	11.57'	21.00'	21.68'	S73°08'29"E
45	279°21'34"	60.00'	N/A	77.65'	292.54'	S41°41'54"W
46	75°54'26"	60.00'	46.80'	73.80'	79.49'	N36°34'32"W
47	48°02'35"	60.00'	26.74'	48.85'	50.31'	S81°26'57"W
48	48°02'53"	60.00'	26.74'	48.85'	50.32'	S33°24'13"W
49	107°21'39"	60.00'	81.62'	96.69'	112.43'	S44°18'03"E



DRAINAGE EASEMENT NUMBERED COURSES

T1	N 85°26'13" W	30.90'
T2	N 07°53'24" W	56.29'
T3	N 45°00'21" E	18.63'
T4	S 89°09'57" E	150.78'
T5	S 43°16'13" E	25.63'
T6	S 27°47'05" E	73.09'
T7	N 85°26'13" W	29.78'
T8	S 85°26'13" E	29.02'
T9	S 85°26'13" E	211.49'
T10	S 24°02'46" E	158.99'
T11	S 30°43'39" E	122.74'
T12	S 24°12'38" E	65.59'
T13	S 43°17'16" E	77.65'
T14	S 60°32'54" E	51.05'
T15	S 60°32'54" E	59.47'
T16	S 02°16'08" W	46.61'
T17	S 88°20'00" W	52.04'
T18	S 88°20'00" W	74.58'
T19	N 33°07'01" W	60.67'
T20	N 77°55'17" W	159.98'
T21	N 25°11'18" W	114.85'
T22	N 02°35'25" W	71.25'
T23	N 35°05'40" W	91.03'
T24	N 35°05'40" W	104.37'
T25	N 24°59'34" W	76.33'

TURNAROUND EASEMENT NUMBERED COURSES

L1	S 84°20'52" E	38.08'
L2	S 05°39'08" W	25.00'
L3	N 84°20'51" W	49.61'

TURNAROUND EASEMENT CURVE DATA

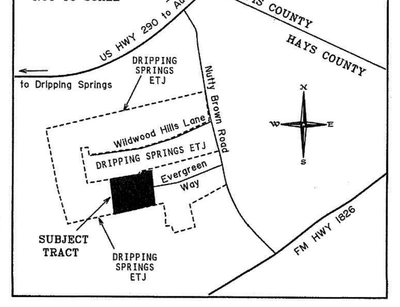
Curve	Δ	R	T	C	A	CB
C1	3°33'34"	540.00'	16.78'	33.54'	33.55'	N10°49'27"E
C2	2°55'03"	540.00'	13.75'	27.49'	27.50'	N14°20'50"E
C3	32°22'57"	25.50'	7.40'	14.22'	14.41'	S68°09'23"E
C4	15°01'06"	25.50'	3.36'	6.66'	6.68'	N88°08'34"E

PLAT INFORMATION:

TOTAL AREA: 38.50 ACRES
TOTAL NUMBER OF LOTS: 27
AVERAGE SIZE OF LOTS: 1.426 ACRES
NUMBER OF LOTS OVER 10 ACRES: 0
NUMBER OF LOTS 5-10 ACRES: 1
NUMBER OF LOTS 2-5 ACRES: 0
NUMBER OF LOTS 1-2 ACRES: 26
NUMBER OF LOTS LESS THAN 1 ACRE: 0

STREETS	ROW WIDTH	LENGTH	TYPE
EVERGREEN WAY	60'	1,687'	Local Street
KESTREL COVE	60'	260'	Local Street
TALON COVE	60'	257'	Local Street
KRIDERS COVE	60'	116'	Local Street

ORIENTATION NOTE:
The orientation for this plat was based upon the State Plane Coordinate System. (4204 -- Texas South Central Zone)



Hawk Ridge
Phase 2

THE STATE OF TEXAS
THE COUNTY OF HAYS KNOW ALL MEN BY THESE PRESENTS:
THAT, CATHARINE STEVEN VENTURES, LLC, OWNER OF THAT CERTAIN 38.50 ACRES TRACT OF LAND OUT OF THE LAMAR MOORE SURVEY ABSTRACT No. 323 IN HAYS COUNTY, TEXAS, AS CONVEYED TO IT BY GENERAL WARRANTY DEED RECORDED IN INSTRUMENT No. 20059211 OF THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS, DO HEREBY SUBDIVIDE SAID TRACT OF LAND IN ACCORDANCE WITH THE ATTACHED MAP OR PLAT TO BE KNOWN AS

Hawk Ridge Phase 2

SUBJECT TO ANY EASEMENTS AND/OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED.

WITNESS MY HAND THIS THE 25 DAY OF October A.D., 2023

KIRBY WALLS Authorized Agent for
CATHARINE STEVEN VENTURES, LLC
801 POLO CLUB DRIVE
AUSTIN, TEXAS 78737

THE STATE OF TEXAS
THE COUNTY OF HAYS
BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE, ON THIS DAY PERSONALLY APPEARED KIRBY WALLS KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND HE ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED.
GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE 25th DAY OF October A.D. 2023

NOTARY PUBLIC IN AND FOR HAYS COUNTY, TEXAS

KIM YADLOWSKY My Notary ID # 134156517 Expires January 20, 2027

STATE OF TEXAS
COUNTY OF TRAVIS
KNOW ALL MEN BY THESE PRESENTS:
THAT I, THE UNDERSIGNED, A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE ENGINEERING RELATED REQUIREMENTS OF THE HAYS COUNTY SUBDIVISION REGULATIONS.

10-27-23
DATE

ANDREW DODSON, PE
DODSON CIVIL GROUP
TX FIRM 20870

STATE OF TEXAS
COUNTY OF TRAVIS
KNOW ALL MEN BY THESE PRESENTS:
THAT I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE SURVEY RELATED REQUIREMENTS OF THE HAYS COUNTY SUBDIVISION REGULATIONS AND FURTHER CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE AND IS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND AND THAT THE CORNER MONUMENTS WERE PROPERLY PLACED UNDER MY SUPERVISION.

10-25-2023
DATE

HOLT CARSON
REGISTERED PROFESSIONAL LAND SURVEYOR No. 5166
HOLT CARSON, INC.
1904 FORTVIEW ROAD AUSTIN, TEXAS 78704
FIRM 10050700

PLAT NOTES:

1. THIS FINAL PLAT IS NOT LOCATED WITHIN THE JURISDICTION OF ANY MUNICIPALITY.
2. NO PORTION OF THIS PLAT LIES WITHIN THE BOUNDARIES OF THE EDWARDS AQUIFER RECHARGE ZONE.
3. THIS PLAT LIES WITHIN THE BOUNDARIES OF THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER.
4. THIS PLAT IS LOCATED WITHIN THE BOUNDARY OF THE DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT.
5. A PORTION OF THIS PROPERTY IS LOCATED WITHIN ZONE A (100 YEAR FLOOD PLAIN) AS DELINEATED ON THE FLOOD INSURANCE RATE MAP PANEL No. 48209C 0140 F, EFFECTIVE DATE OF SEPTEMBER 2, 2005, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
6. WATER SERVICE WILL BE PROVIDED TO EACH LOT FROM WEST TRAVIS COUNTY PUA.
7. WASTEWATER SERVICE WILL BE PROVIDED TO EACH LOT BY AN ADVANCED ON-SITE SEWAGE FACILITY.
8. ELECTRIC SERVICE WILL BE PROVIDED BY THE PEDERNALES ELECTRIC COOPERATIVE.
9. DRIVEWAYS SHALL COMPLY WITH CHAPTER 721 OF HAYS COUNTY DEVELOPMENT REGULATIONS, AND BE PERMITTED THROUGH THE TRANSPORTATION DEPARTMENT OF HAYS COUNTY UNDER CHAPTER 751.
10. THIS SUBDIVISION IS LOCATED WITHIN HAYS-TRINITY GROUNDWATER CONSERVATION DISTRICT 2.
11. ALL CULVERTS, WHEN REQUIRED, SHALL COMPLY WITH THE HAYS COUNTY STANDARD.
12. MAILBOXES PLACED WITHIN THE ROW, SHALL BE OF AN APPROVED TxDOT OR FHWA DESIGN.
13. POST CONSTRUCTION STORMWATER CONTROL MEASURES SHALL HAVE A MAINTENANCE PLAN. THE MAINTENANCE PLAN MUST BE FILED IN THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY. THE OWNER/OPERATOR OF ANY NEW DEVELOPMENT OR REDEVELOPMENT SITE SHALL DEVELOP AND IMPLEMENT A MAINTENANCE PLAN ADDRESSING MAINTENANCE REQUIREMENTS FOR ANY STRUCTURAL CONTROL MEASURES INSTALLED ON SITE. OPERATION AND MAINTENANCE PERFORMED SHALL BE DOCUMENTED AND RETAINED AND MADE AVAILABLE FOR REVIEW UPON REQUEST.
14. POST DEVELOPMENT CONDITIONS RUNOFF RATE SHALL BE NO GREATER THAN THE PRE-DEVELOPED CONDITION FOR 2, 5, 10, 15 AND 100 YEAR STORM EVENTS. PRE AND POST DEVELOPMENT RUNOFF CALCULATIONS SHALL BE INCLUDED WITH THE CONSTRUCTION DRAWINGS FOR THIS SUBDIVISION.
15. ALL ROADWAYS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE HAYS COUNTY STANDARDS.
16. THIS SUBDIVISION LIES WITHIN THE HAYS COUNTY EMERGENCY SERVICES DISTRICT No. 1 AND 6.

Hawk Ridge
Phase 2

SEWAGE DISPOSAL/INDIVIDUAL WATER SUPPLY CERTIFICATION, TO-WIT:

NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO AN INDIVIDUAL WATER SUPPLY OR A STATE APPROVED COMMUNITY WATER SYSTEM. DUE TO DECLINING WATER SUPPLIES AND DIMINISHING WATER QUALITY, PROSPECTIVE PROPERTY OWNERS ARE CAUTIONED BY HAYS COUNTY TO QUESTION THE SELLER CONCERNING GROUND WATER AVAILABILITY. RAIN WATER COLLECTION IS ENCOURAGED AND IN SOME AREAS MAY OFFER THE BEST RENEWABLE WATER RESOURCE.

NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A PUBLIC SEWER SYSTEM OR TO AN ON-SITE WASTEWATER SYSTEM WHICH HAS BEEN APPROVED AND PERMITTED BY HAYS COUNTY DEVELOPMENT SERVICES DEPARTMENT.

NO CONSTRUCTION OR OTHER DEVELOPMENT WITHIN THIS SUBDIVISION MAY BEGIN UNTIL ALL HAYS COUNTY DEVELOPMENT AUTHORIZATION REQUIREMENTS HAVE BEEN SATISFIED.

11-1-2023
MARCUS PACHECO DIRECTOR
HAYS COUNTY DEVELOPMENT SERVICES DEPARTMENT

11-6-2023
ERIC VAN GAASBEEK R.S., C.F.M.
HAYS COUNTY FLOODPLAIN ADMINISTRATOR

THE STATE OF TEXAS
THE COUNTY OF HAYS
I, ELAINE H. CARDENAS, COUNTY CLERK OF HAYS COUNTY, TEXAS, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT OF WRITING WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE ON THE 14 DAY OF November A.D. 2023, AT 1:55 O'CLOCK P.M. IN THE PLAT RECORDS OF HAYS COUNTY, TEXAS, IN INSTRUMENT No. 23041787

WITNESS MY HAND AND SEAL OF OFFICE, THIS THE 14 DAY OF November A.D. 2023.

ELAINE H. CARDENAS
COUNTY CLERK
HAYS COUNTY, TEXAS.

STATE OF TEXAS
COUNTY OF HAYS
I, ELAINE H. CARDENAS, COUNTY CLERK OF HAYS COUNTY, TEXAS, DO HEREBY CERTIFY THAT ON THE 31 DAY OF October, A.D. 2023, THE COMMISSIONERS COURT OF HAYS COUNTY, TEXAS, PASSED AN ORDER AUTHORIZING THE FILING FOR RECORD OF THIS PLAT, AND SAID ORDER HAS BEEN DULY ENTERED IN THE MINUTES OF THE SAID COURT IN INSTRUMENT No.

WITNESS MY HAND AND SEAL OF OFFICE, THIS THE 14 DAY OF November A.D. 2023.

RUBEN BECERRA
COUNTY JUDGE
HAYS COUNTY, TEXAS

ELAINE H. CARDENAS
COUNTY CLERK
HAYS COUNTY, TEXAS.

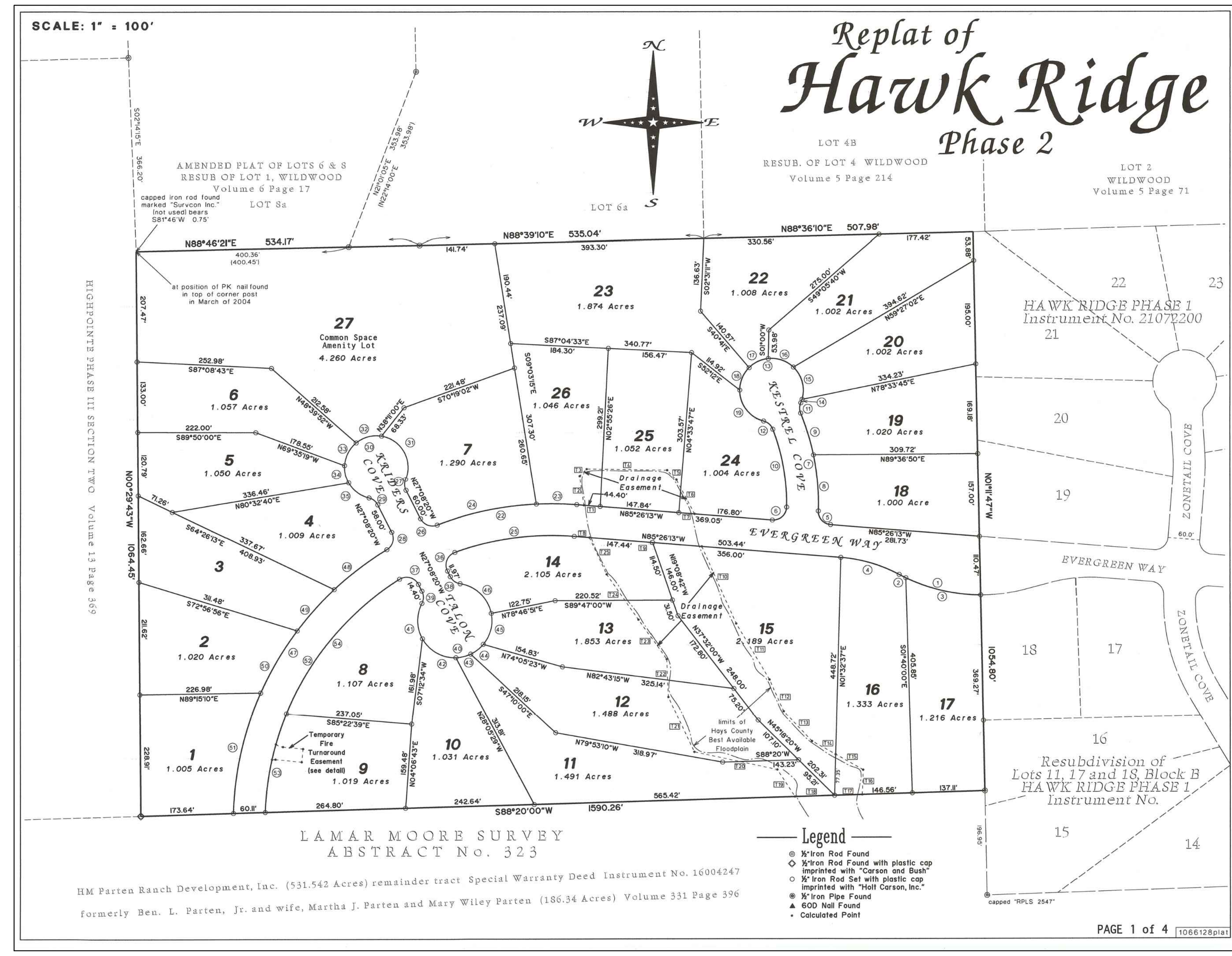
IN ORDER TO PROMOTE SAFE USE OF ROADWAYS AND PRESERVE THE CONDITIONS OF PUBLIC ROADWAYS, NO DRIVEWAY CONSTRUCTED ON ANY LOT WITHIN THIS SUBDIVISION SHALL BE PERMITTED ACCESS ONTO A PUBLICLY DEDICATED ROADWAY UNLESS (A) A DRIVEWAY PERMIT HAS BEEN ISSUED BY THE TRANSPORTATION DEPARTMENT OF HAYS COUNTY AND (B) THE DRIVEWAY SATISFIES THE REQUIREMENT FOR DRIVEWAYS SET FORTH IN TABLE 721.02 OF THE HAYS COUNTY DEVELOPMENT REGULATIONS.

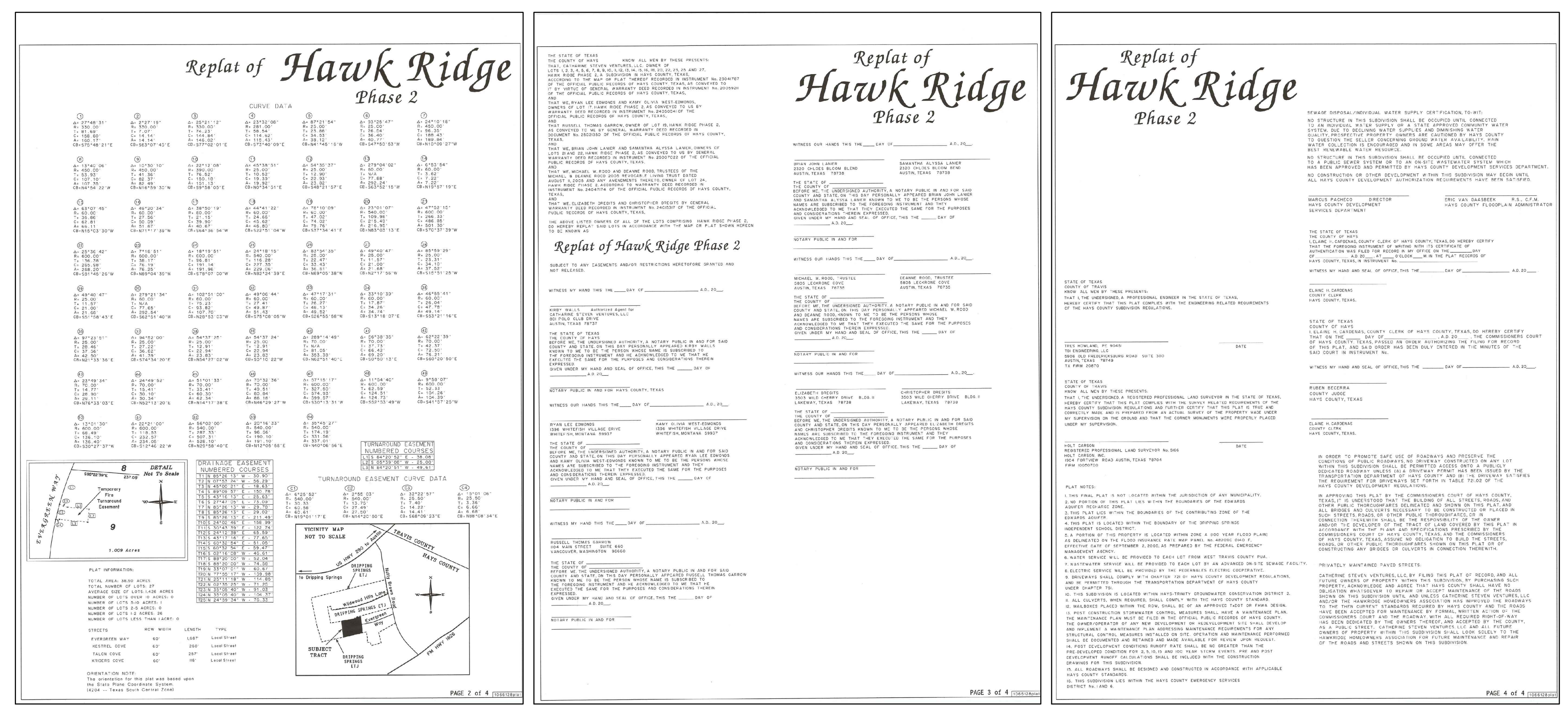
IN APPROVING THIS PLAT BY THE COMMISSIONERS COURT OF HAYS COUNTY, TEXAS, IT IS UNDERSTOOD THAT THE BUILDING OF ALL STREETS, ROADS, AND OTHER PUBLIC THOROUGHFARES DELINEATED AND SHOWN ON THIS PLAT, AND ALL BRIDGES AND CULVERTS NECESSARY TO BE CONSTRUCTED OR PLACED IN SUCH STREETS, ROADS, OR OTHER PUBLIC THOROUGHFARES, OR IN CONNECTION THEREWITH SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR THE DEVELOPER OF THE TRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PRESCRIBED BY THE COMMISSIONERS COURT OF HAYS COUNTY, TEXAS, AND THE COMMISSIONERS OF HAYS COUNTY, TEXAS, ASSUME NO OBLIGATION TO BUILD THE STREETS, ROADS, OR OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT OR OF CONSTRUCTING ANY BRIDGES OR CULVERTS IN CONNECTION THEREWITH.

PRIVATELY MAINTAINED PAVED STREETS:

CATHERINE STEVEN VENTURES, LLC, BY FILING THIS PLAT OF RECORD, AND ALL FUTURE OWNERS OF PROPERTY WITHIN THIS SUBDIVISION, BY PURCHASING SUCH PROPERTY, ACKNOWLEDGE AND AGREE THAT HAYS COUNTY SHALL HAVE NO OBLIGATION WHATSOEVER TO REPAIR OR ACCEPT MAINTENANCE OF THE ROADS SHOWN ON THIS SUBDIVISION UNTIL AND UNLESS CATHERINE STEVEN VENTURES, LLC AND/OR THE HAWKRIDGE HOMEOWNERS ASSOCIATION HAS IMPROVED THE ROADWAYS TO THE THEN CURRENT STANDARDS REQUIRED BY HAYS COUNTY AND THE ROADS HAVE BEEN ACCEPTED FOR MAINTENANCE BY FORMAL, WRITTEN ACTION OF THE COMMISSIONERS COURT AND THE ROADWAY, WITH ALL REQUIRED RIGHT-OF-WAY HAS BEEN DEDICATED BY THE OWNERS THEREOF, AND ACCEPTED BY THE COUNTY, AS A PUBLIC STREET. CATHERINE STEVEN VENTURES, LLC AND ALL FUTURE OWNERS OF PROPERTY WITHIN THIS SUBDIVISION SHALL LOOK SOLELY TO THE HAWKRIDGE HOMEOWNERS ASSOCIATION FOR FUTURE MAINTENANCE AND REPAIR OF THE ROADS AND STREETS SHOWN ON THIS SUBDIVISION.

AMENDED PLAT PHASE - 2





THIS DOCUMENT IS FOR REFERENCE ONLY AND IS NOT TO SCALE.

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User: ALBERTALANIZ
Last Modified: Aug. 29, 25 – 14:54
Plot Date/Time: Aug. 29, 25 – 14:55:46

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REGISTERED PROFESSIONAL ENGINEER

FIRM REG. # F-8601

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EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

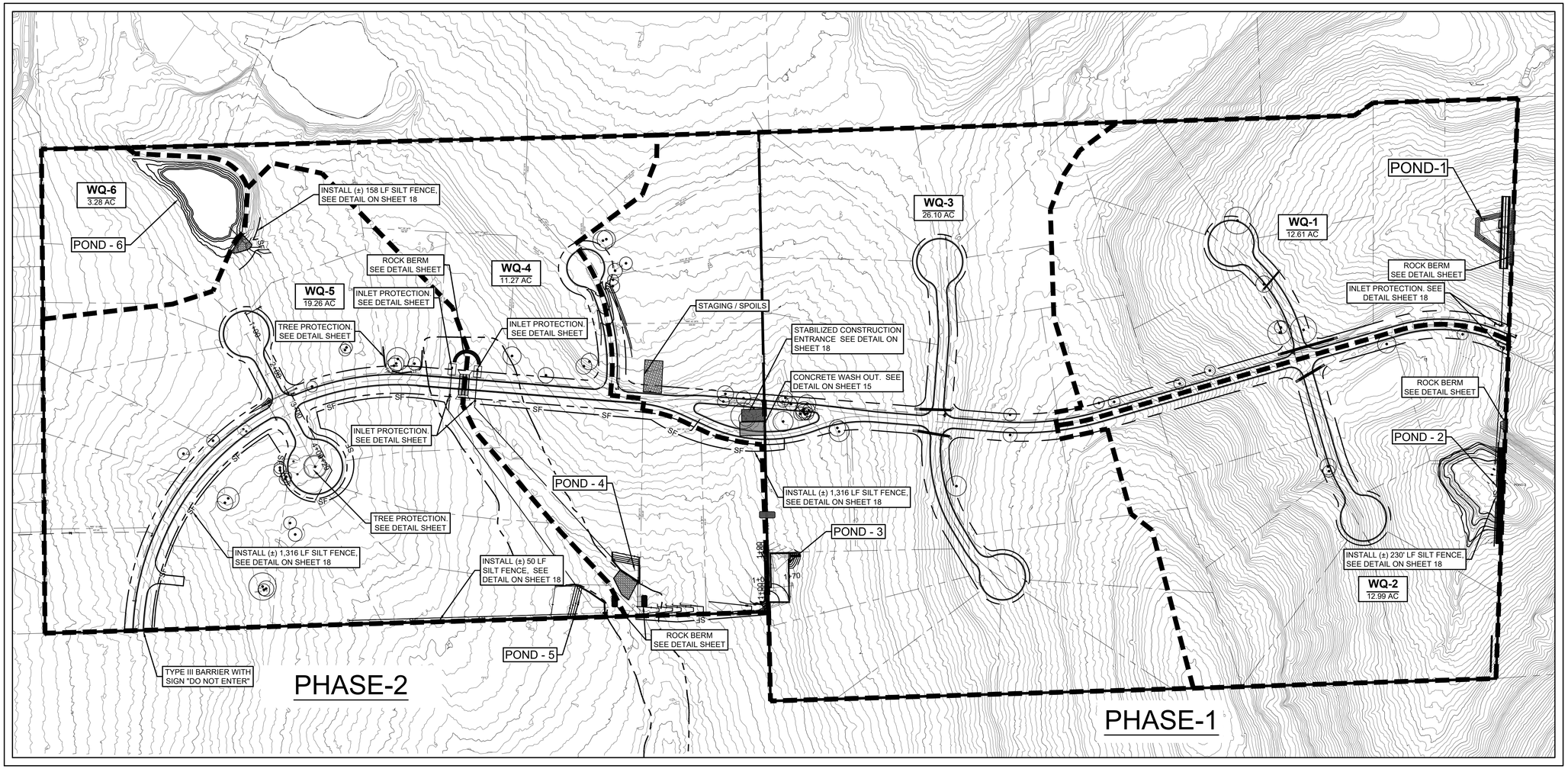
PLAT - 2

PROJECT #
1527-100

ISSUE DATE
8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET
4
4 OF 18



EROSION & SEDIMENTATION CONTROL NOTES:

1. IF DISTURBED AREA IS NOT TO BE WORKED FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED. BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING.
2. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE TCEQ AND REGULATIONS.
3. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING OR AS DIRECTED BY THE INSPECTOR.
4. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
5. AT A MINIMUM, HYDRAMULCH SHALL BE ADDED TO ALL PERVIOUS AREAS ON THE SITE.
6. 2 x 4 x 6 OR GREATER SIZE LUMBER SHALL BE STRAPPED VERTICALLY TO THE TREE DURING DEMOLITION AND THROUGHOUT THE ENTIRE CONSTRUCTION PHASE. 8" OF HARDWOOD MULCH SHALL BE APPLIED WITHIN THE FULL CRZ. INSTALL CHAIN-LINK MESH WITH A MINIMUM HEIGHT OF 5'. THIS FENCING SHALL BE INSTALLED ON STEEL T-POSTS WITH A MAXIMUM SPACING OF 10' BETWEEN THE POSTS. FENCING MUST CREATE A CLOSED, INACCESSIBLE AREA OF ROOT ZONE PROTECTION.
7. FOR AREAS ON THE SITE THAT ARE TO REMAIN PERVIOUS AFTER DEVELOPMENT, ANY SOILS THAT ARE COMPACTED DURING SITE GRADING AND CONSTRUCTION OPERATIONS MUST BE DECOMPACTED.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
	S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
	S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
		STABILIZED CONSTR. ENTRANCE
		CONSTR. STAGING AREA & SPOILS STORAGE
		CONCRETE WASHOUT AREA
		ROOT BARRIER
		LIMITS OF CONSTRUCTION
		INLET PROTECTION
		SILT FENCE
		MULCH SOCK
		ROCK BERM
		TREE TO BE REMOVED
		TREE TO BE SAVED

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CATHERINE STEVEN VENTURES, LLC

EROSION CONTROL PLAN

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET
5
6 OF 18

Drawing: \\WC019\Up\tdi-llc\Projects\1527 - Kirby Walsh\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
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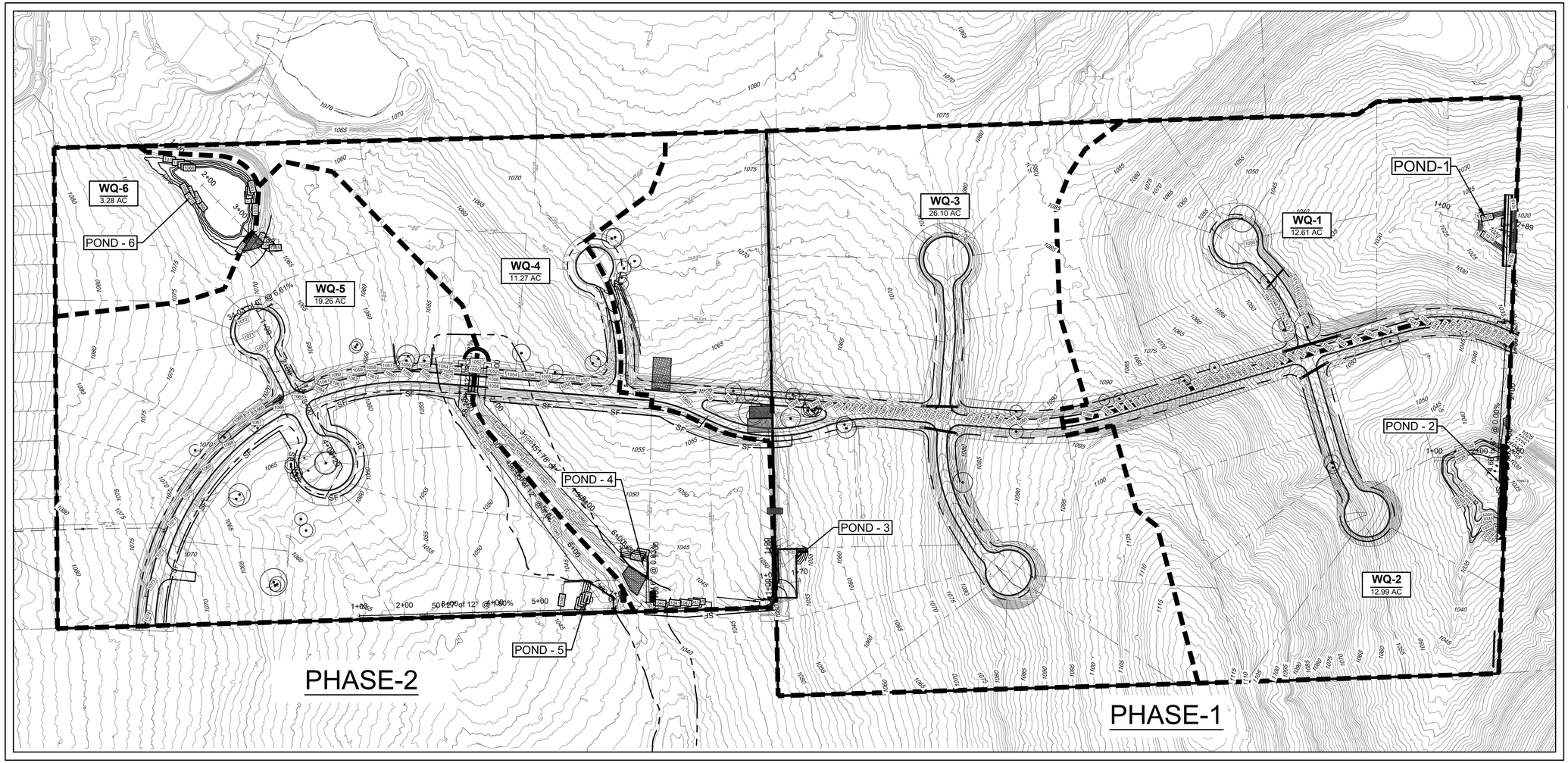

PHASE 2 - POND LIST:

Pond 4 BATCH DETENTION
Pond 5 BATCH DETENTION
Pond 6 WET BASIN

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

Page 3-29 Equation 3.3: $L_M = 27.7(A_N \times P)$

where:

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

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

County =	Hays	
Total project area included in plan * =	95.52	acres
Predevelopment impervious area within the limits of the plan* =		acres
Total post-development impervious area within the limits of the plan* =	8.85	acres
Total post-development impervious cover fraction * =	0.09	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ * =	7361	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 6

PHASE 1 - POND LIST:

Pond 1 BATCH DETENTION
Pond 2 WET BASIN
Pond 3 BATCH DETENTION

NOTES:

1. ALL LOTS MUST HAVE HOUSE ROOFS CONNECTED TO AN ON-SITE RAINWATER HARVESTING TANK, EXCEPT PHASE 1 LOTS 2, 23, 25, 31, 32 AND 33.
2. RAINWATER HARVESTING TANKS MUST BE SIZED TO CAPTURE AT LEAST 1.5" PER SQUARE FOOT OR ROOF AREA; WHICH IS APPROXIMATELY 935GAL/1000SF OF ROOF AREA.
3. EACH POND DRAINAGE BASIN IS BASED ON THE DISCONNECTION OF ALL ROOFS WITHIN THE SUBDIVISIONS SINCE THEIR SIZE IS INDIVIDUALLY DETERMINED AND INDEPENDENT OF THE REMAINDER OF THE SUBDIVISION. THIS AVOIDS EACH LOT FROM BEING REQUIRED TO OBTAIN THEIR OWN TCEQ CZP WITH OEM STANDARDS.
4. PONDS 1, 2, 3, 4 & 5 REQUIRE A GEOMEMBRANE OR CLAY LINER.

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CATHERINE STEVEN VENTURES, LLC

OVERALL DRAINAGE PLAN

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET
6
6 OF 18

Drawing: \\W2019a1\jdi-ne\Projects\1527 - Kirby Wells\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Saved: Aug 29, 25 - 14:54
Plot Date/Time: Aug 29, 25 - 14:55:59

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	12.61	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.57	acres
Post-development impervious fraction within drainage basin/outfall area =	0.12	
$L_{M\ THIS\ BASIN}$ =	1436	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = 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 3

where:

A_C = Total On-Site drainage area i		
A_I = Impervious area proposed in		
A_P = Pervious area remaining in th		
L_R = TSS Load removed from this		
A_C =	12.61	acres
A_I =	1.57	acres
A_P =	11.04	acres
L_R =	1811	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 1436 lbs.

F = 0.79

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

Rainfall Depth =	1.04	inches
Post Development Runoff Coefficient =	0.16	
On-site Water Quality Volume =	7421.10	cubic feet

Calculations from RG-348

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 =	0.00	cubic feet
Storage for Sediment =	1484	
Total Capture Volume (required water quality volume(s) x 1.20) =	8905.32	cubic feet

POND 1 - CALCULATIONS

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

Drainage Basin/Outfall Area No. = 2

Total drainage basin/outfall area =	12.99	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.15	acres
Post-development impervious fraction within drainage basin/outfall area =	0.09	
$L_{M\ THIS\ BASIN}$ =	1047	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Wet Basin
Removal efficiency = 93 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 3

where:

A_C = Total On-Site drainage area i		
A_I = Impervious area proposed in		
A_P = Pervious area remaining in th		
L_R = TSS Load removed from this		
A_C =	12.99	acres
A_I =	1.15	acres
A_P =	11.85	acres
L_R =	1412	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 1047 lbs.

F = 0.74

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

Rainfall Depth =	0.89	inches
Post Development Runoff Coefficient =	0.12	
On-site Water Quality Volume =	5230.84	cubic feet

Calculations from RG-348

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 =	0.00	cubic feet
Storage for Sediment =	1046	
Total Capture Volume (required water quality volume(s) x 1.20) =	6277.00	cubic feet

POND 2 - CALCULATIONS

11. Wet Basins Designed as Required in RG-

Required capacity of Permanent Pool =	6277	cubic feet
Required capacity at WQV Elevation =	11508	cubic feet

POND 2 - CALCULATIONS (CONT.)

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

Drainage Basin/Outfall Area No. = 3

Total drainage basin/outfall area =	25.94	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	2.85	acres
Post-development impervious fraction within drainage basin/outfall area =	0.11	
$L_{M\ THIS\ BASIN}$ =	2605	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = 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 3

where:

A_C = Total On-Site drainage area i		
A_I = Impervious area proposed in		
A_P = Pervious area remaining in th		
L_R = TSS Load removed from this		
A_C =	25.94	acres
A_I =	2.85	acres
A_P =	23.09	acres
L_R =	3336	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 2605 lbs.

F = 0.78

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

Rainfall Depth =	1.00	inches
Post Development Runoff Coefficient =	0.14	
On-site Water Quality Volume =	13502.51	cubic feet

Calculations from RG-348

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 =	0.00	cubic feet
Storage for Sediment =	2701	
Total Capture Volume (required water quality volume(s) x 1.20) =	16203.01	cubic feet

POND 3 - CALCULATIONS

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

Drainage Basin/Outfall Area No. = 4

Total drainage basin/outfall area =	11.43	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.77	acres
Post-development impervious fraction within drainage basin/outfall area =	0.07	
$L_{M\ THIS\ BASIN}$ =	700	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = 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 3

where:

A_C = Total On-Site drainage area i		
A_I = Impervious area proposed in		
A_P = Pervious area remaining in th		
L_R = TSS Load removed from this		
A_C =	11.43	acres
A_I =	0.77	acres
A_P =	10.66	acres
L_R =	969	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 700 lbs.

F = 0.72

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

Rainfall Depth =	0.83	inches
Post Development Runoff Coefficient =	0.11	
On-site Water Quality Volume =	3691.99	cubic feet

Calculations from RG-348

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 =	0.00	cubic feet
Storage for Sediment =	738	
Total Capture Volume (required water quality volume(s) x 1.20) =	4430.39	cubic feet

POND 4 - CALCULATIONS

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

Drainage Basin/Outfall Area No. = 5

Total drainage basin/outfall area =	19.26	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.86	acres
Post-development impervious fraction within drainage basin/outfall area =	0.10	
$L_{M\ THIS\ BASIN}$ =	1699	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = 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 3

where:

A_C = Total On-Site drainage area i		
A_I = Impervious area proposed in		
A_P = Pervious area remaining in th		
L_R = TSS Load removed from this		
A_C =	19.26	acres
A_I =	1.86	acres
A_P =	17.40	acres
L_R =	2214	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 1699 lbs.

F = 0.77

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

Rainfall Depth =	0.97	inches
Post Development Runoff Coefficient =	0.13	
On-site Water Quality Volume =	8972.62	cubic feet

Calculations from RG-348

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 =	0.00	cubic feet
Storage for Sediment =	1795	
Total Capture Volume (required water quality volume(s) x 1.20) =	10767.14	cubic feet

POND 5 - CALCULATIONS

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

Drainage Basin/Outfall Area No. = 6

Total drainage basin/outfall area =	3.28	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.05	acres
Post-development impervious fraction within drainage basin/outfall area =	0.01	
$L_{M\ THIS\ BASIN}$ =	42	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Wet Basin
Removal efficiency = 93 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 3

where:

A_C = Total On-Site drainage area i		
A_I = Impervious area proposed in		
A_P = Pervious area remaining in th		
L_R = TSS Load removed from this		
A_C =	3.28	acres
A_I =	0.05	acres
A_P =	3.23	acres
L_R =	102	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 42 lbs.

F = 0.41

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

Rainfall Depth =	0.31	inches
Post Development Runoff Coefficient =	0.08	
On-site Water Quality Volume =	224.59	cubic feet

Calculations from RG-348

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 =	0.00	cubic feet
Storage for Sediment =	45	
Total Capture Volume (required water quality volume(s) x 1.20) =	269.50	cubic feet

11. Wet Basins Designed as Required in RG-

Required capacity of Permanent Pool =	270	cubic feet
Required capacity at WQV Elevation =	494	cubic feet

POND 6 - CALCULATIONS

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HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

TSS REMOVAL CALC - ALL PONDS

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 7

7 OF 18

Drawing: \\WC01fs1\dc-ic\Projects\1527 - Kirby Walsh\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
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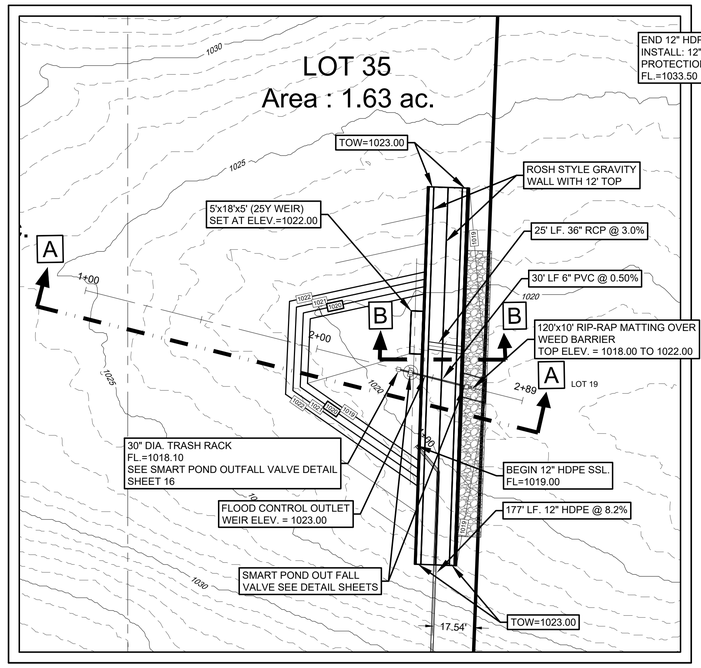

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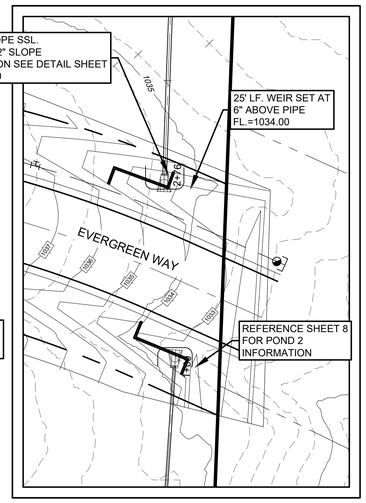
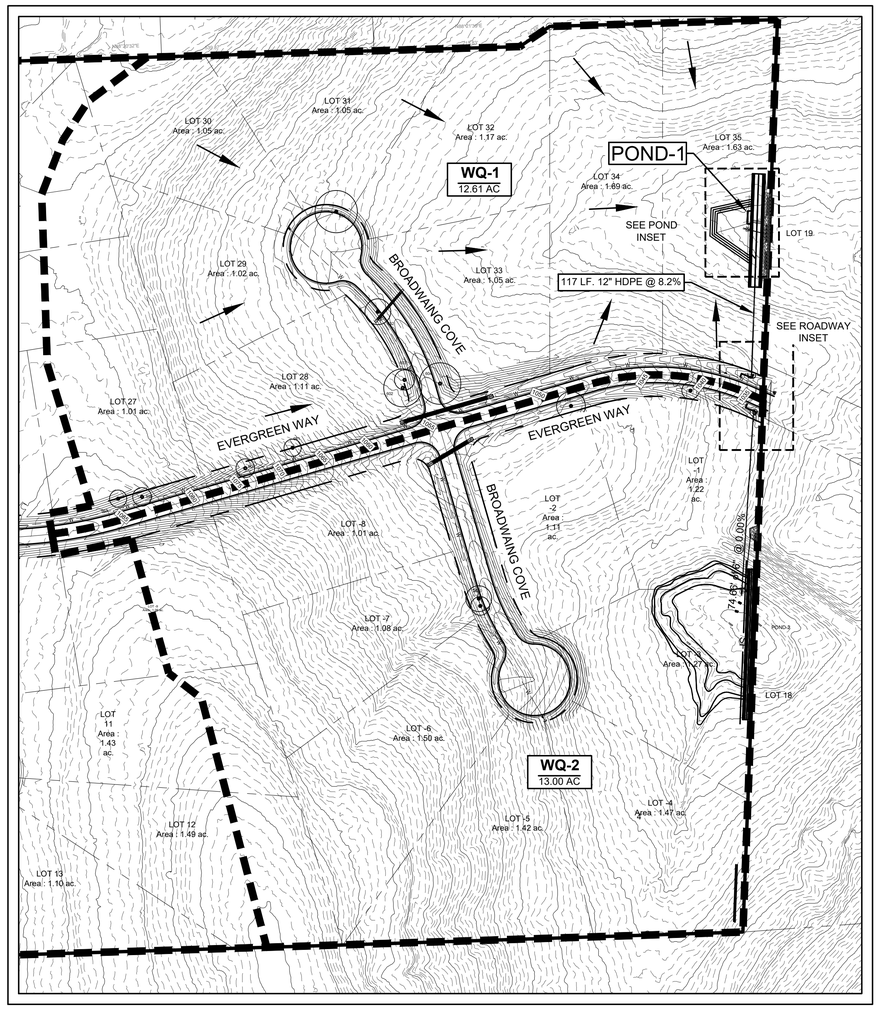


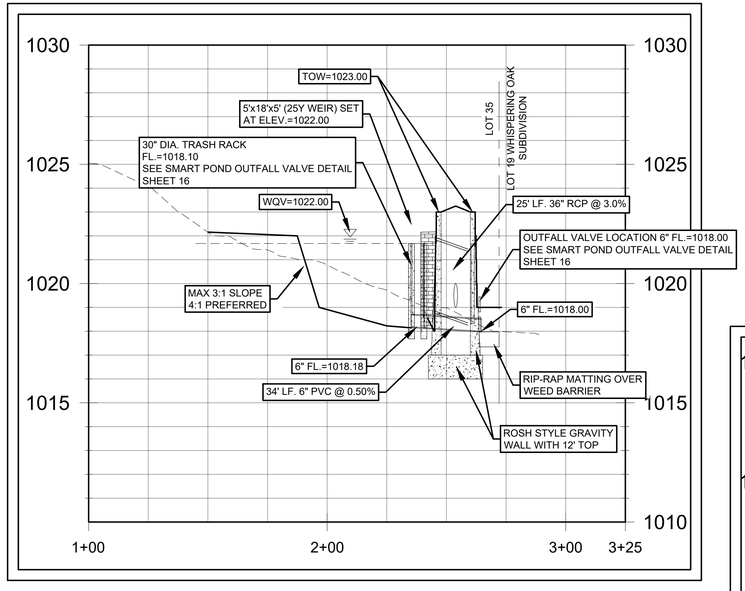
ROADWAY INSET

SCALE: 1"=20'



PHASE-1 POND 1 DRAINAGE

SCALE: 1"=100'



SECTION A-A

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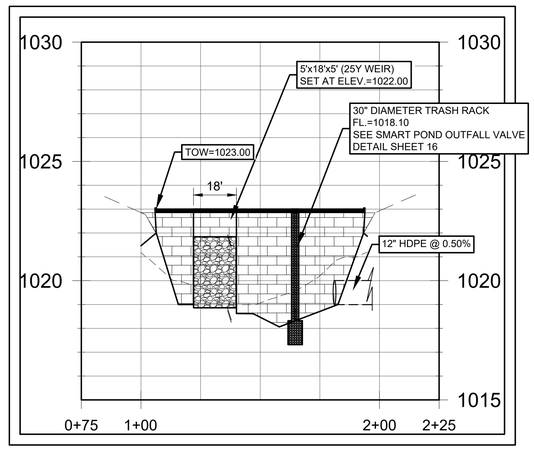


SECTION B-B

SCALE: 1"=30'

WEIR CALCULATIONS

Q25 & Q - 100

$Q100 = CL(H)^{\frac{3}{2}}$

Q100 = 128.1 cfs

C = 3

H = 0.5'

$128.1 = 3L\ (0.5)^{\frac{3}{2}}$

L = 120.77 LF < 121 LF

$Q25 = CL(H)^{\frac{3}{2}}$

Q25 = 84.1 cfs

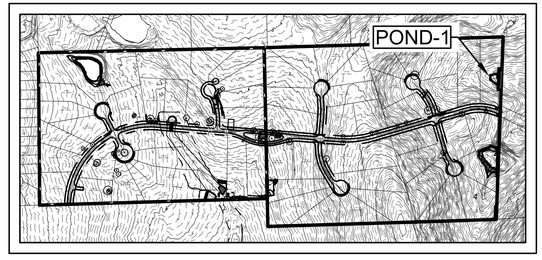
C = 3

H = 1'

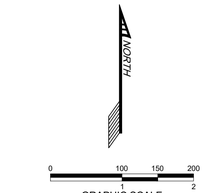
$84.1 = 3L\ (1)^{\frac{3}{2}}$

L = 28.03 LF < 5'x18'x5'

WQ Pond 1				
Elevation	Depth	Area (sf)	Cubic Feet	Cubic Feet (Cum.)
1018.1	0.0	0	0	0
1019	0.9	1672	1505	1505
1020	1.0	2184	2184	3689
1021	1.0	2832	2832	6521
1022	1.0	3510	3510	10031
1023	1.0	freeboard		
		Req. Water Quality Volume=		8905.00



OVERALL SITE PLAN



LEGEND

PROPOSED	DESCRIPTION
S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
	BUILDING SETBACK
	EASEMENT
	GRATE INLET
	CURB INLET (SIZE VARIES)
XXX	CONTOUR
	ONSITE DRAINAGE AREA BOUNDARY
PR 1 / X.XX AC	DRAINAGE AREA LABEL
J1	POINT OF ANALYSIS
	FLOW DIRECTION
XX LF SHALLOW CONCENTRATED FLOW	PROPOSED TIME OF CONCENTRATION (DIM & PATH)

POND WALLS:

1. POND WALLS, SPLITTER STRUCTURE, AND OUTLET STRUCTURES SHOWN DIMENSIONALLY ONLY. POND WALLS SHALL BE DESIGNED BY STRUCTURAL ENGINEER.

NOTE:

ALL EXPOSED CONCRETE THAT IS VISIBLE IS REQUIRED TO BE MADE OF STONE OR CLAD IN STONE INCLUDING BUT NOT LIMITED TO LEDGE STONE, FIELDSTONE, CAST STONE, OR OTHER DECORATIVE MATERIALS SUCH AS STAMPED AND TINTED CONCRETE THAT RESEMBLES STONE OR BRICK AS APPROVED BY THE DEVELOPER.

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08/29/25

STATE OF TEXAS
F.P. HOWLAND III
90451
REGISTERED PROFESSIONAL ENGINEER

FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

POND - 1

PROJECT # 1527-100

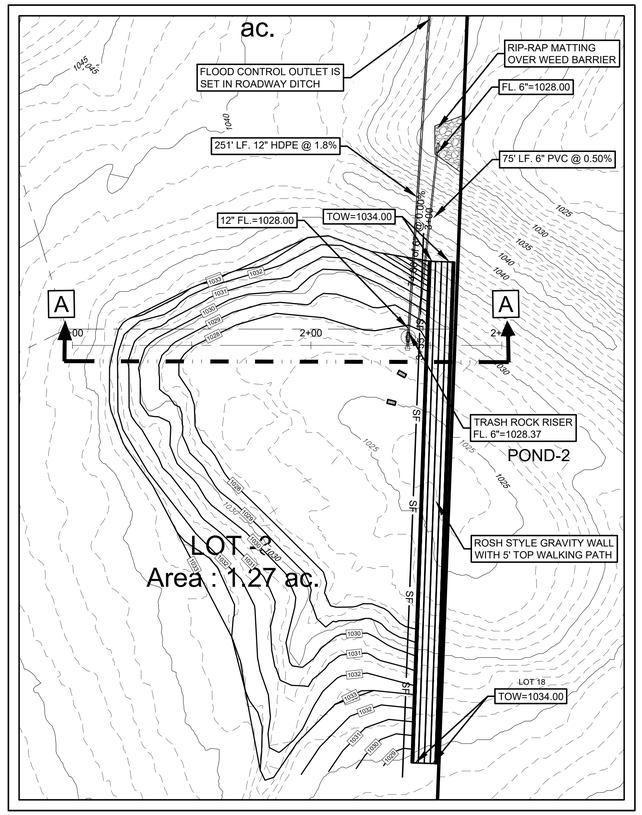
ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 8

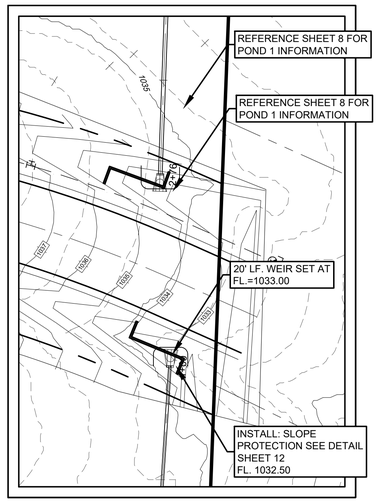
8 OF 18

Drawing: \\W2019a\1dr-rv\Projects\1527 - Kirby Walsh\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug 29, 25 - 14:54
Plotted: Aug 29, 25 - 14:56:26



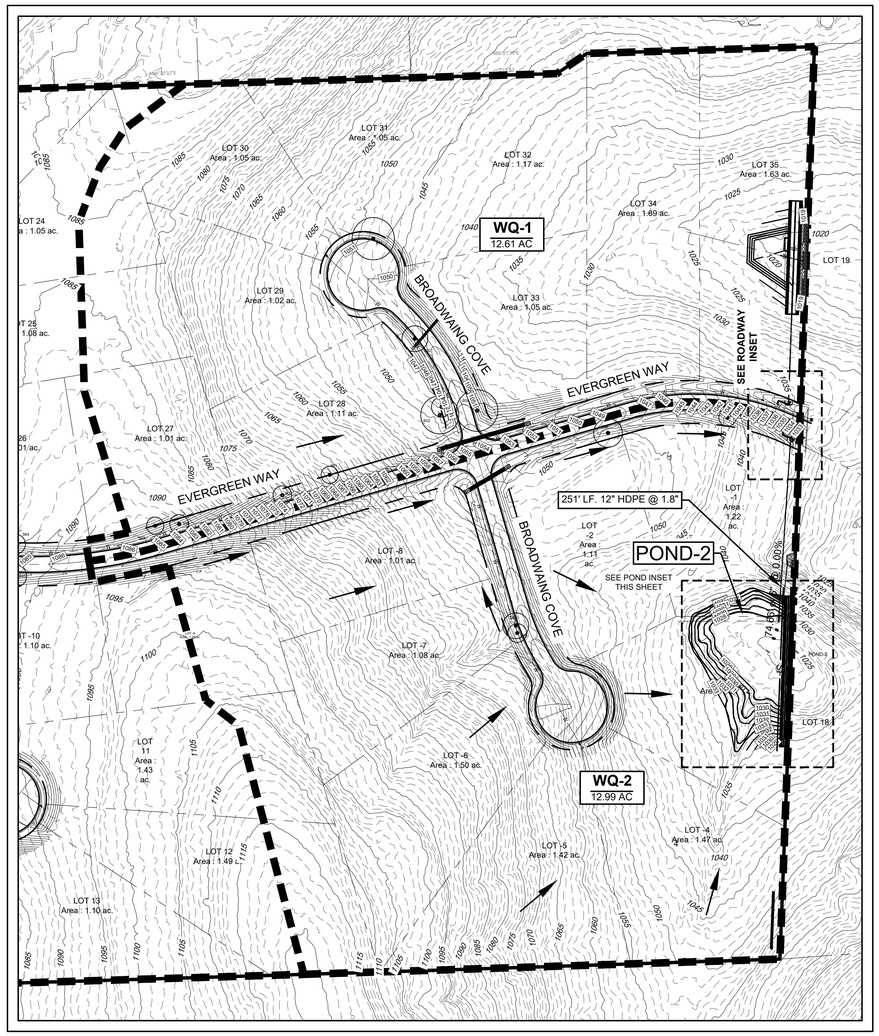
PHASE-1 POND 2 - WET BASIN

SCALE: 1"=30'



ROADWAY INSET

SCALE: 1"=20'

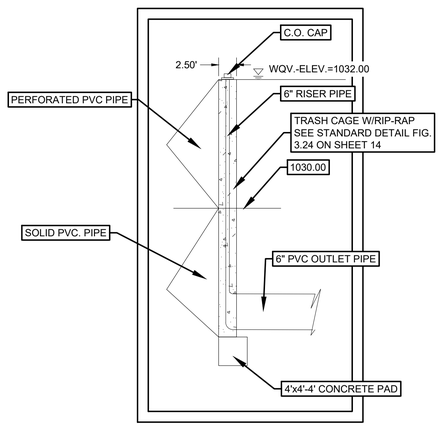


PHASE-1 POND 2 DRAINAGE AREA

SCALE: 1"=100'

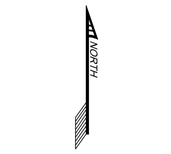
SECTION A-A

SCALE: 1"=30'



SECTION A-A

SCALE: 1"=30'



GRAPHIC SCALE

1" = 100'

LEGEND

PROPOSED	DESCRIPTION
S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
	BUILDING SETBACK
	EASEMENT
	GRATE INLET
	CURB INLET (SIZE VARIES)
XXX	CONTOUR
	ONSITE DRAINAGE AREA BOUNDARY
PR 1 X.XX AC	DRAINAGE AREA LABEL
J1	POINT OF ANALYSIS
	FLOW DIRECTION
XX LF SHALLOW CONCENTRATED FLOW	PROPOSED TIME OF CONCENTRATION (DIM & PATH)

POND WALLS:

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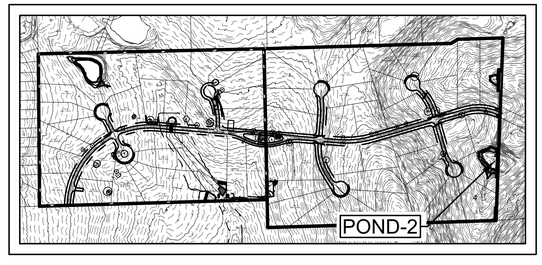
WQ Pond 2				
Elevation	Depth	Area (sf)	Cubic Feet	Cubic Feet (Cum.)
1028	0.0	0	0	0
1029	1.0	11021	11021	11021
1030	1.0	13324	13324	24345
1031	1.0	15507	15507	39852
1032	1.0	17941	17941	57793
1033	1.0	Freeboard		
		Req. Water Quality Volume=		11610.00



OVERALL SITE PLAN

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FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

POND - 2

PROJECT # 1527-100

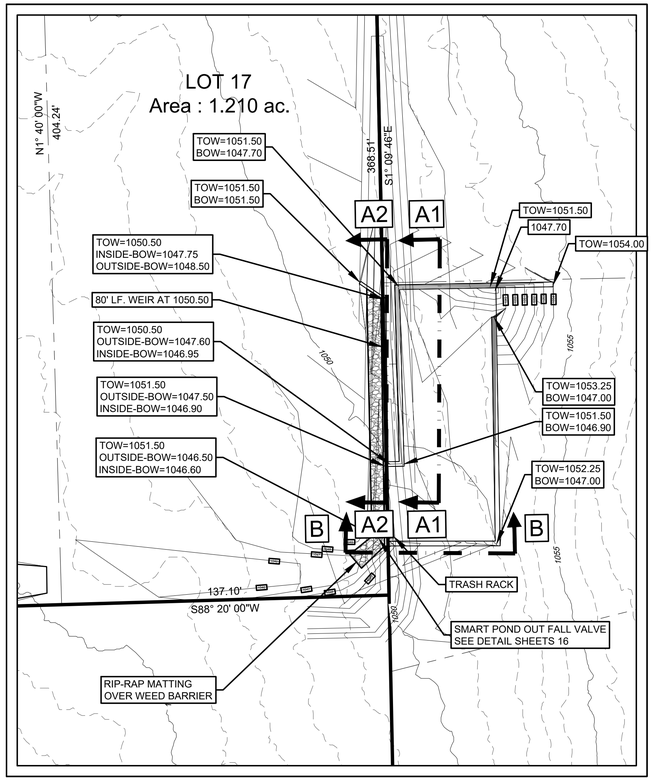
ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 9

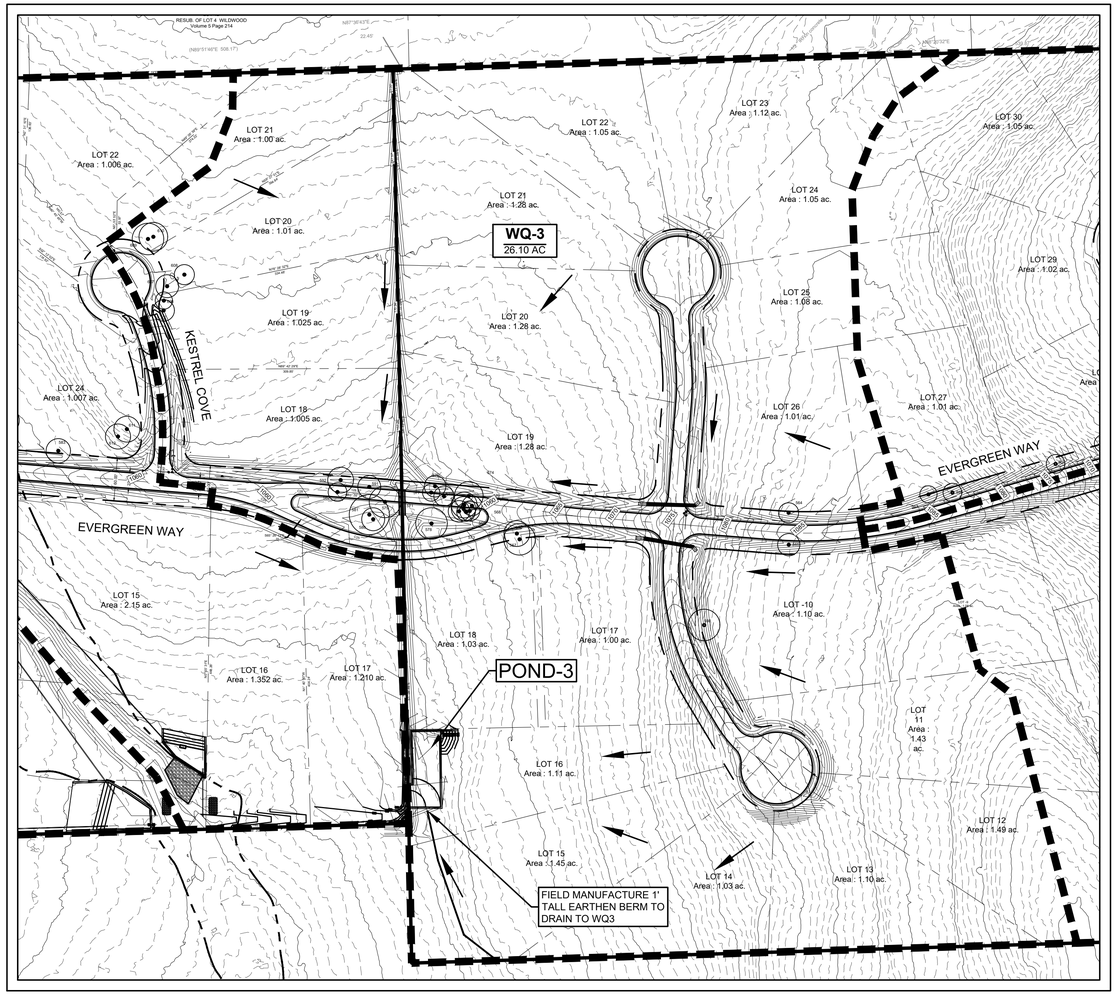
9 OF 18

Drawing: J:\WQ\Ph1\dll-llc\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug. 29, 25 - 14:54
Plot: By/At Plotted: Aug. 29, 25 - 14:56:53



PHASE-1 POND 3

SCALE: 1"=30'



PHASE-1 POND 3 DRAINAGE AREA

SCALE:1"=100'

NORTH

0 100 150 200

GRAPHIC SCALE
1" = 100'

LEGEND

PROPOSED	DESCRIPTION
S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
	BUILDING SETBACK
	EASEMENT
	GRATE INLET
	CURB INLET (SIZE VARIES)
XXX	CONTOUR
	ONSITE DRAINAGE AREA BOUNDARY
PR 1 X XX AC	DRAINAGE AREA LABEL
J1	POINT OF ANALYSIS
	FLOW DIRECTION
XX LF SHALLOW CONCENTRATED FLOW	PROPOSED TIME OF CONCENTRATION (DIM & PATH)

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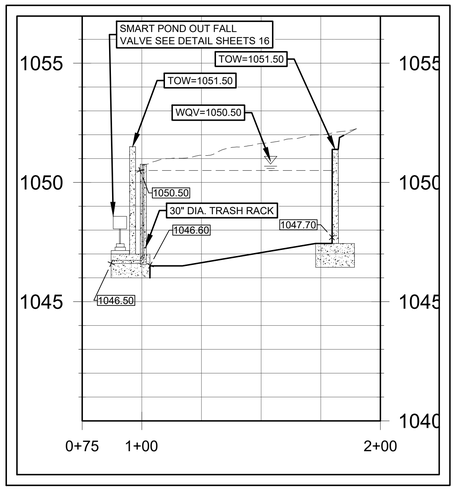
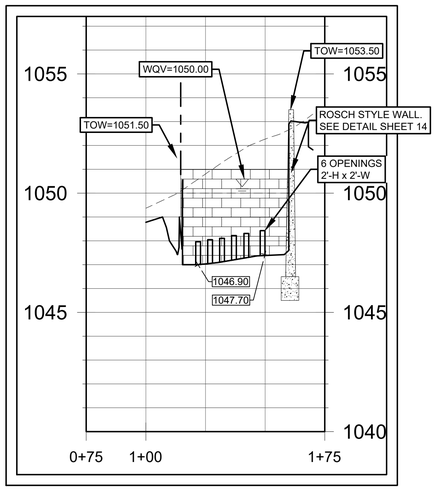


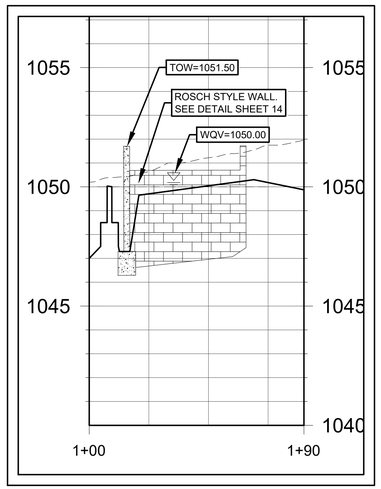
SECTION A-A

SCALE: 1"=30'



SPLITTER BOX - SECTION A1-A1

SCALE: 1"=30'



SPLITTER BOX - SECTION A2-A2

SCALE: 1"=30'

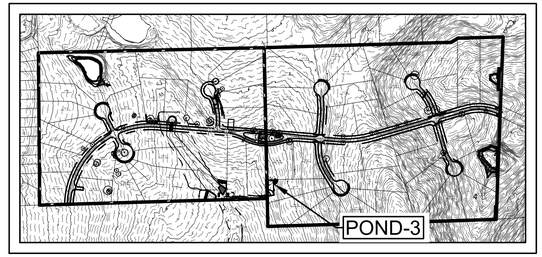
WEIR CALCULATIONS

$Q100 = CL(H)^{\frac{3}{2}}$
Q100 = 241.2 cfs
C = 3
H = 0.5'
$100 = 3L\ (0.5)^{\frac{3}{2}}$
L = 80.4 LF < 81 LF

SPLITTER BOX CALCULATIONS

$Q25 = CoA\ (2GH)^{.5}$
Q25 = 157.6 cfs
Co= 0.6
H = 3'
$157.6 = 0.60 \times A \times (2 \times 32.2 \times 3)^{0.5}$
A = 18.09 sf < 24 sf

WQ Pond 3				
Elevation	Depth	Area (sf)	Cubic Feet	Cubic Feet (Cum.)
1046.6	0.0	0	0	0
1047	0.4	1636	654	654
1048	1.0	4725	4725	5379
1049	1.0	4725	4725	10104
1050	1.0	4725	4725	14829
1050.5	0.5	4725	2363	17192
1051.5	1.0	Freeboard		
		Req. Water Quality Volume=		16507.00



OVERALL SITE PLAN

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FIRM REG. # F-8601

HAWK RIDGE

EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

POND - 3

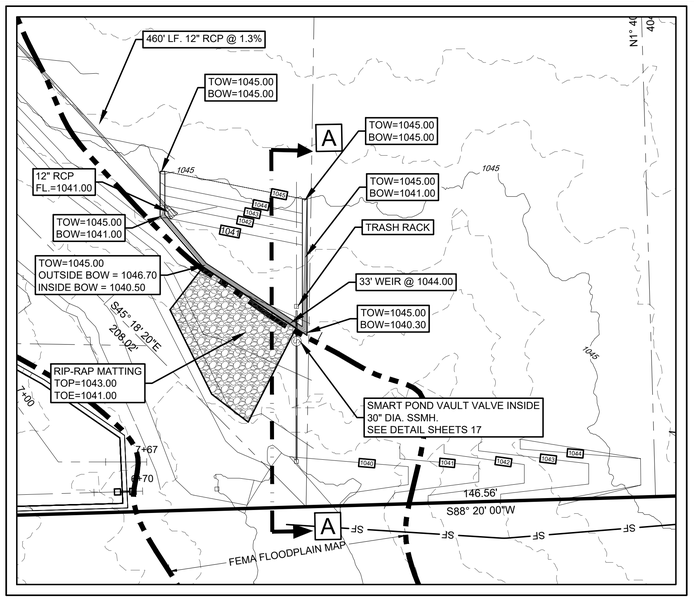
PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

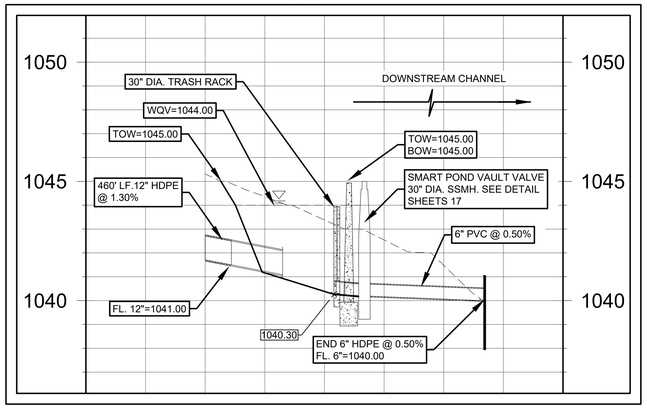
SHEET
10
10 OF 18

Drawing: \\M2019a1yb-nc\Projects\1527 - Kirby Wells\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug. 29, 25 - 14:54
Plotted: Aug. 29, 25 - 14:57:15



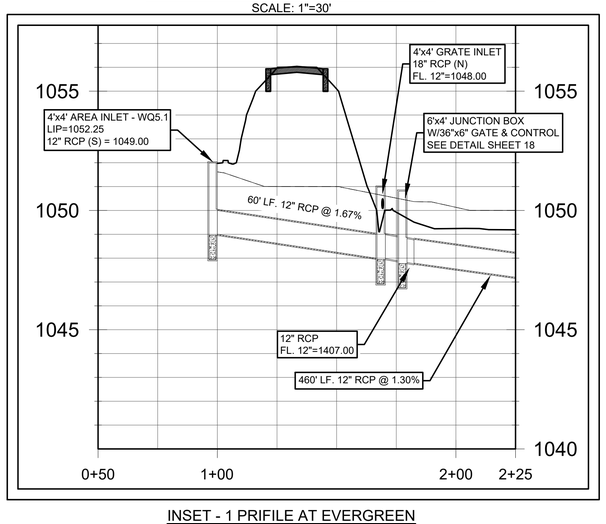
PHASE-2 POND 4

SCALE: 1"=30'



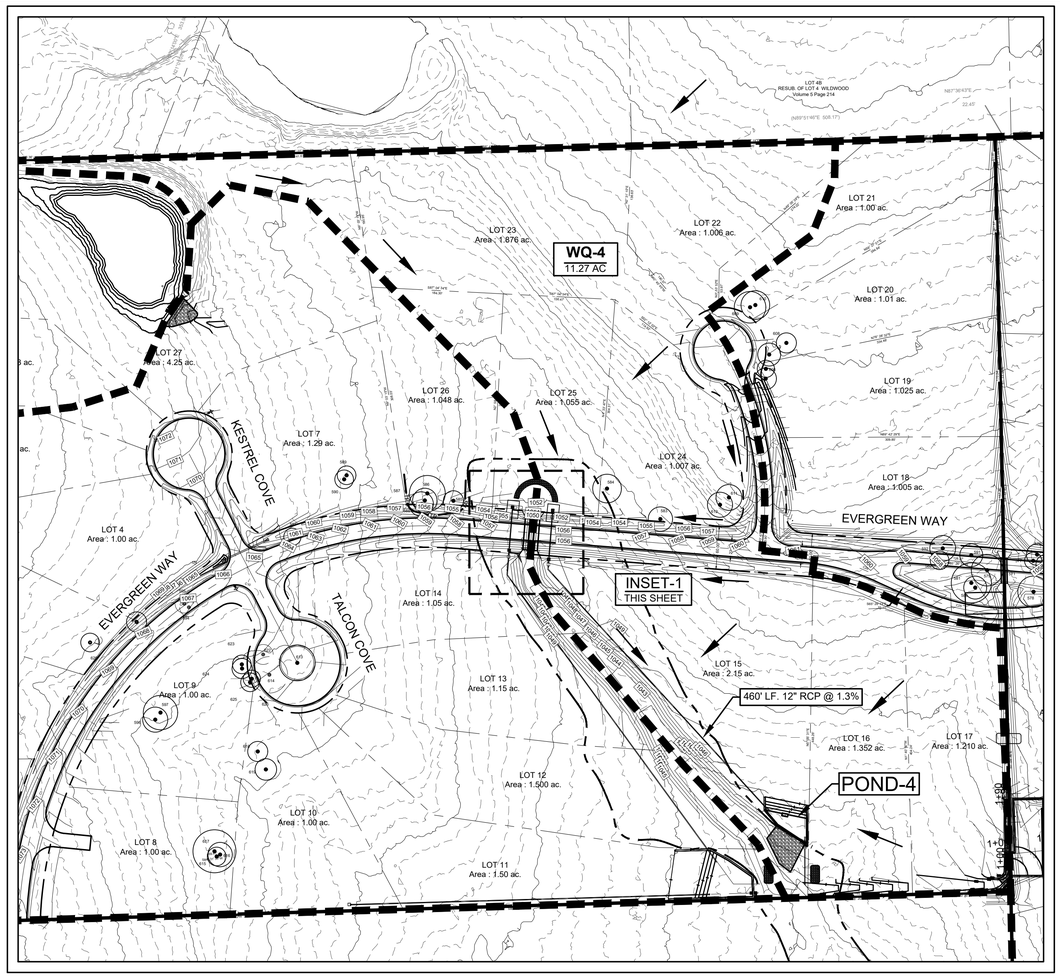
SPLITTER BOX - SECTION A-A

SCALE: 1"=30'



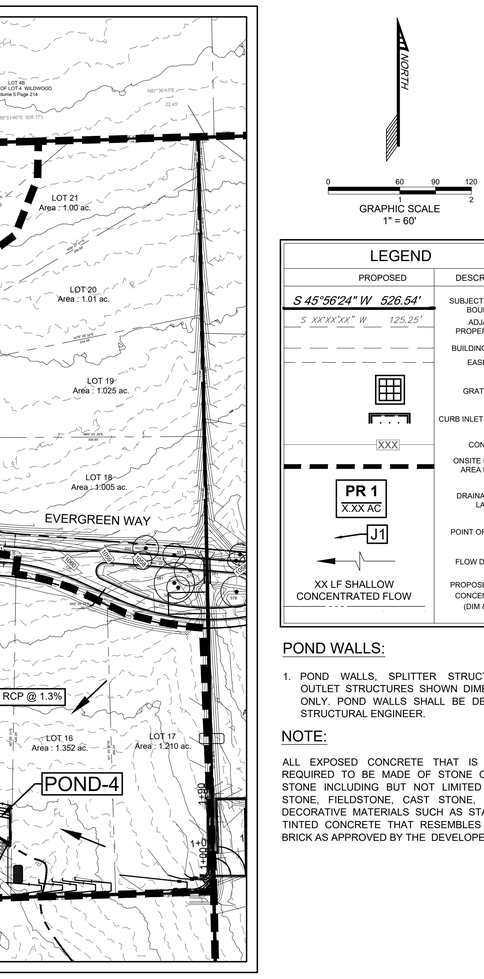
INSET - 1 PRIFILE AT EVERGREEN

SCALE: 1"=30'



PHASE-2 POND 4 DRAINAGE AREA

SCALE:1"=100'



LEGEND

PROPOSED	DESCRIPTION
S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
	BUILDING SETBACK
	EASEMENT
	GRATE INLET
	CURB INLET (SIZE VARIES)
XXX	CONTOUR
	ONSITE DRAINAGE AREA BOUNDARY
PR 1 X.XX AC	DRAINAGE AREA LABEL
J1	POINT OF ANALYSIS
	FLOW DIRECTION
XX LF SHALLOW CONCENTRATED FLOW	PROPOSED TIME OF CONCENTRATION (DIM & PATH)

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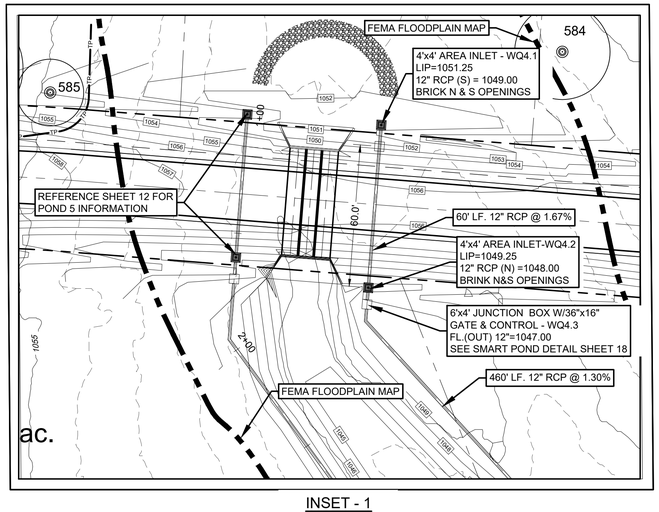


INSET - 1

SCALE: 1"=30'

WEIR CALCULATIONS

$Q100 = CL(H)^{\frac{3}{2}}$

Q100 = 98.3 cfs

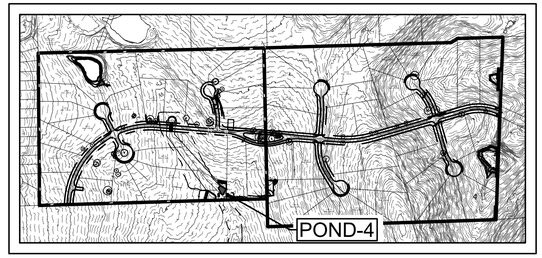
C = 3

H = 1'

$98.3 = 3L\,(0.5)^{\frac{3}{2}}$

L = 32.77 LF < 33 LF

WQ Pond 4				
Elevation	Depth	Area (sf)	Cubic Feet	Cubic Feet (Cum.)
1040.3	0.0	0	0	0
1041	0.7	1050	735	735
1042	1.0	1170	1170	1905
1043	1.0	1290	1290	3195
1044	1.0	1410	1410	4605
1045	1.0	freeboard		
		Req. Water Quality Volume=		4037.00



OVERALL SITE PLAN

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FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

POND - 4

PROJECT # 1527-100

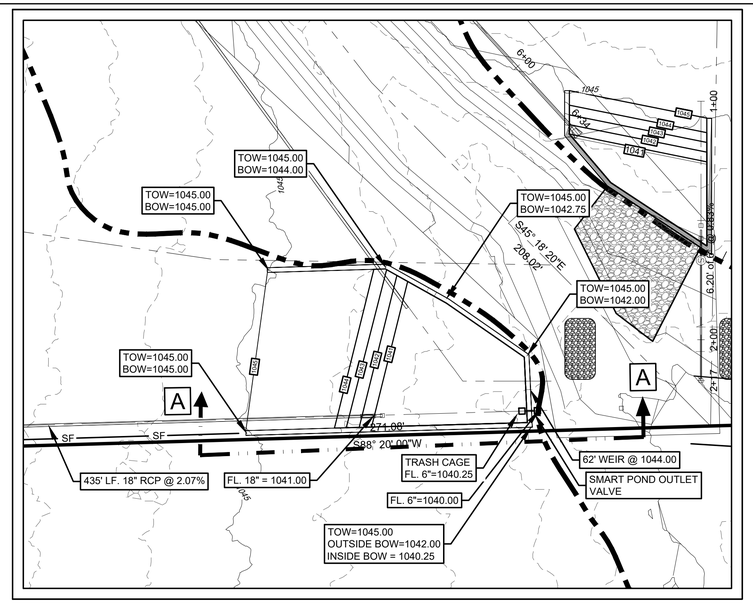
ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 11

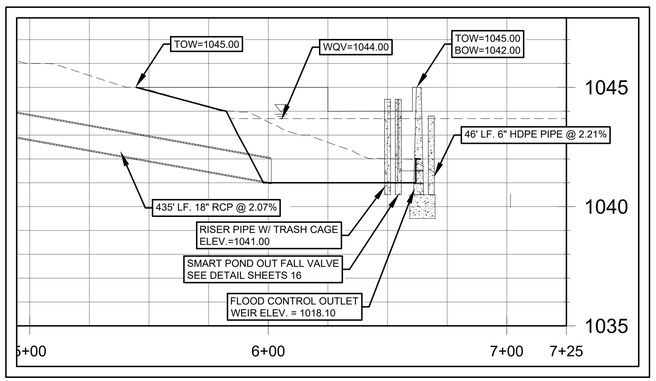
11 OF 18

Drawing: J:\WORKS\1st-llc\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug. 29, 25 - 14:54
Plot: Date/Time: Aug. 29, 25 - 14:57:42



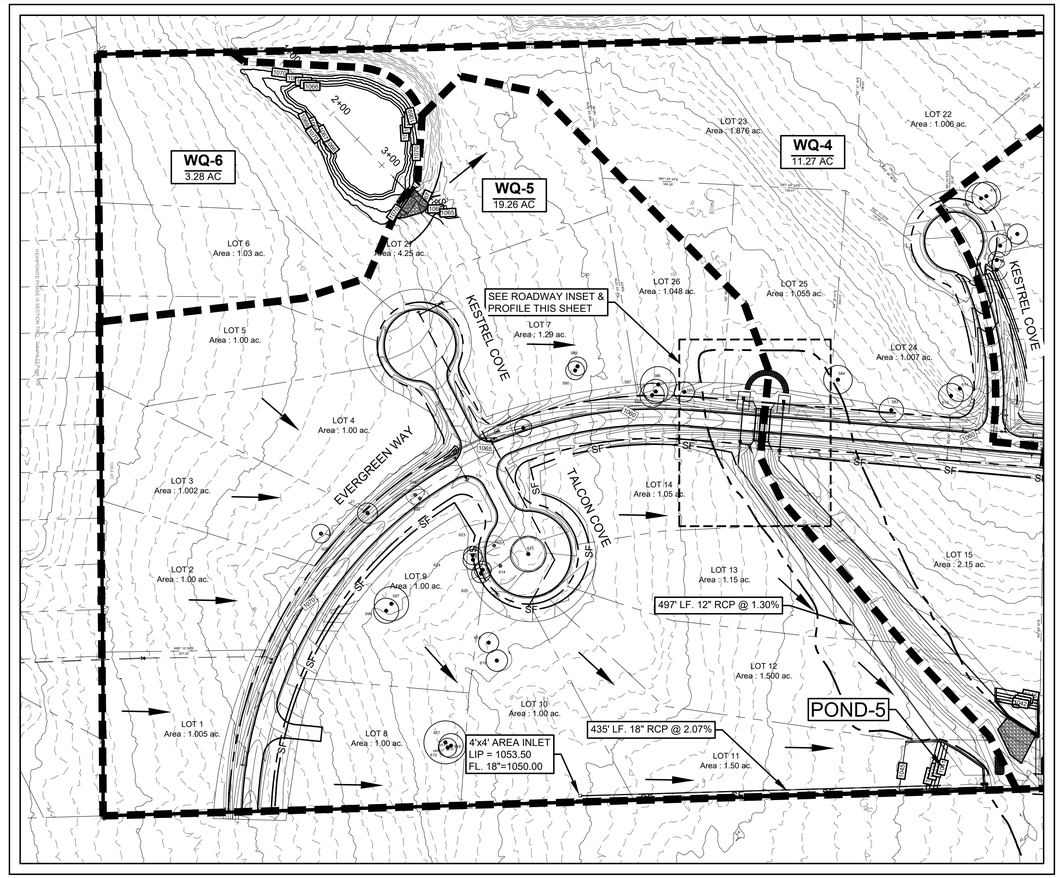
PHASE-2 POND 5

SCALE: 1"=30'



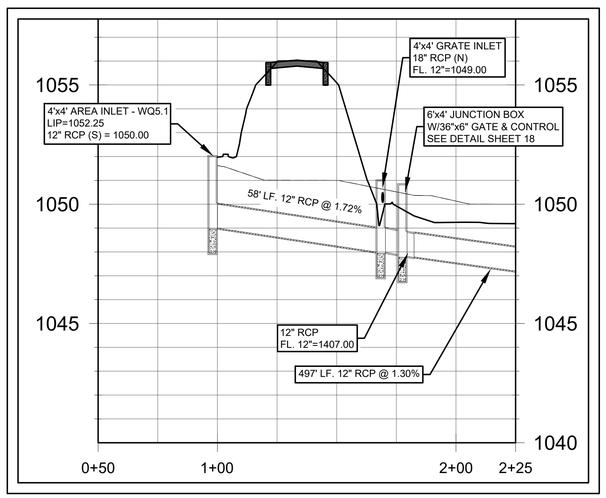
SECTION A-A

SCALE: 1"=30'



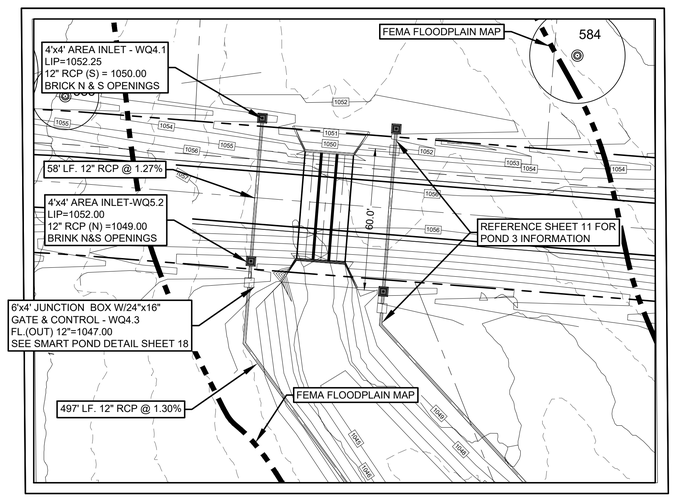
PHASE-2 POND 5 DRAINAGE AREA

SCALE:1"=100'



INSET - 1 PROFILE AT EVERGREEN

SCALE: 1"=30'



INSET - 1

SCALE: 1"=30'

WEIR CALCULATIONS

$Q100 = CL(H)^{\frac{3}{2}}$

$Q100 = 183.7$ cfs

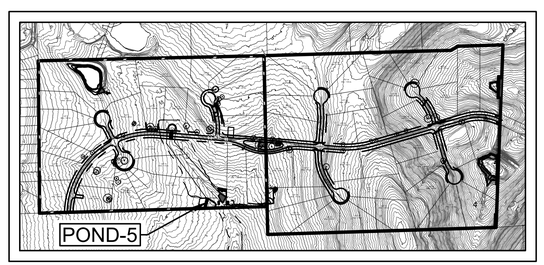
$C = 3$

$H = 0.5'$

$183.7 = 3L\ (0.5)^{\frac{3}{2}}$

$L = 61.23$ LF $<$ 62 LF

WQ Pond 5				
Elevation	Depth	Area (sf)	Cubic Feet	Cubic Feet (Cum.)
1040.25	0.0	0	0	0
1041	0.75	2772	2079	2079
1042	1.00	3080	3080	5159
1043	1.00	3256	3256	8415
1044	1.00	3432	3432	11847
1045	1.00	freeboard		
		Req. Water Quality Volume=		10767.00



OVERALL SITE PLAN

NORTH

0 60 90 120

GRAPHIC SCALE
1" = 60'

LEGEND

PROPOSED	DESCRIPTION
S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
	BUILDING SETBACK
	EASEMENT
	GRATE INLET
	CURB INLET (SIZE VARIES)
XXX	CONTOUR
	ONSITE DRAINAGE AREA BOUNDARY
PR 1 X.XX AC	DRAINAGE AREA LABEL
J1	POINT OF ANALYSIS
	FLOW DIRECTION
XX LF SHALLOW CONCENTRATED FLOW	PROPOSED TIME OF CONCENTRATION (DIM & PATH)

POND WALLS:

1. POND WALLS, SPLITTER STRUCTURE, AND OUTLET STRUCTURES SHOWN DIMENSIONALLY ONLY. POND WALLS SHALL BE DESIGNED BY STRUCTURAL ENGINEER.

NOTE:

ALL EXPOSED CONCRETE THAT IS VISIBLE IS REQUIRED TO BE MADE OF STONE OR CLAD IN STONE INCLUDING BUT NOT LIMITED TO LEDGE STONE, FIELDSTONE, CAST STONE, OR OTHER DECORATIVE MATERIALS SUCH AS STAMPED AND TINTED CONCRETE THAT RESEMBLES STONE OR BRICK AS APPROVED BY THE DEVELOPER.

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DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

POND - 5

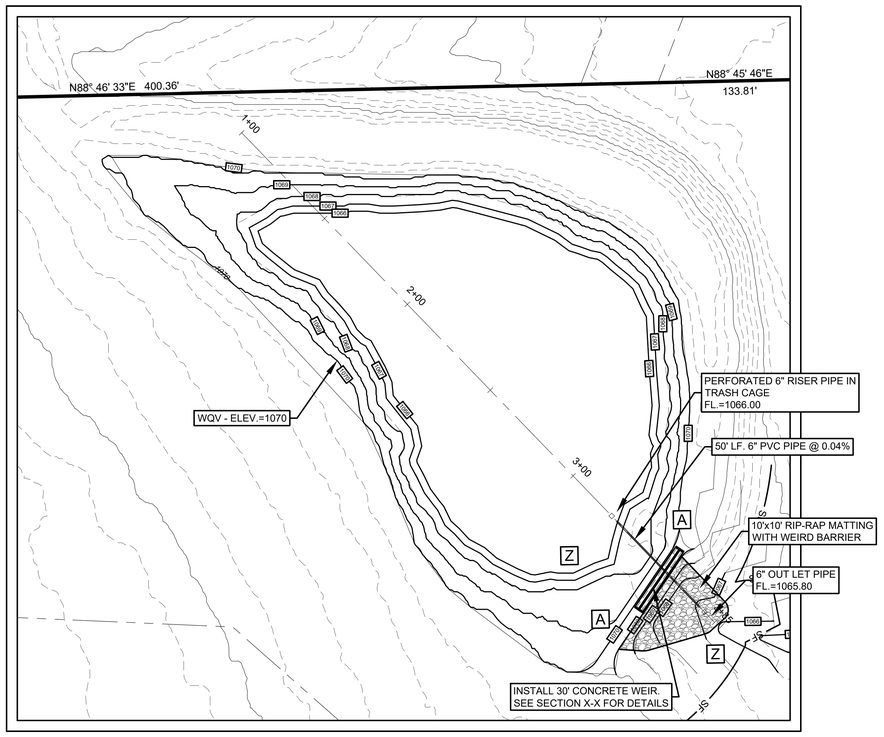
PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

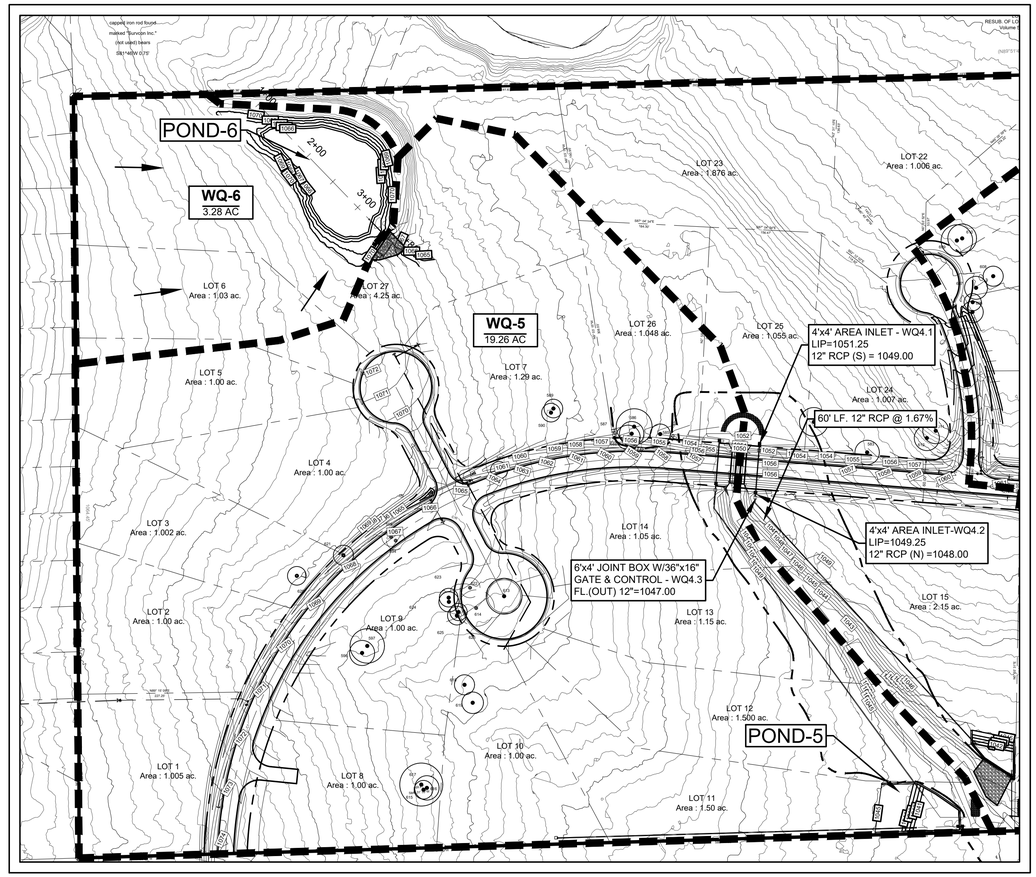
SHEET
12
12 OF 18

Drawing: \\WO19\1dc-llc\Projects\1527 - Kirby Walsh\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Plotted: Aug 29, 25 - 14:54
Pen Table: Aug 29, 25 - 14:58:06



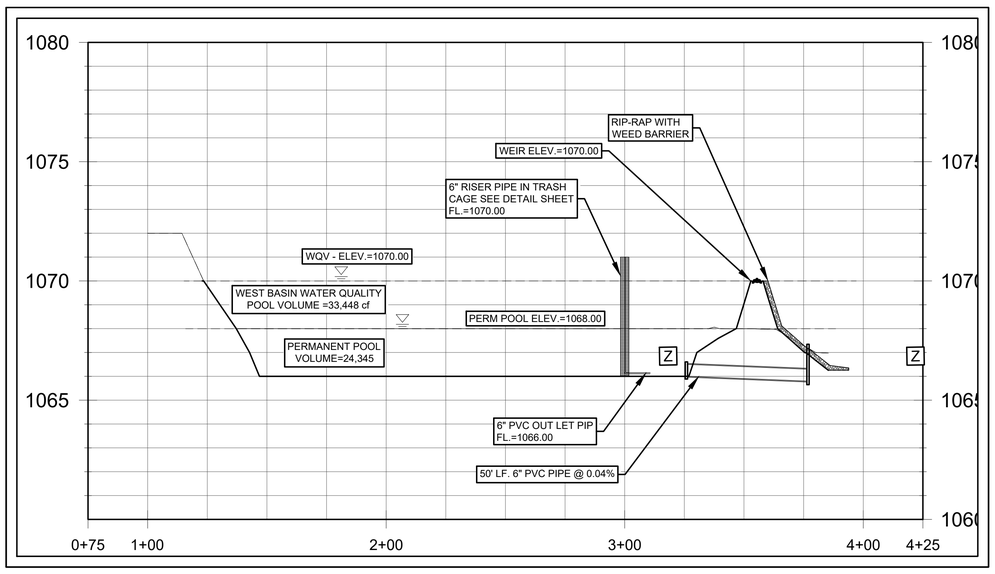
PHASE-1 POND 6

SCALE: 1"=30'



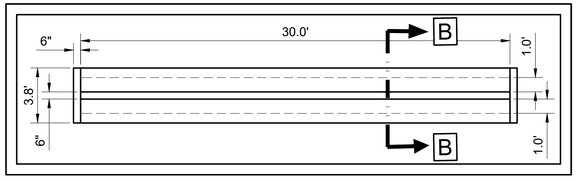
PHASE-2 POND 6 DRAINAGE AREA

SCALE: 1"=100'



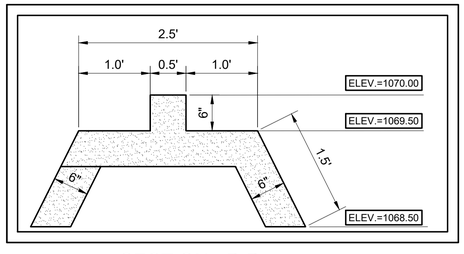
PHASE-1 POND 6

SCALE: 1"=30'



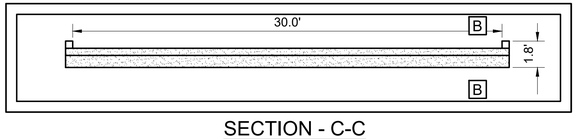
WEIR DETAIL - SECTION A-A

SCALE: 1"=5'



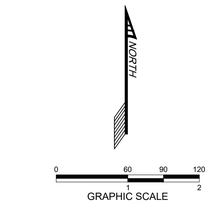
SECTION - B-B

SCALE: 1"=1'



SECTION - C-C

SCALE: 1"=1'



GRAPHIC SCALE
1" = 60'

LEGEND

PROPOSED	DESCRIPTION
S 45°56'24" W 526.54'	SUBJECT PROPERTY BOUNDARY
S XX°XX'XX" W 125.25'	ADJACENT PROPERTY LINES
	BUILDING SETBACK
	EASEMENT
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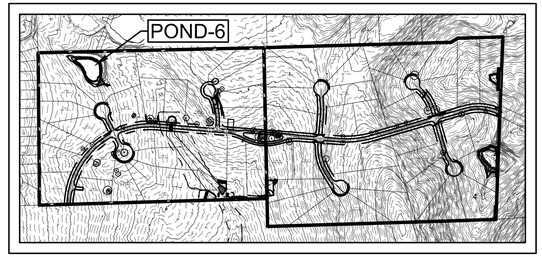
WQ Pond 6				
Elevation	Depth	Area (sf)	Cubic Feet	Cubic Feet (Cum.)
1066	0.0	0	0	0
1067	1.0	16723	16723	16723
1068	1.0	19286	19286	36009
1069	1.0	22856	22856	58865
1070	1.0	Freeboard		
		Req. Water Quality Volume=		494.00



OVERALL SITE PLAN

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CATHERINE STEVEN VENTURES, LLC

POND - 6

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 13

13 OF 18

Drawing: \\W2019a1\dt~\c\Projects\1527 - Kirby Wells\1527~100 - Hawk Ridge\Civil\Drawings\Sheets\1527~100 HawkRidge.dwg
User: ALBERTALANZ
Last Saved: Aug. 29, 25 - 14:54
Plot Date/Time: Aug. 29, 25 - 14:58:56

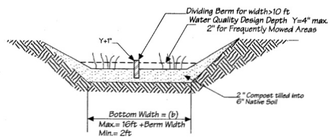
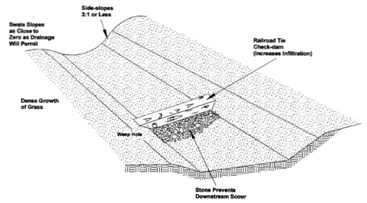


Figure 3-2 Section of a Typical Swale (King County, 1996)

(10) *Safety Considerations* – Safety is provided either by fencing of the facility or by managing the contours of the pond to eliminate dropoffs and other hazards. Earthen side slopes should not exceed 3:1 (H:V) and should terminate on a flat safety bench area. Landscaping can be used to impede access to the facility. The primary spillway opening must not permit access by small children. Outfall pipes more than 48 inches in diameter should be fenced.

3.4.5 Grassy Swales

A grassy swale is a sloped, vegetated channel or ditch that provides both conveyance and water quality treatment of stormwater runoff (Figure 3-20). Pollutant removal occurs through the processes of particle settling, adsorption, and biological uptake that occur when runoff flows over and through vegetated areas.



Source: Schueler, 1987.

Figure 3-20 Diagram of Grassy Swale with Check Dam

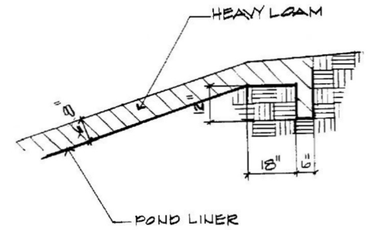


Figure 3-13 Example of Liner Installation on Earthen Slope (Courtesy COA)

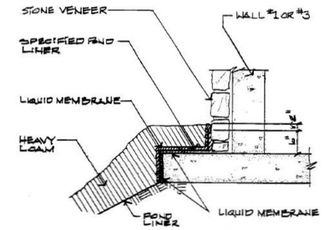


Figure 3-14 Pond Liner Attached to Exterior of Rock Wall (Courtesy COA)

Figure 3-15 presents an installation where the liner is installed prior to concrete forming. The liner is installed and keyed in above the maximum water level. The excavation is backfilled before forming and pouring the concrete.

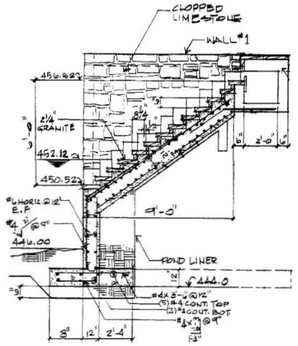


Figure 3-15 Example of Liner Installed Prior to Concrete Pour (Courtesy COA)

Water quality basins constructed on the contributing zone need not have impermeable liners, but should be built with appropriate materials to achieve desired residence times and to maintain structural integrity.

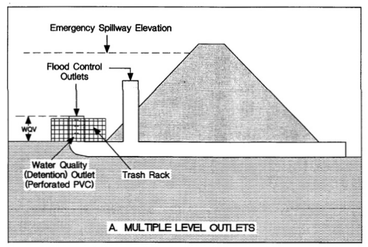


Figure 3-19 Schematic of Detention Basin Outlet Structure

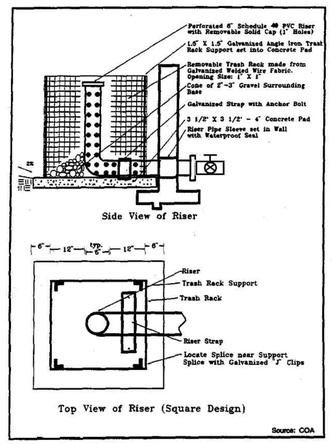


Figure 3-24 Detail of Sedimentation Riser Pipe

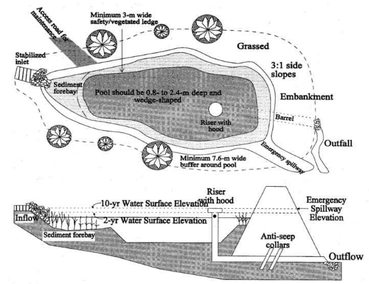


Figure 3-6 Schematic of a Wet Basin (Young et al., 1996)

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CATHERINE STEVEN VENTURES, LLC

DETAIL - 1

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET 14

14 OF 18

Drawing: \\W2019a\df-it\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug 29, 25 - 14:54
Plot Scale/Time: Aug 29, 25 - 14:59:02

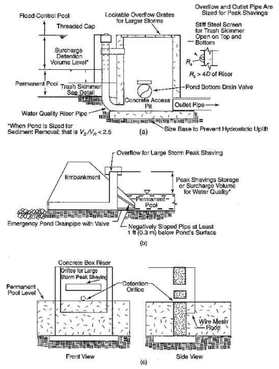


Figure 3-27 Schematic Diagrams of Wet Basin Outlets (WEF and ASCE, 1998)

Wetland Plant List

Install Bulrush in clumps, with individual plants spaced approximately three to four feet on center: At least two of the following species should be used:

BULRUSH	WATER DEPTH	NOTES
Scirpus validus, Bulrush	1' — 3'	8' tall evergreen, resists cattail encroachment
Scirpus californicus, Bulrush	1' — 3'	8' tall evergreen, resists cattail encroachment
Scirpus americanus, Three-square bulrush	2" — 6"	2' to 4' tall, w/ 3 distinct edges

At least two species of the following marsh plants should be used (additional species are encouraged). Install in clumps in shallow water, with individual plants spaced at approximately three feet on center:

MARSH DIVERSITY	WATER DEPTH	NOTES
1. Cyperus ochraeus, Flatsedge	2"—6"	1' to 2' tall, clump-forming, common to central Texas
2. Dichromena colorata, White-topped Sedge	2" —6"	1' to 2' tall, white bracts during warm season
3. Echinodorus rostratus, Burhead	3' - 1'	1' to 2' tall, annual, heart-shaped leaves, flower similar to arrowhead
4. Eleocharis quadrangulata, Four-square Spikerush	6" — 1'	1' to 2' tall, colonizes, inhabits deeper water than other Spikerushes
5. Iris Pseudacorus, Yellow Flag Iris	1' — 2'	3' to 4' tall, can be invasive, dense growth, yellow flowers
6. Junctus effusus, Soft Rush	6" — 1'	3' to 4' tall, forms a tight clump, evergreen, very attractive
7. Justicia americana, Water willow	2" — 6"	2' to 3' tall, common, white flowers, herbaceous, colonizes
8. Marsilea macropoda, Water Clover	2" — 6"	Looks like floating four-leaf clover, endemic to Texas
9. Najas guadalupensis, Water-Naiad	1' —4'	Submergent, valuable to fish and wildlife
10. Pontederia cordata, Pickerelweed	2" — 1'	3' tall, colonizes, cosmopolitan, purple flowers
11. Rhynchospora corniculata, Horned-rush	2" — 6"	2' to 3' tall, brass-colored flowers in May

Install spikerush at or near the water's edge, with individual plants spaced approximately three to six feet on center. At least two of the following species should be used:

SPIKERUSH	WATER DEPTH	NOTES
Eleocharis montevidensis, Spikerush	0" — 6"	1' tall, rhizomatous, reduces erosion at the pond edge
Eleocharis macrostachys, Spikerush	0" — 6"	1' tall, rhizomatous, reduces erosion at the pond edge
Eleocharis quadrangulata, Spikerush	3" — 1'	2' to 2.5' tall, rhizomatous, can accommodate deeper water, 4-angled

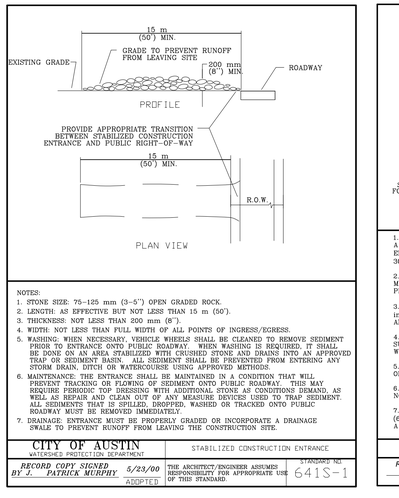
Install Arrowhead in clumps in shallow water, with individual plants spaced approximately three feet on center.

ARROWHEAD	WATER DEPTH	NOTES
Saggitaria latifolia, Arrowhead	2" — 1'	2' height, wildlife value, white flowers, proven water quality performer

Floating-leafed aquatic plants are rooted in the sediment of the pond, and have leaves that float on the surface of the water. These leaves shade the water, which limits potential algae growth. At least two of the following species should be used and should be placed at random locations throughout the pond:

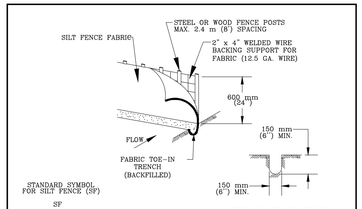
AQUATICS	WATER DEPTH	NOTES
1. Cabomba caroliniana, Fanwort	1' — 4'	Approximately 6' length underwater, submergent
2. Ceratophyllum spp., Coon-tail	1' —4'	Maximum 8' length, tolerant of turbidity and water fluctuation, wildlife food
3. Nymphaea odorata, Fanwort	6" —2'	A native, reliably hardy, floating- leaved aquatic, with white flowers
4. Potomageton pectinatus, Sago Pondweed	8" — 3'	Colonizes quickly, valuable to fish and wildlife; floating-leaved aquatic

(8) *Erosion Protection at the Outfall* – For online facilities, special consideration should be given to the facility's outfall location. Flared pipe end sections that discharge at or near the stream invert are preferred. The channel immediately below the pond outfall should be modified to conform to natural dimensions, and lined with large riprap placed over filter cloth. Energy dissipation should be used to reduce flow velocities from the primary spillway to non-erosive velocities.



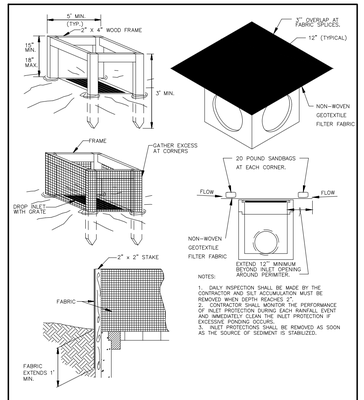
NOTES:
1. STONE SIZE: 75–125 mm (3–5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR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

CITY OF AUSTIN WATERSHEDS PROTECTION DEPARTMENT	STABILIZED CONSTRUCTION ENTRANCE	
RECORD COPY SIGNED BY J. PATRICK MURPHY 5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1



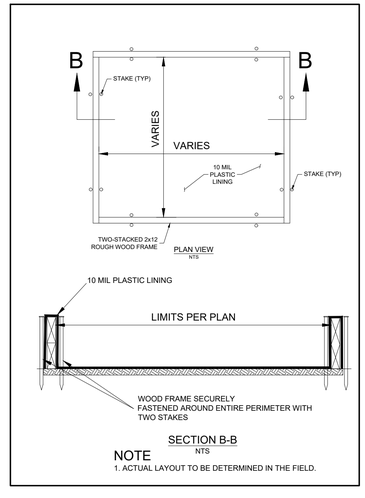
1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED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

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE	
RECORD COPY SIGNED BY MORGAN BYARS 09/01/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1



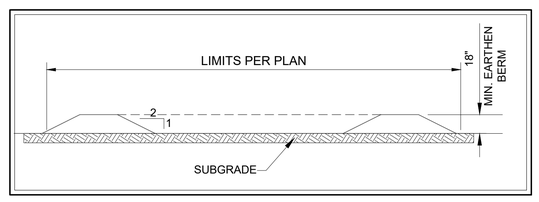
SILT FENCE INLET PROTECTION
N.T.S.

AREA INLET PROTECTION DETAIL
N.T.S.



NOTE
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.

CONCRETE WASH-OUT DETAIL
NTS



CONCRETE WASH-OUT DETAIL
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DRAWN BY: HE

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15
15 OF 18

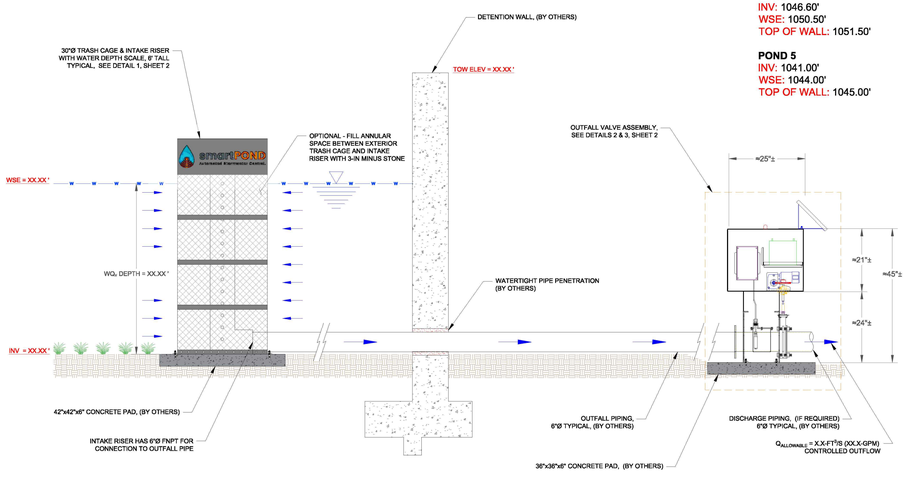
Drawing: \\W2019a\sf-it\Projects\1527 - Kirby Walk\1527-100 - Hawk Ridge\Cut\Drawings\Sheets\1527-100 Hawk Ridge.dwg
User: ALBERTALANZ
Last Modified: Aug. 29, 25 - 14:54
Plot Scale: 1.0000
Plot Date/Time: Aug. 29, 25 - 14:59:07

smartPOND OUTFALL VALVE CONFIGURED DOWNSTREAM OF VERTICAL DETENTION WALL

POND 1
INV: 1018.10'
WSE: 1022.00'
TOP OF WALL: 1023.00'

POND 3
INV: 1046.60'
WSE: 1050.50'
TOP OF WALL: 1051.50'

POND 5
INV: 1041.00'
WSE: 1044.00'
TOP OF WALL: 1045.00'



PROJECT:
HAWK RIDGE
DRIPPING SPRINGS,HAYS
COUNTY, TX 78737

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

smartPOND Automated Stormwater Control.
FOR ADDITIONAL INFORMATION CONTACT:
GREENRISE TECHNOLOGIES
629.230.2150
www.greenrisetech.com
Greenrise Technologies

smartPOND OUTFALL VALVE
DOWNSTREAM OF VERTICAL WALL CONFIGURATION

REVISION NO. 0
DATE 8/25/25
SHEET NO. 1

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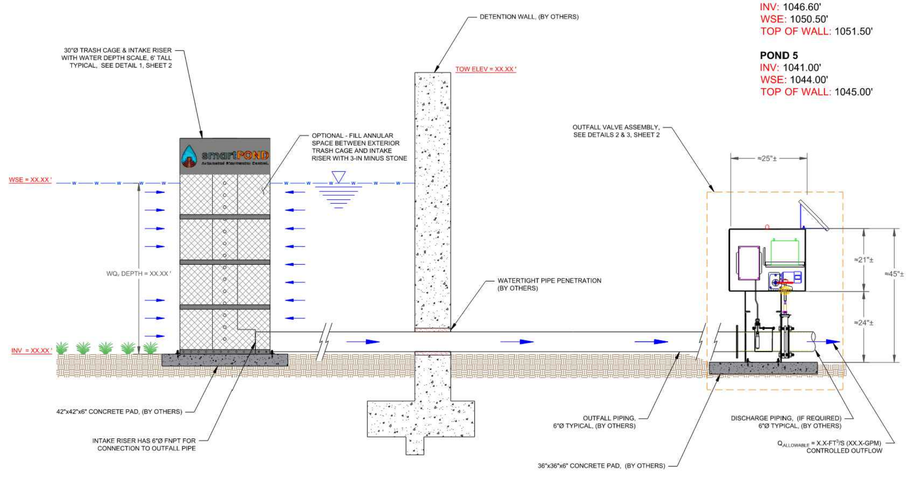

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COUNTY, TX 78737

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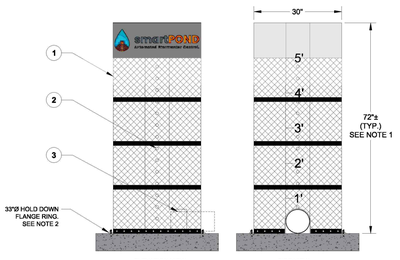
smartPOND OUTFALL VALVE
DOWNSTREAM OF VERTICAL WALL CONFIGURATION

REVISION NO. 0
DATE 8/25/25
SHEET NO. 1

DETAIL 1 - TRASH CAGE & INTAKE RISER

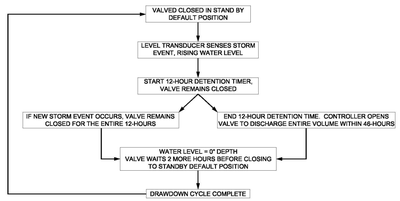


TRASH CAGE & INTAKE RISER NOTES:
1. DESIGN HEIGHT OF INTAKE TRASH CAGE AND INTAKE RISER TO MATCH REQUIRED DETENTION DEPTHS.
2. USE 4X, ⅜"Ø X 3.5" SS WEDGE ANCHOR BOLTS TO CONNECT OUTFALL ASSEMBLY TO CONCRETE PAD, 2.5" MINIMUM EMBEDMENT.

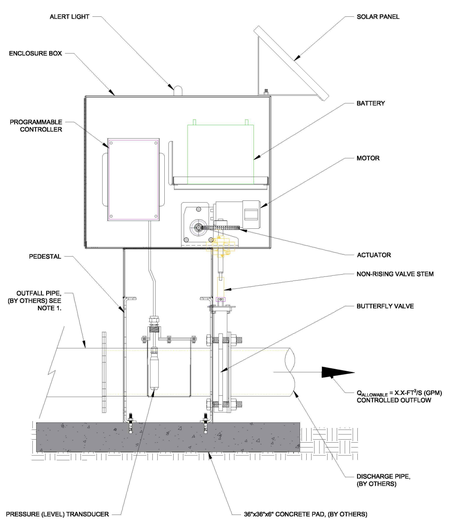
TRASH CAGE WITH INTAKE RISER - PARTS LIST

ITEM	COMPONENT DESCRIPTION
1	30"Ø CAGE WITH 1.5" GALVANIZED MESH SCREEN
2	8" SQUARE PERFORATED TUBING WITH 1"Ø PERFORATIONS, SPACED 4" ON CENTERS WITH WATER DEPTH SCALE
3	6"Ø FNPTS PROVIDED AT BOTTOM DISCHARGE OF INTAKE RISER

DETAIL 2 - PROGRAMMABLE LOGIC FLOW CHART, OUTFALL VALVE OPERATION FOR DETENTION AND/OR WATER QUALITY



DETAIL 3 - OUTFALL VALVE ASSEMBLY



OUTFALL VALVE ASSEMBLY NOTES:
1. USE ANSI 16.5B CLASS 150 FLANGES TO CONNECT OUTFALL AND DISCHARGER PIPES.
2. USE 4X, ⅜"Ø X 3.5" SS WEDGE ANCHOR BOLTS TO CONNECT OUTFALL ASSEMBLY TO CONCRETE PAD, 2.5" MINIMUM EMBEDMENT.

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smartPOND OUTFALL VALVE
OUTFALL VALVE DETAILS

REVISION NO. 0
DATE 8/25/25
SHEET NO. 2

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TDi ENGINEERING

08/29/25
STATE OF TEXAS
F.P. HOWLAND III
90451
REGISTERED PROFESSIONAL ENGINEER
FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

DETAIL - 3

PROJECT # 1527-100

ISSUE DATE 8/29/2025

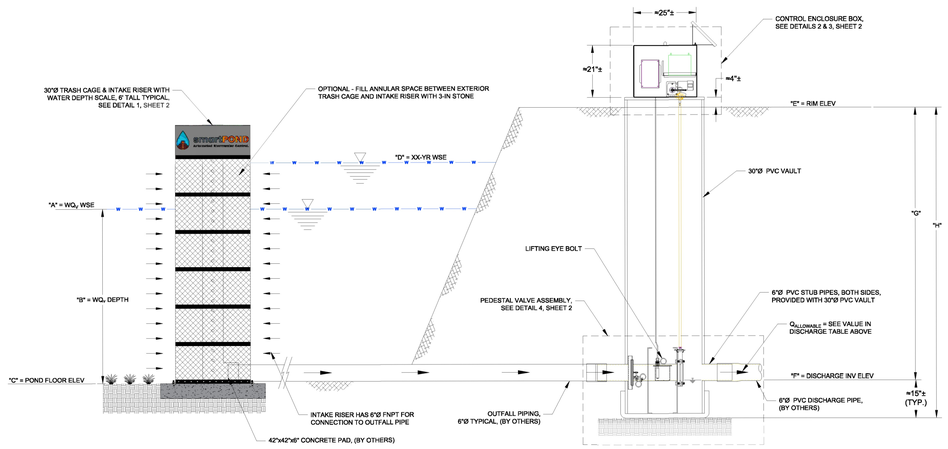
PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET
16
16 OF 18

Drawing: \\WG01fs\ydi-in\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANIZ
Last Modified: Aug 29, 25 - 14:54
Plot Scale/Time: Aug 29, 25 - 14:59:12

smartPOND™ VAULT VALVE CONFIGURED IN DETENTION EMBANKMENT

ELEVATIONS & DEPTHS		
A	WATER QUALITY BATCH SURFACE ELEVATION (WSE)	1044.00'
B	WATER QUALITY BATCH VOLUME (WQ_v) DEPTH (FEET)	3.70'
C	POND FLOOR ELEVATION (FEET)	1040.30'
E	RIM, TOP OF BERM (TOB) ELEVATION (FEET)	1045.00'
F	DISCHARGE PIPE INVERT ELEVATION (FEET)	1040.00'
G	RIM TO DISCHARGE PIPE INVERT (FEET)	5.00'
H	TOTAL DEPTH OF VAULT (FEET)	5.83'



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

PROJECT:	MODEL:		REVISION NO.
HAWK RIDGE DRIPPING SPRINGS,HAYS COUNTY, TX 78737	**VAULT VALVE** FOR BATCH DETENTION	smartPOND Automated Stormwater Control.	0 DATE 8/25/25 SHEET NO. 1

FOR ADDITIONAL INFORMATION CONTACT:
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829.230.2150
www.greenrisetech.com

smartPOND™ VAULT VALVE CONFIGURED IN DETENTION EMBANKMENT

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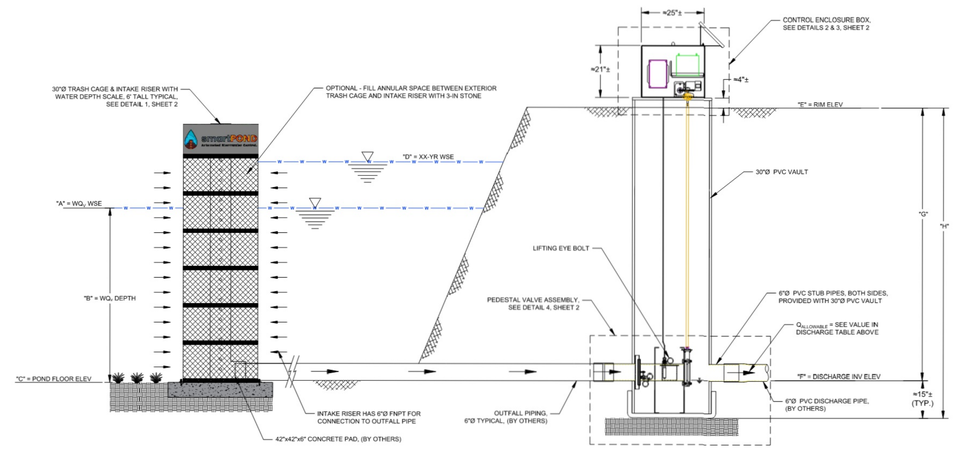

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PROJECT:	MODEL:		REVISION NO.
HAWK RIDGE DRIPPING SPRINGS,HAYS COUNTY, TX 78737	**VAULT VALVE** FOR BATCH DETENTION	smartPOND Automated Stormwater Control.	0 DATE 8/25/25 SHEET NO. 1

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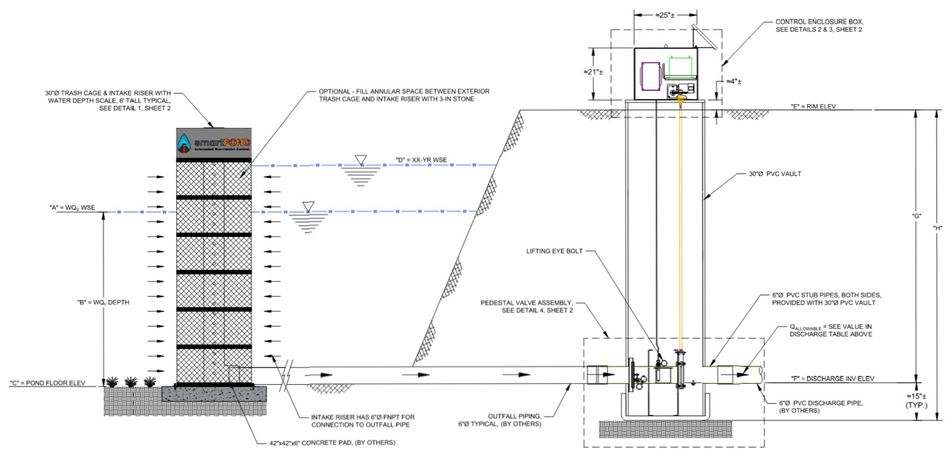

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PROJECT:	MODEL:		REVISION NO.
HAWK RIDGE DRIPPING SPRINGS,HAYS COUNTY, TX 78737	**VAULT VALVE** FOR BATCH DETENTION	smartPOND Automated Stormwater Control.	0 DATE 8/25/25 SHEET NO. 1

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FIRM REG. # F-8601

HAWK RIDGE
EVERGREEN WAY
DRIPPING SPRING, HAYS COUNTY TX. 78737

CATHERINE STEVEN VENTURES, LLC

DETAIL - 4

PROJECT # 1527-100

ISSUE DATE 8/29/2025

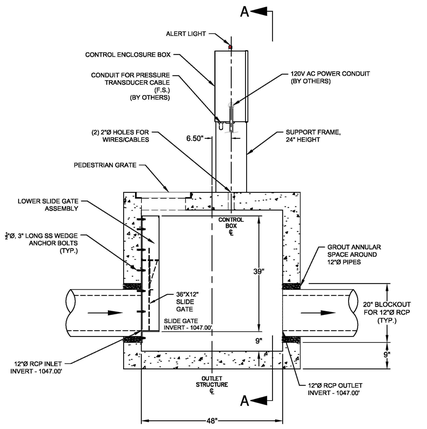
PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET
17
17 OF 18

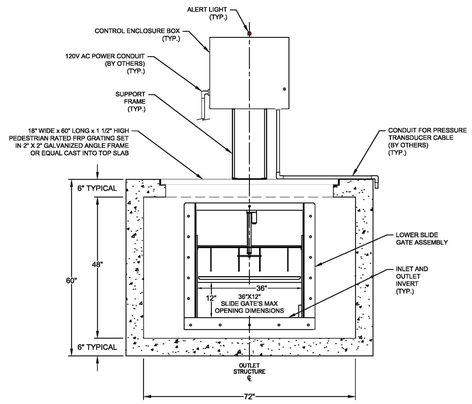
Drawing: \\WG01fs\ydl-ss\Projects\1527 - Kirby Walk\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANZ
Last Modified: Aug 29, 25 - 14:54
Plot Date/Time: Aug 29, 25 - 14:59:17

DETAIL 1 - DIMENSIONAL ELEVATION VIEW, 6' WIDE x 4' LONG x 4' TALL I.D. OUTLET STRUCTURE WITH SLIDE GATE

DESIGN NOTE: DATA ACQUISITION SYSTEM DESIGN NOT SHOWN



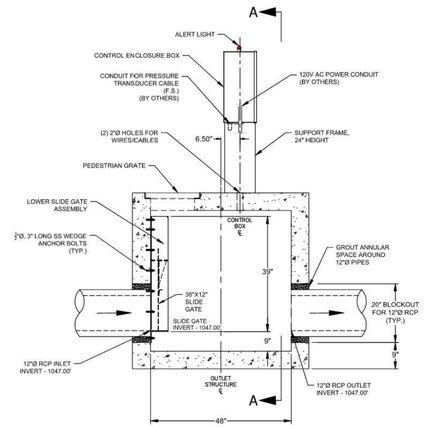
ELEVATION A-A VIEW



PROJECT:	MODEL:			REVISION NO.
HAWK RIDGE DRIPPING SPRINGS, TX	**smartPOND** **SLIDE GATE DETAILS**	CONVERGENT WATER TECHNOLOGIES	FOR ADDITIONAL INFORMATION CONTACT: CONVERGENT WATER TECHNOLOGIES 1-800-711-5428 www.convergentwater.com	0 DATE 08/24/2025 SHEET NO. 1

DETAIL 1 - DIMENSIONAL ELEVATION VIEW, 6' WIDE x 4' LONG x 4' TALL I.D. OUTLET STRUCTURE WITH SLIDE GATE

DESIGN NOTE: DATA ACQUISITION SYSTEM DESIGN NOT SHOWN



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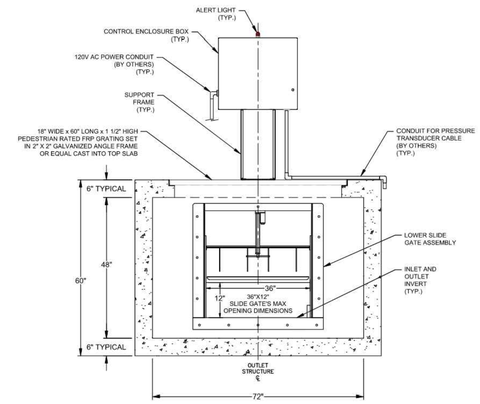
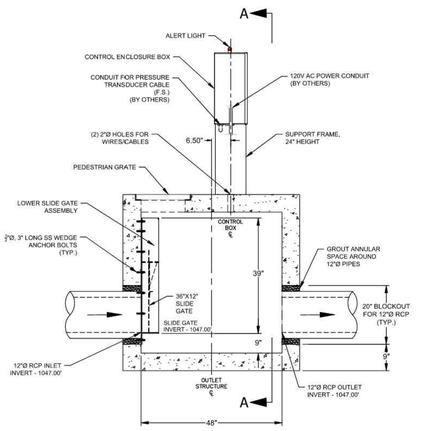


PROJECT:	MODEL:			REVISION NO.
HAWK RIDGE DRIPPING SPRINGS, TX	**smartPOND** **SLIDE GATE DETAILS**	CONVERGENT WATER TECHNOLOGIES	FOR ADDITIONAL INFORMATION CONTACT: CONVERGENT WATER TECHNOLOGIES 1-800-711-5428 www.convergentwater.com	0 DATE 08/24/2025 SHEET NO. 1

DETAIL 1 - DIMENSIONAL ELEVATION VIEW, 6' WIDE x 4' LONG x 4' TALL I.D. OUTLET STRUCTURE WITH SLIDE GATE

DESIGN NOTE: DATA ACQUISITION SYSTEM DESIGN NOT SHOWN



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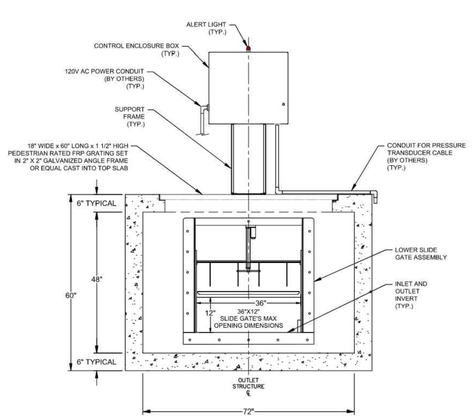

PROJECT:	MODEL:			REVISION NO.
HAWK RIDGE DRIPPING SPRINGS, TX	**smartPOND** **SLIDE GATE DETAILS**	CONVERGENT WATER TECHNOLOGIES	FOR ADDITIONAL INFORMATION CONTACT: CONVERGENT WATER TECHNOLOGIES 1-800-711-5428 www.convergentwater.com	0 DATE 08/24/2025 SHEET NO. 1

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DETAIL - 4

PROJECT # 1527-100

ISSUE DATE 8/29/2025

PROJECT MGR: TH
DESIGNER: JS
DRAWN BY: HE

SHEET
18
18 OF 18

Drawing: \\W2019a\tdi-llc\Projects\1527 - Kirby Walls\1527-100 - Hawk Ridge\Civil\Drawings\Sheets\1527-100 HawkRidge.dwg
User: ALBERTALANIZ
Last Modified: Aug. 29, 25 - 14:54
Plot Scale/Time: Aug. 29, 25 - 14:59:22