WTCPUA 1420 ELEVATED STORAGE TANK #2

TCEQ EAPP CZP MODIFICATION

Prepared for:

West Travis County Public Utility Agency
13215 Bee Cave Parkway, Building B, Suite 110
Scottsdale, Arizona 85260

Prepared by:

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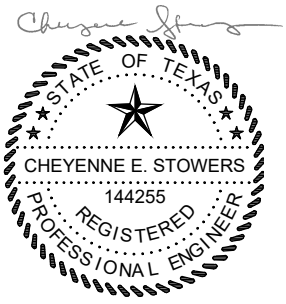

03/18/25

March 2025

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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:					**2. Regulated Entity No.:** 110034741				
3. Customer Name: West Travis County Public Utility Agency					**4. Customer No.:** 604021980				
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):**		1.0	
9. Application Fee:	$4,000.00		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Travis		**14. Watershed:**			Little Barton Creek			

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	_1_	___
Region (1 req.)	___	_1_	___
County(ies)	___	_1_	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	_1_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. Cheyenne Stowers, P.E.
Print Name of Customer/Authorized Agent  03/18/25
Signature of Customer/Authorized Agent Date

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

Contributing Zone Plan Application

Texas Commission on Environmental Quality

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

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

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

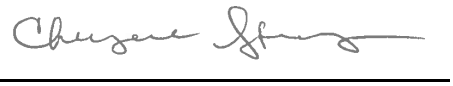
Signature

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

Print Name of Customer/Agent: Cheyenne Stowers, P.E.

Date: 03/18/25

Signature of Customer/Agent:



Regulated Entity Name: Travis County MUD 22 Elevated Storage Tank (NAME TO BE UPDATED - SEE CORE DATA FORM)

Project Information

1. County: Travis
2. Stream Basin: Little Barton Creek Watershed
3. Groundwater Conservation District (if applicable): _____
4. Customer (Applicant):

   Contact Person: Jennifer Riechers
   Entity: West Travis County Public Utility Agency.
   Mailing Address: 13215 Bee Cave Parkway, Bldg B, Suite 110
   City, State: Bee Cave, Texas Zip: 78738
   Telephone: 512-263-0100 Fax: _____
   Email Address: jriechers@wtcpua.org

5. Agent/Representative (If any):

   Contact Person: Cheyenne Stowers
   Entity: Murfee Engineering Co., Inc.
   Mailing Address: 1101 Capital of Texas Hwy. S., D110
   City, State: Austin, Texas Zip: 78746
   Telephone: 512-327-9204 Fax: 512-327-2947
   Email Address: cstowers@murfee.com

6. Project Location:

   ☐ The project site is located inside the city limits of _____.
   ☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
   ☒ 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.

   Located at 17420 Hamilton Pool Road, Austin, Tx

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

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

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

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

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

11. Existing project site conditions are noted below:

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

☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Not cleared)
☒ Other: Existing Water Storage Facility

12. The type of project is:

☐ Residential: # of Lots: _____
☐ Residential: # of Living Unit Equivalents: _____
☐ Commercial
☐ Industrial
☒ Other: Utility - Water Storage Tank

13. Total project area (size of site): 1.0 Acres

Total disturbed area: 0.66 Acres

14. Estimated projected population: 0

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

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	***Sq. Ft.***	***Sq. Ft./Acre***	***Acres***
Structures/Rooftops	3,777	÷ 43,560 =	0.09
Parking	3,261	÷ 43,560 =	0.07
Other paved surfaces		÷ 43,560 =	
Total Impervious Cover	7,038	÷ 43,560 =	0.16

Total Impervious Cover 0.16 **÷ Total Acreage** 1.00 **X 100 =** 16.2**% Impervious Cover**

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

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

For Road Projects Only

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

☐ N/A

18. Type of project:

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

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

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

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

Length of R.O.W.: _____ feet.
Width of R.O.W.: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

21. Pavement Area:

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

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

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

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☒ N/A

26. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the _____ (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" = 20'.

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): Travis County FIRM Panel 48453C0395J, effective 01/22/20.

36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

    ☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.

38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

39. ☒ Areas of soil disturbance and areas which will not be disturbed.

40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

41. ☒ Locations where soil stabilization practices are expected to occur.

42. ☐ Surface waters (including wetlands).

    ☒ N/A

43. ☐ Locations where stormwater discharges to surface water.

    ☒ There will be no discharges to surface water.

44. ☐ Temporary aboveground storage tank facilities.

    ☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.

☒ Permanent aboveground storage tank facilities will not be located on this site.

46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

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

47. ☐ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

☒ N/A

48. ☐ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

☐ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.

☐ N/A

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

☒ N/A

50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.

☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.

☒ The site will not be used for low density single-family residential development.

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

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

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

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

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

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

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

    ☐ N/A

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

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

☐ N/A

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

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

    ☒ N/A

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

    ☒ N/A

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

    ☐ N/A

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

59. ☐ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

60. ☐ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development,

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

Administrative Information

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

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

63. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

☐ The Temporary Stormwater Section (TCEQ-0602) is included with the application.

CZP APPLICATION ATTACHMENTS

ATTACHMENTS A & B: Attachments are at the end of this section.

ATTACHMENT C – PROJECT NARRATIVE

The West Travis County Public Utility Agency (WTCPUA) is proposing the construction of an elevated storage tank on their 1420 Water Storage Facility site. The property is located at 17420 Hamilton Pool Road and is adjacent to the Provence Phase 1, Section 7 Subdivision. This property is 2.54 acres in size and is split into two tracts. Tract 1 is 1.0 acre and Tract 2 is 1.54 acres. Existing structures on site include a pump station, two ground storage tanks, and an elevated storage tank. The proposed second elevated storage tank will be constructed within Tract 1. No improvements are proposed within Tract 2. The property was originally owned by Masonwood HP, LTD (CN605356674). The CZP was approved with the regulated entity name of Travis County MUD 22 Elevated Storage Tank (RN110034741). It was later transferred to the WTCPUA (CN604021980).

A Contributing Zone Plan (CZP) was approved in 2018 (EAPP ID No. 11000917) for waterline improvements, an elevated storage tank, and an access drive on the 1420 Tract 1 site. An interim vegetative filter strip (VFS) was approved at that time and it was noted that a permanent water quality BMP was to be provided by the adjacent Provence Subdivision. In 2020 a site plan update was submitted and approved by the TCEQ for the construction of a ground storage tank. Since the change in impervious cover was only increasing from 10.2 percent to 10.9 percent a modification was not required. The interim VFS was still being utilized at that point in time. In 2021 a CZP was approved for the Provence Phase 1, Section 7 subdivision (EAPP ID No. 11002470). This plan included the use of an extended detention pond and VFS to fulfill water quality requirements. These water quality improvements were constructed in 2021.

The modification is to account for the impacts of the additional impervious cover by the proposed elevated storage tank.

ATTACHMENT D – FACTORS AFFECTING SURFACE WATER QUALITY

During construction, the potential for sediment runoff during a storm event is the main factor that would affect surface water quality. The temporary controls put in place prior to initiation of construction and maintained throughout the construction period until the site is stabilized will protect any receiving stream from construction sediment.

ATTACHMENT E – VOLUME AND CHARACTER OF STORMWATER

Three drainage areas convey the vast majority of stormwater runoff associated with the property. The southern drainage area discharges into the Tract 2 portion of the 1420 property. The northern drainage areas discharge into the adjacent Provence Subdivision. This runoff is conveyed via curb and gutter to inlets which is then discharged into an extended detention pond.

The proposed improvements are within the boundaries of the northern drainage areas. These areas drain into the Provence Phase 1, Section 7 Subdivision stormsewer system and discharge into an extended detention pond located south of the intersection of Lavonde Dr. and Angelique Dr. The southern drainage area does not differ from its existing condition, and no development is currently proposed in

this area of the site. The increase in flows were calculated using the rational method and the City of Austin Atlas 14, Zone 1 parameters.

Discharge from the northern drainage areas is conveyed via curb and gutter to inlets within the Provence subdivision. Inlet and storm sewer sizing calculations were performed to determine whether the increase in flow coming from the 1420 site would impact the capacity of these structures. Referencing the Provence Phase 1, Section 7 construction plans, inlet and storm sewer calculations were analyzed under existing conditions. Proposed conditions were modeled by adding the increase in flow from the 1420 site to the existing flows going into the inlets and storm sewers. The calculations show that there is sufficient capacity in the inlets and storm sewer to convey the additional flow created by the proposed impervious cover from this project.

The SCS curve number method and HEC-HMS, version 4.10, were used to assess the impact of the flow increase on the pond. The model was run under a pre-developed and proposed scenario. Results from this analysis show that the additional flow from the 1420 site does not impact the overall pond capacity and that the total discharge is still significantly less than pre-developed conditions.

Pre- and post-runoff coefficients for the 0.4 and 0.01 annual exceedance probability (AEP) events provided in the following table.

Runoff Coefficient, C	AEP	
	0.4 (25 yr)	.01 (100 yr)
Pre-Project	0.43	0.51
Post-Project	0.46	0.53

ATTACHMENTS F-I: NOT APPLICABLE

ATTACHMENTS G&H: NOT APPLICABLE

ATTACHMENT J – BMPs FOR UPGRADIENT STORMWATER
Stormwater from upgradient areas will be directed around the disturbance by temporary control such as silt fence and diversion berms. Ultimately, upgradient areas will be intercepted by the water quality pond within the adjacent Provence Subdivision.

ATTACHMENT K - BMPs FOR ON-SITE STORMWATER
Stormwater runoff consists of sheet flow to silt fence used as a temporary BMP during construction. Stormwater will be conveyed offsite to the water quality pond within the adjacent Provence Subdivision.

ATTACHMENT L – BMPs FOR SURFACE STREAMS
The temporary controls are essential for protection of the surface streams. Once stabilization occurs, the potential for release of sediment from the site to surface streams is eliminated.

ATTACHMENT M – CONSTRUCTION PLANS

Plans are provided separate from this document. The plans contain all calculations, grading, notes, and details for the proposed site civil improvements.

ATTACHMENT N – INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

Not Applicable – offsite BMPs are within the Provence Subdivision and will be maintained by the subdivision.

ATTACHMENT O – NOT APPLICABLE

ATTACHMENT P – MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

See discussion for Attachments K and L.

ATTACHMENT A – ROAD MAP

WEST TRAVIS COUNTY P.U.A.

1420 ELEVATED STORAGE TANK #2

17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

SCALE: 1"=500'

ATTACHMENT B
USGS QUADRANGLE MAP

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

The National Map US Topo

SHINGLE HILLS 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, September 2016 - November 2016
Roads..... U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

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

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

SCALE 1:24 000

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

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Spicewood
2 Pace Bend
3 Mansfield Dam
4 Hammetts Crossing
5 Bee Cave
6 Henly
7 Dripping Springs
8 Signal Hill

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

SHINGLE HILLS, TX
2022

NSN 7643016398257
NGA REF NO. USGSX24K41096

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Cheyenne Stowers, P.E.

Date: 03/18/25

Signature of Customer/Agent:

Project Information

1. Current Regulated Entity Name: PROPOSED NAME: WTCPUA 1420 Water Storage Facility
   Original Regulated Entity Name: Travis County MUD No. 22 Offsite Waterline & Elevated Storage Tank
   Assigned Regulated Entity Number(s) (RN): 110034741
   Edwards Aquifer Protection Program ID Number(s): 11000917
   ☐ The applicant has not changed and the Customer Number (CN) is: _____
   ☒ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.

2. ☒ **Attachment A: Original Approval Letter and Approved Modification Letters**. A copy of the original approval letter and copies of any modification approval letters are attached.

3. A modification of a previously approved plan is requested for (check all that apply):

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

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

CZP Modification Summary	***Approved Project***	***Proposed Modification***
Acres	1.0	1.0
Type of Development	Utility - Water Storage	Utility - Water Storage
Number of Residential Lots	0	0
Impervious Cover (acres)	.102	0.162
Impervious Cover (%)	10.2	16.2
Permanent BMPs	0	0
Other	____	____

AST Modification Summary	***Approved Project***	***Proposed Modification***
Number of ASTs	0	0
Other	____	____

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

5. ☒ **Attachment B: Narrative of Proposed Modification**. A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including previous modifications, and how this proposed modification will change the approved plan.

6. ☒ **Attachment C: Current Site Plan of the Approved Projec**t. A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
   - ☒ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
   - ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
   - ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
   - ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
   - ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.

7. ☒ Acreage has not been added to or removed from the approved plan.
   ☐ Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.

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

CZP MODIFICATION ATTACHMENTS

ATTACHMENT A: ORIGINAL APPROVALS

COPY

R-11

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 18, 2018

Mr. Jim Meredith
Masonwood HP, LTD
1004 Mopac Circle, Suite 201
Austin, Texas 78746

Re: Edwards Aquifer: Travis County
NAME OF PROJECT: Travis County MUD 22 Elevated Storage Tank; Located NW of Crumley Ranch Road and Hamilton Pool Road; Travis County, Texas
TYPE OF PLAN: Request for Approval of Contributing Zone Plan (CZP);
30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer
Edwards Aquifer Protection Program ID No. 11000917; RN110034741

Dear Mr. Meredith:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP Application for the above-referenced project submitted to the Austin Regional Office by LJA Engineering, Inc. on behalf of Masonwood HP, LTD. on November 13, 2017. Final review of the CZP was completed after additional material was received on January 5, and 12, 2018. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213 Subchapter B. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed project, Travis County MUD No.22 is located within the Edwards Aquifer Contributing Zone. Although the total project area is 1 acre, the limits of construction consists of 8.3 acres which includes a temporary construction easement. This project adds 0.102 (10.2% of the one acre site) acres or 4,432 square feet of impervious cover for water line improvements. Specifically, this project will create 707 square feet of impervious cover comprised of structures/rooftops, and 3,725 square feet of other paved surfaces. Temporary Best Management Practices (BMPs) will be maintained to minimize sediment discharges and other pollutants until construction is

COPY

In addition to the described activities, temporary erosion and sedimentation controls will be installed prior to commencing site disturbance and maintained during construction. Project wastewater will be disposed of by conveyance to the existing Travis County MUD No. 22 Waste Water Treatment Plant (WWTP).

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater, surface water will be conveyed to an interim vegetated filter strips (VFS), designed using the TCEQ technical guidance document, "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)", will be used. The proposed interim VFS will be replaced by a permanent Water Quality Basin (Wet Pond) once the subdivision is constructed. Treatment design calculations were sealed by Daniel Ryan, P.E. on January 2, 2018 to demonstrate that the proposed treatment load removal meets the required treatment load removal.

SPECIAL CONDITIONS

I. Additional phases of this development will require approval of a CZP or CZP Modification as applicable prior to conducting additional regulated activities on the site.

II. All sediment and/or media removed during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated

activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.

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

<u>During Construction:</u>

8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
10. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
11. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
12. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
13. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
14. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and

COPY

approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

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

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

Sincerely,

Robert Sadlier,
Water Section Team Leader
Austin Region Office
Texas Commission on Environmental Quality

CSS/aki

COPY

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

cc: The Honorable Sarah Eckhardt, County Judge, Travis County Courthouse
Mr. Daniel Ryan, P.E., LJA Engineering, Inc., 5316 US Highway 290 West, Suite 150
Austin, Texas 78735

ATTACHMENT B – PROJECT NARRATIVE

This modification is to account for additional impervious cover that will be added to the West Travis County Public Utility Agency (WTCPUA)1420 Water Storage Facility site for the construction of a second elevated storage tank.

The proposed tank will be constructed on Tract 1 of the 1420 property. It will be 38 feet in diameter and have a footprint of 1,135 square feet. Total impervious cover on Tract 1 will increase from 10.9 percent to 16.2 percent. The additional impervious cover will include the tank, access driveway, and splashpad. The overflow splashpad directs flow away from the tank and onto the asphalt driveway, erosion will be mitigated with the installation of rock riprap at the point of discharge. An underground waterline will be extended to the tank from existing infrastructure. An existing fire hydrant is located near the northeast access gate, next to the existing access drive. All disturbed areas will be revegetated.

A regional drainage analysis was conducted by LJA in 2018 for the entirety of the adjacent Provence subdivision. The report was updated in 2020 by LJA to reflect the NOAA Atlas 14 changes to the City of Austin drainage policy. The regional detention pond for the entire subdivision was designed to account for fully developed off-site conditions with an impervious cover percentage set at 15 percent by LJA. The overall impervious cover percentage of the drainage basin leaving the 1420 site is 11 percent and since it does not deviate from the watershed analysis assumptions, the report validates that these improvements will not have an adverse effect on stormwater discharge from the overall site. In addition to the regional drainage assessment, a localized analysis was conducted to confirm the capacity of the stormsewer infrastructure within Phase 1, Section 7 of the Provence development. Water quality is treated through the extended detention pond within Phase 1, Section 7 of the Provence subdivision.

A Contributing Zone Plan (CZP) was approved in 2018 (EAPP ID No. 11000917) for waterline improvements, an elevated storage tank, and access drive on the 1420 Tract 1 site. An interim vegetative filter strip (VFS) was approved at that time, and it was noted that a permanent water quality BMP was to be provided by the adjacent Provence Subdivision. In 2020 a site plan update was submitted and approved by the TCEQ for the construction of a ground storage tank. Since the change in impervious cover was only increasing from 10.2 percent to 10.9 percent a modification was not required. The interim VFS was still being utilized at that point in time.

In 2021 a CZP was approved for the Provence Phase 1, Section 7 subdivision (EAPP ID No. 11002470). This plan included the use of an extended detention pond and VFS to fulfill water quality requirements. The extended detention pond was planned to treat the runoff from the 1420 Water Storage Facility site. The approval states that a total removal of 6,834 pounds of total suspended solids (TSS) must be met. The total removed by the BMPs was calculated to be 9,721 pounds. These water quality improvements were constructed in 2021. Using the TCEQ loading spreadsheet, it was determined that the 1420 site would contribute 96 additional pounds of TSS that must be removed. The total required removal would increase to 6,930 pounds, which is still significantly less than the actual removal of 9,721 pounds. Therefore, water quality will be sufficiently treated, and no adverse impacts downstream are to be expected.

The table below provides an impervious cover summary from the original 2018 approval through this proposed modification.

Approved IC In 2018 (sf)	Approved SPU IC In 2020 (sf)	Proposed IC 2025 Mod. (sf)	Total IC (sf)	Total IC (ac)
4,432	336	2,270	7,038	0.16

Impervious = 0.16/1.0 = 16.2% (Original Approved Impervious = 10.2%)

ATTACHMENT C

APPROVED SITE PLAN
PROPOSED SITE PLAN: SEE SWPPP

N

0 40 80
20 60

SCALE: 1"=40'

LEGEND

- PROPERTY BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING TREE
- XX EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FENCE
- BENCHMARK

BENCHMARKS:

TBM #1
FIRE HYDRANT
TOP OF BOLT, TOP FLANGE, SOUTH SIDE - NEXT TO 'M' MADE IN USA AS SHOWN HEREON.
ELEV. = 1244.68'

TBM #2
"[]" CUT ON TOP OF WATER VAULT - NORTHWEST CORNER AS SHOWN HEREON.
ELEV. = 1241.51'

TBM #3
"[]" CUT ON CONCRETE MIDDLE OF GARAGE DOOR, EXISTING WATER TOWNER AS SHOWN HEREON.
ELEV. = 1246.14'

TBM #4
COTTON GIN SPINDLE FOUND IN 12" LIVE OAK AS SHOWN HEREON.
2020 ELEV. = 1248.16'
(2005 ELEV. = 1248.32')

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP'D DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

EXISTING CONDITIONS

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-3204
Texas Registered Engineering Firm F-353

DESIGNED BY:	CES
DRAWN BY:	MRS
CHECKED BY:	JKB
APPROVED BY:	CES
DATE:	3/14/2025
FILE NO.	1420 - EST - EXISTING.dwg LAYOUT: EXISTING CONDITIONS
JOB NO.	11051-111
SHEET NO.	4 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - EXISTING.dwg / LAYOUT: EXISTING CONDITIONS

WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY
1420 ELEVATED STORAGE TANK #2

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

STORMWATER POLLUTION PREVENTION PLAN

MARCH 2025

Prepared for:
West Travis County Public Utility Agency
12117 Bee Cave Road, Building 3, Suite 120
Bee Cave, Texas 78738

Prepared by:
Murfee Engineering Co., Inc.
1101 Capital of Texas Hwy. South, D-110
Austin, Texas 78746
(512) 327-9204

Texas Registered Engineering Firm F-353

Operator	NOI Submitted (Mail or STEERS)	TPDES Permit Number
West Travis County Public Utility Agency		

TABLE OF CONTENTS

I. STORMWATER POLLUTION PREVENTION PLAN

A. GENERAL PROJECT AND SITE INFORMATION

1. Project Name: WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY 1420 ELEVATED STORAGE TANK #2

2. Location: The proposed project is the construction of an additional elevated storage tank on an existing 1.0-acre Water Storage Facility site, located at 17420 Hamilton Pool Road, Austin Tx.

3. Primary Facility Operators:

   West Travis County Public Utility Agency
   c/o Jennifer Riechers – WTCPUA General Manager
   12117 Bee Cave Road, Building 3, Suite 120
   Bee Cave, Texas 78738
   (512) 263 - 0100

   CONTRACTOR (not known at this time)

   Secondary Facility Operators: None known

4. Property Owners: West Travis County Public Utility Agency
   c/o Jennifer Riechers – WTCPUA General Manager
   12117 Bee Cave Road, Building 3, Suite 120
   Bee Cave, Texas 78738
   (512) 263 - 0100

5. Project Description: The primary purpose of this project is the construction of an additional elevated storage tank on the existing site. The proposed tank will be 38 feet in diameter and have a footprint of 1,135 square feet. Total impervious cover on Tract 1 will increase from 10.9 percent to 16.2 percent. The additional impervious cover will include the tank, access driveway, and splashpad. The overflow splashpad directs flow away from the tank and onto the asphalt driveway, erosion will be mitigated with the installation of rock riprap at the point of discharge. An underground waterline will be extended to the tank from existing infrastructure. An existing fire hydrant is located near the northeast access gate, next to the existing access drive. All disturbed areas will be revegetated in accordance with Travis County requirements.

6. Potential Pollutants and Post Construction Stormwater Quality: Potential pollutants include silt from construction disturbance. No other significant potential pollutants are anticipated on site. Post development stormwater quality will be excellent due to stabilization of disturbed areas and existing permanent BMPs offsite**.**

7. Site Area: The overall site is 1.0 acres with a disturbance of 0.66 acres. The overall topography in the area of construction is a gentle slope across the site with slopes generally in the 0-10% category.

8. Drainage/BMPs: The project lies in the Little Barton Creek watershed. Extensive use of erosion controls will be utilized throughout the site. Essential to controlling fugitive sediment is minimizing the area of disturbance at any one time. Construction will be sequenced to achieve this goal. Proposed drainage patterns, construction sequencing, and temporary erosion controls can be find in the WTCPUA 1420 Elevated Storage Tank #2 Site Plan.

9. Existing Soils: Four soil types occur on the property based upon data obtained from the NRCS web soil survey site. Represented Series include:
   - Volente Silty Clay Loam, 1 to 8 percent slopes,
   - Brackett-Rock Outcrop-Complex, 1 to 12 percent slopes,
   - Eckrant Very Stony Clay, 5 to 18 percent slopes

   The majority, approximately 90 percent being Eckrant.

10. Location of Receiving Waters: This project drains off the property in a northwest direction and discharges into the storm sewer system of the adjacent Provence subdivision.

11. Offsite Operations: Excess or unsuitable material disposal will be the responsibility of the CONTRACTOR. The CONTRACTOR shall be independently responsible as an OPERATOR for obtaining necessary permits in conjunction with the lawful offsite disposal of spoil material or acquisition of borrow material.

12. Sequence of Construction:

- 48 hours prior to beginning any work, call texas excavation system at 1-800-344-8377 for utility locations.
- install temporary erosion controls and tree/natural area protection fencing prior to pre- construction meeting.
- notify Travis County, owner, and engineer for a pre-construction meeting at least 3 days prior to the meeting date.
- rough grade the access drives
- begin installation of underground utilities and tank. Restore as much disturbed area as possible.
- regrade to subgrade.
- ensure all underground utility crossings are completed. lay first course base for all access drives
- lay final base course on all streets.
- lay asphalt.
- complete permanent erosion controls and restoration of site vegetation
- remove and dispose of temporary erosion controls.
- complete any necessary final dress up.

B. POLLUTION PREVENTION CONTROLS

The goal of these controls is to retain sediment on site to the extent practicable. All control measures must be properly selected, installed and maintained in accordance with the manufacturers' specifications and good engineering practices.

The Site Plan depicts controls and any adjacent waterways. The contractor staging areas and spoils sites will be located within the disturbed areas upstream of silt fence. The area to be disturbed will be limited to the minimum necessary to complete the improvements.

1. Stabilization Controls:

   Stabilization controls are detailed on the construction plans.

2. Best Management Practices (Structural):

   a. Temporary Best Management Practices:

A stabilized construction entrance will be placed as shown on the Site Plan and silt fences will be constructed at the downstream edge of disturbed areas. The CONTRACTOR will install the erosion/sedimentation controls prior to the start of any construction and will be responsible for maintaining the erosion control measures during construction. If at some point during the project, an Operator/CONTRACTOR(S) contract is complete, then all responsibilities will return first to any remaining Operator/ CONTRACTORS and then to the Owner/Operator if there are no remaining Operator/CONTRACTORS. Refer to the Site Plan for the locations of such controls.

b. Permanent Best Management Practices:

The permanent best management practices for this site consist of permanent stabilization of disturbed areas.

3. Other Controls:

- Waste Disposal: All construction-related waste materials will be collected and stored at a temporary material or spoil disposal site. No solid materials, including building materials, shall be discharged into receiving waters.
- Sanitary Waste: Portable units will be placed on site during construction and waste will be collected and disposed of in accordance with state and local regulations.
- Off-site Vehicle Tracking: A stabilized construction entrance will be provided at the entry location to the site. This entrance will be maintained, and any sediment deposited onto adjacent streets will be removed. Vehicles leaving the site will be washed, as required.
- Dust Control: The Contractor is required to control dust on the project site through mulching or spraying water on the disturbed soils that are generating dust as necessary to control the problem.
- Dewatering: If standing water needs to be pumped or channeled on the project site, the Contractor is required to direct the water to existing temporary erosion controls or to install appropriate controls as necessary.
- Litter, construction debris, and chemicals: Contractors will be required to maintain as clean a work site as appropriate. Litter and debris will be picked up on a scheduled

basis and the generation of dust shall be minimized. All placement of emulsions, asphalt, etc. are to be placed only during suitable weather conditions. Periods of rainfall are not suitable for the placement of such materials.

- Flushing Hyper-chlorinated Water Lines – The contractor must use a chlorine diffuser to de-chlorinate water flushed from water lines and aquatic life must not be expected to be adversely affected by such water discharged.

4. Timing of Controls and Measures: Erosion and sediment structural control measures will be in place prior to clearing, grading or construction of any portion of the site. Construction phasing may occur, but in all instances erosion and sedimentation control measures will be in place in those areas prior to start of construction. Disturbed areas will be restored as described under Stabilization Practices and/or Permanent Erosion Control. Temporary erosion and sediment controls will be removed only after all disturbed areas have been restored.

5. Non-Storm Water Discharges: The following non-storm water discharges may occur from the site during the construction period. All non-storm water discharges will be directed to the Best Management Practices.

- Uncontaminated fire hydrant flushings (excludes discharges of hyper-chlorinated water, unless water the water is first de-chlorinated and discharges are not expected to adversely affect aquatic life), which include flushings from systems that utilize potable water, surface water, or groundwater that does not contain additional pollutants (uncontaminated fire hydrant flushings do not include systems utilizing reclaimed wastewater as a source water),
- Water from the routine external washing of vehicles, the external portion of buildings or structures, and pavement, where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, or dust;
- Uncontaminated water used to control dust;

- Potable water sources including waterline flushings (excluding discharges of hyper-chlorinated water, unless the water is first de-chlorinated and discharges are not expected to adversely affect aquatic life);
- Uncontaminated air conditioning condensate;
- Uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents; and
- Irrigation drainage.
- Concrete Truck Wash Out – Authorization is limited to land disposal of wash out water from concrete trucks that are associated with off-site production facilities if the following conditions are met by the CONTRACTOR: Notify inspector of location of wash out area and jointly select required BMPS. Wash out area is shown on the Site Plan. Direct discharge to surface water, including storm sewers is prohibited. Wash water shall be discharged to areas of the construction site where structural controls have been established to prevent discharge to surface waters or to areas with minimal slope that allow infiltration and filtering. Wash out of trucks during rainfall events shall be minimized. The wash water shall not cause or contribute to groundwater contamination.

C. INSPECTION, MAINTENANCE AND RECORD KEEPING

1. Inspection Practices:

   If the Owner/Operator does not designate or provide an agent to perform the required inspections and prepare and distribute the inspection reports, the CONTRACTOR(S) are each responsible for this task. If at some point during the project, an Operator/ CONTRACTOR(S) contract is complete, then all responsibilities will return first to any remaining Operator / CONTRACTORS and then to the Owner/Operator if there are no remaining Operator/ CONTRACTORS.

   The inspector agent(s) that perform the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. See *Appendix D, Inspector Qualifications / Inspector Authorization.*

- The controls should be in good repair and functioning so that sediment and other potential pollutants remain on-site. Areas to be inspected include disturbed areas of the construction site that have not been finally stabilized, areas used for storage or materials that are exposed to precipitation, discharge locations, structural controls and locations where vehicles enter and exit the site. Sediment basins/traps shall be inspected for sediment buildup and when it reaches one-foot, basins shall be cleaned.
- Owner/Operator or the CONTRACTORS (the entity who is providing the inspector) must choose one of the following inspection schedules to remain in compliance with the permit **(Inspection Schedule 'B' has been chosen**):

  (a) Inspections must be conducted at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of ½ inches or greater. Please note that the 14-calendar day schedule does not restart when a storm event inspection is required.

  (b) Inspections must occur at least once every 7-calendar days regardless of when the last rainfall occurred, prior to predicted rainfall events, and within 24-hours of a storm event of ½ inches or greater.
- In the event of flooding or other uncontrollable situations that prohibit site access, inspections must be conducted as soon as practicable. Where sites have been finally or temporarily stabilized, where runoff is unlikely due to winter conditions inspections must be conducted once per month and during seasonal arid periods in arid and semi-arid areas, inspections must be conducted once every month and within 24 hours of the end of a storm event of ½ inches or greater.
- The designated inspector must prepare a written report for each inspection in accordance with the permit rules. Inspection reports must be distributed to all Primary and Secondary Operators. Sample inspection and maintenance forms are included in Appendix A.
- If the designated inspector or Operator determines that field conditions indicate that modifications to the plan are required, then such changes must be documented and indicated on a copy of the Site Plan that is kept at the designated location. A description of the need for modified controls shall be outlined on the appropriate inspection and maintenance report form. Necessary modifications to the plan and controls shall be completed within seven days following inspection.

2. Maintenance/Repairs:

- Repairs will be made to damaged areas as soon as practicable, preferably before the next anticipated storm event, after damage is discovered but no later than seven days after the inspection. If completion of the repairs before the next anticipated storm event is impracticable, the reason shall be documented in the SWPPP and maintenance scheduled ASAP. If controls have been intentionally disabled, run-over, removed or otherwise rendered ineffective, repairs must ensue immediately upon discovery. Records of repairs shall be recorded as part of the inspections on appropriate forms.
- The CONTRACTOR(S)/Operator will be responsible for ensuring maintenance of the erosion and sedimentation controls as described under Section B Part 2(a). If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.
- Built-up sediment will be removed once it has reached a maximum depth of six inches at silt fences and rock berms.

3. Record Keeping:

Records of all components of the SWPPP including inspection, maintenance and plan modification forms, information used to complete the NOI form, and records of submittal of forms submitted to the MS4 or Secondary Operator, if any, should be retained for three (3) years after the date of final stabilization by all Primary and Secondary Operators. The CONTRACTOR(S) should keep the SWPPP and records of the construction activity on the site if possible or in the location posted on their Site Notice. The following dates should be recorded in the inspections reports in particular:

- The dates when major grading activities occur in a particular area.
- The dates when construction activities cease in an area, temporarily or permanently.
- The dates when an area is stabilized, temporarily or permanently.

D. ON-SITE MATERIALS AND SPILL CONTROL

1. Material Inventory: The materials or substances listed below may be present onsite during construction:

- Concrete and concrete products
- Metal reinforcing materials – rebar, welded wire fabric
- Wood
- Paint
- Petroleum based products
- Plastic (PVC, HDPE) and metal pipe and fittings
- Rock, gravel, sand, and soil.

2. Material Management Practices: The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff:

   a. Good Housekeeping: The following good housekeeping practices will be followed onsite during the construction project:
      - An effort will be made to store only enough product required to do the job.
      - All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers.
      - Materials will be stored in the temporary materials stockpile area as shown on the Site Plan, or an area as may be approved by the Owner and Engineer and appropriately shown on the map.
      - Products will be kept in their original containers with the original manufacturers' labels.
      - Whenever possible, all of a product will be used before disposing of the container.
      - Manufacturers' recommendations for proper use and disposal will be followed.
      - The Contractor will inspect daily to ensure proper use and disposal of materials onsite.

   b. Hazardous Products: These practices are used to reduce the risks associated with hazardous materials (if applicable):
      - Products will be kept in original containers unless they are not re-sealable.

- Original labels and material safety data will be retained, as they contain important product information.
- If surplus product must be disposed of, manufacturers' or local and state recommended methods for proper disposal will be followed.

c. The following product specific practices will be followed onsite:

- Petroleum Products: All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any asphaltic substances used onsite will be applied according to the manufacturers' recommendations.
- Fertilizers: Fertilizers will be applied only in the minimum amounts recommended by the manufacturer or as otherwise indicated on the plans. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The contents of any partially used bags of fertilizer will be stored in a manner so as to avoid spills.
- Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system, but will be properly disposed of according to manufacturers' instructions or state and local regulations.

3. Spill Control Practices: In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Site personnel will be made aware of the manufacturers' recommended methods for spill cleanup and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept onsite in an accessible location known to site personnel.
- All spills will be immediately contained. The spilled substance and contaminated soil will then be removed and disposed of properly using approved emergency response methods.

4. Releases of Reportable Quantities (RQ): EPA has issued regulations that define what reportable quantity levels are for oil and hazardous substances. These regulations can be found at 40 CFR Part 110. 40 CFR 117, or 40 CFR Part 302. The TCEQ has issued similar regulations under 30 TAC Chapter 327. If there is an RQ release during the construction period, then the following steps must be taken:

- For quantities less than the reportable quantity* – The contractor will contain and isolate the spilled substance. The remaining spilled substance and contaminated soil will be removed and disposed of properly.

- For quantities more than the reportable quantity* – The contractor will contain and isolate the spilled substance in accordance with 30 TAC Chapter 327. The contractor will then contact the appropriate spill response team and the TCEQ Austin Regional Office (512) 339-2929 or the State Emergency Response Center at 1 (800) 832-8224 and the National Response Center immediately at (800) 424-8802. The remaining spilled substance and contaminated soil will be removed and disposed of in an appropriate manner using approved emergency response methods. The proper authorities shall be kept informed during the cleanup process. Within 14 days, modify the SWPPP with a written description of the release providing the date and circumstances of the release and the steps to be taken to prevent another release.

* Reportable quantity (RQ) is defined in 30 TAC Chapter 327. The RQ for petroleum products, oil, and industrial solid waste are shown below. For hazardous substances see 30 TAC Chapter 327.4 and 40 CFR Chapter 302.4.

The RQ for *oil, petroleum product and used oil* is as follows:

(1) The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:
   (A) for spills or discharges onto land – 210 gallons (five barrels); or
   (B) for spills or discharges directly into water in the state – quantity sufficient to create a sheen.

(2) The RQ for petroleum product or used oil shall be:
   (A) except as noted under (B) below, for spills or discharges onto land – 25 gallons;
   (B) for spills or discharges to land from PST exempted facilities – 210 gallons (five barrels); or
   (C) for spills or discharges directly into water in the state – quantity sufficient to create a sheen.

The RQ for spills or discharges into water in the state for *industrial solid waste or other substances* shall be 100 pounds.

E. STATE AND LOCAL REQUIREMENTS

The storm water pollution prevention plan complies with the requirements of the Texas Commission on Environmental Quality and Travis County.

F. ADDITIONAL GENERAL PERMIT REQUIREMENTS

1. All requirements of the general construction permit attached under *Appendix C* shall be followed.

2. The permittee must post the NOI form and Construction Site Notice near the main entrance of the construction site.

3. A copy of the SWPPP must remain at the designated location on the NOI form unless impracticable.

4. If the storm water discharge from this project enters a Municipal Separate Storm Sewer System (MS4), the MS4 must be notified of the project. The discharge does enter an MS4. . (Date Mailed - TBD)

5. If relevant information provided in the NOI changes, a NOC (Notice of Change) must be submitted at least 14 days before the change occurs, if possible and must be provided to the MS4 as well.

6. Upon final stabilization or change in operator status, a NOT (Notice of Termination) form must be submitted to the TCEQ and the MS4. (A copy of the NOT is located at the end of the General Permit under *Appendix C* to this report.) If the termination is due to a transfer of operational control, the original Operator must notify, or attempt to notify, the new Operator of the requirement to obtain permit coverage. Record of this notification or attempt at notification must be retained in the SWPPP records.

7. Edwards Aquifer: If the operator is required to gain approval from the TCEQ for a Water Pollution Abatement Plan or Contributing Zone Plan, a copy of that plan must be readily available upon request. The NOI form or Site Notice must be submitted to the appropriate TCEQ field office.

G. POLLUTION PREVENTION PLAN CERTIFICATION

I 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 gathered and evaluated 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Property Owner/Facility Operator:

By: Jennifer Riechers General Manager 3/14/25
(Name) Title Date

Printed Name: Jennifer Riechers
Company: West Travis County Public Utility Agency
Address: 13215 Bee Cave Parkway, Bld B, Suite 110
Bee Cave, Texas 78738

H. SUB-CONTRACTORS' CERTIFICATION

(Have all Contractors that disturbs soil at the project site who did not submit an NOI or post a Site Notice sign this form)

I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Sub-Contractors:

By:_____ _____
(Name) Title Date

Printed Name:_____

Company:_____

Address:_____

_____

By:_____ _____
(Name) Title Date

Printed Name:_____

Company:_____

Address:_____

_____

H. SUB-CONTRACTORS' CERTIFICATION (Cont.)

I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Sub-Contractors:

By:_____ _____
(Name) Title Date

Printed Name:_____

Company:_____

Address:_____

_____

By:_____ _____
(Name) Title Date

Printed Name:_____

Company:_____

Address:_____

_____

By:_____ _____
(Name) Title Date

Printed Name:_____

Company:_____

Address:_____

II. APPENDIX A

CONSTRUCTION INSPECTION FORMS

STORMWATER INSPECTION REPORT
Site-specific BMPs

- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

General Information		
Project Name		
TPDES Tracking No.		**Location:**
Date of Inspection		
Inspector's Name(s)		
Inspector's Title(s)		
Inspector's Contact Information		
Inspector's Qualifications		
Describe present phase of construction		
Type of Inspection: ☐ Weekly ☐ Final Inspection		
Weather Information		
Has there been a storm event since the last inspection? ☐Yes ☐No **If yes, provide:** Approximate Amount of Precipitation (in):		
Weather at time of this inspection? ☐ Clear ☐Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐Other:		
Are there any discharges at the time of inspection? ☐Yes ☒No **If yes, describe:**		

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	Stabilized Construction Entrance	☐Yes ☐No ☐ N/A	☐Yes ☒No	Access is from adjacent construction site.
2	Staging Area	☐Yes ☐No ☐ N/A	☐Yes ☐No	
3	Silt Fence	☐Yes ☐No ☐ N/A	☐Yes ☐No	
4	Inlet Protection	☐Yes ☐No ☐ N/A	☐Yes ☐No	
5	Rock Berm	☐Yes ☐No ☐ N/A	☐Yes ☐No	
6	Outfalls	☐Yes ☐No ☐ N/A	☐Yes ☐No	Site sheet flows to the south.

Overall Site Issues

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes ☐No ☐N/A	☐Yes ☐No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	☐Yes ☐No ☐N/A	☐Yes ☐No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	☐Yes ☐No ☐N/A	☐Yes ☐No	
4	Are discharge points and receiving waters free of any sediment deposits?	☐Yes ☐No ☐N/A	☐Yes ☐No	
5	Are storm drain inlets properly protected?	☐Yes ☐No ☐N/A	☐Yes ☐No	
6	Is the construction exit preventing sediment from being tracked into the street?	☐Yes ☐No ☐N/A	☐Yes ☐No	
7	Is trash/litter from work areas collected and placed in appropriate containers?	☐Yes ☐No ☐ N/A	☐Yes ☐No	
10	Are materials that are potential storm water contaminants stored inside or under cover?	☐Yes ☐No ☐N/A	☐Yes ☐No	
11	Are non-storm water discharges (e.g., wash water, dewatering) properly controlled?	☐Yes ☐No ☐N/A	☐Yes ☐No	
12	(Other)	☐Yes ☐No ☐N/A	☐Yes ☐No	

II. APPENDIX B

CERTIFIED NOTICES OF INTENT

OWNER/OPERATOR

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
COMPANY: HAYS COUNTY	DATE:
PHONE NUMBER: FAX NUMBER:	E-MAIL:
TOTAL NO. OF PAGES INCLUDING COVER:	RE: MS4 OPERATOR NOTIFICATION

☐ AS YOU REQUESTED ☒ FOR YOUR USE ☐ PLEASE COMMENT ☐ PLEASE REPLY

This letter is to notify you that the project described on the attached TPDES form is located within your MS4 system as required by the General Construction Permit (TXR150000 effective March 5, 2018). Approval of an Edwards Aquifer Contributing Zone Plan has been requested for this project. Please call if you have any questions or need additional information.

OWNER/OPERATOR

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
COMPANY: CITY OF DRIPPING SPRINGS	DATE:
PHONE NUMBER: FAX NUMBER:	E-MAIL:
TOTAL NO. OF PAGES INCLUDING COVER:	RE: MS4 OPERATOR NOTIFICATION

☐ AS YOU REQUESTED ☒ FOR YOUR USE ☐ PLEASE COMMENT ☐ PLEASE REPLY

This letter is to notify you that the project described on the attached TPDES form is located within your MS4 system as required by the General Construction Permit (TXR150000 effective March 5, 2018). Approval of an Edwards Aquifer Contributing Zone Plan has been requested for this project. Please call if you have any questions or need additional information.

OWNER/OPERATOR

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
COMPANY: TCEQ FIELD OFFICE	DATE:
PHONE NUMBER: 512-339-2929 FAX NUMBER:	E-MAIL:
TOTAL NO. OF PAGES INCLUDING COVER: __	RE: TPDES CONSTRUCTION GENERAL PERMIT

☐ AS YOU REQUESTED ☒ FOR YOUR USE ☐ PLEASE COMMENT ☐ PLEASE REPLY

This letter is to notify you that an NOI form has been submitted to the TCEQ and a Large Construction Site Notice is being posted at the project site described on the attached TPDES form as required by the General Construction Permit (TXR150000 effective March 5, 2018). Approval of an Edwards Aquifer Contributing Zone plan has been requested for this project. Please call if you have any questions or need additional information.

II. APPENDIX C

TPDES General Permit for Storm Water Discharges from Construction Activities

II. APPENDIX D

Inspector Qualifications/Authorization

INSPECTOR QUALIFICATIONS
FOR THE
TPDES CONSTRUCTION GENERAL PERMIT

(INSPECTOR TO BE DETERMINED)

INSPECTOR AUTHORIZATION

I, _____, certify that qualified inspectors employed or contracted by _____, are designated as authorized representatives that can perform the site inspections for our projects and execute inspection forms as required by the TPDES Construction General Permit TXR1500000. I understand that my company, as the project Operator, is responsible for maintaining and repairing erosion controls as noted on the inspection reports and that failure to do so could possibly result in enforcement action from the Texas Commission on Environmental Quality or the Environmental Protection Agency.

_____ _____

Signature Date

_____ _____

Printed Name Title

II. APPENDIX E

TCEQ CONTRIBUTING ZONE PLAN APPROVAL LETTER

III. EXHIBIT A

PROJECT LOCATION/ROAD MAP

WEST TRAVIS COUNTY P.U.A.

1420 ELEVATED STORAGE TANK #2

17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

SCALE: 1"=500'

III. EXHIBIT B

DRAINAGE AREA MAP

N

0 30 60
15 45

SCALE: 1"=30'

LEGEND

- PROPERTY BOUNDARY
- DRAINAGE BOUNDARIES
- A10 / XX — DRAINAGE AREA W/ ACREAGE
- FLOW PATH
- FLOW ARROW
- 715 — EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP.DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

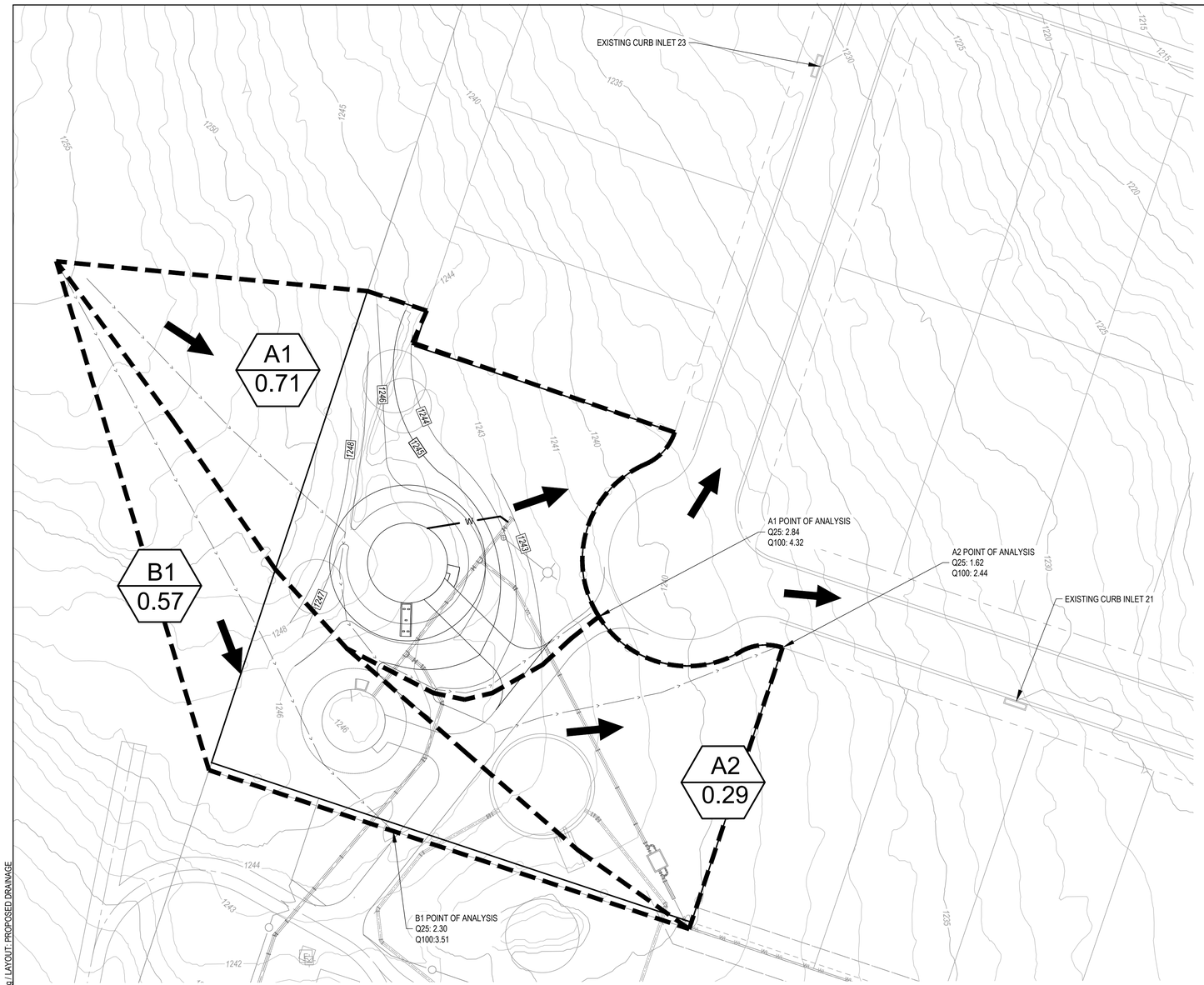
EXISTING DRAINAGE

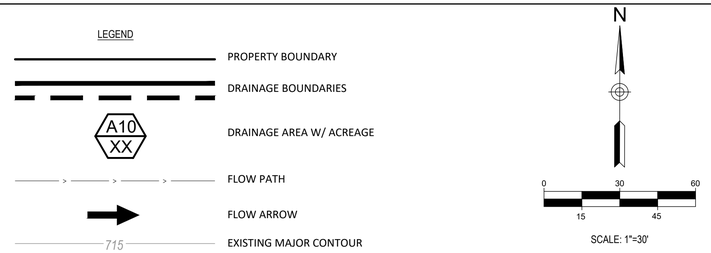
STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY:	CES
DRAWN BY:	MRS
CHECKED BY:	JKB
APPROVED BY:	CES
DATE:	3/14/2025
FILE NO.	1420 - EST - DRAINAGE.dwg LAYOUT: EXISTING DRAINAGE
JOB NO.	11051-111
SHEET NO.	8 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - DRAINAGE.dwg / LAYOUT: EXISTING DRAINAGE





PROJECT: WTPCUA 1420 EST

CALCULATION OF IMPERVIOUS COVER

Condition	Area	Total Area (Sf)	Total Area (Ac)	Imperv. Cover (Sf)	Imperv. Cover (Ac)	Imperv. Cover (%)
Existing	A1	28754	0.66	45	0.00	0.16%
Existing	A2	14896	0.34	2,630	0.06	17.66%
Existing	B1	24839	0.57	2,093	0.05	8.43%

Condition	Area	Total Area (Sf)	Total Area (Ac)	Imperv. Cover (sf)	Imperv. Cover (Ac)	Imperv. Cover (%)
Proposed	A1	30835	0.71	2,366	0.05	7.7%
Proposed	A2	12807	0.29	2,579	0.06	20.1%
Proposed	B1	24839	0.57	2,093	0.05	8.4%
	TOTAL	68481	1.57	7,038	0.16	10.28%

NOTE:
1. DRAINAGE AREAS A1 AND A2 WERE INCLUDED IN THE PROVENCE PHASE 1 SECTION 7 SUBDIVISION DRAINAGE ANALYSIS AND DESIGN.
2. DA A1 IS CONVEYED TO EXISTING CURB INLET 23 AND DA A2 IS CONVEYED TO EXISTING CURB INLET 21, WHICH THEN DISCHARGE INTO AN EXTENDED DETENTION POND. SEE SHEET 10. INLETS, STORM SEWER, AND POND WERE RE-ANALYZED WITH THE ADDED FLOW COMING OFF OF DRAINAGE AREAS A1 AND A2 TO CONFIRM CAPACITY.
3. NO IMPROVEMENTS WERE PROPOSED IN DRAINAGE AREA B1, THEREFORE NO CHANGE IN FLOW PATTERN OR RATE.

TIME OF CONCENTRATION - EXISTING

Dmg Area	Elev1	Elev2	L (ft)	S (ft/ft)	Flow Type	n	Vel (fps)	t(c)
A1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1241	219	0.050	SCF-U	-	3.6	1.0
							Total (min):	9.8
A2	1248	1244	100	0.040	Sheet	0.200	-	8.4
	1244	1238.5	133	0.041	SCF-U	-	3.3	0.7
							Total (min):	9.0
B1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1244.5	216	0.035	SCF-U	-	3.0	1.2
							Total (min):	10.03

TIME OF CONCENTRATION - PROPOSED

Dmg Area	Elev1	Elev2	L (ft)	S (ft/ft)	Flow Type	n	Vel (fps)	t(c)
A1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1243.5	190	0.045	SCF-U	-	3.4	0.9
	1243.5	1241	62	0.040	SCF-P	-	4.1	0.3
							Total (min):	10.0
A2	1243	1241.5	50	0.030	Sheet	0.200	-	5.4
	1241.5	1238.5	78	0.038	SCF-U	-	3.2	0.4
							Total (min):	5.8
B1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1244.5	216	0.035	SCF-U	-	3.0	1.2
							Total (min):	10.03

EXISTING - RUNOFF COEFFICIENT CALCULATIONS

AREA	TOTAL (SF)	TOTAL (ACRES)	% IMP. COVER	IMPERV. (ACRES)	PERVIOUS (ACRES)	2 YEAR	10 YEAR	25 YEAR	100 YEAR
A1	28,754	0.66	0.2%	0.00	0.66	0.29	0.35	0.39	0.46
A2	14,896	0.34	17.7%	0.06	0.28	0.37	0.43	0.47	0.55
B1	24,839	0.57	8.4%	0.05	0.52	0.33	0.39	0.43	0.50

PROPOSED - RUNOFF COEFFICIENT CALCULATIONS

AREA	TOTAL (SF)	TOTAL (ACRES)	% IMP. COVER	IMPERV. (ACRES)	PERVIOUS (ACRES)	2 YEAR	10 YEAR	25 YEAR	100 YEAR
A1	30,835	0.71	7.7%	0.05	0.65	0.32	0.39	0.43	0.50
A2	12,807	0.29	20.1%	0.06	0.23	0.38	0.44	0.49	0.56
B1	24,839	0.57	8.4%	0.05	0.52	0.33	0.39	0.43	0.50

100 YR. INLET CALCULATIONS - EXISTING CONDITIONS

INLET	DRNG AREA	Q	Q PASS	TOTAL Q	SLOPE	a	ST. WIDTH	Yo	PONDED	R.F.	Qa/La	La	LENGTH	L/La	a/Yo	Q/Qa	Q	Q(PASS)
		(CFS)	(CFS)	(Qa)	(FT/FT)	(FT)	(FT)	(FT)	WIDTH(FT)	(%)		(FT)	(FT)			FIG 4-11	(CFS)	
IN23	DA23	13.96	0	14.0	0.0728	0.42	28	0.38	7.7	0	0.85	16.4	10	0.6	1.1	1	14.0	0
IN21	DA21	9.28	0.0	9.3	0.0646	0.42	28	0.34	6.3	0	0.80	11.6	10	0.9	1.2	1	9.3	0

100 YR. INLET CALCULATIONS - PROPOSED CONDITIONS

INLET	DRNG AREA	Q	Q PASS	TOTAL Q	SLOPE	a	ST. WIDTH	Yo	PONDED	R.F.	Qa/La	La	LENGTH	L/La	a/Yo	Q/Qa	Q	Q(PASS)
		(CFS)	(CFS)	(Qa)	(FT/FT)	(FT)	(FT)	(FT)	WIDTH(FT)	(%)		(FT)	(FT)			FIG 4-11	(CFS)	
IN23	DA23	14.53	0	14.5	0.0728	0.42	28	0.39	7.9	0	0.86	17.0	10	0.6	1.1	1	14.5	0
IN21	DA21	9.33	0.0	9.3	0.0646	0.42	28	0.34	6.4	0	0.80	11.6	10	0.9	1.2	1	9.3	0

NOTE: A1 AND A2 ARE WITHIN THE PROVENCE SUBDIVISION DRAINAGE AREAS 23 & 21.

STORM SEWER CALCULATIONS

EXISTING CONDITIONS	Q	V	D
SS-23	13.96	15.75	0.75
SS-21	9.28	13.39	0.62
PROPOSED CONDITIONS	Q	V	D
SS-23	14.53	15.91	0.77
SS-21	9.33	13.41	0.62

EXISTING - CALCULATION OF STORMWATER RUNOFF

AREA	AC	t(c) (min.)	C(2)	I(2)	Q(2)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
A1	0.66	9.84	0.29	5.09	0.98	0.35	7.70	1.78	0.39	9.45	2.44	0.46	12.33	3.75
A2	0.34	9.05	0.37	5.25	0.66	0.43	7.95	1.18	0.47	9.76	1.58	0.55	12.73	2.39
B1	0.57	10.03	0.33	5.05	0.94	0.39	7.65	1.70	0.43	9.39	2.30	0.50	12.24	3.51

PROPOSED - CALCULATION OF STORMWATER RUNOFF

AREA	AC	t(c) (min.)	C(2)	I(2)	Q(2)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
A1	0.71	10.01	0.32	5.05	1.16	0.39	7.65	2.09	0.43	9.39	2.84	0.50	12.25	4.32
A2	0.29	5.80	0.38	6.06	0.68	0.44	9.22	1.20	0.49	11.31	1.62	0.56	14.77	2.44
B1	0.57	10.03	0.33	5.05	0.94	0.39	7.65	1.70	0.43	9.39	2.30	0.50	12.24	3.51

SUMMARY OF FLOW INCREASES

AREA	2-YR	10-YR	25-YR	100-YR
A1	0.18	0.31	0.40	0.57
A2	0.01	0.03	0.03	0.05
B1	0.00	0.00	0.00	0.00

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP.DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

PROPOSED DRAINAGE

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025

FILE NO. 1420 - EST - DRAINAGE.dwg
LAYOUT: PROPOSED DRAINAGE

JOB NO. 11051-111

SHEET NO. 9 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - DRAINAGE.dwg / LAYOUT: PROPOSED DRAINAGE

LEGEND

- PROPERTY BOUNDARY
- DRAINAGE BOUNDARIES
- A10 / XX — DRAINAGE AREA W/ ACREAGE
- FLOW PATH
- FLOW ARROW
- 715 — EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 840 — PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

N

0 100 200
50 150

SCALE: 1"=100'

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009 **Project Name: 1420 EST**
Date Prepared: 2/25/2025

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

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

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

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

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

County =	Travis	
Total project area included in plan * =	1.00	acres
Predevelopment impervious area within the limits of the plan * =	0.11	acres
Total post-development impervious area within the limits of the plan* =	0.16	acres
Total post-development impervious cover fraction * =	0.16	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	44	lbs.

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

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

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

Drainage Basin/Outfall Area No. = A

Total drainage basin/outfall area =	1.00	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.11	acres
Post-development impervious fraction within drainage basin/outfall area =	0.11	
$L_{M\ THIS\ BASIN}$ =	96	lbs.

NOTE:
1. PER THE 2021 PROVENCE PHASE 1, SECTION 7 APPROVED CONTRIBUTING ZONE PLAN (EAPP ID NO. 11002470):
   REQUIRED LM TOTAL PROJECT = 6834 LBS
   PROVIDED LR TOTAL PROJECT = 9721 LBS
2. THE PROPOSED IMPROVEMENTS WILL INCREASE REQUIRED LOADING BY 96 LBS. THE PROVIDED REMOVAL WILL REMAIN THE SAME:
   REQUIRED LM TOTAL PROJECT = 6930 LBS
   PROVIDED LR TOTAL PROJECT = 9721 LBS

CALCULATION OF PROPOSED FULL POND VOLUME

ELEVATION	AREA (sq.ft.)	AVG. AREA	ELEV2 - ELEV1	VOL. (cf)	CUMULATIVE VOL. C.F.	CUMULATIVE VOL. AC-FT
1,190.0	65,581	-	-	-	0	0.000
1,191.0	74,485	70,033	1.0	70,033	70,033	1.608
1,192.0	83,389	78,937	1.0	78,937	148,970	3.420
1,193.0	93,469	88,429	1.0	88,429	237,399	5.450

HEC-HMS INPUT DATA

AREA	FREQUENCY				
	AC	SQ MI	CN	IC	T(LAG)
ED-1 (Pre-Developed)	36.48	0.0570	79.4	0.0%	10.0
ED-1 (Proposed)	36.48	0.0570	79.4	29.9%	8.2

HEC-HMS OUTPUT DATA

AREA	FREQUENCY			
PREDEVELOPED CONDITIONS	2-YR	10-YR	25-YR	100-YR
ED-1	83.8	167.0	225.9	323.6
PROPOSED CONDITIONS	2-YR	10-YR	25-YR	100-YR
ED-1	109.9	198.4	260.0	362.2
Detention Pond El.	1191.0	1191.6	1191.9	1192.5
Detention Pond	65.0	135.3	182.5	266.9

NOTE:

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NO.	DESCRIPTION	BY	DATE	APPROVED	APPDATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

OVERALL DRAINAGE AND WATER QUALITY

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025

FILE NO. 1420 - EST - DRAINAGE.dwg LAYOUT: OVERALL DRAINAGE
JOB NO. 11051-111
SHEET NO. 10 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - DRAINAGE.dwg / LAYOUT: OVERALL DRAINAGE

III. EXHIBIT C

TCEQ-TPDES SITE PLAN

N

0 20 40
10 30

SCALE: 1"=20'

LEGEND

- PROPERTY BOUNDARY
- PROPOSED ACCESS ROAD
- LOC LOC LIMITS OF CONSTRUCTION
- EASEMENT
- EXISTING LOT LINE
- EXISTING TREE
- EXISTING FENCE
- EXISTING WATERLINE

NORTHING AND EASTING TABLE

POINT #	NORTHING	EASTING
1	10079514.9510	3022081.4584
2	10079514.6701	3022059.4664
3	10079543.5752	3022030.0353
4	10079516.0440	3022008.8625
5	10079515.8935	3022014.1460
6	10079533.4721	3022020.2308
7	10079501.1408	3022052.9272
8	10079481.0955	3022054.4947
9	10079548.7393	3022037.2113

WTCPUA 1420 - TRACT 1

	EXISTING		PROPOSED	
	SQFT	AC	SQFT	AC
SITE AREA	43,544	1.00	43,544	1.00
IMPERVIOUS STRUCTURES	2,560	0.06	3,777	0.09
IMPERVIUOS DRIVEWAY	2,208	0.05	3,261	0.07
TOTAL IMPERVIOUS	4,768	0.11	7,038	0.16
TOTAL IC PERCENT	10.9%		16.2%	

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP.DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

SITE PLAN

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025

FILE NO. 1420 - EST - SITE DIMENSION.dwg
LAYOUT: SITE PLAN

JOB NO. 11051-111

SHEET NO. 5 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - SITE DIMENSION.dwg / LAYOUT: SITE PLAN

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

I Jennifer Riechers,
Print Name

WTCPUA General Manager,
Title - Owner/President/Other

of West Travis County Public Utility Agency,
Corporation/Partnership/Entity Name

have authorized Cheyenne Stowers, P.E.
Print Name of Agent/Engineer

of Murfee Engineering
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:

* Jennifer Riechers 2/13/25
Applicant's Signature Date

THE STATE OF Texas §

County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Jennifer Riechers 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 13 day of February, 2025

Melissa Morales
NOTARY PUBLIC

MELISSA MORALES
Notary Public, State of Texas
Comm. Expires 05-16-2026
Notary ID 129822637

Melissa Morales
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 5/16/2026

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: WTCPUA 1420 Water Storage Facility
Regulated Entity Location: 17420 Hamilton Pool Road, Austin, Texas
Name of Customer: West Travis County Public Utility Agency
Contact Person: Jennifer Riechers Phone: 512-263-0100
Customer Reference Number (if issued):CN 604021980
Regulated Entity Reference Number (if issued):RN 110034741

Austin Regional Office (3373)

☐ Hays ☒ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

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

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

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

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	1.0 Acres	$ 4,000
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: Jennifer Riechers Date: 3/14/25

Application Fee Schedule

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of 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 **Modification**

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 604021980		RN 110034741

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:*

West Travis County Public Utility Agency

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
07077345	32002919481	74-298231	

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☒ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following:*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address: 13215 Bee Cave Parkway, Bldg B, Suite 110

City	State	ZIP	ZIP + 4
Bee Cave	TX	78738	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 263-0100		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☐ 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 Agency 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.*)

WTCPUA 1420 Water Storage Facility

23. Street Address of the Regulated Entity: *(No PO Boxes)*								
	17420 Hamilton Pool Road							
	City	Austin	**State**	TX	**ZIP**	78738	**ZIP + 4**	
24. County								

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	

26. Nearest City	State	Nearest ZIP Code

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)
4941			

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

Utility - water storage

34. Mailing Address:	West Travis County Public Utility Agency							
	13215 Bee Cave Parkway, Bldg B, Suite 110							
	City	**Bee Cave**	**State**	**TX**	**ZIP**	**78738**	**ZIP + 4**	

35. E-Mail Address:	jriechers@wtcpua.org

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 263-100		( ) -

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	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

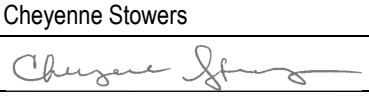
SECTION IV: Preparer Information

40. Name:	Cheyenne Stowers	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 327-9204		( ) -	cstowers@murfee.com

SECTION V: Authorized Signature

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

Company:	Murfee Engineering	Job Title:	Project Engineer
Name *(In Print)* :	Cheyenne Stowers	Phone:	(512) 327-9204
Signature:		Date:	03/18/25

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK #2

17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

1. ENGINEER CERTIFIES THAT THE PLAN IS COMPLETE, ACCURATE, AND IN COMPLIANCE WITH THE TRAVIS COUNTY DEVELOPMENT CODE.
2. THE ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY. IN REVIEWING THESE PLANS, TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
3. THIS SITE IS LOCATED IN THE BARTON CREEK WATERSHED.
4. THIS SITE IS NOT LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.
5. THIS SITE IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE.
6. NO 100-YEAR FLOODPLAIN OCCURS ON THE SITE. NO PORTION OF THIS TRACT IS WITHIN THE DESIGNATED FLOOD HAZARD AREA AS SHOWN ON THE FEDERAL FLOOD INSURANCE ADMINISTRATION RATE MAP #48453C0395J, TRAVIS COUNTY, TEXAS, DATED JANUARY 22, 2020.
7. PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING ENSURE THAT ALL REQUIRED NOTICES AND PERMITS ARE POSTED AND THE CERTIFIED INSPECTOR FOR YOUR SITE HAS UPLOADED A SWP3 INSPECTION REPORT TO YOUR ACCOUNT THAT CONFIRMS THAT THE FIRST PHASE OF TEMPORARY ESC HAVE BEEN INSTALLED PER PLANS AND SPECIFICATIONS.
8. FAILURE TO FOLLOW THE PRE-CONSTRUCTION MEETING REQUIREMENTS MAY RESULT IN WORK STOPPAGE AND ADDITIONAL PERMIT FEES.
9. SPECIAL PRE-CON NOTES:
   - 9.1. PROVIDE 48 HR. MINIMUM NOTICE TO SCHEDULE THE PRE-CON MEETING.
   - 9.2. PROVIDE A 1/2 SIZE SET OF PLANS FOR THE INSPECTOR AT THE PRE-CON.
   - 9.3. PROVIDE AN ANTICIPATED CONSTRUCTION SCHEDULE AT THE PRE-CON.
   - 9.4. BRING YOUR SWP3 FOR COMPLETENESS CHECK AT THE PRE-CON.
10. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE PLANS APPROVED BY TRAVIS COUNTY.
11. SCHEDULE YOUR PROJECTS PRE-CONSTRUCTION MEETING THROUGH THE MYPERMITNOW.ORG ACCOUNT AFTER THE INITIAL 3RD PARTY SWP3 INSPECTION REPORT HAS BEEN UPLOADED AND ALL PERMITS AND NOTICES HAVE BEEN POSTED, THEN FOLLOW UP WITH EMAILS TO THE ENVIRONMENTAL INSPECTOR AT ENV-INSPECTION@TRAVISCOUNTYTX.GOV AND THE ENGINEERING INSPECTOR, JOHNNY ANGLIN, AT JOHNNYANGLIN@TRAVISCOUNTYTX.GOV.
12. ALL STRUCTURAL FIELD CHANGES REQUIRE A PLAN REVISION APPROVAL IN WRITING BEFORE COMMENCEMENT OF THE WORK.
13. THE APPLICANT/OWNER MUST COORDINATE WITH UTILITY COMPANIES PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL COORDINATE CONTINUOUSLY AND AS NECESSARY WITH PROPERTY/BUSINESS OWNERS TO MAINTAIN CONTINUATION OF TRAFFIC CONTROL AND ACCESS.
15. BE INFORMED THAT THE CONTRACTOR MUST OBTAIN A SEPARATE PERMIT TO WORK WITHIN THE COUNTY ROW.

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

SUBMITTED FOR APPROVAL BY:
MURFEE ENGINEERING COMPANY, INC.

03/14/25
REGISTERED PROFESSIONAL ENGINEER — DATE

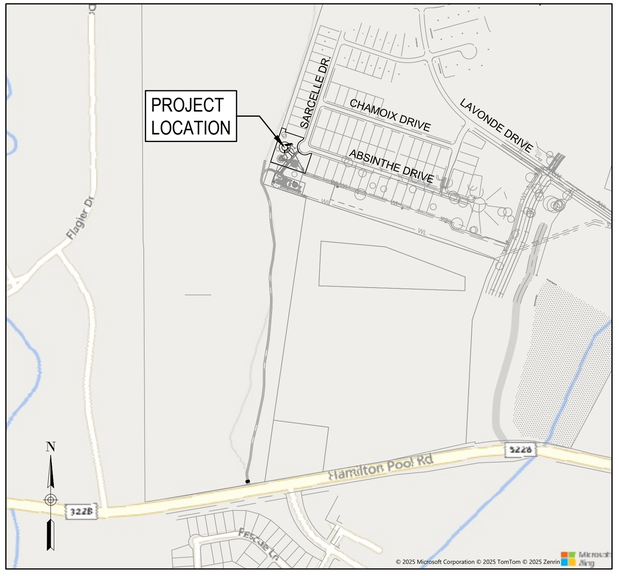
APPROVED BY:

WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY — DATE

REVIEWED BY:

TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES — DATE

TRAVIS COUNTY DEVELOPMENT PERMIT NUMBER — DATE



SCALE: 1"=500'

Sheet List Table

Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES 1
3	GENERAL NOTES 2
4	EXISTING CONDITIONS
5	SITE PLAN
6	EROSION AND SEDIMENTATION CONTROL
7	GRADING AND PAVING PLAN
8	EXISTING DRAINAGE
9	PROPOSED DRAINAGE
10	OVERALL DRAINAGE AND WATER QUALITY

OWNER
WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY
13215 BEE CAVES PARKWAY
BUILDING B, SUITE 110
BEE CAVE, TEXAS 78738
PH: (512) 263-0100

ENGINEER
MURFEE ENGINEERING COMPANY, INC.
CHEYENNE STOWERS, P.E.
1101 CAPITAL OF TEXAS HIGHWAY SOUTH,
BUILDING D, SUITE 110, AUSTIN, TEXAS 78746
PH # (512) 327-9204
FAX # (512) 306-9620

CONSTRUCTION AREA
0.66 ACRES (LIMITS OF CONSTRUCTION
0.66 ACRES (AREA OF DISTURBANCE)
0.051 ACRES (NEW IMPERVIOUS COVER)
585 L.F. OF SILT FENCE

LEGAL DESCRIPTION
1.0 ACRE TRACT OF LAND OUT OF THE R.H. GRAHM SURVEY
NO. 501, ABSTRACT NO. 334, TRAVIS COUNTY, TEXAS, RECORDED
IN DOCUMENT NO. 2019098555 O.P.R.T.C.T.

REVISION/CORRECTION TABLE

NO.	REVISION DESCRIPTION	REVISION (R) ADD (A) VOID (V) SHEET NO.S	NET CHANGE IMP. COVER (SF)	TOTAL SITE IMP. COVER (%)	TRAVIS COUNTY APPROVAL - DATE

SUBMITTAL DATE: MARCH 2025

MEC
MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
TEXAS REGISTERED ENGINEERING FIRM F-353

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - COVER.dwg

EXHIBIT 482.301B TRAVIS COUNTY STANDARD CONSTRUCTION NOTES FOR SITE DEVELOPMENT

PLAN SHEETS FOR SITE DEVELOPMENTS MUST INCLUDE THE FOLLOWING CONSTRUCTION NOTES:

1. EACH DRIVEWAY MUST BE CONSTRUCTED IN ACCORDANCE WITH TRAVIS COUNTY CODE SECTION 482.302(G), AND EACH DRAINAGE STRUCTURE OR SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL, UNLESS OTHER DESIGN CRITERIA ARE APPROVED BY TRAVIS COUNTY.
2. BEFORE BEGINNING ANY CONSTRUCTION, THE OWNER MUST OBTAIN A TRAVIS COUNTY DEVELOPMENT PERMIT AND POST THE DEVELOPMENT PERMIT, THE TCEQ SITE NOTICE, AND ANY OTHER REQUIRED PERMITS AT THE JOB SITE.
3. CONSTRUCTION MAY NOT TAKE PLACE WITHIN TRAVIS COUNTY RIGHT-OF-WAY UNTIL AFTER THE OWNER HAS SUBMITTED A TRAFFIC CONTROL PLAN TO TRAVIS COUNTY AND OBTAINED WRITTEN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM TRAVIS COUNTY.
4. THE CONTRACTOR AND PRIMARY OPERATOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION AND THE SWP3 IN THESE APPROVED PLANS. THE CONTRACTOR AND PRIMARY OPERATOR SHALL REQUEST TRAVIS COUNTY INSPECTION AT SPECIFIC MILESTONES IN THE SEQUENCE OF THE CONSTRUCTION OF THE SITE DEVELOPMENT CORRESPONDING TO THE PRIORITY INSPECTIONS SPECIFIED IN CONSTRUCTION SEQUENCING NOTES IN THESE APPROVED PLANS. DEVELOPMENT OUTSIDE THE LIMITS OF CONSTRUCTION SPECIFIED IN THE APPROVED PERMIT AND CONSTRUCTION PLANS IS PROHIBITED.
5. BEFORE BEGINNING ANY CONSTRUCTION, ALL STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENTS SHALL BE MET, AND THE FIRST PHASE OF THE TEMPORARY EROSION CONTROL (ESC) PLAN INSTALLED WITH A SWP3 INSPECTION REPORT UPLOADED TO MYPERMITNOW.ORG. ALL SWP3 AND ESC PLAN MEASURES AND PRIMARY OPERATOR SWP3 INSPECTIONS MUST BE PERFORMED BY THE PRIMARY OPERATOR IN ACCORDANCE WITH THE APPROVED PLANS AND SWP3 AND ESC PLAN NOTES THROUGHOUT THE CONSTRUCTION PROCESS.
6. BEFORE STARTING CONSTRUCTION, THE OWNER OR CONTRACTOR OR THEIR DESIGNATED REPRESENTATIVES SHALL SUBMIT A REQUEST VIA THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY TO REQUEST AND SCHEDULE A MANDATORY PRECONSTRUCTION CONFERENCE AND ESC INSPECTION. IF FURTHER ASSISTANCE IS NEEDED, THE TNR PLANNING AND ENGINEERING DIVISION STAFF OR TNR STORM WATER MANAGEMENT PROGRAM STAFF CAN BE CONTACTED BY TELEPHONE AT 512-854-9383.
7. THE CONTRACTOR SHALL KEEP TRAVIS COUNTY TNR ASSIGNED INSPECTION STAFF CURRENT ON THE STATUS OF SITE DEVELOPMENT AND UTILITY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY TRAVIS COUNTY AND REQUEST PRIORITY INSPECTIONS THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY IN ACCORDANCE WITH THE SPECIFIC MILESTONES IN THE CONSTRUCTION SEQUENCING NOTES IN THESE APPROVED PLANS.
8. CONTOUR DATA SOURCE: CONTOURS SOURCED VIA PUBLIC LIDAR DATA BASE. BENCHMARK REFERENCE POINTS AND THEIR ELEVATIONS BASED ON CAPITAL SURVEYING CO, INC. 2017 SURVEY.
9. FILL MATERIAL MUST BE MANAGED AND DISPOSED OF IN ACCORDANCE WITH ALL REQUIREMENTS SPECIFIED IN THE APPROVED PLANS, SWP3, AND THE TRAVIS COUNTY CODE. THE CONTRACTOR SHALL STOCKPILE FILL AND CONSTRUCTION MATERIALS ONLY IN THE AREAS DESIGNATED ON THE APPROVED PLANS AND NOT WITHIN THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN OR THE 1 PERCENT ANNUAL CHANCE FLOODPLAIN, WATERWAY SETBACK, CRITICAL ENVIRONMENTAL FEATURE SETBACK, OR OUTSIDE THE LIMITS OF CONSTRUCTION. DISPOSAL OF SOLID WASTE MATERIALS, AS DEFINED BY STATE LAW (E.G., LITTER, TIRES, DECOMPOSABLE WASTES, ETC.) IS PROHIBITED IN PERMANENT FILL SITES.
10. BEFORE DISPOSING ANY EXCESS FILL MATERIAL OFF-SITE, THE CONTRACTOR OR PRIMARY OPERATOR MUST PROVIDE THE COUNTY INSPECTOR DOCUMENTATION THAT DEMONSTRATES THAT ALL REQUIRED PERMITS FOR THE PROPOSED DISPOSAL SITE LOCATION, INCLUDING TRAVIS COUNTY, TCEQ NOTICE, AND OTHER APPLICABLE DEVELOPMENT PERMITS, HAVE BEEN OBTAINED. THE OWNER OR PRIMARY OPERATOR MUST REVISE THE SWP3 AND ESC PLAN IF HANDLING OR PLACEMENT OF EXCESS FILL ON THE CONSTRUCTION SITE IS REVISED FROM THE EXISTING SWP3. IF THE FILL DISPOSAL LOCATION IS OUTSIDE TRAVIS COUNTY OR DOES NOT REQUIRE A DEVELOPMENT PERMIT, THE CONTRACTOR OR PRIMARY OPERATOR MUST PROVIDE THE COUNTY INSPECTOR THE SITE ADDRESS, CONTACT INFORMATION FOR THE PROPERTY OWNER OF THE FILL.
11. THE DESIGN ENGINEER IS RESPONSIBLE FOR THE ADEQUACY OF THE CONSTRUCTION PLANS. IN REVIEWING THE CONSTRUCTION PLANS, TRAVIS COUNTY WILL RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
12. IN THE EVENT OF ANY CONFLICTS BETWEEN THE CONTENT IN THE SWP3 SITE NOTEBOOK AND THE CONTENT IN THE CONSTRUCTION PLANS APPROVED BY TRAVIS COUNTY, THE CONSTRUCTION PLANS SHALL TAKE PRECEDENCE.
13. A MINIMUM OF TWO SURVEY BENCHMARKS SHALL BE SET, INCLUDING DESCRIPTION, LOCATION, AND ELEVATION; THE BENCHMARKS SHOULD BE TIED TO A TRAVIS COUNTY CONTROL BENCHMARK WHEN POSSIBLE.
14. ANY EXISTING PAVEMENT, CURBS, SIDEWALKS, OR DRAINAGE STRUCTURES WITHIN COUNTY RIGHT-OF-WAY WHICH ARE DAMAGED, REMOVED, OR SILTED, WILL BE REPAIRED BY THE CONTRACTOR AT OWNER OR CONTRACTOR'S EXPENSE BEFORE APPROVAL AND ACCEPTANCE OF THE CONSTRUCTION BY TRAVIS COUNTY.
15. CALL THE TEXAS EXCAVATION SAFETY SYSTEM AT 8-1-1 AT LEAST 2 BUSINESS DAYS BEFORE BEGINNING EXCAVATION ACTIVITIES.
16. ALL STORM SEWER PIPES SHALL BE CLASS III RCP, UNLESS OTHERWISE NOTED.
17. CONTRACTOR IS REQUIRED TO OBTAIN A UTILITY INSTALLATION PERMIT IN ACCORDANCE WITH TRAVIS COUNTY CODE SECTION 482.901(A)(3) BEFORE ANY CONSTRUCTION OF UTILITIES WITHIN ANY TRAVIS COUNTY RIGHT-OF-WAY.
18. THIS PROJECT IS LOCATED ON FLOOD INSURANCE RATE MAP PANEL # 48453C0395J.
19. TEMPORARY STABILIZATION MUST BE PERFORMED IN ALL DISTURBED AREAS THAT HAVE CEASED CONSTRUCTION ACTIVITIES FOR 14 DAYS OR LONGER, IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN THE SWP3 AND ESC PLAN SHEET NOTES.
20. PERMANENT SITE STABILIZATION/RE-VEGETATION MUST BE PERFORMED IMMEDIATELY IN ALL SITE AREAS WHICH ARE AT FINAL PLAN GRADE AND IN ALL SITE AREAS SPECIFIED IN THE APPROVED PLANS FOR PHASED RE-VEGETATION, IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN THE SWP3 AND ESC PLAN SHEET NOTES.
21. ALL TREES WITHIN THE RIGHT-OF-WAY AND DRAINAGE EASEMENTS SHALL BE SAVED OR REMOVED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS. TRAVIS COUNTY TREE PRESERVATION STANDARDS IN TRAVIS COUNTY CODE SECTION 482.973, INCLUDING INSTALLATION AND MAINTENANCE OF ALL SPECIFIED TREE PROTECTION MEASURES, MUST BE FOLLOWED DURING CONSTRUCTION.
22. AN ENGINEER'S CONCURRENCE LETTER IN ACCORDANCE WITH TRAVIS COUNTY CODE SECTION 482.953 MUST BE SUBMITTED VIA THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY WHEN CONSTRUCTION IS SUBSTANTIALLY COMPLETE. THE ENGINEER'S CONCURRENCE LETTER MUST BE SUBMITTED BEFORE THE CONTRACTOR OR PRIMARY OPERATOR REQUESTS A FINAL INSPECTION BY TRAVIS COUNTY.
23. SITE IMPROVEMENTS MUST BE CONSTRUCTED IN CONFORMANCE WITH THE ENGINEER'S CONSTRUCTION PLANS APPROVED BY TRAVIS COUNTY. NON-CONFORMANCE WITH THE APPROVED PLANS WILL DELAY FINAL INSPECTION APPROVAL BY THE COUNTY UNTIL PLAN CONFORMANCE IS ACHIEVED OR ANY REQUIRED PLAN REVISIONS ARE APPROVED.
24. FINAL SITE STABILIZATION. ALL AREAS DISTURBED BY THE CONSTRUCTION MUST BE PERMANENTLY REVEGETATED AND ALL TEMPORARY SEDIMENT CONTROLS AND ACCUMULATED SEDIMENTATION MUST BE REMOVED BEFORE THE COUNTY WILL ISSUE A CERTIFICATE OF COMPLIANCE FOR FINAL SITE STABILIZATION AS PART OF FINAL INSPECTION AND PROJECT COMPLETION. A DEVELOPERS CONTRACT, AS DESCRIBED IN THE SWP3 AND ESC NOTES SHEET MAY BE EXECUTED WITH TRAVIS COUNTY FOR CONDITIONAL ACCEPTANCE OF A PROJECT FOR WHICH HAS ESC FISCAL SECURITY POSTED AND FOR WHICH ALL ITEMS ARE COMPLETE.

EXHIBIT 482.301D. SPECIAL CONSTRUCTION NOTES

SPECIAL NOTES, AS APPLICABLE, FOR SITE DEVELOPMENT OR STREETS AND DRAINAGE

1. THE SUBGRADE MATERIAL IN (NAME OF SUBDIVISION) WAS TESTED BY (NAME OF PROFESSIONAL SOIL LAB) IN (DAY, MONTH, AND YEAR) AND THE STREET SECTION DESIGNED ACCORDING TO APPROVED DESIGN CRITERIA. THE STREET SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS: [GIVE STREET NAMES, WIDTH OF RIGHT-OF-WAY, OR OTHER METHODS TO IDENTIFY PROPOSED DESIGN OF DIFFERENT PAVEMENT THICKNESSES. IN WRITING OR GRAPHICALLY, DESCRIBE THE STREET SECTION(S) TO BE CONSTRUCTED.]
2. MANHOLE FRAMES, COVERS, AND WATER VALVE COVERS WILL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY A QUALIFIED CONTRACTOR WITH COUNTY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
3. ALL COLLECTOR AND ARTERIAL STREETS SHALL HAVE AUTOMATIC SCREED CONTROL ON ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION, PLACED AS PER ITEM 350-6 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
4. AT INTERSECTIONS WHICH HAVE VALLEY DRAINAGE, THE CROWNS OF THE INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40' FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED. INLETS ON THE INTERSECTING STREET SHALL NOT BE CONSTRUCTED WITHIN 40' OF THE VALLEY GUTTER.
5. AT THE INTERSECTION OF TWO 44' STREETS OR LARGER, THE CROWNS OF THE INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40' FROM INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
6. PRIOR TO FINAL ACCEPTANCE OF A STREET, STREET NAME SIGNS CONFORMING TO COUNTY STANDARDS SHALL BE INSTALLED BY DEVELOPER.
7. WHEN USING LIME STABILIZATION OF SUBGRADE, IT SHALL BE PLACED IN SLURRY FORM.
8. IF APPLICABLE, A LICENSE AGREEMENT FOR LANDSCAPING MAINTENANCE AND IRRIGATION IN STREET RIGHT-OF-WAY SHALL BE EXECUTED BY THE DEVELOPER WITH TRAVIS COUNTY PRIOR TO FINAL ACCEPTANCE OF THE ROADWAY SYSTEM FOR MAINTENANCE.

EXHIBIT 482.301G. SEQUENCE OF CONSTRUCTION AND PRIORITY INSPECTIONS - SITE DEVELOPMENT

THE OWNER AND PRIMARY OPERATOR MUST FOLLOW THIS BASIC SEQUENCE OF CONSTRUCTION FOR EACH SITE DEVELOPMENT, INCLUSIVE OF ALL NON-RESIDENTIAL SITE DEVELOPMENT PROJECTS. WITHIN THE FOLLOWING SEQUENCE OF CONSTRUCTION ARE LISTED PRIORITY INSPECTIONS THAT THE OWNER AND PRIMARY OPERATOR MUST REQUEST FROM A REPRESENTATIVE OF TRAVIS COUNTY'S STORM WATER MANAGEMENT PROGRAM INSPECTION TEAM. EACH PRIORITY INSPECTION MUST BE REQUESTED ONLINE THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY. THE PRIORITY INSPECTIONS IN THIS EXHIBIT ARE CONSISTENT WITH THE PRIORITY INSPECTIONS FOUND IN THE CUSTOMER PORTAL FOR THE PROJECT. FOR ASSURANCE PURPOSES, A SECOND REQUEST TO TRAVIS COUNTY IS STRONGLY ENCOURAGED BY ADDITIONALLY SENDING AN E-MAIL TO ENVINSPECT@TRAVISCOUNTYTX.GOV.

THE SEQUENCE FOR ITEMS 1-4 AND ITEMS 9-12 MUST NOT BE ALTERED, BUT THE SEQUENCE FOR ITEMS 5-8 MAY BE MODIFIED WITH THE WRITTEN APPROVAL OF THE COUNTY.

1. ESC INSTALLATION. INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (ESC) AND TREE PROTECTION MEASURES IN ACCORDANCE WITH THE APPROVED ESC PLAN SHEETS AND THE SWP3.
   a. HAVE A QUALIFIED INSPECTOR (AS SPECIFIED IN SECTION 482.934(C)(3) OF THE TRAVIS COUNTY CODE) INSPECT THE TEMPORARY EROSION AND SEDIMENT CONTROLS AND PREPARE A CERTIFIED SWP3 INSPECTION REPORT REGARDING WHETHER THE TEMPORARY EROSION AND SEDIMENT CONTROLS WERE INSTALLED IN CONFORMANCE WITH THE APPROVED PLANS;
   b. UPLOAD THE QUALIFIED INSPECTOR'S CERTIFIED SWP3 INSPECTION REPORT TO THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY; AND
   c. REQUEST A MANDATORY PRE-CONSTRUCTION MEETING WITH TRAVIS COUNTY THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY GIVING AT LEAST 3 BUSINESS DAYS NOTIFICATION.
2. PRE-CONSTRUCTION MEETING AND ESC INSPECTION. HOLD A MANDATORY PRECONSTRUCTION MEETING THAT ADDRESSES THE ITEMS IN EXHIBIT 482.950 AND THE ESC PRE-CONSTRUCTION INSPECTION BY THE COUNTY AND OBTAIN COUNTY'S APPROVAL TO START CONSTRUCTION. (PRIORITY INSPECTION)
3. INSPECT FOR COMPLIANCE WITH SWP3 AND ESC PLAN. MAINTAIN AND INSPECT THE SWP3 CONTROLS AND PREPARE AND UPLOAD A WEEKLY CERTIFIED SWP3 INSPECTION REPORT THAT INCLUDES THE CONTENTS LISTED IN EXHIBIT 482.951 TO THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY.
4. CONSTRUCT SEDIMENT BASIN(S). CONSTRUCT ANY STORM WATER POND(S) FIRST, WHENEVER APPLICABLE, TO BE FUNCTIONAL AS CONSTRUCTION SEDIMENT BASIN(S) BEFORE GRADING AND EXCAVATING THE ENTIRE SITE, AS FOLLOWS:
   a. CLEAR, GRUB, AND EXCAVATE ONLY THE SITE AREAS AND CUT AND FILL QUANTITIES NECESSARY TO CONSTRUCT THE POND(S) IN ACCORDANCE WITH THESE APPROVED PLANS AND THE MINIMUM STANDARDS DESCRIBED IN THE SWP3 AND ESC PLAN SHEET NOTES FOR THE TEMPORARY SEDIMENT BASIN EMBANKMENTS, WALLS, INFLOWS, OUTFALLS, DRAINAGE CONVEYANCE MEASURES, SEDIMENT CONTROLS, AND STABILIZATION.
   b. REQUEST COUNTY INSPECTION AND OBTAIN COUNTY'S WRITTEN APPROVAL OF THE TEMPORARY SEDIMENT BASIN(S) BEFORE PROCEEDING FURTHER IN THE SEQUENCE OF CONSTRUCTION. (PRIORITY INSPECTION)
5. CONSTRUCT SITE IMPROVEMENTS. BEGIN THE PRIMARY SITE CLEARING, EXCAVATION, AND CONSTRUCTION ACTIVITIES AND CONTINUE THE SWP3 AND ESC PLAN IMPLEMENTATION AND MAINTENANCE PER THE APPROVED PLANS.
6. CONSTRUCT DRIVEWAY APPROACH AND RIGHT-OF-WAY IMPROVEMENTS. INSTALL DRIVEWAY APPROACH AND DRAINAGE AND ROAD IMPROVEMENTS IN THE COUNTY RIGHTOF-WAY PER APPROVED PLANS, WHEN APPLICABLE. REQUEST A COUNTY PRE-POUR INSPECTION OF THE DRIVEWAY THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY GIVING AT LEAST 3 BUSINESS DAYS NOTIFICATION. (PRIORITY INSPECTION).
7. PERFORM TEMPORARY STABILIZATION IN ALL DISTURBED AREAS THAT HAVE CEASED CONSTRUCTION ACTIVITIES FOR 14 DAYS OR LONGER.
8. PERFORM PERMANENT SITE STABILIZATION/RE-VEGETATION IMMEDIATELY IN ALL SITE AREAS AT FINAL PLAN GRADE AND IN ALL SITE AREAS SPECIFIED FOR PHASED REVEGETATION.
9. COMPLETE PERMANENT WATER QUALITY CONTROLS. BEGIN COMPLETION OF PERMANENT WATER QUALITY CONTROL(S) AND INSTALL THE UNDERDRAIN PER APPROVED PLANS, WHEN APPLICABLE.
   a. REMOVE CONSTRUCTION SEDIMENT, RE-ESTABLISH THE BASIN SUBGRADE, AND INSTALL UNDERDRAIN PIPING.
   b. REQUEST COUNTY INSPECTION AND OBTAIN COUNTY'S WRITTEN APPROVAL OF THE UNDERDRAIN PIPING INSTALLATION AND ASSOCIATED CONSTRUCTION MATERIALS (AGGREGATE, FILTER MEDIA, ETC.) BEFORE COVERING THE UNDERDRAIN AND PROCEEDING WITH CONSTRUCTION OF THE CONTROL. (PRIORITY INSPECTION).
10. COMPLETE CONSTRUCTION SITE IMPROVEMENTS AND FINAL STABILIZATION PER THE APPROVED PLANS.
11. PROVIDE ENGINEER'S CONCURRENCE LETTER THROUGH THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY WHEN CONSTRUCTION IS SUBSTANTIALLY COMPLETE AND REQUEST A FINAL INSPECTION BY TRAVIS COUNTY. (PRIORITY INSPECTION)
12. OBTAIN A CERTIFICATE OF COMPLIANCE WHEN ALL FINAL INSPECTION PUNCH LIST ITEMS, INCLUDING FINAL SITE STABILIZATION AND REMOVAL OF TEMPORARY SEDIMENT CONTROLS. IF NECESSARY, PROVIDE A DEVELOPERS CONTRACT TO THE COUNTY TO REQUEST CONDITIONAL ACCEPTANCE FOR USE OR OCCUPANCY OF THE SITE WITH ALL ITEMS COMPLETED EXCEPT RE-VEGETATION GROWTH COVERAGE. REQUEST A RE-INSPECTION WHEN RE-VEGETATION COVERAGE IS COMPLETE. (PRIORITY INSPECTION)

EXHIBIT 482.950 PRE-CONSTRUCTION AND CONFERENCE AGENDA FOR SWP3 AND ESC PLAN

BEFORE STARTING CONSTRUCTION, THE OWNER OR THEIR REPRESENTATIVE MUST SUBMIT A REQUEST, USING THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY, TO PARTICIPATE IN A PRECONSTRUCTION CONFERENCE WITH THE DESIGNATED COUNTY INSPECTOR. PRIOR TO THE PRECONSTRUCTION CONFERENCE REQUEST, THE OWNER OR OWNER'S REPRESENTATIVE SHALL ENSURE THE FIRST PHASE OF THE ESC CONTROLS ARE INSTALLED IN CONFORMANCE WITH THE APPROVED PLANS, THE OWNER'S QUALIFIED INSPECTOR HAS INSPECTED THE CONTROLS AND VERIFIED COMPLIANCE WITH THE PLANS, AND AN SWP3 INSPECTION REPORT DOCUMENTING THIS INFORMATION HAS BEEN SENT TO THE COUNTY THROUGH THE METHOD SPECIFIED BY THE DESIGNATED COUNTY INSPECTOR.

AFTER ARRANGING AN AGREED UPON DATE WITH THE COUNTY AND PROVIDING THE INITIAL SWP3 INSPECTION REPORT, THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE SHALL PROVIDE NOTICE OF THE SWP3 PRE-CONSTRUCTION CONFERENCE AND A COPY OF THE APPROVED PLANS, IF REQUESTED, TO THE FOLLOWING PERSONS OR ENTITIES AT LEAST TWO BUSINESS DAYS BEFORE THE CONFERENCE:

1. DESIGNATED COUNTY INSPECTOR(S)
2. DESIGN ENGINEER FOR THE APPROVED PLANS AND SWP3, OR THEIR REPRESENTATIVE
3. CONTRACTOR(S)/PRIMARY OPERATOR(S)
4. PRIMARY OPERATOR'S QUALIFIED INSPECTOR RESPONSIBLE FOR PREPARING THE SWP3 INSPECTION REPORTS
5. OTHER STAKEHOLDERS, AS APPROPRIATE: MUNICIPALITIES, UTILITIES, ETC.

THE SWP3 PRE-CONSTRUCTION CONFERENCE MAY BE A STANDALONE MEETING OR A PART OF A LARGER PRE-CONSTRUCTION CONFERENCE, BUT MUST INCLUDE AN ON-SITE INSPECTION APPROVAL OF THE FIRST PHASE OF THE PROJECT'S ESC PLAN BY THE COUNTY INSPECTOR BEFORE CONSTRUCTION BEGINS. THE COUNTY INSPECTOR WILL DISCUSS THE FOLLOWING APPLICABLE ITEMS IN THE APPROVED PLANS AND THE SWP3 WITH THE PARTICIPANTS:

1. THE SWP3 SITE NOTEBOOK FOR THE PROJECT, INCLUDING REVIEW OF COMPLETENESS, SIGNATURES, CONSISTENCY WITH THE APPROVED CONSTRUCTION AND ESC PLANS, AND THE REQUIREMENTS FOR MAINTAINING THE SWP3 SITE NOTEBOOK DURING THE CONSTRUCTION PROCESS.
2. THE SEQUENCE OF CONSTRUCTION AND ESC PLAN IMPLEMENTATION; SEDIMENT BASIN CONSTRUCTION SCOPE PRIOR TO FULL SITE GRADING; NON-STRUCTURAL EROSION SOURCE CONTROLS; START DATES AND SCHEDULE OF EVENTS.
3. SEDIMENT CONTROLS; PHASING OF PERIMETER AND INTERIOR SEDIMENT CONTROLS DURING CONSTRUCTION; STRUCTURAL EROSION SOURCE CONTROLS SUCH AS DRAINAGE DIVERSION; ESC MAINTENANCE REQUIREMENTS.
4. ADEQUACY OF THE FIRST ESC PHASE AND FUTURE ESC PHASES TO ADDRESS SPECIFIC SITE CONDITIONS, AND ADJUSTMENT AND REVISION OF THE ESC PLAN AND SWP3 CONTROLS DURING CONSTRUCTION.
5. TEMPORARY AND PERMANENT STABILIZATION AND RE-VEGETATION REQUIREMENTS, INCLUDING SCHEDULE, CRITICAL SITE IMPROVEMENTS AND PRIORITY RE-VEGETATION AREAS.
6. ON AND OFF-SITE TEMPORARY AND PERMANENT SPOIL AND FILL DISPOSAL AREAS, HAUL ROADS, STAGING AREAS, AND STABILIZED CONSTRUCTION ENTRANCES;
7. PERMANENT WATER QUALITY CONTROLS CONSTRUCTION AND COUNTY INSPECTIONS, AND RELATED GRADING AND DRAINAGE CONSTRUCTION.
8. SUPERVISION OF THE SWP3 IMPLEMENTATION BY THE PRIMARY OPERATOR'S DESIGNATED PROJECT MANAGER, INCLUDING ROLES, RESPONSIBILITIES, AND COORDINATION WHEN MORE THAN ONE OPERATOR IS RESPONSIBLE FOR IMPLEMENTATION.
9. INSPECTION AND PREPARATION OF THE WEEKLY SWP3 INSPECTION REPORTS BY THE PRIMARY OPERATOR'S QUALIFIED INSPECTOR; REPORT SUBMITTAL BY THE PRIMARY OPERATOR, AND SWP3 MONITORING INSPECTIONS CONDUCTED BY THE COUNTY INSPECTOR.
10. OBSERVATION AND DOCUMENTATION OF EXISTING SITE CONDITIONS ADJACENT TO THE LIMITS OF CONSTRUCTION BEFORE CONSTRUCTION, INCLUDING WATERWAYS AND POTENTIAL OUTFALL DISCHARGE ROUTES, RIGHTS-OF-WAY AND EASEMENTS, BUFFER ZONES, AND CRITICAL ENVIRONMENTAL FEATURES.
11. SPECIAL SITE CONDITIONS AND PLAN PROVISIONS, SUCH AS PROTECTION OF WATERWAYS, CRITICAL ENVIRONMENTAL FEATURES, TREES TO BE SAVED, AND FUTURE HOMEBUILDING ON SUBDIVISION LOTS.
12. RAIN GAGE LOCATION OR RAINFALL INFORMATION SOURCE TO BE USED DURING CONSTRUCTION AND REPORTING.
13. FINAL INSPECTION AND ACCEPTANCE REQUIREMENTS, INCLUDING THE ENGINEER'S CONCURRENCE LETTER, COMPLETION OF REVEGETATION COVERAGE BEFORE THE NOTICE OF TERMINATION IS SUBMITTED BY THE PRIMARY OPERATOR, STABILIZATION OF RESIDENTIAL SUBDIVISION LOTS, REMOVAL OF TEMPORARY SEDIMENT CONTROLS, THE CERTIFICATE OF COMPLIANCE AND RELEASE OF ESC FISCAL SURETY.
14. EXCHANGE OF TELEPHONE NUMBERS AND CONTACT INFORMATION FOR THE PRIMARY PARTICIPANTS. THE DESIGN ENGINEER SHALL PREPARE AND DISTRIBUTE NOTES, KEY DECISIONS, AND FOLLOW UP FROM THE PRECONSTRUCTION CONFERENCE TO ALL PARTICIPANTS WITHIN THREE BUSINESS DAYS AFTER COMPLETION OF THE CONFERENCE.

EXHIBIT 482.951SWP3 INSPECTION AREAS AND REPORT CONTENTS

THE OWNER OR PRIMARY OPERATOR OF THE CONSTRUCTION SITE SHALL DESIGNATE A QUALIFIED INSPECTOR POSSESSING THE REQUIRED CERTIFICATION (AS SPECIFIED IN SECTION 482.934(C)(3)) TO PERFORM A WEEKLY SWP3 INSPECTION AND PREPARE A SIGNED SWP3 INSPECTION REPORT OF THE INSPECTION FINDINGS.

THE CONSTRUCTION SITE AREAS AND THE CONTROL MEASURES LISTED HEREIN ARE TO BE USED AS A MINIMUM AS THE UNIFORM CRITERIA BY THE OWNER'S QUALIFIED INSPECTOR, AS WELL AS THE COUNTY INSPECTOR, TO EVALUATE AND DETERMINE A PROJECT'S COMPLIANCE STATUS WITH THE APPROVED SWP3 AND ESC PLAN.

IN ADDITION, ON AN ONGOING BASIS AND FOLLOWING STORM EVENTS, THE PRIMARY OPERATOR'S RESPONSIBLE ON-SITE PERSONNEL SHALL ALSO INSPECT AND ADDRESS THESE ITEMS DURING CONSTRUCTION AS REQUIRED BY THE SWP3, ESC PLAN, AND TRAVIS COUNTY CODE, SECTION 482.951.

AREAS OF INSPECTION. AT THE VERY LEAST, THE FOLLOWING AREAS MUST BE INSPECTED:

1. DISTURBED AREAS AND THE APPROVED LIMITS OF CONSTRUCTION.
2. PERIMETER AND INTERIOR SEDIMENT CONTROLS.
3. AREAS UNDERGOING TEMPORARY STABILIZATION OR PERMANENT VEGETATION ESTABLISHMENT.
4. TEMPORARY AND PERMANENT FILL AND SPOIL STORAGE OR DISPOSAL AREAS.
5. STORAGE AREAS FOR MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO RAINFALL.
6. OUTFALL LOCATIONS AND THE AREAS IMMEDIATELY DOWNSTREAM.
7. STRUCTURAL CONTROLS, INCLUDING SEDIMENT PONDS, SEDIMENT TRAPS, AND DRAINAGE DIVERSIONS.
8. HAUL ROADS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ADJACENT ROADWAYS FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
9. WATERWAY CROSSINGS AND AREAS ADJACENT TO WATERWAYS AND CRITICAL ENVIRONMENTAL FEATURES.
10. CONCRETE WASH OUT AREAS AND ALL AREAS REQUIRING CONTROL MEASURES FOR NONSTORM WATER DISCHARGES, INCLUDING DUST, SOLID WASTE, DE-WATERING, MATERIAL SPILLS, VEHICLE MAINTENANCE AND WASHING, AND WASH WATER DISCHARGES.
11. LOCATIONS OF ALL CONTROL MEASURES THAT REQUIRE MAINTENANCE, INCLUDING ANY CONTROL MEASURE IDENTIFIED IN THE PREVIOUS SWP3 INSPECTION REPORT WHICH REQUIRED MAINTENANCE OR REVISION BY THE OWNER OR PRIMARY OPERATOR.
12. LOCATIONS OF ANY DISCHARGE OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE AND ANY DISTURBANCE BEYOND THE APPROVED LIMITS OF CONSTRUCTION.
13. LOCATIONS OF CONTROL MEASURES THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION.
14. LOCATIONS WHERE AN ADDITIONAL ESC OR CONTROL MEASURE IS NEEDED.

EXHIBIT 482.951SWP3 INSPECTION AREAS AND REPORT CONTENTS (CONT'D)

THE SWP3 INSPECTION REPORT MUST INCLUDE:

A. FINDINGS AS TO WHETHER THE FOLLOWING STRUCTURAL AND NON-STRUCTURAL CONTROLS REQUIRED FOR THE SITE AREAS LISTED ABOVE ARE FUNCTIONING :IN COMPLIANCE WITH THE APPROVED SWP3 AND ESC PLAN:

1. EROSION SOURCE CONTROLS, INCLUDING THE APPROVED SEQUENCE OF CONSTRUCTION AND GRADING PLAN LIMITS, DRAINAGE DIVERSION MEASURES, TEMPORARY AND PERMANENT FILL DISPOSAL AND STOCKPILE MANAGEMENT MEASURES.
2. SEDIMENT CONTROLS, INCLUDING PERIMETER AND INTERIOR CONTROLS, SEDIMENT TRAPS AND BASINS, AND THE SEQUENCE OF CONSTRUCTION REQUIREMENTS FOR THE SEDIMENT CONTROLS.
3. PERMANENT EROSION AND SOIL STABILIZATION CONTROLS, BASED ON THE SEQUENCE OF CONSTRUCTION AND CRITICAL SITE IMPROVEMENTS, AND THE CESSATION OF CONSTRUCTION ACTIVITIES, INCLUDING TEMPORARY STABILIZATION MEASURES FOR AREAS INACTIVE FOR LONGER THAN 14 DAYS, AND PERMANENT STABILIZATION MEASURES FOR AREAS AT FINAL GRADE.
4. OTHER APPLICABLE CONTROLS AND POLLUTION PREVENTION MEASURES.

B. RAINFALL DOCUMENTATION:

1. FOR PROJECTS THAT COMPRISE TEN ACRES OR MORE, THE DOCUMENTATION MUST INCLUDE RAINFALL DATES AND AMOUNTS IN ACCORDANCE WITH SECTION 482.934(E); AND
2. FOR PROJECTS THAT COMPRISE LESS THAN TEN ACRES, THE DOCUMENTATION MUST INCLUDE ACCURATE RAINFALL DATA FROM A LOCATION CLOSEST TO THE SITE.

C. CORRECTIVE ACTIONS REQUIRED FOR ANY NON-COMPLIANT ITEMS AND THE SCHEDULE FOR BRINGING THESE ITEMS INTO COMPLIANCE.

THE SWP3 INSPECTION REPORT CONTENTS MUST CONTAIN THE INSPECTION FINDINGS FOR THE REQUIRED AREAS AND CONTROL MEASURES LISTED HEREIN AND CERTIFY WHETHER THE SITE IS IN COMPLIANCE WITH THE APPROVED SWP3 AND ESC PLAN.

EITHER AT THE TIME OF EACH SWP3 INSPECTION, OR NO LATER THAN THE DATE OF THE INSPECTION, THE OWNER'S QUALIFIED INSPECTOR SHALL PREPARE AND SIGN A SWP3 INSPECTION REPORT.

THE OWNER OR PRIMARY OPERATOR SHALL UPLOAD EACH REQUIRED SWP3 OR ESC PLAN INSPECTION REPORT TO THE MYPERMITNOW.ORG CUSTOMER PORTAL FOR TRAVIS COUNTY. AN ALTERNATE METHOD OF REPORT SUBMITTAL MAY BE USED IF APPROVED BY THE COUNTY INSPECTOR.

TRAVIS COUNTY EMERGENCY SERVICES DISTRICT NO.6 FIRE DEPARTMENT - SITE PLAN NOTES

1. DESIGNS FOR SITE IMPROVEMENTS SHALL MEET THE CURRENT DESIGN CRITERIA AS REQUIRED BY TCESD NO. 6.
2. ALL PLANS (SITE, BUILDING, FIRE ALARM, FIRE SPRINKLER) SHALL BE SUBMITTED TO LTFR FOR REVIEW. TWO FULL-SIZE SETS ARE REQUIRED. A REVIEW LETTER WILL BE GENERATED. REVIEWS WILL NOT BE PERFORMED UNTIL THE APPLICABLE REVIEW FEES ARE PAID.
3. UPON PLAN APPROVAL, A PERMIT WILL BE ISSUED. THE PERMIT MUST BE CONSPICUOUSLY POSTED.
4. AN ALL-WEATHER DRIVING SURFACE (FIRE APPARATUS ACCESS) MUST BE INSTALLED IN LOCATIONS SHOWN ON THE SITE PLAN, PRIOR TO ANY BUILDING CONSTRUCTION BEYOND THE FOUNDATION.
5. ALL PERVIOUS/DECORATIVE PAVING SHALL BE ENGINEERED AND INSTALLED FOR 80,000 POUNDS LIVE-VEHICLE LOADS. ANY PERVIOUS/DECORATIVE PAVING WITHIN 100 FEET OF ANY BUILDING MUST BE APPROVED BY THE FIRE DEPARTMENT.
6. VERTICAL CLEARANCE REQUIRED FOR FIRE APPARATUS IS 13 FEET, SIX INCHES FOR THE FULL 25 FEET WIDTH OF ACCESS DRIVES AND ROUTES FOR INTERNAL CIRCULATION. DEAD-END FIRE APPARATUS ACCESS ROADS IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF FIRE APPARATUS, PER FIGURE B-4 OF THIS MANUAL.
7. THE MAXIMUM ALLOWABLE DRIVEWAY, DRIVE AISLE OR FIRE LANE GRADE IS 15 PERCENT.
8. THE MARKINGS OF FIRE LANES MUST BE RED WITH WHITE STENCILING OR WHITE WITH RED STENCILING READING “FIRE LANE - TOW AWAY ZONE” IN LETTERING NO LESS THAN THREE INCHES IN HEIGHT. THE STENCILING SHALL BE AT INTERVALS OF 35 FEET OR LESS. ALTERNATIVE MARKING OF FIRE LANES MAY BE APPROVED BY THE FIRE CHIEF, OR HIS/HER DESIGNATED AGENT, PROVIDED FIRE LANES ARE CLEARLY IDENTIFIED AT BOTH ENDS AND AT INTERVALS NOT TO EXCEED 35 FEET. EXISTING FIRE LANE MARKINGS SHALL BE GRANDFATHERED PROVIDED THAT THEY MEET THE WORDING AND INTERVAL REQUIREMENTS THAT WERE ACCEPTED ON APPROVED SITE PLANS AND OTHER TYPE FIRE LANE SUBMITTALS APPROVED BY THE FIRE DEPARTMENT. EXISTING FIRE LANES THAT ARE IN NEED OF RE-PAINTING SHALL MEET THE REQUIREMENTS OF THIS SECTION.
9. THE FIRE DEPARTMENT CONNECTION (FDC) CONNECTION SHALL BE INSTALLED WHERE SHOWN ON THE SITE PLAN.
10. HYDRANTS MUST BE INSTALLED WITH THE CENTER OF THE FOUR AND ONE-HALF INCH STEAMER OPENING AT LEAST 18 INCHES ABOVE FINISHED GRADE. THE FOUR AND ONE-HALF INCH STEAMER OPENING MUST FACE THE DRIVEWAY OR STREET WITH THREE- TO SIX-FOOT SETBACKS FROM THE CURB LINE(S). NO OBSTRUCTION IS ALLOWED WITHIN THREE FEET OF ANY HYDRANT, AND THE FOUR AND ONE-HALF INCH OPENING MUST BE TOTALLY UNOBSTRUCTED FROM THE STREET/DRIVEWAY.
11. CONTRACTOR SHALL INSTALL BLUE REFLECTIVE MARKERS IN THE PAVEMENT PER TCESD NO. 6 SPECIFICATIONS. NO IMPROVEMENTS MAY BE OCCUPIED UNTIL THE MARKERS ARE INSTALLED.
12. FIRE HYDRANTS SHALL HAVE NATIONAL HOSE THREADS.
13. STATIC WATER TANK HARD SUCTION CONNECTOR SHALL HAVE SIX-INCH NATIONAL HOSE THREADS.
14. A CERTIFIED OR WITNESSED PRESSURE TEST IS REQUIRED FOR ALL WATER MODELS, REQUIRED HYDRANT FLOW TESTS OR SPRINKLER SYSTEM DESIGNS.
15. HYDRANTS SHALL BE PAINTED SILVER AND THE BONNET AND CAPS SHALL BE PAINTED THE DESIGNATED COLOR PER THE GALLONS PER MINUTE (GPM) AS FOLLOWS:
    - CLASS AA LIGHT BLUE 1500 OR HIGHER GPM
    - CLASS A GREEN 1000-1499 GPM
    - CLASS B ORANGE 500-1499 GPM
    - CLASS C RED LESS THAN 500 GPM
    - CLASS D BLACK OUT OF SERVICE
16. COMMERCIAL DUMPSTERS AND CONTAINERS WITH AN INDIVIDUAL CAPACITY OF ONE- AND ONE-HALF CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN 10 FEET OF OPENINGS, COMBUSTIBLE WALLS OR COMBUSTIBLE EAVE LINES.
17. “KEY BOXES”/“KEY SWITCHES” (KNOX-BOX® RAPID ENTRY SYSTEM) SHALL BE INSTALLED IN THE LOCATION(S) SHOWN ON THE SITE/BUILDING PLANS AS APPROVED BY TCESD NO. 6. CONTACT LTFR FOR ORDERING INFORMATION. NO IMPROVEMENTS MAY BE OCCUPIED UNTIL THE KEY BOX/KEY SWITCH IS INSTALLED.

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APPD DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

GENERAL NOTES 1

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED PROFESSIONAL ENGINEER
03/14/25

MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025
FILE NO. 1420 - EST - GENERAL NOTES.dwg LAYOUT: GENERAL NOTES 1
JOB NO. 11051-111
SHEET NO. 2 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - GENERAL NOTES.dwg / LAYOUT: GENERAL NOTES 1

TRAVIS COUNTY CONSTRUCTION NOTES FOR DEVELOPMENT AND TRAVIS COUNTY CONSTRUCTION NOTES FOR SUBDIVISION DEVELOPMENT STREETS, DRAINAGE, WATER, AND WASTEWATER

1. DRIVEWAY AND DRAINAGE CONSTRUCTION STANDARDS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRAVIS COUNTY STANDARDS UNLESS OTHERWISE SPECIFIED AND APPROVED BY TRAVIS COUNTY.
2. PRIOR TO BEGINNING ANY CONSTRUCTION, A TRAVIS COUNTY BASIC DEVELOPMENT PERMIT SHALL BE OBTAINED AND POSTED ON THE JOB SITE. DEVELOPMENT OUTSIDE OF APPROVED CONSTRUCTION BOUNDARIES IS PROHIBITED WITHOUT A REVISED PERMIT.
3. PRIOR TO BEGINNING ANY CONSTRUCTION, ALL STORMWATER POLLUTION PREVENTION PLAN (SW3P) REQUIREMENTS SHALL BE MET. NOTICES POSTED ON SITE, AND THE FIRST PHASE OF TEMPORARY EROSION CONTROL ITEMS SHALL BE IN PLACE.
4. A TRAFFIC CONTROL PLAN SHALL BE REVIEWED AND APPROVED BY TRAVIS COUNTY PRIOR TO BEGINNING CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY.
5. THE CONTRACTOR SHALL NOTIFY TRAVIS COUNTY AT 473-9383 (PLANNING AND ENGINEERING SERVICES DIVISION) AND STORMWATER MANAGEMENT INSPECTION AT 854-7590 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION AND TO SCHEDULE A MANDATORY PRECONSTRUCTION CONFERENCE.
6. CONTOUR DATA SOURCE: AERIAL TOPOGRAPHY AND DESIGN SURVEY.
7. CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN THE 100-YEAR FLOODPLAIN OR AREAS OUTSIDE OF PERMIT BOUNDARIES. ANY REGULATORY PERMITS REQUIRED FOR DISPOSAL OF EXCESS EXCAVATED MATERIAL OFF THE PERMIT SITE MUST BE OBTAINED FROM THE APPLICABLE JURISDICTIONS. DISPOSAL OF SOLID WASTE MATERIALS, AS DEFINED BY STATE LAW (LITTER, TIRES, DECOMPOSABLE WASTES, ETC.) IS PROHIBITED IN PERMANENT FILL SITES.
8. WITHIN TRAVIS COUNTY RIGHT-OF-WAY, DRIVEWAYS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF AUSTIN CRITERIA, EXCEPT AS NOTED IN 82.302 (G) OF THE STANDARDS.
9. THE DESIGN ENGINEER IS RESPONSIBLE FOR THE ADEQUACY OF THE CONSTRUCTION PLANS. IN REVIEWING THE CONSTRUCTION PLANS, TRAVIS COUNTY WILL RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
10. A MINIMUM OF TWO SURVEY BENCHMARKS SHALL BE SET AND DESCRIBED AS PER SUBDIVISION INCLUDING DESCRIPTION, LOCATION, AND ELEVATION. TIE TO TRAVIS COUNTY STANDARDS WHEN POSSIBLE.
11. ANY EXISTING PAVEMENT, CURBS, SIDEWALKS, OR DRAINAGE STRUCTURES WITHIN COUNTY RIGHT-OF-WAY WHICH ARE DAMAGED, REMOVED, OR SILTED, WILL BE REQUIRED BY THE CONTRACTOR AT HIS/HER EXPENSE BEFORE APPROVAL OF THE CONSTRUCTION.
12. THE ONE-CALL UTILITY SYSTEM WILL BE USED: DIAL 472-2822 AND THE TEXAS UNDERGROUND FACILITY NOTIFICATION CORPORATION AT LEAST 48 HOURS BEFORE YOU DIG.
13. ALL STORM SEWER PIPES SHALL BE CLASS III RCP, UNLESS OTHERWISE NOTED.
14. CONTRACTOR IS REQUIRED TO OBTAIN A TRAVIS COUNTY WORK IN RIGHT-OF WAY (UTILITY INSTALLATION NOTICE) PERMIT PRIOR TO ANY CONSTRUCTION OF UTILITIES WITHIN ANY TRAVIS COUNTY RIGHT-OF-WAY.
15. THIS PROJECT IS LOCATED ON FLOOD INSURANCE RATE MAP 48453CO4O5H & 48453C0415H, EFFECTIVE DATE SEPTEMBER 26, 2008.
16. SOIL DATA SOURCES:GEOTECHNICAL REPORT BY ARIAS GEOPROFESSIONALS.
17. ALL TREES WITHIN THE RIGHT-OF-WAY AND DRAINAGE EASEMENTS SHALL BE SAVED OR REMOVED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.
18. A PRECONSTRUCTION CONFERENCE IS REQUIRED WITH TNR PRIOR TO START OF ANY CONSTRUCTION IN TRAVIS COUNTY RIGHT-OF-WAY.
19. THE UTILITY CONTRACTOR SHALL GIVE TNR AT LEAST 48 HOURS NOTICE PRIOR TO CONSTRUCTION.
20. PRIOR TO BEGINNING ANY CONSTRUCTION, THE TEMPORARY EROSION CONTROL ITEMS SHALL BE IN PLACE.
21. CONTRACTOR SHALL KEEP THE TNR PLANNING AND ENGINEERING SERVICES DIVISION (473- 9383) CURRENT ON THE STATUS OF EACH STAGE OF CONSTRUCTION ACTIVITY.
22. TNR APPROVAL OF THE CONSTRUCTION IS REQUIRED ON ALL WORK COMPLETED PRIOR TO ACCEPTANCE AND COMMENCEMENT OF ONE-YEAR PERFORMANCE PERIOD.
23. THE CONTRACTOR SHALL INSTALL ALL TRAFFIC MARKING AND SIGNAGE PER CURRENT TXDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PRIOR TO TNR APPROVAL.

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 AREA OFFICE - 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.

WEST TRAVIS COUNTY 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 AT HTTPS://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 THEWATER 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 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.

WEST TRAVIS COUNTY PUA WATER AND WASTE WATER UTILITY NOTES (CONT'D)

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 72 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.
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 BY THE 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. 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 CONFORMING TO AWWA C509, 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 THAT IT IS 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. TEST STATIONS SHALL BE INSTALLED WHERE WATER AND/OR WASTEWATER LINES/APPURTENANCES AND WASTEWATER MANHOLES ARE INSTALLED OFFSITE OR OUTSIDE PAVEMENT.
23. ALL VALVE RISERS SHALL HAVE A 1'-6" SQUARE CONCRETE BOX POURED AROUND THEM AT FINISHED GRADE.
24. ALL MANHOLES SHALL BE LINED WITH A CORROSION RESISTANT LINING APPROVED BY THE WTCPUA.
25. 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 THIRDMANHOLE.
26. THE DOWNSTREAM END OF ANY FORCE MAIN SHALL BE TERMINATED IN A SANITARY SEWER MANHOLE IN A MANNER TO MINIMIZETURBULENCE.
27. CONTRACTOR SHALL HAVE NECESSARY EROSION AND SEDIMENTATION CONTROLS IN PLACE PRIOR TO COMMENCING WATER/WASTEWATER FACILITY CONSTRUCTION.
28. 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.
29. 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 ORIN PUBLIC RIGHT-OF-WAY.
30. 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.
31. WHERE EXISTING WATER AND/OR WASTEWATER INFRASTRUCTURE IS TO BE ABANDONED, THE ENGINEER SHALL SUBMIT AN ABANDONMENT PLAN FOR APPROVAL BY THE WTCPUA.
32. WATER SERVICES SHALL BE INSTALLED USING HDPE PIPE. COPPER IS NOT ALLOWED. MINIMUM SERVICE TAP SHALL BE 2” DIAMETER.
33. 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.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CONTRIBUTING ZONE PLAN GENERAL CONSTRUCTION NOTES

1. WRITTEN CONSTRUCTION NOTIFICATION SHOULD BE PROVIDED TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION SHOULD INCLUDE THE DATE ON T WHICH THE REGULATED ACTIVITY WILL COMMENCE. THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR WITH THE NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN 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 TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM MAY BE INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL.
4. PRIOR TO COMMENCING CONSTRUCTION ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECIFIED IN THE SWPPP SECTION OF THE APPROVED EDWARDS AQUIFER CONTRIBUTING ZONE PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.
5. 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).
6. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENT PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.
7. 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).
8. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE AND STORED ON-SITE MUST HAVE PROPER E&S CONTROLS INSTALLED.
9. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND CONSTRUCTION ACTIVITIES WILL NOT RESUME WITHIN 21 DAYS. WHEN THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY IS PRECLUDED BY WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
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, AD THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
11. THE HOLDER OF ANY APPROVED CONTRIBUTING ZONE PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
    - 11.1. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OF PERMANENT PONDS, DAMS, BERMS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
    - 11.2. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
    - 11.3. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER AND HYDROLOGICALLY CONNECTED SURFACE WATER; OR
    - 11.4. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED IN A CONTRIBUTING ZONE PLAN AS UNDEVELOPED.

AUSTIN REGIONAL OFFICE	SAN ANTONIO REGIONAL OFFICE
2800 S IF 35, STE 100	14250 JUDSON ROAD
AUSTIN, TX 78704-5700	SAN ANTONIO, TX 78233-4480
PHONE (512) 339-2929	PHONE (210) 490-3096
FAX (512) 339-3795	FAX (210)545-4329

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

TCEQ WATER NOTES:

1. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
2. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST ALSO BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 P.S.I. OR A STANDARD DIMENSION RATIO OF 16 OR LESS.
3. 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.
4. WATER TRANSMISSION AND DISTRIBUTION LINES MUST 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.
5. THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY AWWA FORMULAS.
6. ALL WATER LINES SHALL BE HYDROSTATIC LEAK TESTED IN CONFORMANCE WITH AWWA C600 FOR DUCTILE IRON PIPE AND AWWA C605 FOR PVC PIPE.
7. ALL WATER LINES SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651.
8. DISCHARGE OF HYDROSTATIC TEXT WATER SHALL BE IN ACCORDANCE WITH STATE REGULATIONS AND SHALL BE RELEASED IN A MANNER THAT WILL NOT ERODE SOILS.

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APPD DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

GENERAL NOTES 2

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED PROFESSIONAL ENGINEER
03/14/25

MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025
FILE NO. 1420 - EST - GENERAL NOTES.dwg LAYOUT: GENERAL NOTES 2
JOB NO. 11051-111
SHEET NO. 3 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - GENERAL NOTES.dwg / LAYOUT: GENERAL NOTES 2

N

0 40 80
20 60

SCALE: 1"=40'

LEGEND

- PROPERTY BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING TREE
- XX EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FENCE
- BENCHMARK

BENCHMARKS:

TBM #1
FIRE HYDRANT
TOP OF BOLT, TOP FLANGE, SOUTH SIDE - NEXT TO 'M' MADE IN USA AS SHOWN HEREON.
ELEV. = 1244.68'

TBM #2
"[]" CUT ON TOP OF WATER VAULT - NORTHWEST CORNER AS SHOWN HEREON.
ELEV. = 1241.51'

TBM #3
"[]" CUT ON CONCRETE MIDDLE OF GARAGE DOOR, EXISTING WATER TOWNER AS SHOWN HEREON.
ELEV. = 1246.14'

TBM #4
COTTON GIN SPINDLE FOUND IN 12" LIVE OAK AS SHOWN HEREON.
2020 ELEV. = 1248.16'
(2005 ELEV. = 1248.32')

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP'D DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

EXISTING CONDITIONS

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-3204
Texas Registered Engineering Firm F-353

DESIGNED BY:	CES
DRAWN BY:	MRS
CHECKED BY:	JKB
APPROVED BY:	CES
DATE:	3/14/2025
FILE NO.	1420 - EST - EXISTING.dwg LAYOUT: EXISTING CONDITIONS
JOB NO.	11051-111
SHEET NO.	4 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - EXISTING.dwg / LAYOUT: EXISTING CONDITIONS

N

0 20 40
10 30

SCALE: 1"=20'

LEGEND

- PROPERTY BOUNDARY
- PROPOSED ACCESS ROAD
- LOC LOC LIMITS OF CONSTRUCTION
- EASEMENT
- EXISTING LOT LINE
- EXISTING TREE
- EXISTING FENCE
- EXISTING WATERLINE

NORTHING AND EASTING TABLE

POINT #	NORTHING	EASTING
1	10079514.9510	3022081.4584
2	10079514.6701	3022059.4664
3	10079543.5752	3022030.0353
4	10079516.0440	3022008.8625
5	10079515.8935	3022014.1460
6	10079533.4721	3022020.2308
7	10079501.1408	3022052.9272
8	10079481.0955	3022054.4947
9	10079548.7393	3022037.2113

WTCPUA 1420 - TRACT 1

	EXISTING		PROPOSED	
	SQFT	AC	SQFT	AC
SITE AREA	43,544	1.00	43,544	1.00
IMPERVIOUS STRUCTURES	2,560	0.06	3,777	0.09
IMPERVIUOS DRIVEWAY	2,208	0.05	3,261	0.07
TOTAL IMPERVIOUS	4,768	0.11	7,038	0.16
TOTAL IC PERCENT	10.9%		16.2%	

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP.DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

SITE PLAN

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

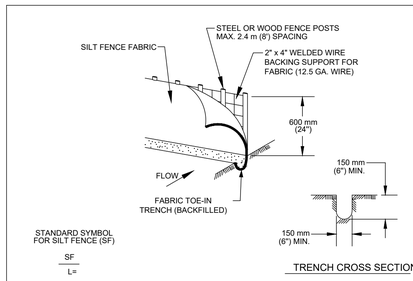
DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025

FILE NO. 1420 - EST - SITE DIMENSION.dwg
LAYOUT: SITE PLAN

JOB NO. 11051-111

SHEET NO. 5 OF 10

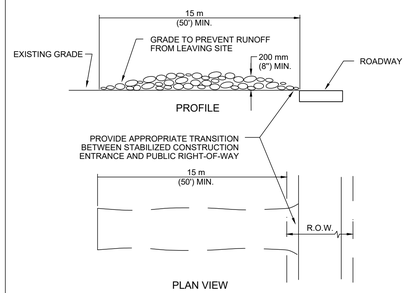
PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - SITE DIMENSION.dwg / LAYOUT: SITE PLAN



NOTES:

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 PROMPTY 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.

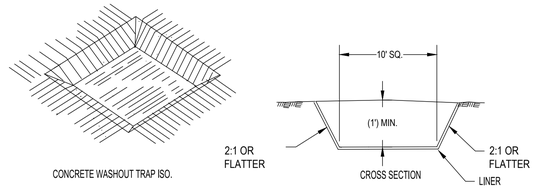
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		SILT FENCE	
RECORD COPY SIGNED BY MORGAN BYARS	*09/01/2011* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1



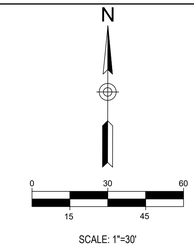
NOTES:

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

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STABILIZED CONSTRUCTION ENTRANCE	
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



CONCRETE WASHOUT AREA
NOT TO SCALE



SCALE: 1"=30'

LEGEND

- PROPERTY BOUNDARY
- PROPOSED EDGE OF PAVEMENT
- TREE PROTECTION
- EXISTING PROPERTY LINE
- EXISTING FENCE
- XXX — EXIST MAJOR CONTOUR
- EXIT MINOR CONTOUR
- 840 — PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- LOC — PROPOSED LIMITS OF CONSTRUCTION
- LOC/SF — PROPOSED LIMITS OF CONSTRUCTION AND SILT FENCE
- SF — PROPOSED SILT FENCE
- W W — PROPOSED WATER
- EXISTING WATER
- TEMPORARY SPOILS SITE/STAGING AREA
- CONCRETE WASHOUT AREA
- STABILIZED CONSTRUCTION ENTRANCE
- TREE TO REMAIN
- TREE TO REMOVE

TREE LIST

TREE NO.	PROTECT	REMOVE
1961		X
1962		X
1963		X

NOTE:

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NO.	DESCRIPTION	BY	DATE	APPROVED	APP.DATE

WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

EROSION AND SEDIMENTATION CONTROL

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
MURFEE ENGINEERING COMPANY
Texas Registered Engineering Firm F-363

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025

FILE NO. 1420 - EST - ESC.dwg
LAYOUT: EROSION AND SEDIMENTATION CONTROL
JOB NO. 11051-111
SHEET NO. 6 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - ESC.dwg / LAYOUT: EROSION AND SEDIMENTATION CONTROL

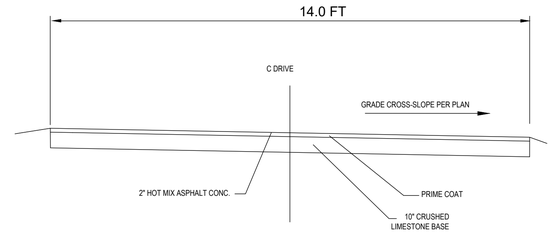
LEGEND

- PROPERTY BOUNDARY
- PROPOSED EDGE OF PAVEMENT
- EXISTING LOT LINE
- EXISTING FENCE
- EXIST MAJOR CONTOUR
- EXIT MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED WATER
- EXISTING WATER

N

0 20 40
10 30

SCALE: 1"=20'



NOTES:

1. STRIP OFF AT LEAST 6" OF THE SURFICIAL SOILS AND ALL ORGANICS.
2. SCARIFY AND COMPACT SUBGRADE TO AT LEAST 95% MAX. DRY DENSITY.
3. COMPACT BASE TO 100% OF MAX. DRY DENSITY. (MINIMUM 2 LIFTS)
4. GRADE TO DRAIN.
5. CONSTRUCT IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS FOR FLEXIBLE PAVEMENT.

ASPHALT ACCESS DRIVE

SCALE: N.T.S.

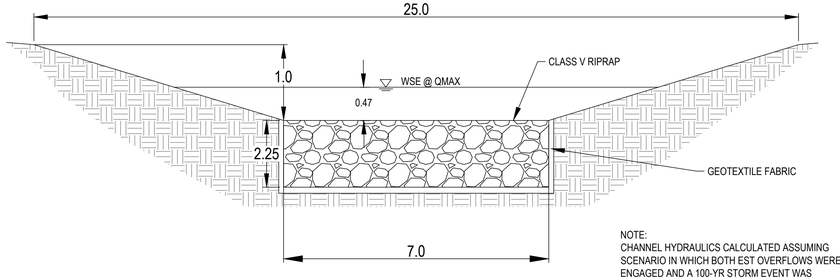
NOTE:

1. ROCK RIPRAP PLACED AT A DEPTH OF 1.5 TIMES LARGEST STONE DIAMETER (MIN. 18"). NONWOVEN GEOTEXTILE FABRIC TO BE PLACED PER COA SPECIFICATION 620S.
2. TOP OF RIPRAP IS TO MATCH GRADES SHOWN.

CLASS V ROCK RIPRAP GRADATION TABLE		
	MIN	MAX
D15 (IN)	11.00	15.50
D50 (IN)	17.00	20.50
D85 (IN)	23.50	27.50
D100 (IN)	--	36

GEOTEXTILE FABRIC

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
MATERIAL	NONWOVEN GEOTEXTILE FABRIC		
UNIT WEIGHT		Oz/SQ.YD.	8 (min.)
FILTRATION RATE		IN./SEC.	0.08 (min.)
PUNCTURE STRENGTH	ASTM D-751 (MODIFIED)	LB.	125 (min.)
MULLEN BURST STRENGTH	ASTM D-751	PSI	400 (min.)
TENSILE STRENGTH	ASTM D-1682		200 (min.)
EQUIV. OPENING SIZE	US STANDARD SIEVE		80 (min.)



SECTION A-A

SCALE: N.T.S.

NOTE:
CHANNEL HYDRAULICS CALCULATED ASSUMING SCENARIO IN WHICH BOTH EST OVERFLOWS WERE ENGAGED AND A 100-YR STORM EVENT WAS OCCURRING.
QMAX: 15 CFS
V: 2.84 FPS
D: 0.47 FT

NOTE:

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WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

GRADING AND PAVING PLAN

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-3204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY:	CES
DRAWN BY:	MRS
CHECKED BY:	JKB
APPROVED BY:	CES
DATE:	3/14/2025
FILE NO.	1420 - EST - GRADING.dwg LAYOUT: GRADING AND PAVING PLAN
JOB NO.	11051-111
SHEET NO.	7 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - GRADING.dwg / LAYOUT: GRADING AND PAVING PLAN

N

0 30 60
15 45

SCALE: 1"=30'

LEGEND

- PROPERTY BOUNDARY
- DRAINAGE BOUNDARIES
- A10 / XX — DRAINAGE AREA W/ ACREAGE
- FLOW PATH
- FLOW ARROW
- 715 — EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

NOTE:

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EXISTING DRAINAGE

STATE OF TEXAS
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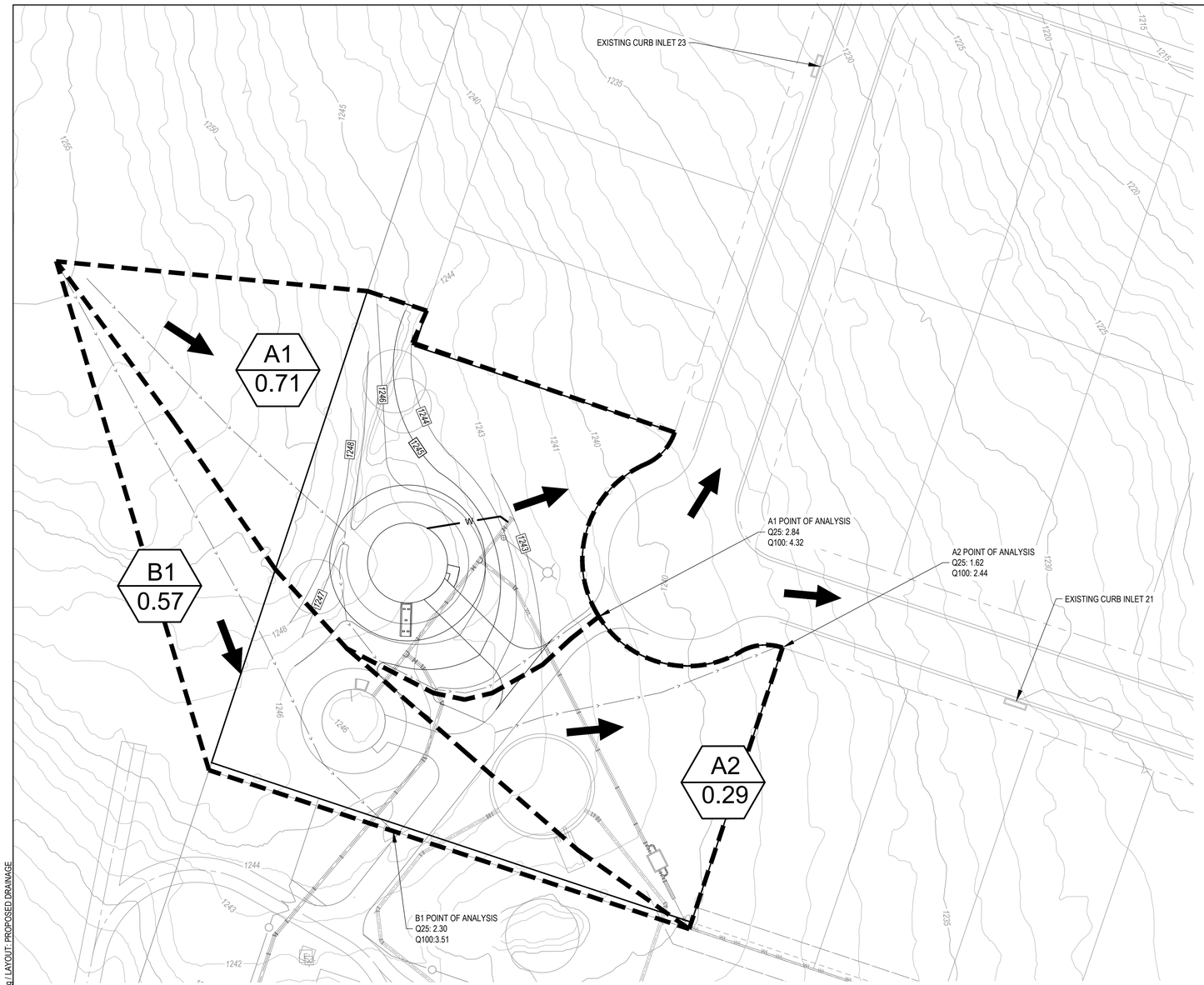
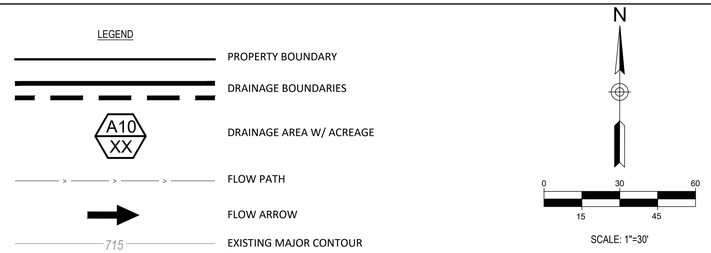
DESIGNED BY:	CES
DRAWN BY:	MRS
CHECKED BY:	JKB
APPROVED BY:	CES
DATE:	3/14/2025
FILE NO.	1420 - EST - DRAINAGE.dwg LAYOUT: EXISTING DRAINAGE
JOB NO.	11051-111
SHEET NO.	8 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - DRAINAGE.dwg / LAYOUT: EXISTING DRAINAGE





PROJECT: WTPCUA 1420 EST

CALCULATION OF IMPERVIOUS COVER

Condition	Area	Total Area (Sf)	Total Area (Ac)	Imperv. Cover (Sf)	Imperv. Cover (Ac)	Imperv. Cover (%)
Existing	A1	28754	0.66	45	0.00	0.16%
Existing	A2	14896	0.34	2,630	0.06	17.66%
Existing	B1	24839	0.57	2,093	0.05	8.43%

Condition	Area	Total Area (Sf)	Total Area (Ac)	Imperv. Cover (sf)	Imperv. Cover (Ac)	Imperv. Cover (%)
Proposed	A1	30835	0.71	2,366	0.05	7.7%
Proposed	A2	12807	0.29	2,579	0.06	20.1%
Proposed	B1	24839	0.57	2,093	0.05	8.4%
	TOTAL	68481	1.57	7,038	0.16	10.28%

NOTE:
1. DRAINAGE AREAS A1 AND A2 WERE INCLUDED IN THE PROVENCE PHASE 1 SECTION 7 SUBDIVISION DRAINAGE ANALYSIS AND DESIGN.
2. DA A1 IS CONVEYED TO EXISTING CURB INLET 23 AND DA A2 IS CONVEYED TO EXISTING CURB INLET 21, WHICH THEN DISCHARGE INTO AN EXTENDED DETENTION POND. SEE SHEET 10. INLETS, STORM SEWER, AND POND WERE RE-ANALYZED WITH THE ADDED FLOW COMING OFF OF DRAINAGE AREAS A1 AND A2 TO CONFIRM CAPACITY.
3. NO IMPROVEMENTS WERE PROPOSED IN DRAINAGE AREA B1, THEREFORE NO CHANGE IN FLOW PATTERN OR RATE.

TIME OF CONCENTRATION - EXISTING

Dmg Area	Elev1	Elev2	L (ft)	S (ft/ft)	Flow Type	n	Vel (fps)	t(c)
A1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1241	219	0.050	SCF-U	-	3.6	1.0
							Total (min):	9.8
A2	1248	1244	100	0.040	Sheet	0.200	-	8.4
	1244	1238.5	133	0.041	SCF-U	-	3.3	0.7
							Total (min):	9.0
B1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1244.5	216	0.035	SCF-U	-	3.0	1.2
							Total (min):	10.03

TIME OF CONCENTRATION - PROPOSED

Dmg Area	Elev1	Elev2	L (ft)	S (ft/ft)	Flow Type	n	Vel (fps)	t(c)
A1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1243.5	190	0.045	SCF-U	-	3.4	0.9
	1243.5	1241	62	0.040	SCF-P	-	4.1	0.3
							Total (min):	10.0
A2	1243	1241.5	50	0.030	Sheet	0.200	-	5.4
	1241.5	1238.5	78	0.038	SCF-U	-	3.2	0.4
							Total (min):	5.8
B1	1255.5	1252	100	0.035	Sheet	0.200	-	8.8
	1252	1244.5	216	0.035	SCF-U	-	3.0	1.2
							Total (min):	10.03

EXISTING - RUNOFF COEFFICIENT CALCULATIONS

AREA	TOTAL (SF)	TOTAL (ACRES)	% IMP. COVER	IMPERV. (ACRES)	PERVIOUS (ACRES)	2 YEAR	10 YEAR	25 YEAR	100 YEAR
A1	28,754	0.66	0.2%	0.00	0.66	0.29	0.35	0.39	0.46
A2	14,896	0.34	17.7%	0.06	0.28	0.37	0.43	0.47	0.55
B1	24,839	0.57	8.4%	0.05	0.52	0.33	0.39	0.43	0.50

PROPOSED - RUNOFF COEFFICIENT CALCULATIONS

AREA	TOTAL (SF)	TOTAL (ACRES)	% IMP. COVER	IMPERV. (ACRES)	PERVIOUS (ACRES)	2 YEAR	10 YEAR	25 YEAR	100 YEAR
A1	30,835	0.71	7.7%	0.05	0.65	0.32	0.39	0.43	0.50
A2	12,807	0.29	20.1%	0.06	0.23	0.38	0.44	0.49	0.56
B1	24,839	0.57	8.4%	0.05	0.52	0.33	0.39	0.43	0.50

100 YR. INLET CALCULATIONS - EXISTING CONDITIONS

INLET	DRNG AREA	Q	Q PASS	TOTAL Q	SLOPE	a	ST. WIDTH	Yo	PONDED	R.F.	Qa/La	La	LENGTH	L/La	a/Yo	Q/Qa	Q	Q(PASS)
		(CFS)	(CFS)	(Qa)	(FT/FT)	(FT)	(FT)	(FT)	WIDTH(FT)	(%)		(FT)	(FT)			FIG 4-11	(CFS)	
IN23	DA23	13.96	0	14.0	0.0728	0.42	28	0.38	7.7	0	0.85	16.4	10	0.6	1.1	1	14.0	0
IN21	DA21	9.28	0.0	9.3	0.0646	0.42	28	0.34	6.3	0	0.80	11.6	10	0.9	1.2	1	9.3	0

100 YR. INLET CALCULATIONS - PROPOSED CONDITIONS

INLET	DRNG AREA	Q	Q PASS	TOTAL Q	SLOPE	a	ST. WIDTH	Yo	PONDED	R.F.	Qa/La	La	LENGTH	L/La	a/Yo	Q/Qa	Q	Q(PASS)
		(CFS)	(CFS)	(Qa)	(FT/FT)	(FT)	(FT)	(FT)	WIDTH(FT)	(%)		(FT)	(FT)			FIG 4-11	(CFS)	
IN23	DA23	14.53	0	14.5	0.0728	0.42	28	0.39	7.9	0	0.86	17.0	10	0.6	1.1	1	14.5	0
IN21	DA21	9.33	0.0	9.3	0.0646	0.42	28	0.34	6.4	0	0.80	11.6	10	0.9	1.2	1	9.3	0

NOTE: A1 AND A2 ARE WITHIN THE PROVENCE SUBDIVISION DRAINAGE AREAS 23 & 21.

STORM SEWER CALCULATIONS

EXISTING CONDITIONS	Q	V	D
SS-23	13.96	15.75	0.75
SS-21	9.28	13.39	0.62
PROPOSED CONDITIONS	Q	V	D
SS-23	14.53	15.91	0.77
SS-21	9.33	13.41	0.62

EXISTING - CALCULATION OF STORMWATER RUNOFF

AREA	AC	t(c) (min.)	C(2)	I(2)	Q(2)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
A1	0.66	9.84	0.29	5.09	0.98	0.35	7.70	1.78	0.39	9.45	2.44	0.46	12.33	3.75
A2	0.34	9.05	0.37	5.25	0.66	0.43	7.95	1.18	0.47	9.76	1.58	0.55	12.73	2.39
B1	0.57	10.03	0.33	5.05	0.94	0.39	7.65	1.70	0.43	9.39	2.30	0.50	12.24	3.51

PROPOSED - CALCULATION OF STORMWATER RUNOFF

AREA	AC	t(c) (min.)	C(2)	I(2)	Q(2)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
A1	0.71	10.01	0.32	5.05	1.16	0.39	7.65	2.09	0.43	9.39	2.84	0.50	12.25	4.32
A2	0.29	5.80	0.38	6.06	0.68	0.44	9.22	1.20	0.49	11.31	1.62	0.56	14.77	2.44
B1	0.57	10.03	0.33	5.05	0.94	0.39	7.65	1.70	0.43	9.39	2.30	0.50	12.24	3.51

SUMMARY OF FLOW INCREASES

AREA	2-YR	10-YR	25-YR	100-YR
A1	0.18	0.31	0.40	0.57
A2	0.01	0.03	0.03	0.05
B1	0.00	0.00	0.00	0.00

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WEST TRAVIS COUNTY P.U.A.
1420 ELEVATED STORAGE TANK
17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

PROPOSED DRAINAGE

STATE OF TEXAS
CHEYENNE E. STOWERS
144255
REGISTERED
PROFESSIONAL ENGINEER
03/14/25

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 3/14/2025

FILE NO. 1420 - EST - DRAINAGE.dwg
LAYOUT: PROPOSED DRAINAGE

JOB NO. 11051-111

SHEET NO. 9 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - DRAINAGE.dwg / LAYOUT: PROPOSED DRAINAGE

LEGEND

- WZKW˜Zdz KhE˘
- ˘Z /E '˜ KhE˘ Z/˜·
- A10 XX — ˘Z /E '˜ Z˜ tl Z
- &>Kt W d,
- &>Kt ZZKt
- 715 — ˜y/^d/E' D :KZ Kt
- ˜y/^d/E' D/EKZ K
- 840 — WZKWK^˜˘ D :KZ
- WZKWK^˜˘ D/EKZ

N

0 100 200
50 150

SCALE: 1"=100'

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: 1420 EST
Date Prepared: 2/25/2025

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

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

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

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

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

County =	Travis	
Total project area included in plan * =	1.00	acres
Predevelopment impervious area within the limits of the plan * =	0.11	acres
Total post-development impervious area within the limits of the plan* =	0.16	acres
Total post-development impervious cover fraction * =	0.16	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	44	lbs.

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

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

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

Drainage Basin/Outfall Area No. = A

Total drainage basin/outfall area =	1.00	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.11	acres
Post-development impervious fraction within drainage basin/outfall area =	0.11	
$L_{M\ THIS\ BASIN}$ =	96	lbs.

NOTE:
1. PER THE 2021 PROVENCE PHASE 1, SECTION 7 APPROVED CONTRIBUTING ZONE PLAN (EAPP ID NO. 11002470):
   REQUIRED LM TOTAL PROJECT = 6834 LBS
   PROVIDED LR TOTAL PROJECT = 9721 LBS
2. THE PROPOSED IMPROVEMENTS WILL INCREASE REQUIRED LOADING BY 96 LBS. THE PROVIDED REMOVAL WILL REMAIN THE SAME:
   REQUIRED LM TOTAL PROJECT = 6930 LBS
   PROVIDED LR TOTAL PROJECT = 9721 LBS

CALCULATION OF PROPOSED FULL POND VOLUME

ELEVATION	AREA (sq.ft.)	AVG. AREA	ELEV2 - ELEV1	VOL. (cf)	CUMULATIVE VOL. C.F.	CUMULATIVE VOL. AC-FT
1,190.0	65,581	-	-	-	0	0.000
1,191.0	74,485	70,033	1.0	70,033	70,033	1.608
1,192.0	83,389	78,937	1.0	78,937	148,970	3.420
1,193.0	93,469	88,429	1.0	88,429	237,399	5.450

HEC-HMS INPUT DATA

AREA	FREQUENCY				
	AC	SQ MI	CN	IC	T(LAG)
ED-1 (Pre-Developed)	36.48	0.0570	79.4	0.0%	10.0
ED-1 (Proposed)	36.48	0.0570	79.4	29.9%	8.2

HEC-HMS OUTPUT DATA

AREA	FREQUENCY			
PREDEVELOPED CONDITIONS	2-YR	10-YR	25-YR	100-YR
ED-1	83.8	167.0	225.9	323.6
PROPOSED CONDITIONS	2-YR	10-YR	25-YR	100-YR
ED-1	109.9	198.4	260.0	362.2
Detention Pond El.	1191.0	1191.6	1191.9	1192.5
Detention Pond	65.0	135.3	182.5	266.9

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17420 HAMILTON POOL ROAD
AUSTIN, TEXAS

OVERALL DRAINAGE AND WATER QUALITY

STATE OF TEXAS
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DESIGNED BY: CES
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DATE: 3/14/2025

FILE NO. 1420 - EST - DRAINAGE.dwg LAYOUT: OVERALL DRAINAGE
JOB NO. 11051-111
SHEET NO. 10 OF 10

PLOT DATE: 2025-3-14
FILE PATH: W:\WTCPUA\Facilities\Water\1420 EST #2 HPR\Site Plan\CAD\1420 - EST - DRAINAGE.dwg / LAYOUT: OVERALL DRAINAGE