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July 24, 2023

TCEQ Austin Regional Office 12100 Park 35 Circle Austin, TX 78753

RE: Contributing Zone Plan Lot 1A, Block A, Stone Wall Ranch Subdivision, Section 1

This letter is submitted on behalf of Liberty Hill Development Group, LLC in conjunction with and support of the enclosed Contributing Zone Plan Submittal Form for Stone Wall Ranch Subdivision, Section 1.

Liberty Hill Development Group, LLC is planning to permanently construct a Sherwin Williams located within Stone Wall Ranch Subdivision, Section 1. The attached road map depicts the location of the project site and Stone Wall Ranch Subdivision, Section 1 boundary. This application has been prepared according to the guidelines outlined in 30 TAC, Chapter 213, Subchapter B. Please review the application for completeness and compliance with applicable Edward Aquifer Contributing Zone regulations for development.

Please feel free to contact me if you have any questions or require additional information.

Sincerely, Jack Zanger, Project Manager Triangle Engineering, LLC jzanger@triangle-engr.com 469-331-8566

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 <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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: Sherwin Williams				2. Regulated Entity No.: To be assigned				
3. Customer Name: Liberty Hill Development Group			4. Customer No.: To be assigned					
5. Project Type: (Please circle/check one)	New	Modification Ex		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. Sit	e (acres):	0.85	
9. Application Fee:	\$4000	10. Pe	10. Permanent BMP(s)		s):	N/A		
11. SCS (Linear Ft.):	N/A	12. AST/UST (No.		lo. Tanks):		N/A		
13. County:	Williamson	14. W	14. Watershed:			South Fork San Gabriel Rive		a Gabriel River

Application Distribution

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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)				
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	Barton Springs/ Edwards Aquifer	NA	
City(ies) Jurisdiction	Austin Buda 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 X_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.

Jack Zanger

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date 8-28-23

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

EDWARDS AQUIFER APPLICATION CONTRIBUTING ZONE PLAN

COMPANY: Liberty Hill Development Group LLC PROJECT NAME: Sherwin Williams

> 12360 W. STATE HIGHWAY 29 LIBERTY HILL, TEXAS 78642

PLAN DATE: July 24, 2023

Prepared for:



Contact: Gavin Melia Phone: 910-724-6720 120 Market SQ., Floor 2 Pinehurst, NC 28374

Prepared By:



Contact: Jack Zanger Phone: 469-331-8566 1782 West McDermott Drive Allen, TX, 75013

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TCEQ Agent Authorization Form

TCEQ Core Data Form

Williamson CAD Property Information

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: Jack Zanger

Date: <u>08/28/2023</u>

Signature of Customer/Agent:

Regulated Entity Name: Sherwin Williams

Project Information

- 1. County: Williamson
- 2. Stream Basin: South Fork San Gabriel River
- 3. Groundwater Conservation District (if applicable): N/A
- 4. Customer (Applicant):

Contact Person: Gavin MeliaEntity: Liberty Hill Development Group, LLCMailing Address: 120 Market SQ., Floor 2City, State: Pinehurst, NCZip: 28374Telephone: 910-724-6720Fax: _____Email Address: gavin@baselinedevelopment.com

TCEQ-10257 (Rev. 02-11-15)

5. Agent/Representative (If any):

Contact Person: <u>Jack Zanger</u> Entity: <u>Triangle Engineering LLC</u> Mailing Address: <u>1782 W McDermott</u> City, State: <u>Allen, TX</u> Telephone: <u>469-331-8566</u> Email Address: jzanger@triangle-engr.com

Zip: <u>75013</u> Fax: _____

- 6. Project Location:
 - \boxtimes The project site is located inside the city limits of <u>Liberty Hill</u>.
 - 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.

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<u>12360 W. State Hwy 29 Liberty Hill, TX 78642</u>
<u>The NE corner of the intersection of Hwy 29 and Stonewall Prky at the Stonewall West</u>
Commercial development
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- 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. Xttachment 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:

 \square Project site boundaries. \square 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:

\boxtimes	Area of the site
\square	Offsite areas

- \times Offsite areas
- Impervious cover
- \square Permanent BMP(s)
- Proposed site use
- Site history
- Previous development
- Area(s) to be demolished
- 11. Existing project site conditions are noted below:
 - Existing commercial site

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

12. The type of project is:

Residential: # of Lots: _____

Residential: # of Living Unit Equivalents: _____

Other: _____

13. Total project area (size of site): 0.85 Acres

Total disturbed area: 0.49 Acres

- 14. Estimated projected population: <u>0</u>
- 15. The amount and type of impervious cover expected after construction is complete is shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	4,500	÷ 43,560 =	0.103
Parking	3,611	÷ 43,560 =	0.083
Other paved surfaces	18,449	÷ 43,560 =	0.424
Total Impervious Cover	26,560	÷ 43,560 =	0.610

Table 1 - Impervious Cover

Total Impervious Cover 0.610 ÷ Total Acreage 0.851 X 100 = 71.68% 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) Ft²/Acre =	acres.	
Pavement area acr	es ÷ R.O.W. area	acres x 100 =	<u>%</u> 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 <u>Liberty Hill Regional</u> <u>Wastewater</u> (name) Treatment Plant. The treatment facility is:

\square	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

5 of 11

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):

	5			
Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons
			To	otal: Gallons

Table 3 - Secondary Containment

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. \square The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>20</u>'.

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.

 \boxtimes 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): <u>FLOOD INSURANCE RATE MAP NUMBER 48491C0245F, DATED</u> <u>DECEMBER 20, 2019 FOR WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS.</u>

- 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. \square 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. \boxtimes 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. \boxtimes Locations where soil stabilization practices are expected to occur.
- 42. Surface waters (including wetlands).

N/A

- 43. Locations where stormwater discharges to surface water.
 - \square 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. \boxtimes 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	ł
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- 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.



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 multifamily 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.

Texas Commission on Environmental Quality Contributing Zone Plan General Construction Notes

Edwards Aquifer Protection Program Construction Notes - Legal Disclaimer

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

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

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

- 10. The following records should be maintained and made available to the TCEQ upon request:
 - the dates when major grading activities occur;
 - the dates when construction activities temporarily or permanently cease on a portion of the site; and
 - the dates when stabilization measures are initiated.
- 11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
 - B. any change in the nature or character of the regulated activity from that which was originally approved;
 - C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or
 - D. any development of land previously identified as undeveloped in the approved contributing zone plan.

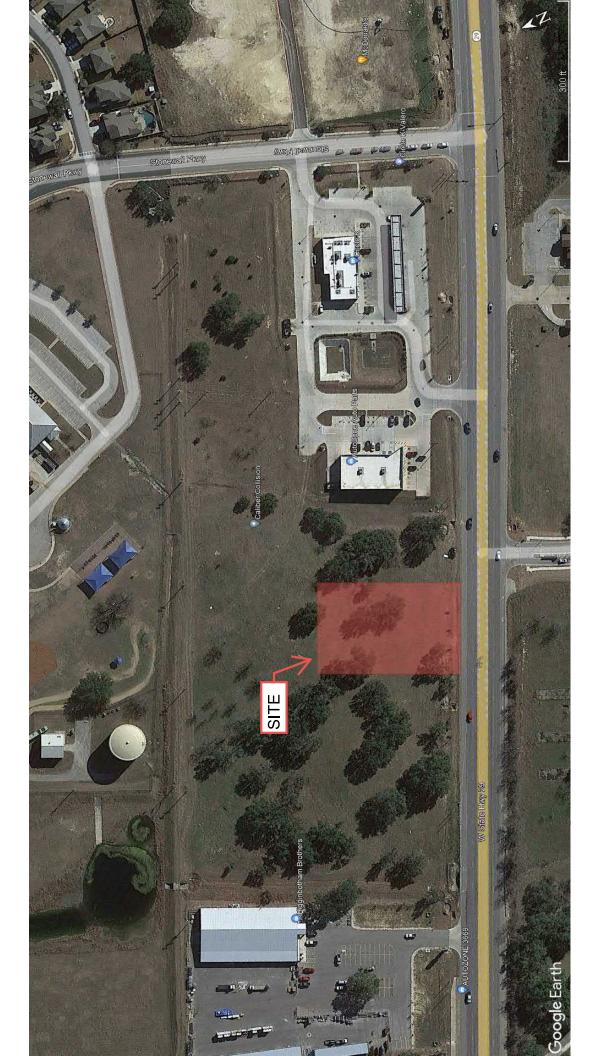
Austin Regional Office	San Antonio Regional Office
12100 Park 35 Circle, Building A	14250 Judson Road
Austin, Texas 78753-1808	San Antonio, Texas 78233-4480
Phone (512) 339-2929	Phone (210) 490-3096
Fax (512) 339-3795	Fax (210) 545-4329

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

ATTACHMENT A

ROAD MAP





ATTACHMENT B

USGS QUADRANGLE MAP

PROJECT SITE BOUNDARIES LIBERTY HILL, TEXAS 2019

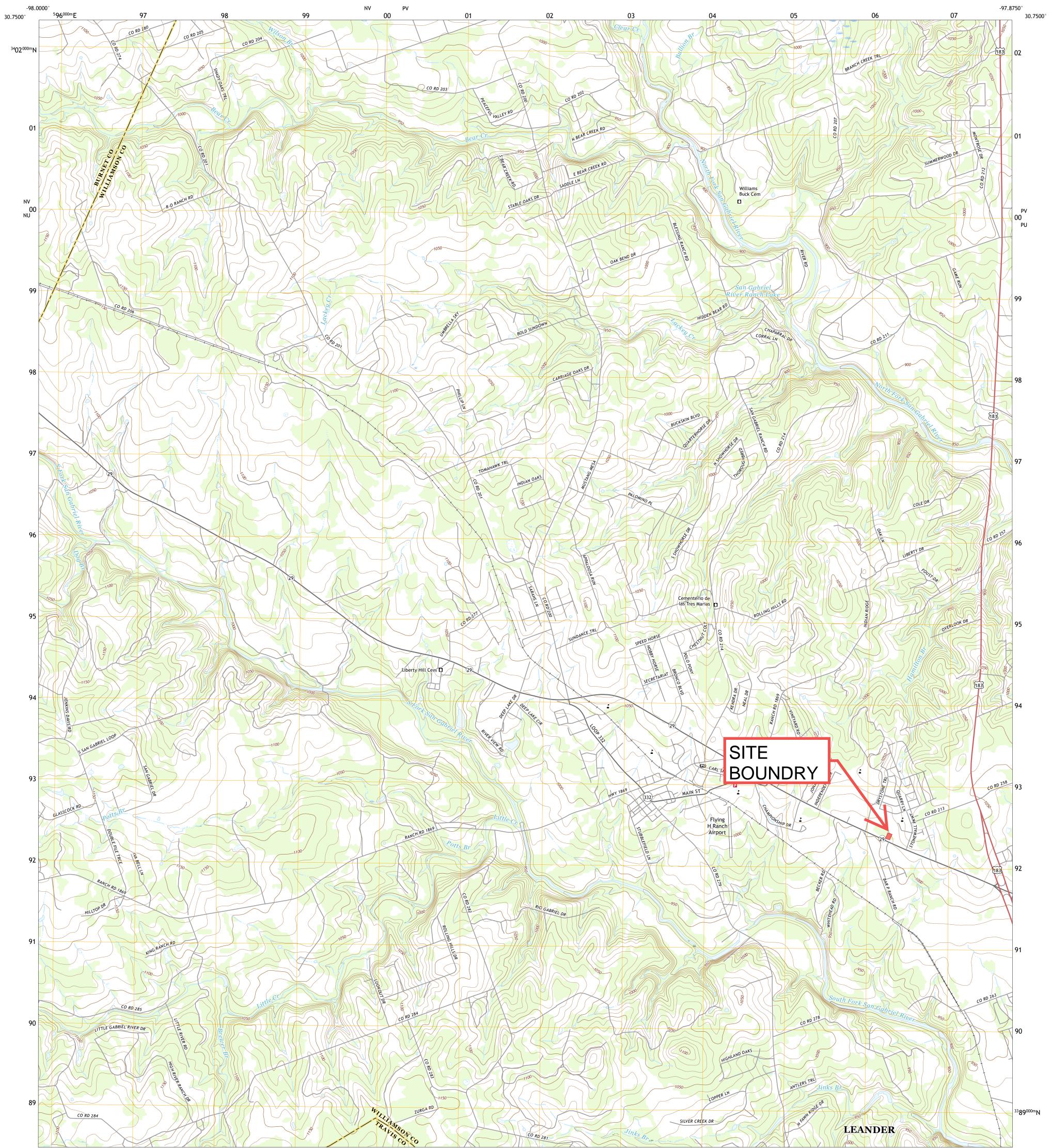




U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY



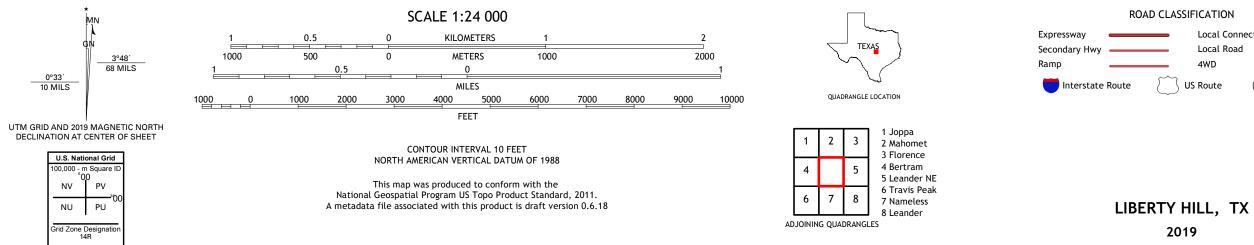
LIBERTY HILL QUADRANGLE TEXAS 7.5-MINUTE SERIES





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

Imagery... Roads..... Names..... Hydrography..... Contours.. Boundaries... ..FWS National Wetlands Inventory 1981 - 1983 Wetlands...



ROAD CLASSIFICATION Local Connector Local Road Secondary Hwy 🗕 _____ ____ 4WD US Route State Route lnterstate Route

2019



ATTACHMENT C

PROJECT NARRATIVE



CALIBER COLLISION, LIBERTY HILL, TEXAS

INTRODUCTION

The proposed Sherwin Williams Commercial Development is a 0.85-acre site that is Lot 1A, Block A, of the Replat of Lot 4, Block A, Stone Wall Ranch Subdivision, Section 1, recorded Instrument Number 2018063971, Official Public Records of Williamson County, Texas. The proposed site is located on the north side of West State Highway No. 29 between Stonewall Parkway and Liberty Meadow Drive, which is inside the city limits of Liberty Hill, Williamson County, Texas. The address provided by the Williamson Central Appraisal District is 12360 W. State Highway 29. The Sherwin Williams site is currently undeveloped and is within General Commercial (C3) zoning. A commercial building, driveway and parking lot will be constructed on the site. A net area of 0.85 acres will be used for this project, and the total disturbed area is 0.49 acres. The total proposed impervious area is 0.61 AC (26,560 S.F.)

The following report pertains solely to the Sherwin Williams development and its related infrastructure improvements. This project consists of the construction of internal private drives, wastewater, and water systems that will serve Caliber Collision.

1. ZONING – ORDINANCE COMPLIANCE:

The site is zoned as General Commercial (C3) The site is subject to the City of Liberty Code of Ordinances, and the parking requirements would refer to City of Round Rock Code of Ordinances.

2. EXISTING SITE CONDITIONS:

As stated above, the site is currently undeveloped. The site topography is characterized with surface elevations ranging from 1012 feet above mean sea level (MSL) along the northeastern boundary to 1006 feet above MSL near the southwest boundary. Based on the recent topographic survey of the property, the property has a total drainage of 0.85 acres that drains to the southwesterly portion of the property and drains to a 4'x4' area inlet that is part of the master development drainage plan. The proposed slopes range from 0.6% to 25%. Electric, telecommunications, gas, public water and wastewater utilities are available on or adjacent to the site.

3. ENVIRONMENT:

FLOODPLAIN

The Sherwin Williams improvement is located within Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM) for Liberty Hill County, Texas, and Incorporated Areas, Community Panel Number 48491C0245F, dated December 20, 2019. According to the map, no portion of the subject property shown lies within the 100 year flood hazard area, and the site is located in Zone X, where areas are determined to be outside the 0.2% annual chance floodplain.



SOILS

The site soils consist of Fat Clay with varying sand/gravel content from existing ground surface to a depth of 2 feet and weathered limestone from a depth of 2' to 13.5'.

WATERSHED

This site lies within the South Fork San Gabriel River Watershed, which is within the City of Liberty Hill's Streams Category for Williamson County. This site is also located within the Edwards Aquifer Contributing Zone, as defined by the Texas Commission on Environmental Quality (TCEQ). A Contributing Zone Plan Application will be prepared based on the Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

4. PERMANENT BMP(S):

Permanent stabilization will be done immediately after the final design grades are achieved but no later than 14 days after construction ceases. Native species of plants will be used to establish vegetative cover on exposed soils. All seeded areas will be inspected weekly during construction activities for failure and after storm events until a dense cover of vegetation has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized, and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final stabilization is reached.

Silt fences will be installed along the perimeters of the site and around the topsoil stockpile. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced 4 to6 feet apart and driven securely into the ground; a minimum of 18 to 20 inches deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid-section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent storm water and sediment from discharging underneath the silt fence.

Existing storm drain inlets offsite (shown on Erosion Control Plan) will be protected from sediment by commercially available Inlet Protection Devise. The storm sewer inlets can be protected by using Silt Fence, Wattles, gravel bag or block and gravel filters etc. Generally commercial devices, such as the catch basin inserts that are installed inside the inlet, will be used for the large traffic volumes area. The Inlet Protection devise will be removed once the construction site has been permanently stabilized.

5. PARKING:

The parking area for the development will consist of 90-degree parking stalls, at 10' x 19', with 26foot and 24-foot driving lanes for access and 26-foot driving lane for fire lane. The required parking for the development is 18 spaces with 1 ADA space. This development will provide 16 standard spaces and 2 ADA spaces. The parking will be on the east side of the building.



6. UTILITIES:

The public water and wastewater systems for this project is provided by The City of Liberty Hill Georgetown.

Water service is provided by the City of Liberty Hill from an existing 8-inch water line near the west side of the site and is located within a dedicated utility easement. A new 3/4-inch domestic line will be extended within the site.

Wastewater service is provided by the City of Liberty Hill. The connection point is an existing 4" force main at the southern boundary. A proposed 4-inch wastewater service line will extend 40.84' to a grinder pump at the south side of the property and then pumped 18.68' to the existing 6" force main. A Contributing Zone Plan Application with TCEQ will be prepared based on the Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999.

Based on design guidelines per tac 217.32(217.32(a)(3) table b.1: daily wastewater flow for office building or factory the average daily water demand is 20 gpd/person. With 15 employees the peak-daily water flow is 300 gpd.

Electric service is provided by Pedernales Electric Cooperative and is available on the northern boundary of the development via an overhead electric line running east and west. Preliminary routing will be along the north side of the site, entering near the northwest side of the building.

Telecommunications service will be routed along south side of the site, entering near the southeast side of the building.

Natural gas is available at the northeast corner of the site.

7. DRAINAGE & WATER QUALITY:

EXISTING HYDROLOGY

The Rational Method with intensity and C vale determined by the City of Round Rock Drainage Policy will be used for the water runoff calculations for the property. The existing site is wood-grass combination. The results and summary table of existing drainage calculations are identified below in Exhibit 1. The existing drainage area map is attached as Exhibit 1.

	2YR	10YR	25YR	100YR
PRE-DEVELOPMENT RUNOFF (CFS)	1.45	2.47	2.88	3.63



PROPOSED HYDROLOGY

The Rational Method with intensity and C vale determined by the City of Round Rock Drainage Policy will be used for the water runoff calculations for the property. The hydrology for the proposed conditions for the site will consist of buildings, sidewalks, and paved areas and will have a total of 0.85 acres. Open space for lawns and grassed areas will have a total of 0.24 acre for the design storms of the 2-year, 10-year, 25-year, and the 100-year frequencies. The results and summary table of proposed drainage calculations are identified below in Exhibit 1. The proposed drainage area map is attached as Exhibit 1.

	2YR	10YR	25YR	100YR
POST-DEVELOPMENT RUNOFF (CFS)	3.37	5.74	6.70	8.43

CONTAINMENT AND STABILIZATION METHODS FOR ALL PROPOSED CUT AND FILL ACTIVITIES

All on-site cut and fill activities will be contained and/or stabilized via temporary control measures including but not limited to silt fence, stabilized construction entrance, and a concrete wash-out area. Inspection and maintenance of the on-site controls shall be performed during the site clearing and rough grading process. Pollution prevention of surface water or groundwater that originates on-site or flows off-site, including pollution caused by contaminated storm water runoff from the site, shall be achieved through the use of silt fences placed immediately downstream of the disturbed areas. When silt accumulates six (6) inches in depth, the General Contractor will promptly remove the silt from the controls. No erosion controls are placed beyond the property boundary unless written permission has been obtained from adjacent property Owners. The proposed development will implement one (1) stabilized construction entrance and concrete wash-out area to help minimize pollutant runoff and erosion generated during construction. Paved streets and driveways adjacent to this site will be cleaned regularly to remove excess mud, dirt or rock tracked from the site. Water trucks will be on-site as necessary to aid in controlling dust.

8.BUILDINGS AND LOTS:

The Sherwin Williams building will be 4,500 Square Feet and 1-story at 24.5 feet high.

9. LANDSCAPING & SCREENING:

Landscaping and screening will be provided based on the city requirements. New trees and plantings will be planted around the site. All lawn area will be solid sod bermudagrass and irrigation will be provided.



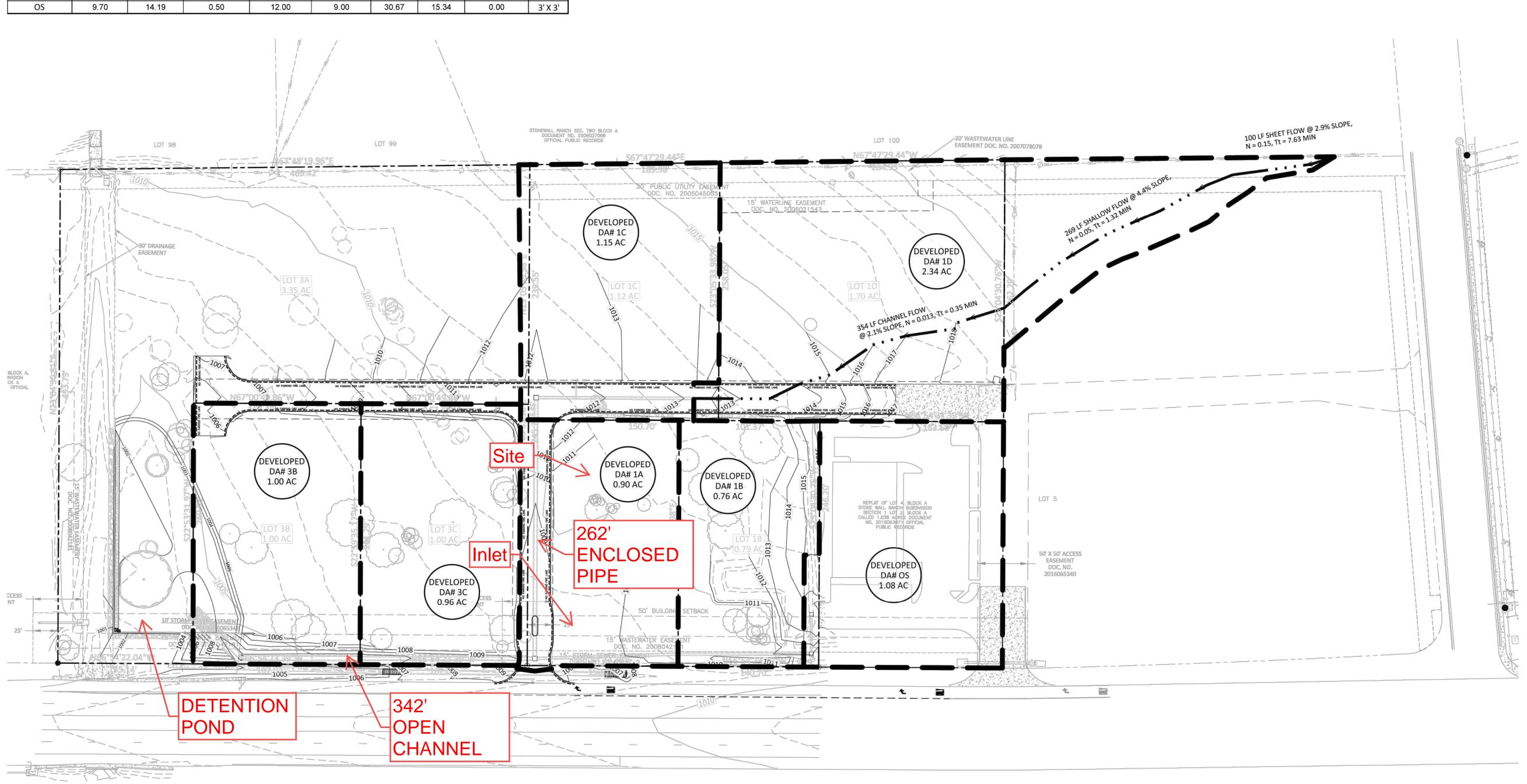
EXHIBIT 1

EXISTING & PROPOSED DRAINAGE AREA MAPS

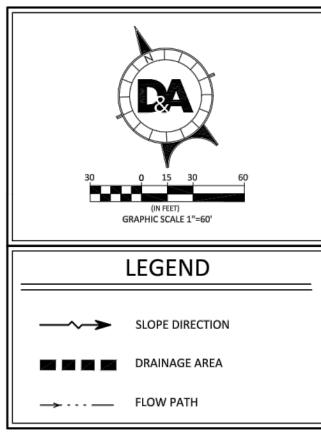


	38	DEVELOPED	RUNOFF (Q		TIONS USIN	IG RATIONAL M	ETHOD FO	R STORM S	EWER SYST	FEM		<u></u>
Drainaga Basin	Area	I.C.	Comp.	Comp.	Comp.	TOTAL	i ₂	i ₂₅	i ₁₀₀	Q ₂	Q ₂₅	Q ₁₀₀
Drainage Basin	(ac)		C ₂	C ₂₅	C ₁₀₀	T _c (Min.)	(in/hr)	(in/hr)	(in/hr)	(cfs)	(cfs)	(cfs)
1A	0.90	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	3.91	8.54	12.45
1B	0.76	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	3.28	7.17	10.46
1C	1.15	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	5.01	10.95	15.96
1D	2.34	*62.45%	0.61	0.72	0.80	9.3	5.16	9.5	12.48	7.35	16.06	23.54
3B	1.00	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	4.36	9.52	13.88
3C	0.96	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	4.15	9.08	13.24
OS	1.08	75.14%	0.66	0.78	0.86	5.0	6.27	11.6	15.32	4.42	9.70	14.19

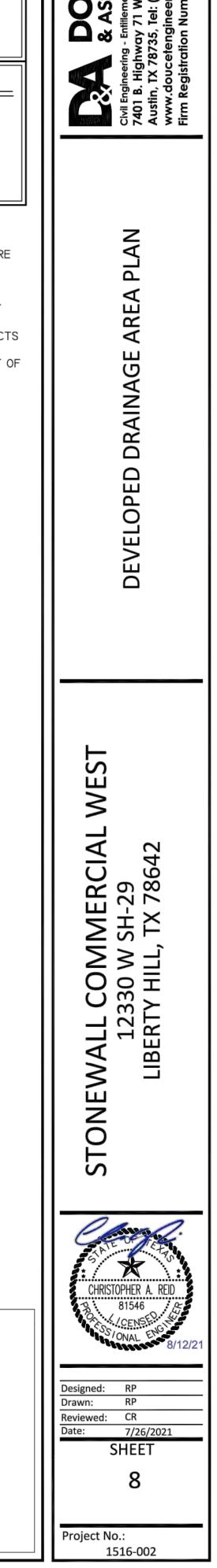
	INLET CALCULATIONS											
Grate Inlet	irate Inlet in Sump											
DA	Q25 (cfs)	Q100 (cfs)	d (ft)	P (ft)	A (sf)	Q	Q, 50%	Q Bypass (cfs)	Size			
1A	8.54	12.45	0.50	16.00	16.00	54.53	27.27	0.00	4' x 4'			
1B	7.17	10.46	0.50	12.00	9.00	30.67	15.34	0.00	3' X 3'			
1C	10.95	15.96	0.50	16.00	16.00	54.53	27.27	0.00	4' x 4'			
1D	16.06	23.54	0.50	16.00	16.00	54.53	27.27	0.00	4' X 4'			
3C	9.08	13.24	0.50	16.00	16.00	54.53	27.27	0.00	4' X 4'			
OS	9.70	14.19	0.50	12.00	9.00	30.67	15.34	0.00	3' X 3'			

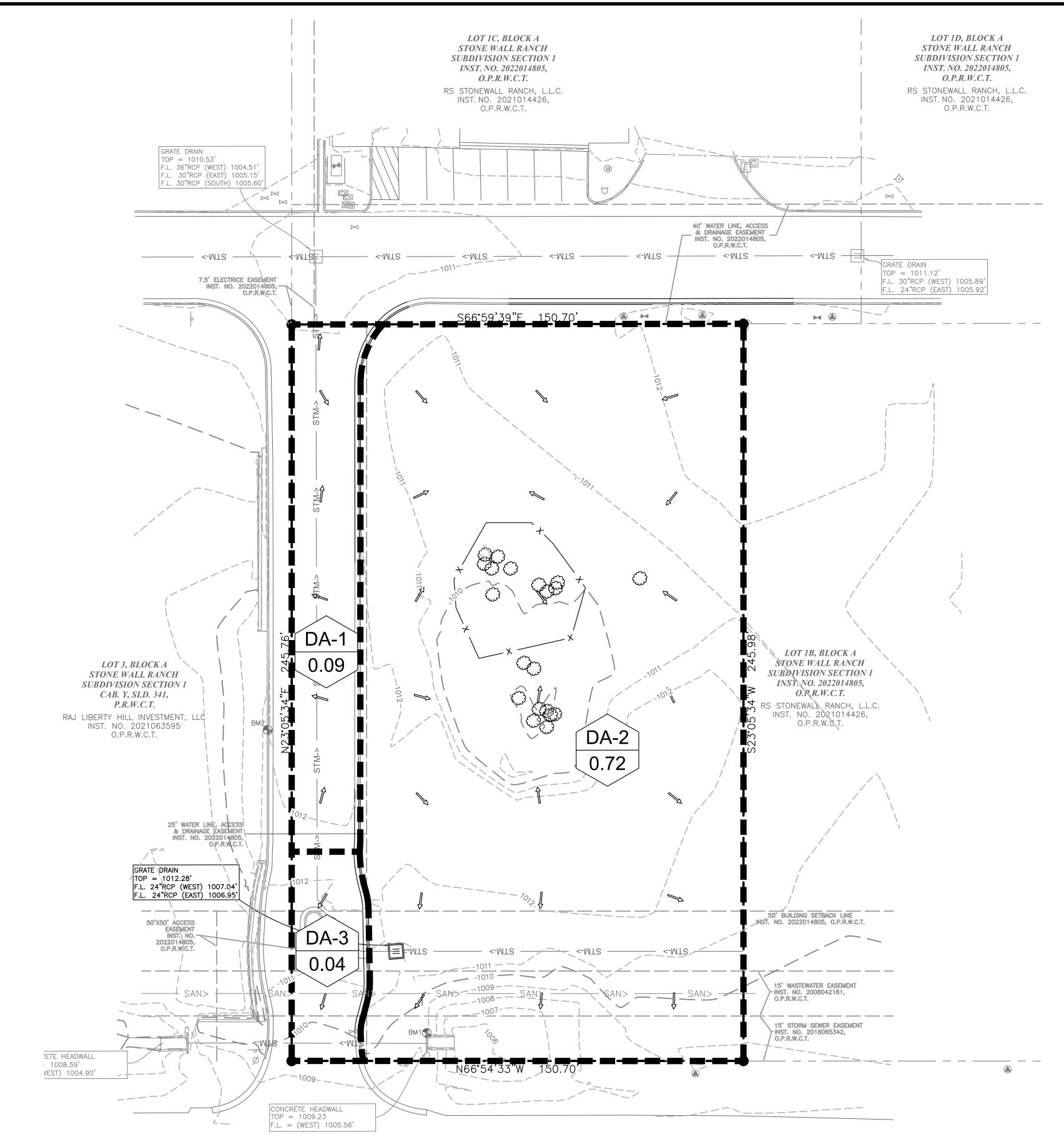


5:04 12, 21 -DA 18



- NOTES: I. THE DRAINAGE CALCULATIONS WERE PERFORMED USING HEC-HMS WITH NOAA ATLAS 14 RAINFALL DATA.
- 2. DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.

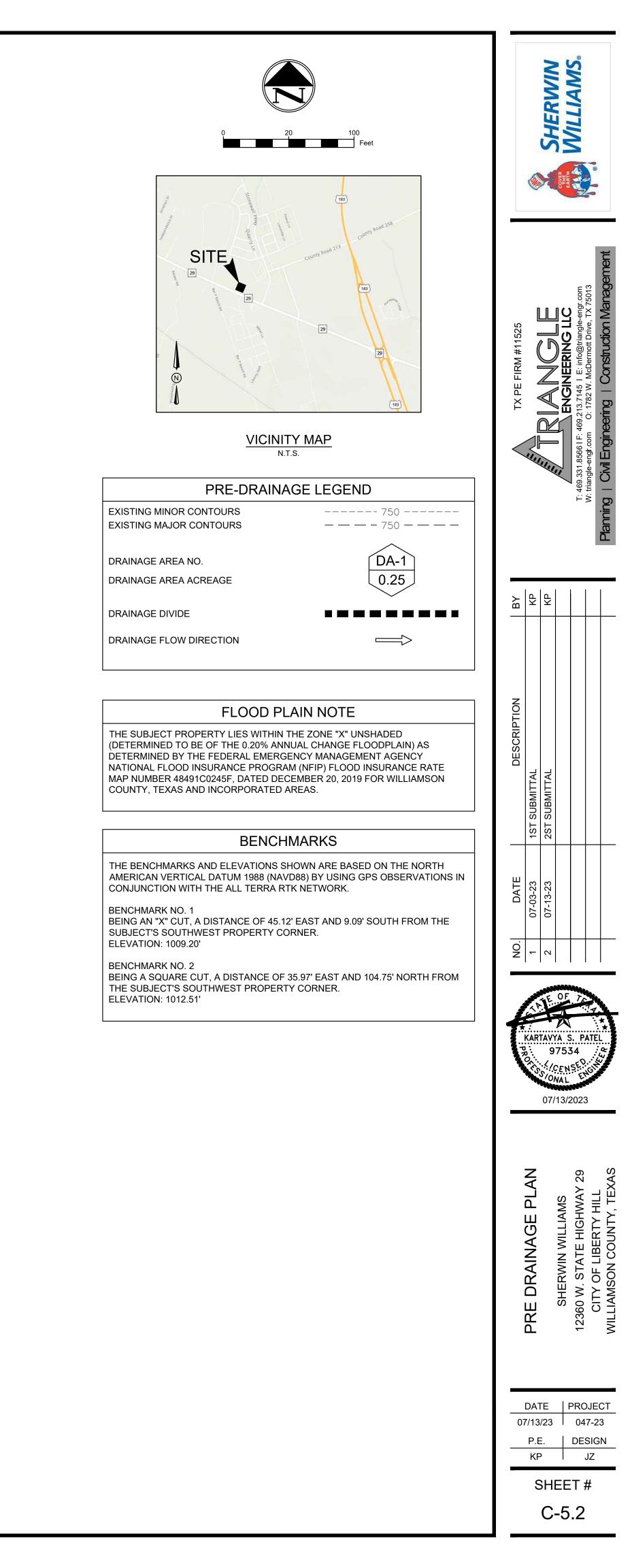


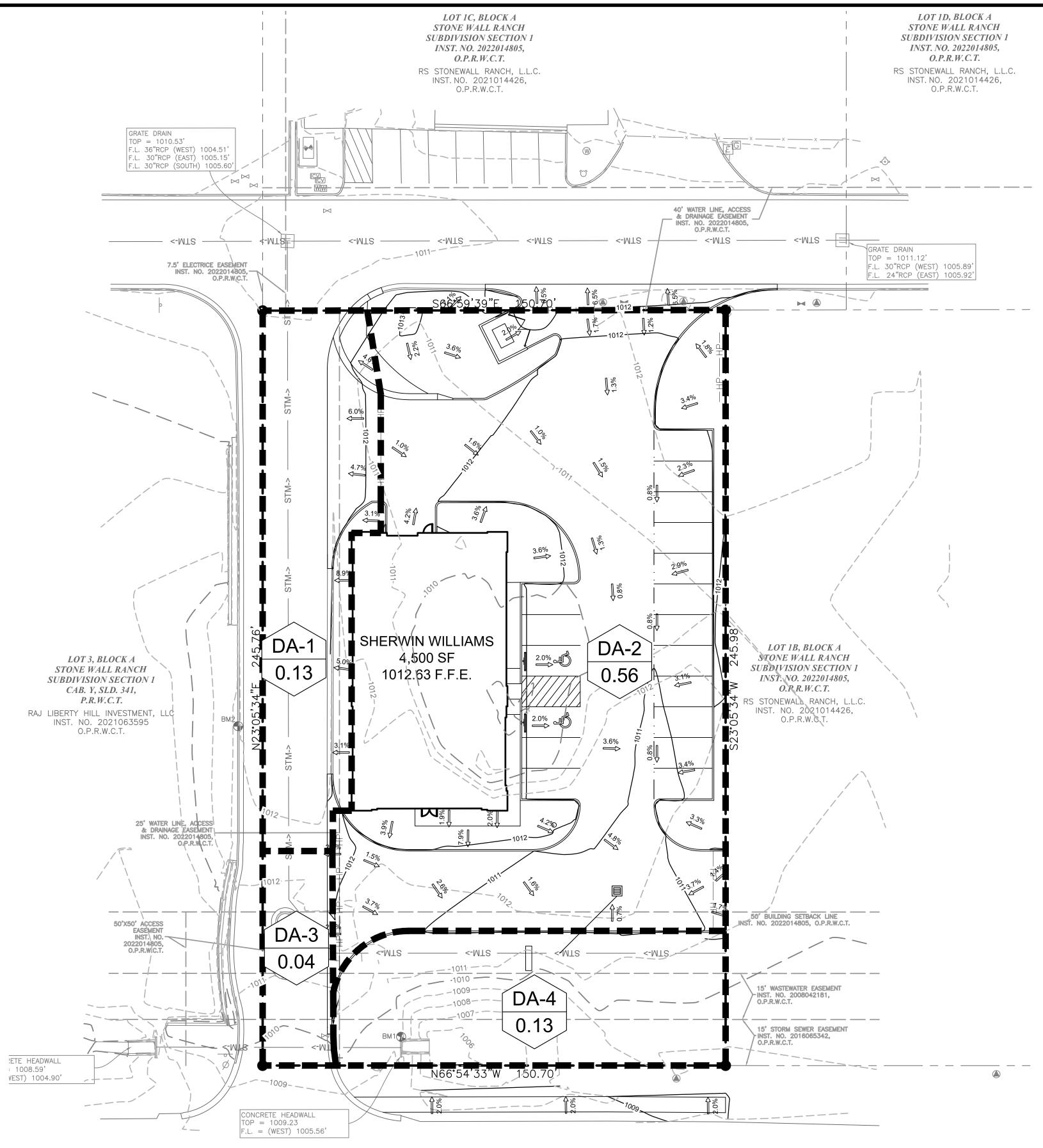


	PRE-DEVELOPED DRAINAGE CALCULATIONS											
DRAINAGE AREA	с	Tc (min)	l-2 (in/hr)	l-10 (in/hr)	l-25 (in/hr)	l-100 (in/hr)	A (acres)	Q-2 (cfs)	Q-10 (cfs)	Q-25 (cfs)	Q-100 (cfs)	REMARKS
DA-1	0.90	10	4.35	7.41	8.65	10.89	0.09	0.35	0.60	0.70	0.88	TO OFF-SITE GRATE INLET
DA-2	0.30	10	4.35	7.41	8.65	10.89	0.72	0.94	1.60	1.87	2.35	TO ON-SITE DITCH
DA-3	0.90	10	4.35	7.41	8.65	10.89	0.04	0.16	0.27	0.31	0.39	TO OFF-SITE DITCH
TOTAL							0.85	1.45	2.47	2.88	3.63	

STATE HIGHWAY 29

(120' RIGHT-OF-WAY)

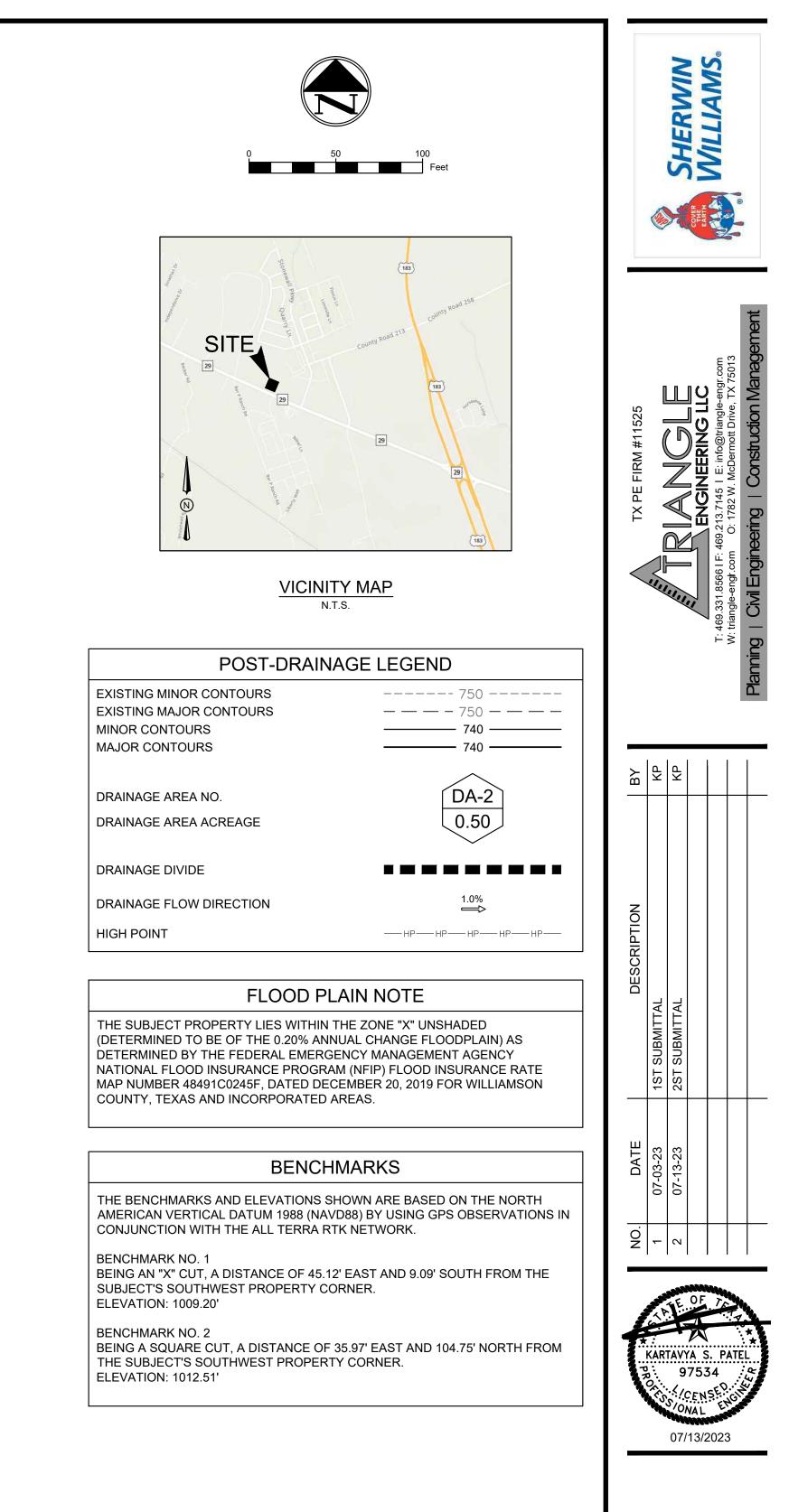




	POST-DEVELOPED DRAINAGE CALCULATIONS											
DRAINAGE AREA	с	Tc (min)	l-2 (in/hr)	l-10 (in/hr)	l-25 (in/hr)	l-100 (in/hr)	A (acres)	Q-2 (cfs)	Q-10 (cfs)	Q-25 (cfs)	Q-100 (cfs)	REMARKS
DA-1	0.90	10	4.35	7.41	8.65	10.89	0.13	0.51	0.87	1.01	1.27	TO OFF-SITE GRATE INLET
DA-2	0.90	10	4.35	7.41	8.65	10.89	0.56	2.19	3.73	4.36	5.49	TO ON-SITE GRATE IN LET
DA-3	0.90	10	4.35	7.41	8.65	10.89	0.04	0.16	0.27	0.31	0.39	TO OFF-SITE DITCH
DA-4	0.90	10	4.35	7.41	8.65	10.89	0.13	0.51	0.87	1.01	1.27	TO ON-SITE DITCH
TOTAL							0.86	3.37	5.74	6.70	8.43	
Based on the	ased on the City of Round Rock Drainage Policy											

STATE HIGHWAY 29

(120' RIGHT-OF-WAY)



POST DRAINAGE PLAN	SHEPWIN WITTIANS		12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS	
DATE		F	PRO	JEC	т	
07/13/23	3			7-23		
P.E.			DES	SIG	N	
KP				IZ		
SF	SHEET #					

C-5.3

ATTACHMENT C

CURRENT APPROVED STONEWALL COMMERCIAL WEST CZP PLANS WITH WET BASIN AS-BUILTS



OWNER/DEVELOPER BILL CHAPMAN, MANAGING PARTNER LIBERTY HILL STONEWALL PARTNERS, LP 13651 TX-29 LIBERTY HILL, TX 78642 (512) 818-2244 TELEPHONE

ENGINEER NICHOLAS SANDLIN, PE DOUCET & ASSOCIATES, INC. FIRM REGISTRATION #3937 7401 B HIGHWAY 71 WEST STE. 160, AUSTIN, TX 78735 (512) 583-2600 TELEPHONE (512) 583-2601 FAX

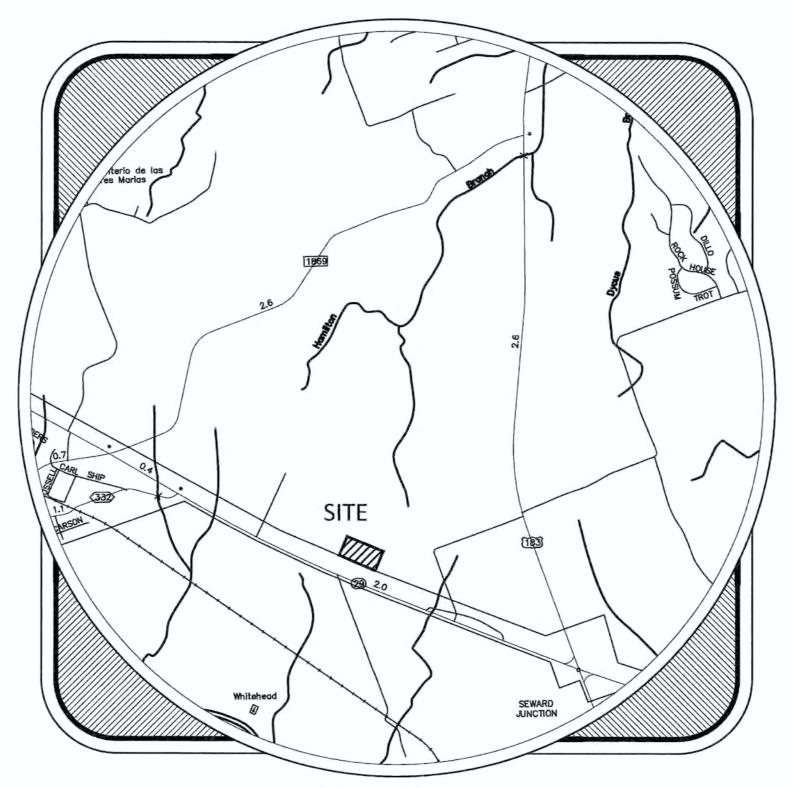
<u>SURVEYOR</u> ED PRINCE, RPLS DOUCET & ASSOCIATES, INC. FIRM REGISTRATION #3937 7401 B HIGHWAY 71 WEST STE. 160, AUSTIN, TX 78735 (512) 583-2600 TELEPHONE (512) 583-2601 FAX

NOTES:

- 1.ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- 2. THIS SITE IS LOCATED WITHIN THE CITY OF LIBERTY HILL
- 3. THIS SITE LIES WITHIN THE SOUTH FORK SAN GABRIEL WATERSHED. LIBERTY HILL REVIEWS THE SOUTH FORK SAN GABRIEL WATERSHED ORDINANCE COMPLIANCE AS SHOWN IN THESE PLANS.
- 4. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION, AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL. WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.
- 5.ALL POTABLE WATER SYSTEMS COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTING AND BACKFLOW PREVENTERS. FIRE HYDRANTS, TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENTS OR ON THE PACKAGING SHALL NOT BE INSTALLED.
- 6. THIS SITE, ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 48491C0250E DATED SEPTEMBER 26, 2008. LIES WITHIN ZONE X AREAS DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAIN.
- 7.IN THE EVENT THE CONTRACTOR OR SURVEYOR OBTAINS A DIGITAL COPY OF THE CAD FILES THAT REPRESENT THESE IMPROVEMENT; DOUCET AND ASSOCIATES, TAKE NO RESPONSIBILITY FOR THE LOCATION OF THESE IMPROVEMENTS. IN ANY COORDINATE SYSTEM. DIGITAL FILES USED TO PRODUCE THESE PLANS WERE PARTIALLY CREATED BY PARTIES OTHER THAN DOUCET AND ASSOCIATES AND ARE NOT INTENDED FOR USE IN CONSTRUCTION STAKING. VERTICAL AND HORIZONTAL DATA SHALL BE INDEPENDENTLY VERIFIED BY CONTRACTOR'S RPLS.
- 8.DOUCET AND ASSOCIATES HAS ENDEAVORED TO DESIGN THESE PLANS COMPLIANT WITH ADA/TDLR AND OTHER ACCESSIBILITY REQUIREMENTS, HOWEVER, THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY RESPONSIBILITY FOR CONSTRUCTING THESE IMPROVEMENT COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY STANDARDS. IF THE CONTRACTOR NOTICES AN DISCREPANCIES BETWEEN THESE PLANS AND ACCESSIBILITY LAWS/RULES, HE IS TO STOP WORK IN THE AREA OF CONFLICT AND NOTIFY THE ENGINEER IMMEDIATELY FOR A RESOLUTION AND/OR REVISION TO THESE PLANS. DOUCET AND ASSOCIATES SHALL NOT BE HELD RESPONSIBLE FOR CONSTRUCTING THIS SITE COMPLIANT WITH ACCESSIBILITY LAWS/RULES REGARDLESS OF WHAT IS SHOWN IN THESE PLANS.
- 9.BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIES HE INTENDS TO USE, HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDERS FURTHER WARRANTS THAT TO THE BEST OF HIS OR HER SUBCONTRACTORS AND MATERIAL SUPPLIERS KNOWLEDGE, ALL MATERIAL AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.
- 10. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM 1-800-245-4545, OR THE OWNER OF EACH INDIVIDUAL UTILITY FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSING PRIOR TO BEGINNING ANY CONSTRUCTION

18

CONSTRUCTION PLANS tor PHASE 1 WATER QUALITY STONEWALL COMMERCIAL 12330 W. US 29 LIBERTY HILL, TX



VICINITY MAP



(South) Austin, TX - (North) Austin, TX - San Marcos, TX San Antonio, TX - Houston, TX - Easthampton, MA www.DoacetEngineers.co

REVISIONS / CORRECTIONS:

	NO.	DESCRIPTION	REVISE (R)/ADD (A) SHEET NO'S	TOTAL # SHEET IN PLAN SET	NET CHANGE	SITE IMP. COVER	SITE IMP. COVER	APPROVED DATE
Ī								

SUBMITTAL DATE: WATERSHED: SOUTH FORK SAN GABRIEL WATERSHED

FEMA PANEL: 48491C0250E DATED SEPTEMBER 26, 2008 TRACT SIZE: 5.5 ACRES

ZONING: GENERAL COMMERCIAL/RETAIL (C3)

LEGAL DESCRIPTION LOT 3, BLOCK A, STONE WALL RANCH SUBDIVISION SECTION 1, ACCORDING TO THE PLAT OF RECORD IN CABINET Y, SLIDE 341, PLAT RECORDS, WILLIAMSON COUNTY, TEXAS, AND SHOWING LOT 1, BLOCK A, ACCORDING TO THE PLAT OF RECORD IN DOCUMENT NO. 2018063971, PLAT RECORDS, WILLIAMSON COUNTY, TEXAS; SAID TRACTS LOCATED IN THE JOHN B. ROBINSON SURVEY, ABSTRACT NO. 521, WILLIAMSON COUNTY, TEXAS.

PROJECT DESCRIPTION THIS PROJECT CONSISTS OF A WATER QUALITY POND SERVING THE IMPERVIOUS COVER GENERATED BY MAXIMUM ZONING FOR THE REFERENCED PROPERTY PLUS THE EXISTING AUTOZONE SITE.

CITY ENGINEER:

CITY ENGINEER

PLANNING DIRECTOR:

SALLY A. McFERON PLANNING DIRECTOR

		Civil Engineering - Entitlements - Surveying/Mapping 7401 B. Highway 71 W, Suite 160 Austin, TX 78735, Tel: (512)-583-2600 www.doucetengineers.com
Sheet Number 1 2 3 4 5 6 7 8	Sheet Title Sheet Title COVER SHEET GENERAL NOTES EXISTING CONDITIONS EROSION AND SEDIMENTATION CONTROL PLAN EXISTING DRANGE AREA PLAN PROPOSED DRAINAGE AREA PLAN WATER QUALITY & DETENTION POND PLAN WATER QUALITY & SECTION DETAILS	COVER SHEET
EGULATIONS,	COMPLIANCE WITH ALL THE PLANS AND SPECIFICATION DUND TO BE IN COMPLIANCE	HASE 1 WATER QUALITY ONEWALL COMMERCIAL LIBERTY HILL, TEXAS



ACCEPTED FOR CONSTRUCTION:

CITY OF LIBERTY HILL, TEXAS ENGINEERING AND DEVELOPMENT SERVICES DEP.

BASED ON THE DESIGN ENGINEER'S CERTIFICATION APPLICABLE CITY, STATE AND FEDERAL REGULATI CONTAINED HEREIN HAVE BEEN REVIEWED AND WITH THE REQUIREMENTS OF THE CITY OF LIBER

PERRY STEGER, P.E. CITY OF LIBERTY HILL, TEXAS

DAIE

CITY OF LIBERTY HILL, TEXAS

DATE



SEQUENCE OF CONSTRUCTION NOTES:

- 1.INSTALL TEMPORARY SILT FENCE, TREE PROTECTION AND STABILIZED CONSTRUCTION ENTRANCE ACCORDING TO THE CONSTRUCTION PLANS PRIOR TO CLEARING, GRADING, EXCAVATION, ETC. CONTRACTOR SHALL INSPECT AND REPAIR TEMPORARY EROSION CONTROLS ON A REGULAR BASIS AND REMOVE ACCUMULATED SEDIMENT WHEN SIX (6) INCHES OF SEDIMENT HAS BEEN TRAPPED.
- 2.INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES WHERE APPLICABLE
- 3. THE CONTRACTOR SHALL CONTACT CITY OF LIBERTY HILL AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING.
- 4.PRE-CONSTRUCTION MEETING ONSITE
- 5.EVALUATE TEMPORARY EROSION CONTROL INSTALLATION.
- 6.BEGIN SITE CLEARING/DEMOLITION
- 7.ESTABLISH SUB-GRADE FOR PARKING, BUILDING PAD, DETENTION AND WATER QUALITY POND.
- 8.INSTALLATION OF UTILITIES (TRENCHING).
- 9.CONSTRUCTION OF BUILDING AND PAVED AREAS.
- 10. COMPLETE TESTING REQUIREMENTS
- 11. COMPLETE CONSTRUCTION AND INSTALL LANDSCAPING
- 12. CLEAN SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH RESTORATION REQUIREMENTS SHOWN ON THE CONSTRUCTION PLANS.
- 13. PROJECT ENGINEER INSPECTS JOB AND WRITES CONCURRENCE LETTER TO THE CITY. FINAL INSPECTION IS SCHEDULED UPON RECEIPT OF THE LETTER.
- 14. RECEIVE OPERATING PERMIT AND CITY CLEARANCE FOR OCCUPANCY
- 15. REMOVE TEMPORARY EROSION CONTROL MEASURES AND TREE PROTECTION AFTER ALL DISTURBED AREAS ARE COMPLETELY RESTORED AND REVEGETAGED.

Construction Plans Notes City of Liberty Hill

General Notes

- All construction shall be in accordance with the City of Liberty Hill Standard Specifications Manual. Any existing utilities, pavement, curbs, sidewalks, structures, trees, etc., not planned for destruction or removal that are damaged or
- emoved shall be repaired or replaced at his expense. The Contractor shall verify all depths and locations of existing utilities prior to any construction. Any discrepancies with the construction plans found in the field shall be brought immediately to the attention of the Engineer who shall be responsible for
- revising the plans are appropriate. Manhole frames, covers, valves, cleanouts, etc. shall be raised to finished grade prior to final paving construction.
- The Contractor shall give the City of Liberty Hill 48 hours notice before beginning each phase of construction. Telephone 218-555 (Engineering and Development Services Department). All areas disturbed or exposed during construction shall be revegetated in accordance with the plans and specifications. Revegetation
- of all disturbed or exposed areas shall consist of sodding or seeding, at the Contractor's option. However, the type of revegetation must equal or exceed the type of vegetation present before construction. Prior to any construction, the Engineer shall convene a preconstruction conference between the City of Liberty Hill, himself, the
- Contractor, other utility companies, any affected parties and any other entity the City or Engineer may require. The Contractor and the Engineer shall keep accurate records of all construction that deviates from the plans. The Engineer shall furnish the City of Liberty Hill accurate "As-Built" drawings following completion of all construction. These "As- Built" drawings shall
- meet with the satisfaction of the Engineering and Development Services Department prior to final acceptance. The Liberty Hill City Council shall not be petitioned for acceptance until all necessary easement documents have been signed and recorded. 10. When construction is being carried out within easements, the Contractor shall confine his work to within the permanent and any
- temporary easements. Prior to final acceptance, the Contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the City Engineer.
- Prior to any construction, the Contractor shall apply for and secure all proper permits from the appropriate authorities. 12. Available benchmarks (City of Liberty Hill Datum) that may be utilized for the construction of this project are described as follows

TRENCH SAFETY NOTES:

- 1. In accordance with the Laws of the State of Texas and the U.S. Occupational Safety and Health Administration regulations, all trenches over 5 feet in depth in either hard and compact or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected. Trench safety systems to be utilized for this project (will be provided by the contractor; are on sheet _N/A____, etc.).
- 2. In accordance with the U. S. Occupational Safety and Health Administration regulations, when persons are in trenches 4-feet deep or more, adequate means of exit, such as a ladder or steps, must be provided and located so as to require no more than 25 feet of lateral travel.
- If trench safety system details were not provided in the plans because trenches were anticipated to be less than 5 feet in depth and during construction it is found that trenches are in fact 5 feet or more in depth or trenches less than 5 feet in depth are in an area where hazardous ground movement is expected, all construction shall cease, the trenched area shall be barricaded and the Engineer notified immediately. Construction shall not resume until appropriate trench safety system details, as designed by a professional engineer, are retained and copies submitted to the City of Liberty Hill.

STREET AND DRAINAGE NOTES:

- 1. All testing shall be done by an independent laboratory at the Owner's expense. Any retesting shall be paid for by the Contractor. A City inspector shall be present during all tests. Testing shall be coordinated with the City inspector and he shall be given a minimum of 24 hours notice prior to any testing. Telephone 218-5555 (Inspections).
- Backfill behind the curb shall be compacted to obtain a minimum of 95% maximum density to within 3" of top of curb. Material used shall be primarily granular with no rocks larger than 6" in the greatest dimension. The remaining 3" shall be clean topsoil free from all clods and suitable for sustaining plant life.
- Depth of cover for all crossings under pavement including gas, electric, telephone, cable tv, water services, etc., shall be a minimum of 30" below subgrade. Street rights-of-way shall be graded at a slope of 1/4" per foot toward the curb unless otherwise indicated. However, in no case
- shall the width of right-of-way at 1/4" per foot slope be less than 10 feet unless a specific request for an alternate grading scheme is made to and accepted by the City of Liberty Hill Engineering and Development Services Department. Barricades built to City of Liberty Hill standards shall be constructed on all dead-end streets and as necessary during construction to maintain job and public safety. All R.C.P. shall be minimum class III.
- The subgrade material for the streets shown herein was tested by _____ N/A_ and the paving sections designed in accordance with the current City of Liberty Hill design criteria. The paving sections are to be constructed as follows:

Flex. Base Thickness HMAC Thickness Street Station Lime Stab. Thickness

The Geotechnical Engineer shall inspect the subgrade for compliance with the design assumptions made during preparation of the Soils Report. Any adjustments that are required shall be made through revision of the construction plans. 8. Where PI's are over 20, subgrades must be stabilized utilizing a method acceptable to the City Engineer. The Geotechnical Engineer shall recommend an appropriate subgrade stabilization if sulfates are determined to be present.

WATER AND WASTEWATER NOTES:

wastewater service

- Pipe material for water mains shall be PVC (AWWA C-900, min. class 200), or Ductile Iron (AWWA C-100, min. class 200). Water services (2" or less) shall be polyethylene tubing (black, 200 psi, DR 9). Pipe material for pressure wastewater mains shall be PVC (AWWA C-900, min. class 150), or Ductile Iron (AWWA C-100, min. class
- 200). Pipe material for gravity wastewater mains shall be PVC (ASTM D2241 or D3034, max. DR-26). Ductile Iron (AWWA C-100, min. class 200). Unless otherwise accepted by the City Engineer, depth of cover for all lines out of the pavement shall be 42" min., and depth of
- cover for all lines under pavement shall be a min, of 30" below subarade.
- All fire hydrant leads shall be ductile iron pipe (AWWA C-100, min. class 200). All iron pipe and fittings shall be wrapped with minimum 8-mil polyethylene and sealed with duct tape or equal accepted by the City Engineer.
- The Contractor shall contact the City Inspector at 218-5555 to coordinate utility tie-ins and notify him at least 48 hours prior to 6. connecting to existing lines. All manholes shall be concrete with cast iron ring and cover. All manholes located outside of the pavement shall have bolted
- covers. Tapping of fiberglass manholes shall not be allowed.
- The Contractor must obtain a bulk water permit or purchase and install a water meter for all water used during construction. A copy of this permit must be carried at all times by all who use water. Line flushing or any activity using a large quantity of water must be scheduled with the water & wastewater superintendent, telephone 218-5555.
- The Contractor, at his expense, shall perform sterilization of all potable water lines constructed and shall provide all equipment (including test gauges), supplies (including concentrated chlorine disinfecting material), and necessary labor required for the sterilization procedure. The sterilization procedure shall be monitored by City of Liberty Hill personnel. Water samples will be collected by the City of Liberty Hill to verify each treated line has attained an initial chlorine concentration of 50 ppm. Where means of flushing is necessary, the Contractor, at his expense, shall provide flushing devices and remove said devices prior to final acceptance by the City of Liberty Hill.
- 11. Sampling taps shall be brought up to 3 feet above grade and shall be easily accessible for City personnel. At the Contractor's request, and in his presence, samples for bacteriological testing will be collected by the City of Liberty Hill not less than 24 hours after the treated line has been flushed of the concentrated chlorine solution and charged with water approved by the City. The Contractor shall supply a check or money order, payable to the City of Liberty Hill, to cover the fee charged for testing each water sample. City of Liberty Hill fee amounts may be obtained by calling the Engineering and Development Services Department at 218 - 5555
- 12. The Contractor, at his expense, shall perform quality testing for all wastewater pipe installed and pressure pipe hydrostatic testing of all water lines constructed and shall provide all equipment (including pumps and gauges), supplies and labor necessary to perform the tests. Quality and pressure testing shall be monitored by City of Liberty Hill personnel. 13. The Contractor shall coordinate testing with the City of Inspector and provide no less than 24 hours notice prior to performing
- sterilization, quality testing or pressure testing.
- The Contractor shall not open or close any valves unless authorized by the City of Liberty Hill 15. All valve boxes and covers shall be cast iron.
- 16. All water service, wastewater service and valve locations shall be appropriately marked as follows: water service

"W" on top of curb "S" on top of curb

"V" on face of curb

Tools for marking the curb shall be provided by the Contractor. Other appropriate means of marking service and valve locations shall be provided in areas without curbs. Such means of marking shall be as specified by the Engineer and accepted by the City of Liberty Hill.

- 17. Contact City of Liberty Hill Engineering and Development Services Department at 218-5555 for assistance in obtaining existing water and wastewater locations.
- 18. The City of Liberty Hill Fire Department shall be notified 48 hours prior to testing of any building sprinkler piping in order that the Fire Department may monitor such testing.
- Sand, as described in Specification item 510 pipe, shall not be used as bedding for water and wastewater lines. Acceptable bedding materials are pipe bedding stone, pea gravel and in lieu of sand, a naturally occurring or manufactured stone material conforming to ASTM C33 for stone quality and meeting the following gradation specification:

Sieve Size 3/8" 0-2 40 - 85#10

TRAFFIC MARKING NOTES:

EROSION AND SEDIMENTATION CONTROL NOTES:

- Sedimentation Control Ordinance.
- which they are applied.
- warranted
- approved by the Engineer.

public shall be cleaned up immediately.

- ACTIVITY START DATE, AND THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- APPROVAL LETTER ON-SITE.
- WELL, OR SENSITIVE FEATURE.
- 4.
- EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
- CAPACITY
- DISCHARGED OFFSITE
- 8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
- SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
 - STRUCTURES.
 - APPROVED.

ALISTIN	REGIC	NAI	OFFIC	`F
	()			
	12100 AUSTIN PHONE	12100 PARK AUSTIN, TEXA PHONE (512)	12100 PARK 35 AUSTIN, TEXAS 70 PHONE (512) 33	AUSTIN REGIONAL OFFIC 12100 PARK 35 CIRCLI AUSTIN, TEXAS 78753– PHONE (512) 339–292 FAX (512) 339–379

- 95-100

Percent Retained By Weight

20. The Contractor is hereby notified that connecting to, shutting down, or terminating existing utility lines may have to occur at off-peak hours. Such hours are usually outside normal working hours and possibly between 12 a.m. and 6 a.m. 21. All wastewater construction shall be in accordance with the Texas Commission on Environmental Quality (TCEQ) Regulations, 30 TAC Chapter 213 and 317, as applicable. Whenever TCEQ and City of Liberty Hill Specifications conflict, the more stringent shall apply.

1. Any methods, street markings and signage necessary for warning motorists, warning pedestrians or diverting traffic during construction shall conform to the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest edition. All pavement markings, markers, paint, traffic buttons, traffic controls and signs shall be installed in accordance with the Texas Department of Transportation Standard Specifications for Construction of Highways, Streets and Bridges and, the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest editions.

Erosion control measures, site work and restoration work shall be in accordance with the City of Liberty Hill Erosion and All slopes shall be sodded or seeded with approved grass, grass mixtures or ground cover suitable to the area and season in

Silt fences, rock berms, sedimentation basins and similarly recognized techniques and materials shall be employed during construction to prevent point source sedimentation loading of downstream facilities. Such installation shall be regularly inspected by the City of Liberty Hill for effectiveness. Additional measures may be required if, in the opinion of the City Engineer, they are

4. All temporary erosion control measures shall not be removed until final inspection and approval of the project by the Engineer. It shall be the responsibility of the Contractor to maintain all temporary erosion control structures and to remove each structure as 5. All mud, dirt, rocks, debris, etc., spilled, tracked or otherwise deposited on existing paved streets, drives and areas used by the

> TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CONTRIBUTING ZONE PLAN GENERAL CONSTRUCTION NOTES TCEQ-0592A (REV. 07/15/2015)

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE THE NAME OF THE APPROVED PROJECT, THE

2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND

3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM,

PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED ...

5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE HE NEXT RAIN

6. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN

7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING

9. IF PORTION OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY

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

11. THE HOLDER OF ANY APPROVED CONTRIBUTING ZONE PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN

A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMP) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERMS, SILT FENCES AND DIVERSIONARY

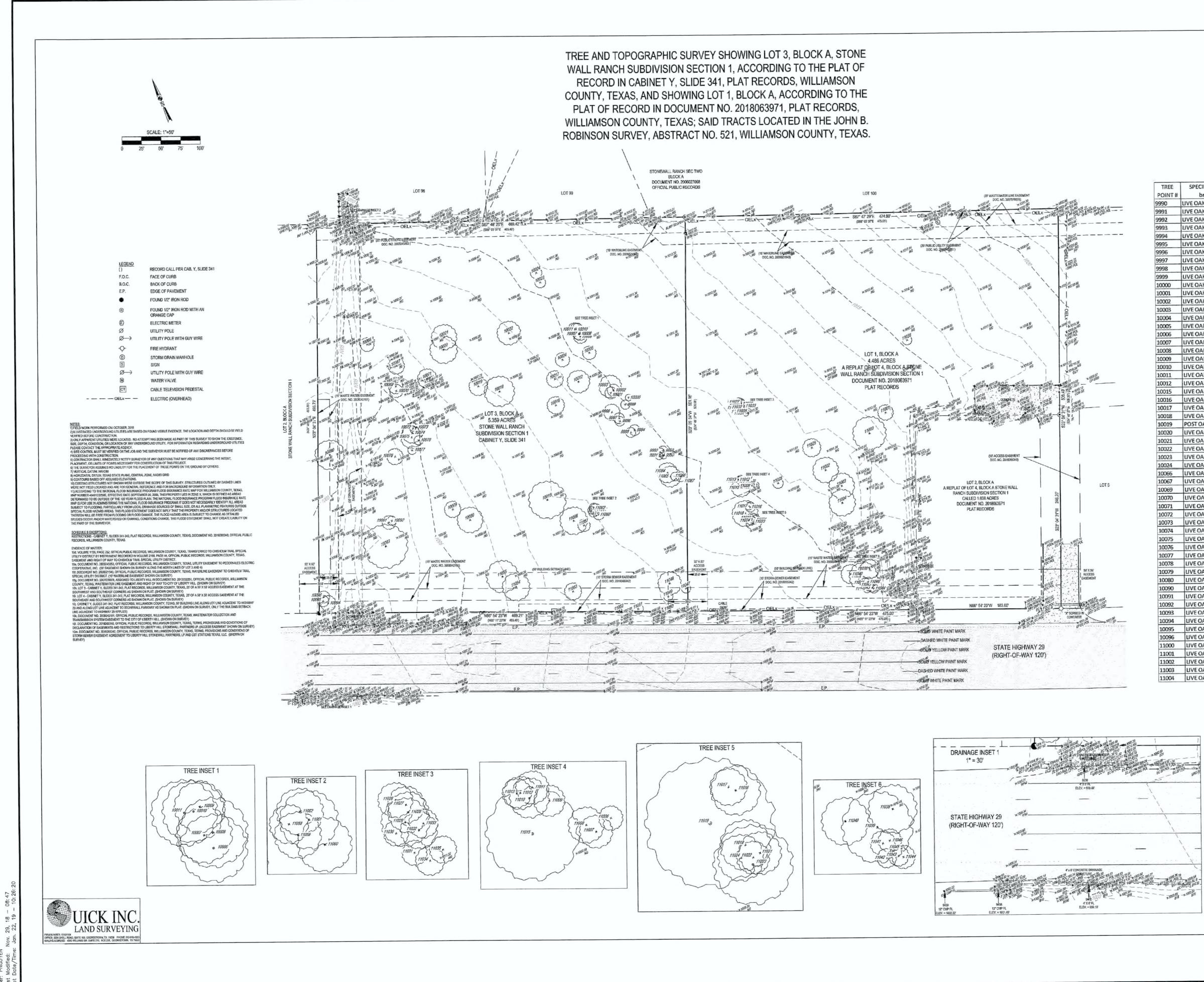
B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY

C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED IN A CONTRIBUTING ZONE PLAN AS UNDEVELOPED.

UILDING A	SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD
08	SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096
	FAX (210) 545-4329

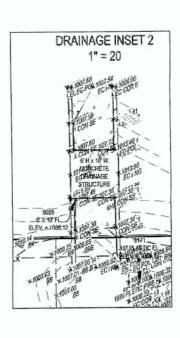
Civil Engineering - Entittements - Surveying/Mapping 7401 B. Highway 71 W, Suite 160 Austin, TX 78735, Tel: (512)-583-2600 www.doucetengineers.com Firm Registration Number: 3937	
GENERAL NOTES	
PHASE 1 WATER QUALITY STONEWALL COMMERCIAL LIBERTY HILL, TEXAS	
Designed: NS Drawn: PN & JP Reviewed: NS Date: 01/22/2019 SHEET 2 OF 8 Project No.:	

1516-002

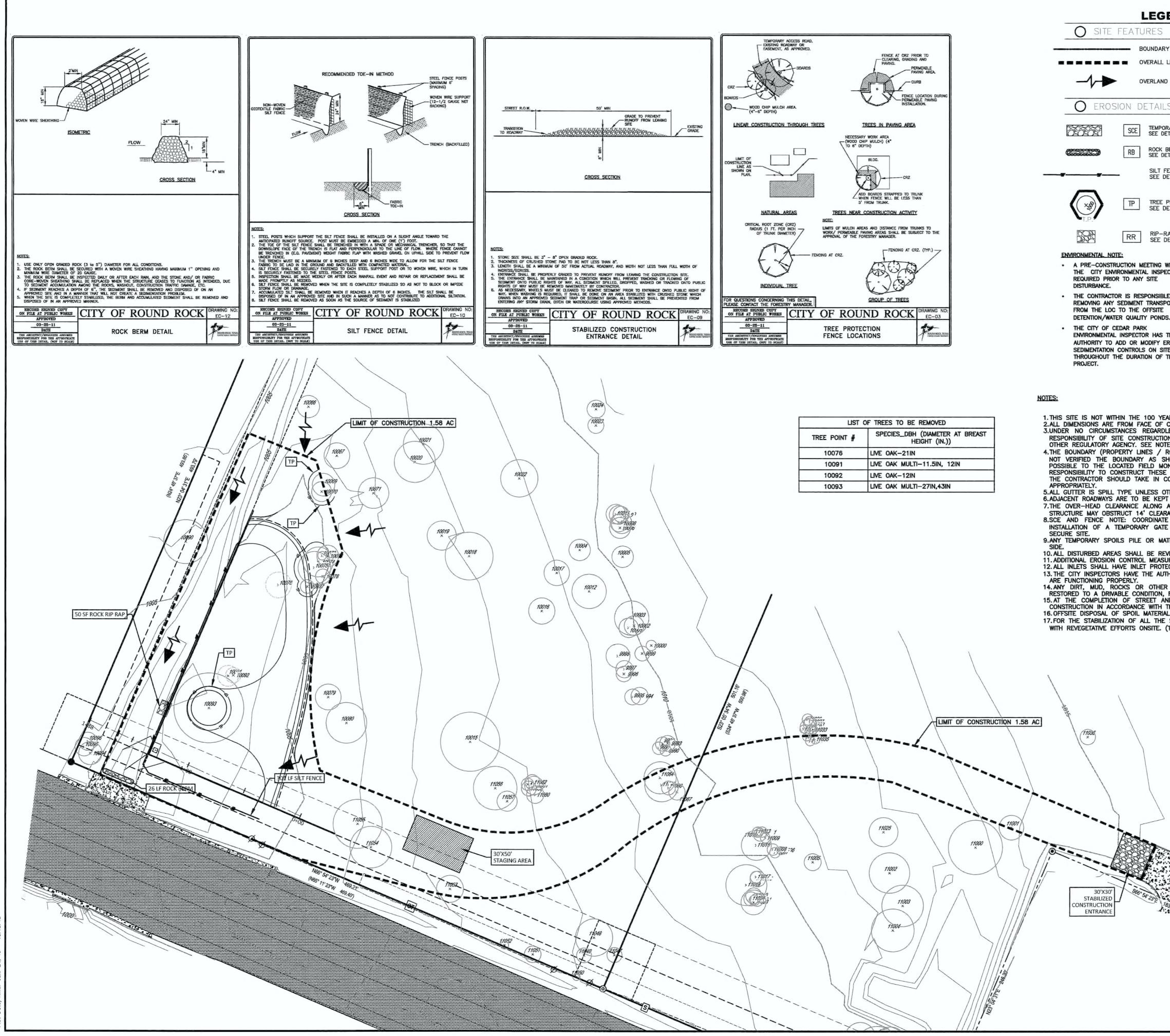


TREE	SPECIES_DBH (diameter at
POINT #	breast height(in.))
9990	LIVE OAK-9IN
9991	LIVE OAK-10IN
9992	UVE OAK MULTI-8IN, 7IN
9993	LIVE OAK MULTI-9IN, 7IN
9994	LIVE OAK-14
9995	LIVE OAK-13
9996	LIVE OAK-12.5IN
9997	LIVE OAK-14IN
9998	LIVE OAK-21IN
9999	LIVE OAK-12IN
10000	LIVE OAK-8.5IN
10001	LIVE OAK-15.5IN
10002	LIVE OAK-16IN
10003	LIVE OAK MULTI-15.5IN, 18.5IN
10004	LIVE OAK-18.5IN
10005	LIVE OAK-17.5IN
10006	LIVE OAK-17.5IN
10007	LIVE OAK-14.5IN
10008	LIVE OAK-18IN
10009	LIVE OAK-13IN
10009	LIVE OAK-16IN
	LIVE OAK-17IN
10011	
10012	LIVE OAK-29IN LIVE OAK MULTI-29.5IN, 33.5IN
10015	
10016	LIVE OAK-22.25 IN
10017	LIVE OAK-21.5 IN
10018	LIVE OAK MULTI-29IN, 20 IN
10019	POST OAK-24IN
10020	LIVE OAK-35.25IN
10021	LIVE OAK-32.5IN
10022	LIVE OAK MULTI-22IN, 17IN
10023	LIVE OAK-14IN
10024	LIVE OAK-15IN
10066	LIVE OAK-18IN
10067	LIVE OAK-21IN
10069	LIVE OAK-19IN
10070	LIVE OAK-17IN
10071	LIVE OAK-25IN
10072	LIVE OAK-7IN
10073	LIVE OAK-18IN
10074	LIVE OAK-26IN
10075	LIVE OAK-28IN
10076	LIVE OAK-21IN
10077	LIVE OAK-11IN
10078	LIVE OAK-12IN
10079	LIVE OAK-21IN
10080	LIVE OAK-33IN
10090	LIVE OAK-38IN
10091	LIVE OAK MULTI-11.5IN, 12IN
10092	LIVE OAK-12IN
10093	UVE OAK MULTI- 27IN, 43IN
10094	LIVE OAK-20IN
10095	LIVE OAK-15IN
10096	LIVE OAK-15.5IN
11000	LIVE OAK-43IN
11001	LIVE OAK-20IN
11002	LIVE OAK-33IN
11003	LIVE OAK-33IN

TREE	SPECIES_DBH (diameter at
POINT#	breast height(in.))
11005	LIVE OAK -13.5IN
11006	LIVE OAK-6.25IN
11007	LIVE OAK-8.5IN
11008	LIVE OAK-9.25IN
11009	LIVE OAK-8IN
11010	LIVE OAK-10.25IN
11011	LIVE OAK-8.5IN
11012	LIVE OAK-8.5IN
11013	LIVE OAK-7.5IN
11015	LIVE OAK-24IN
11016	LIVE OAK-12.75IN
11017	LIVE OAK-9.5IN
11018	LIVE OAK-33.25IN
11019	LIVE OAK-13IN
11021	LIVE OAK-11IN
11022	LIVE OAK-8.5IN
11022	LIVE OAK-20.5IN
11023	LIVE OAK-12IN
	LIVE OAK-12IN
11025	
11026	LIVE OAK-9IN
11027	LIVE OAK-9.5IN
11028	LIVE OAK-10.5IN
11029	LIVE OAK-12.5IN
11030	LIVE OAK-6.5IN
11031	LIVE OAK-6.5IN
11032	LIVE OAK-9.5IN
11033	LIVE OAK-7.5IN
11034	LIVE OAK-7.5IN
11035	LIVE OAK-7IN
11036	LIVE OAK-12.5IN
11038	LIVE OAK MULTI-14IN, 18IN
11039	LIVE OAK-36.5IN
11040	LIVE OAK-24.5IN
11041	LIVE OAK-13IN
11042	LIVE OAK-10IN
11043	LIVE OAK-10.5IN
11044	LIVE OAK-12IN
11045	LIVE OAK-12IN
11046	LIVE OAK-12IN
11047	LIVE OAK-12IN
11048	LIVE OAK-30IN
11049	LIVE OAK-12IN
11049	PECAN-6IN
	LIVE OAK-13.5
11051 11052	PECAN-6.5
	LIVE OAK-22IN
11053	
11054	LIVE OAK-35.5IN
11055	LIVE OAK-41.5IN
11056	LIVE OAK-35.5IN
11057	LIVE OAK-16IN
11058	LIVE OAK-10IN
11059	LIVE OAK-12IN
11060	LIVE OAK-14IN
11061	LIVE OAK-15IN
11062	LIVE OAK-12IN
11064	LIVE OAK-26IN
11065	LIVE OAK-27IN
11066	LIVE OAK-11IN
11067	LIVE OAK-13IN



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Reviewee	d:
Date:	
	SHEET
	3
	of 8
Project	No.:
	1516-002



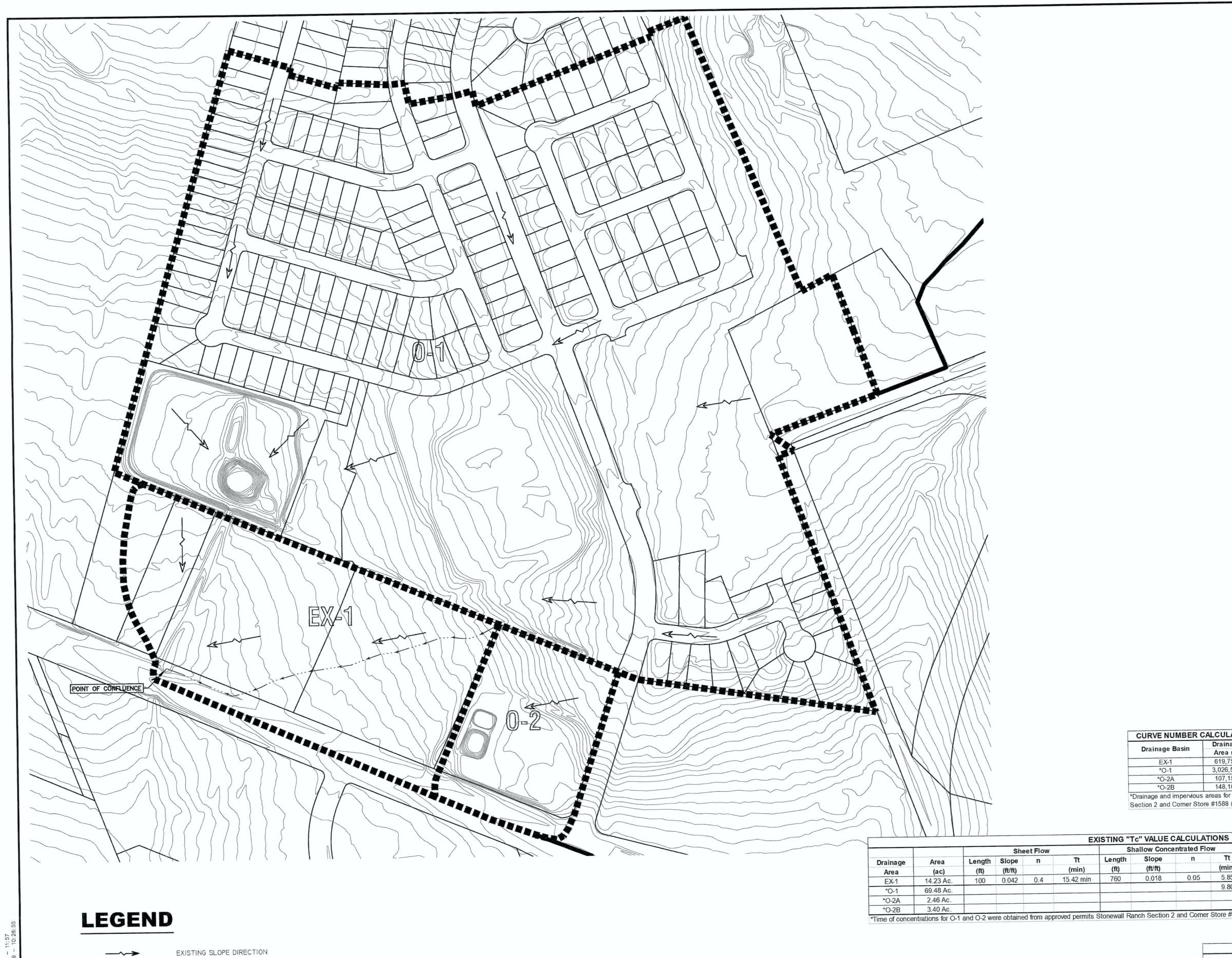
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O SITE FEATURES BOUNDARY OVERALL OVERLAND O EROSION DETAIL SCE TEMPOR ROCK E SILT FE TP TREE F SEE DE RIP-R SEE D

- THE CITY ENVIRONMENTAL INSPE
- REMOVING ANY SEDIMENT TRANSPO FROM THE LOC TO THE OFFSITE
- ENVIRONMENTAL INSPECTOR HAS AUTHORITY TO ADD OR MODIFY EN SEDIMENTATION CONTROLS ON SIT
- 1. THIS SITE IS NOT WITHIN THE 100 YEA 2.ALL DIMENSIONS ARE FROM FACE OF 3.UNDER NO CIRCUMSTANCES REGARDL
- RESPONSIBILITY TO CONSTRUCT THESE THE CONTRACTOR SHOULD TAKE IN C
- 5.ALL GUTTER IS SPILL TYPE UNLESS OT 6.ADJACENT ROADWAYS ARE TO BE KEPT
- INSTALLATION OF A TEMPORARY GATE
- 11. ADDITIONAL EROSION CONTROL MEASU 12. ALL INLETS SHALL HAVE INLET PROTE
- CONSTRUCTION IN ACCORDANCE WITH

END Y LINE LIMITS OF DISTURBANCE D SHEET FLOW S RARY STONE CONSTRUCTION EXIT TTAIL SHEET ENCE ETAIL SHEET ENCE ETAIL SHEET	Civil Engineering - Entitlements - Surveying/Mapping 7401 B. Highway 71 W, Suite 160 Austin, TX 78735, Tel: (512)-583-2600 www.doucetengineers.com Firm Registration Number: 3937
PROTECTION FENCE ETAIL SHEET AAP PAD VETAIL SHEET MITH CCTOR IS E FOR NOTE TO GENERAL CONTRACTOR: PRIOR TO CONSTRUCTION, GC MUST CLEARLY DELINEATE AND MARK OFF AREAS IDENTIFIED IN THE SWPPP OR IN THE FIELD, TO BE PROTECTED (SUCH AS, NATURAL BUFFERS, TREES, HABITATS OF ENDANGERED/ THREATENED SPECIES, HISTORIC PROPERTIES, ETC.). WARNING !!!! CONTRACTOR TO FIELD VERIFY ALL EXIST. UTILITIES VERTICALLY AND HORIZONTIALLY PRIOR TO CONSTRUCTION ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST REMAINS WITH THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.	ROSION AND DIMENTATION ONTROL PLAN
CURB UNLESS SPECIFIED OR SHOWN OTHERWISE LESS OF WHAT IS SHOWN IN THESE PLANS IS THE CONTRACTOR RELIEVED OF HIS SOLE ON IN COMPLIANCE WITH ALL ACCESSIBILITY LAWS AND/OR RULES BY THE ADA, TDLR OR ANY ES SHEET AND COVER SHEET FOR ADDITIONAL INFORMATION. ROW) IS SHOWN "AS-IS" ONLY; AS CREATED BY THE SURVEYOR. DOUCET AND ASSOCIATES, HAS HOWN AND ONLY INDICATES RECORD / DEED OR PLAT INFORMATION ROTATED AS BEST AS DNUMENTS AND BOUNDARY LINES SHOWN BY THE SURVEYOR. THE CONTRACTOR HAS THE SOLE IMPROVEMENTS OUTSIDE O EASEMENTS AND SETBACKS AS SHOWN ON THESE PLANS. LIKEWISE, CONSIDERATION PERFORMING A BOUNDARY SURVEY BY A TX RPLS AND STAKING THE BUILDINGS THERWISE SPECIFIED. T CLEAN AND CLEAR AT ALL TIMES FROM CONSTRUCTION DEBRIS. ALL FIRE LANES SHALL BE 14' MINIMUM. PRUNE TREES AS NECESSARY. NO TREE, SIGN, OR VANCE ABOVE ANY FIRE LANE. E SCE LOCATION WITH OWNER AND CITY. LOCATION MAY BE ADJUSTED TO ACCOMMODATE E IF CONTRACTOR CHOOSES TO USE TEMPORARY SITE FENCING / SECURITY TO MAINTAIN A TRETAL STAGING AREA MUST HAVE SILT FENCE INCORPORATED ON THE IMMEDIATE DOWNSTREAM VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF CEDAR PARK CITY ORDINANCES. JRES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION. ECTION IN PLACE UNTIL THE COMPLETION OF GRADING AND REVEGETATION. HORITY TO MODIFY EROSION/SEDIMENTATION CONTROLS AS REQUIRED TO ENSURE THE CONTROLS & DEBRIS CARRIED ONTO EXISTING ROADS SHALL BE REMOVED IMMEDIATELY AND THE ROAD FREE FROM OBSTRUCTIONS. ON UTILITY IMPROVEMENTS, THE CONTRACTOR SHALL BE REMOVED IMMEDIATELY AND THE ROAD FREE FROM OBSTRUCTIONS. ND UTILITY IMPROVEMENTS, THE CONTRACTOR SHALL BE REMOVED IMMEDIATELY AND THE ROAD THE CONDITIONS LISTED ON THE GENERAL NOTES SHEET. J. UNTIL BE CLEARED BY INSPECTOR PLAN NOTES SHEET. L. MUST BE CLEARED BY INSPECTOR PLAN NOTES SHEET. SLOPES 3:1 OR GREATER, SUITABLE ESC MATTING (TYPE I) WILL BE UTILIZED IN CONJUNCTION (TYPE II) FOR CHANNELS.	R QUALITY MMERCIAL TEXAS C
	PHASE 1 WATER QUP STONEWALL COMME LIBERTY HILL, TEXAS
Belleville and a second s	Designed: NS Drawn: PN & JP Reviewed: NS Date: 01/22/2019 SHEET 4 OF 8 Project No.:

1516-002

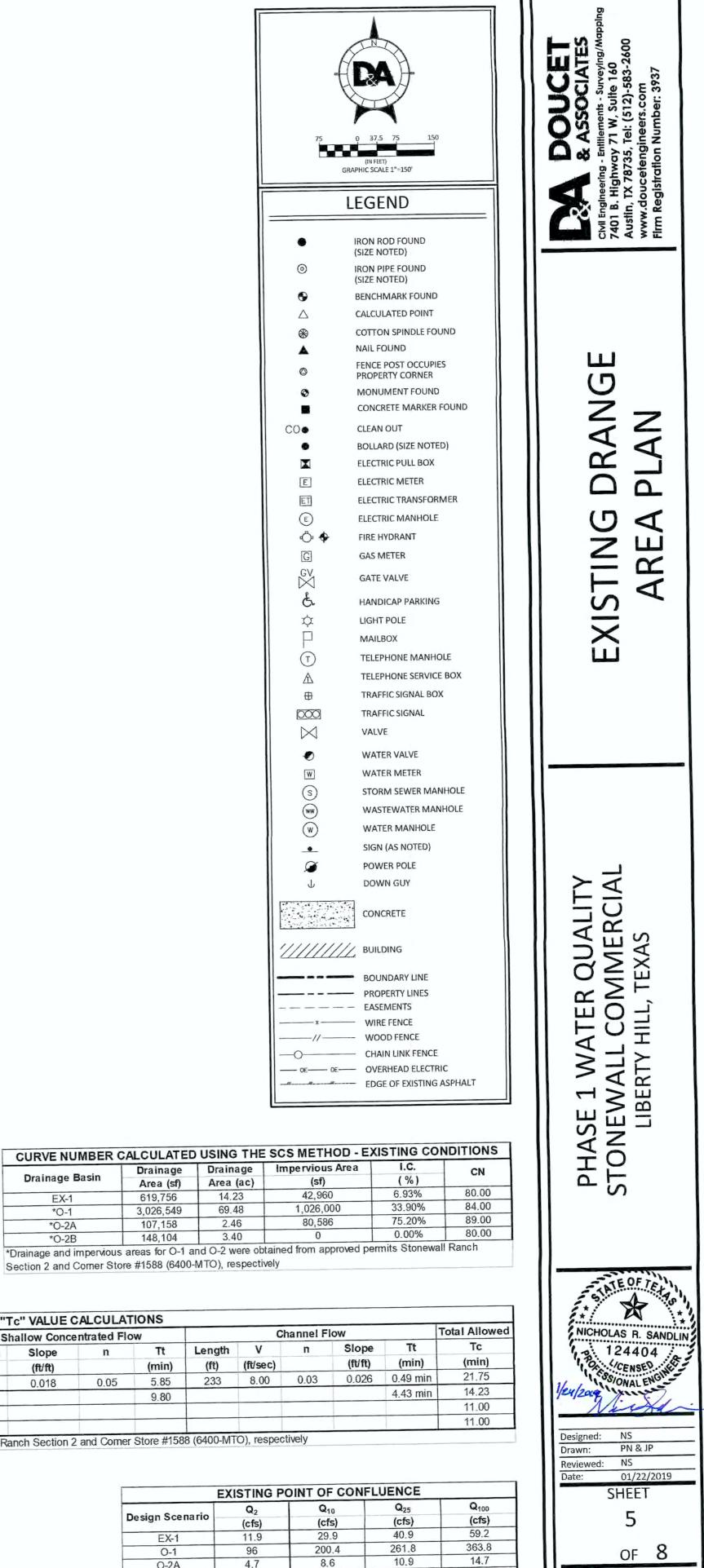


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EXISTING DRAINAGE AREA

TIME OF CONCENTRATION

			She	et Flow			anow con
Drainage	Area	Length	Slope	n	Tt	Length	Slope
Area	(ac)	(ft)	(ft/ft)		(min)	(ft)	(ft/ft)
EX-1	14.23 Ac.	100	0.042	0.4	15.42 min	760	0.018
*0-1	69.48 Ac.	1					
*O-2A	2.46 Ac.				-		
*O-2B	3.40 Ac.				proved permits		



Project No.: 1516-002

17.4

228.1

0-2A

O-2B

POC

8.6

8.7

114.2

12

155.9

4.7

3.4

48

EX-1

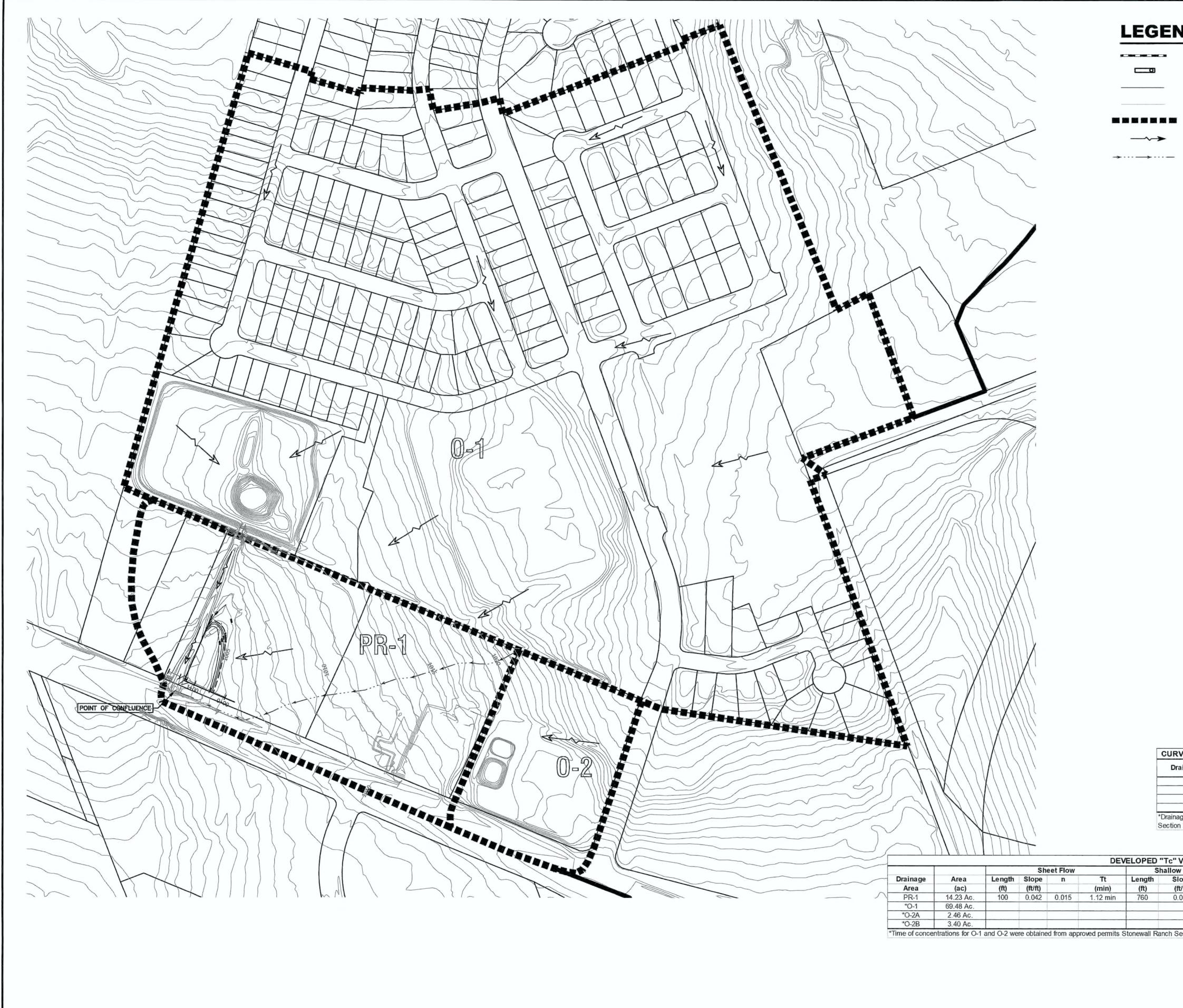
*0-1

*0-2A

*O-2B

.018

n



ser ast lot

*Time of concentrations for O-1 and O-2 were obtained from approved permits Stonewall Ranch Section 2 and Corner Store #1588 (6400-MTO), respectively

ND STORM SEWER PIPING CURB INLET PROPOSED CONTOURS EXISTING CONTOURS PROPOSED DRAINAGE PROPOSED DRAINAGE TIME OF CONCENTRAT	AREA BOUNDARY RUNOFF FLOW		0 37.5 75 150 (IN FEET) HAPHIC SCALE 1"=150' LEGEND IRON ROD FOUND (SIZE NOTED)		Civil Engineering - Entitlements - Surveying/Mapping Civil Engineering - Entitlements - Surveying/Mapping 7401 B. Highway 71 W, Suite 160 Austin, TX 78735, Tel: (512)-583-2600 www.douccetengineers.com Firm Registration Number: 3937
			IRON PIPE FOUND (SIZE NOTED) BENCHMARK FOUND CALCULATED POINT COTTON SPINDLE FOUND COTTON SPINDLE FOUND FENCE POST OCCUPIES PROPERTY CORNER MONUMENT FOUND CONCRETE MARKER FOU CUEAN OUT BOLLARD (SIZE NOTED) ELECTRIC PULL BOX ELECTRIC PULL BOX ELECTRIC TRANSFORMER ELECTRIC MANHOLE FIRE HYDRANT GAS METER GATE VALVE HANDICAP PARKING LIGHT POLE MAILBOX TELEPHONE MANHOLE TELEPHONE SERVICE BOX TRAFFIC SIGNAL BOX TRAFFIC SIGNAL VALVE WATER VALVE	JND	PROPOSED DRAINAGE AREA PLAN
RVE NUMBER CALCULA Drainage Basin Drain PR-1 619,7 *O-1 3,026, *O-2A 107,1 *O-2B 148,1	age Drainage (sf) Area (ac) 56 14.23 549 69.48 58 2.46	S WW W U C C C C C C C C C C C C C	STORM SEWER MANHOL WASTEWATER MANHOL WATER MANHOLE SIGN (AS NOTED) POWER POLE DOWN GUY CONCRETE BUILDING BOUNDARY LINE PROPERTY LINES EASEMENTS WIRE FENCE WOOD FENCE CHAIN LINK FENCE OVERHEAD ELECTRIC EDGE OF EXISTING ASPH/ ROPOSED COND I.C. (%) 71.83% 33.90% 75.20%	ALT	PHASE 1 WATER QUALITY STONEWALL COMMERCIAL LIBERTY HILL, TEXAS
nage and impervious areas for ion 2 and Corner Store #1588 "VALUE CALCULATION: ow Concentrated Flow Slope n (ft/ft) (mir 0.018 0.025 4.64 Section 2 and Corner Store #	O-1 and O-2 were obta (6400-MTO), respective S Length V I) (ft) (ft/sec 4 233 18.46	Channel Flow n Slop c) (ft/ft 0.013 0.02	Total e Tt) (min) ((6 0.21 min 4 1	Allowed Tc min) 5.97 14.23 11.00 11.00	NICHOLAS R. SANDLIN 124404 1

Design Scenario	Q ₂	Q ₁₀	Q ₂₅	Q ₁₀₀
Design Scenario	(cfs)	(cfs)	(cfs)	(cfs)
PR-1	27.6	52.5	67.2	91.6
0-1	96	200.4	261.8	363.8
O-2A	4.7	8.6	10.9	14.7
O-2B	3.4	8.7	12	17.4
POC	48	107.2	142.6	203.7

Designed: NS Drawn: PN & JP

01/22/2019

SHEET

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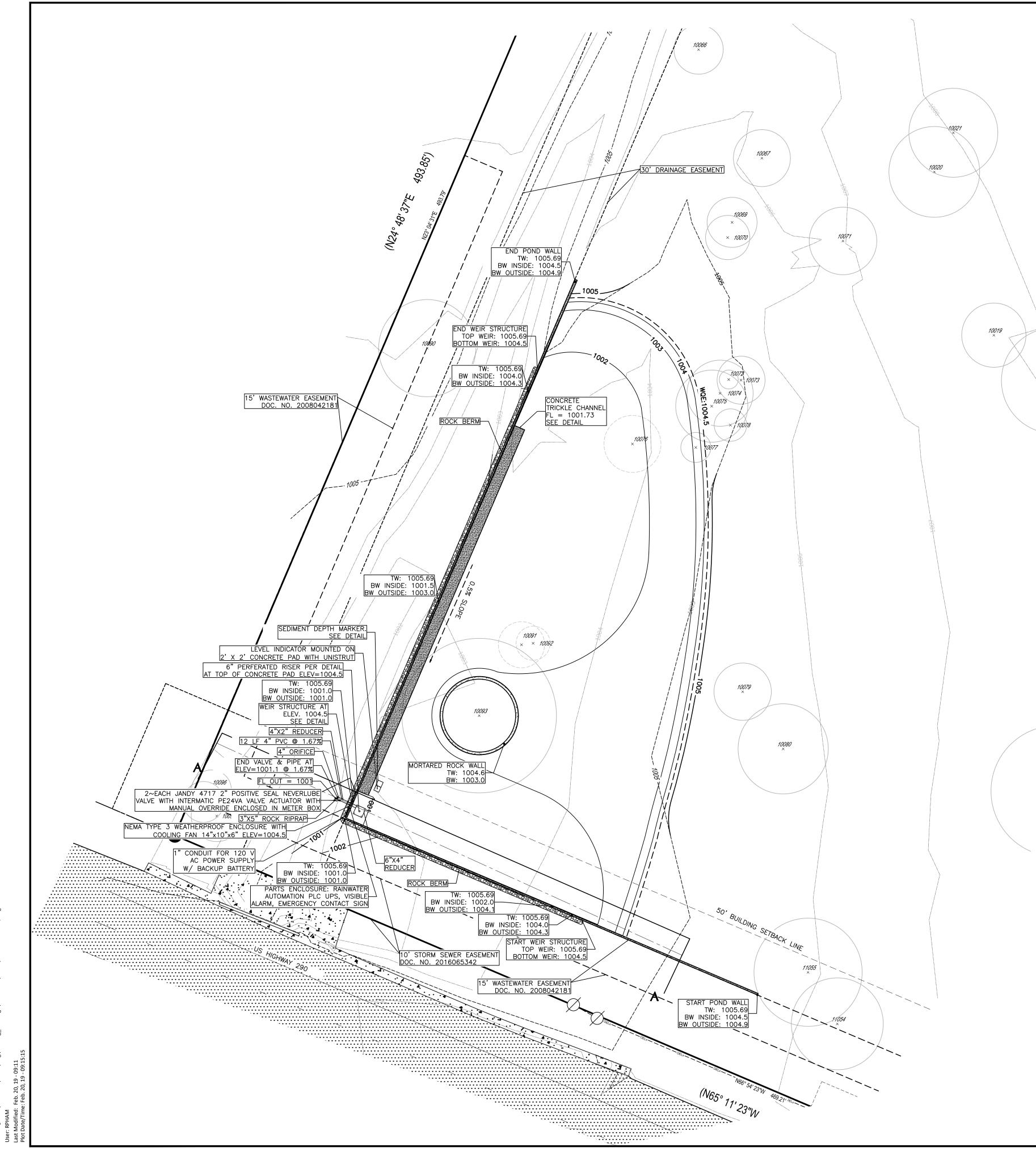
1516-002

of **8**

Reviewed: NS

Project No.:

Date:



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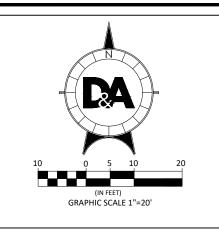
BATCH DETENTION POND)	
Contribution Designed Area -		
Contributing Drainage Area =	PR-1	
Total Drainago Aroa -	40.00	
Total Drainage Area = Pre-Development I.C. =	10.86	acre
Post-Development I.C. =	0.00	acre
•	9.23	acre
Post-Development I.C. Fraction =	0.85	
LM TOTAL PROJECT =	8,034	lbs
AC-	10.00	
AC =	10.86	acre
AI =	9.23	acre
AP =	1.63	acre
LR =	9,325	lbs
Fraction of Annual Runoff (F) =	0.00	
	0.86	
Rainfall Depth =	1.38	inch
Post Development Runoff Coefficient =		
On-site Water Quality Volume =	0.69 37,760	cubic ft
	57,700	
Off-site area draining to BMP =	0	acre
Off-site Impervious cover draining to BMP =	0	acre
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0	
Off-site Water Quality Volume =	0	cubic ft
Storage for Sediment =	7,552	cubic ft
Total Capture Volume Required =	45,311	cubic ft
Total Capture Volume Provided =	45,485	cubic fit

10018 ×

10015 ×

STONEWALL COMMERCIAL (5.5 AC)								
	WATER QUALITY POND STAGE-STORAGE							
Stage (ft msl) Area (sf) Area (acres) Storage Incremental (cf) Storage Cummulative (cf) Storage Cummulative (cf)								
1001.00	70	0.00	0	0	0.00			
1002.00	10,411	0.24	5,240	5,240	0.12			
1003.00	17,076	0.39	13,743	18,984	0.44			
1004.00	17,863	0.41	17,470	36,454	0.84			
1004.50	18,262	0.42	9,031	45,485	1.04			

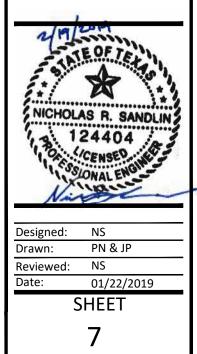
1	Pond Drav	vdown Calcula	ations	
	Stage Storage Ta			
Stage	Area (Square Feet)	Incr. Volume (Cubic Feet)	Storage (Cubic Feet)	
1001	70	0	0	
1002	10,411	5,240	5,240	
1003	17076	13,743	18,984	
1004	17863	17,470	36,454	
1004.5	18262	9,031	45,485	
Circular Diameter (in)	4.00			
Orifice FL	1001.00			
Draw time req. (hr)	48.00			
Area (ft^2)	0.087			
Outflow Coefficient	0.60			
Critical Elevation	1001.17			
	Ou	tlet Rating Curve		
WSEL	Flowrate	Avg Flowrate	Incr. Draw time	Cum. Draw time
1001.00	0.00	0.00	0.00	0.00
1002.00	0.38	0.10	15.18	15.18
1003.00	0.57	0.33	11.48	26.66
1004.00	0.71	0.52	9.33	36.00
1004.50	0.77	0.64	3.90	39.90



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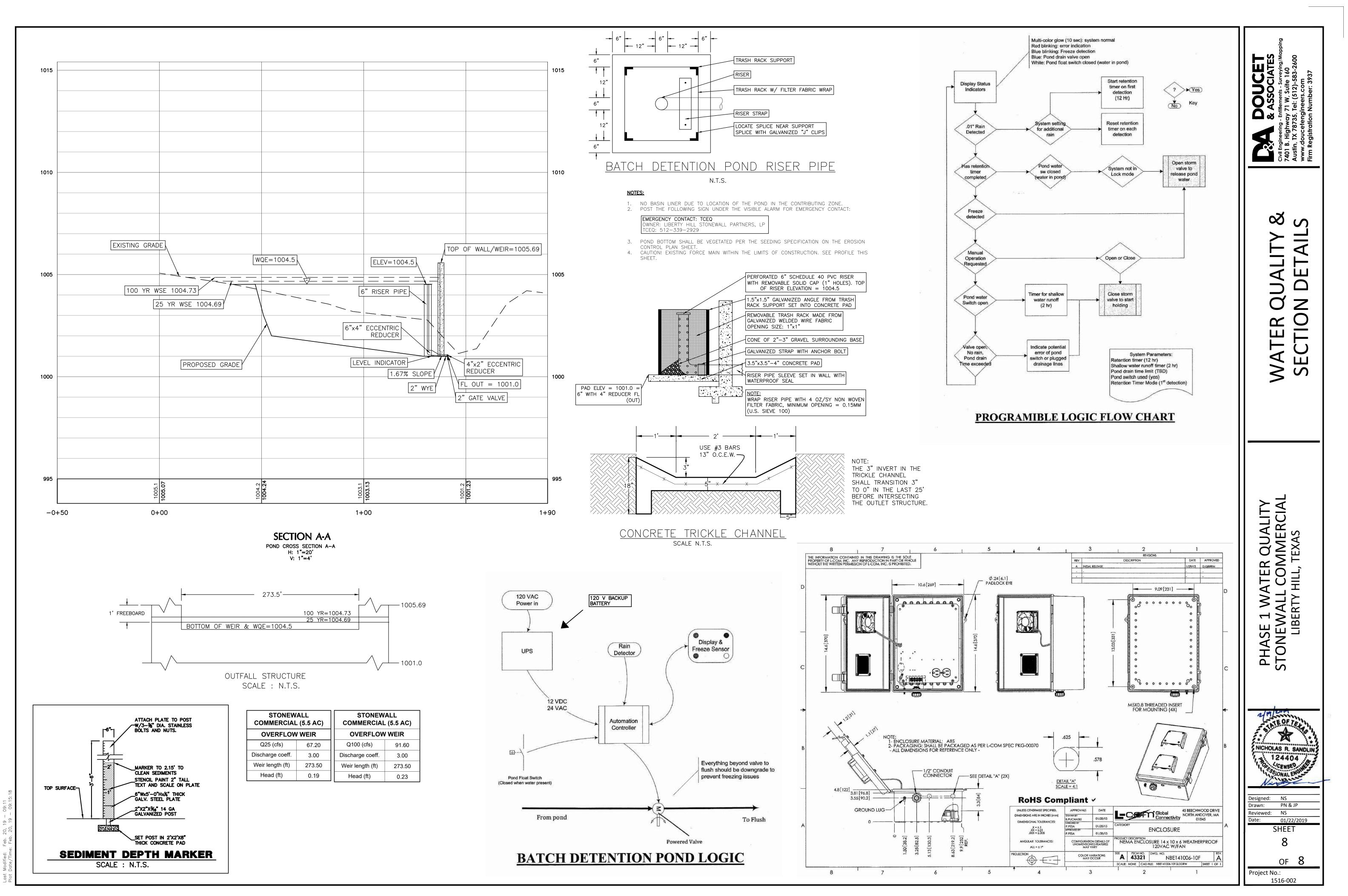
PHASE 1 WATER QUALITY STONEWALL COMMERCIAL LIBERTY HILL, TEXAS



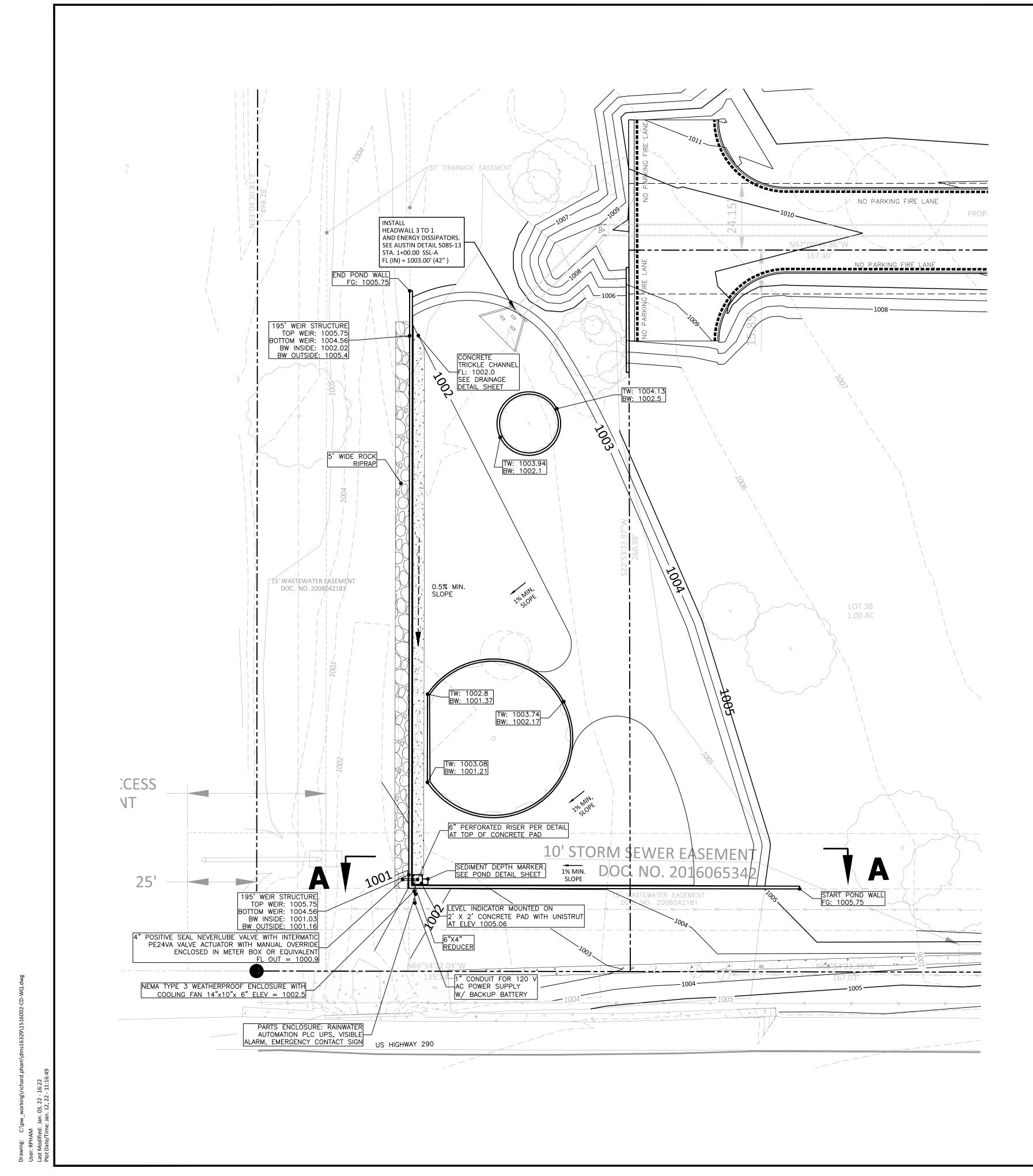
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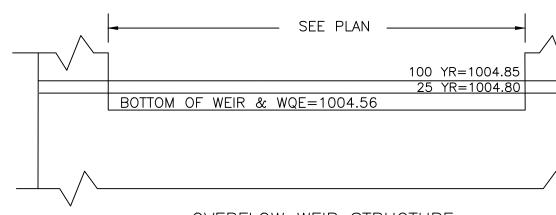
Project No.:



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	POND	OVERFLOW WEIF	R DESIGN	
Provided Overflo	ow Elevation	=	1004.56	
Top of W	eir Elevation	=	1005.75	
	Using the	weir flow equation:		
		Q = C*L*H^(3/2)		
			25-yr	100-yr
Q = Develop	bed flow (cfs)	67.20	91.60
C = Weir co	efficient		3.0	
L = Width of	weir (feet)		195.0	
H = Depth o	f flow (feet)		0.24	0.29
Max. WS	E		1004.80	1004.85



OVERFLOW WEIR STRUCTURE SCALE : N.T.S.

Stage (ft m s l)	Area (sf)	Area (acres)	Storage Incremental (cf)	Storage Cum mulative (cf)	Storage Cum m ulative (ac-ft)
1001.00	0	0.00	0	0	0.00
1002.00	8,055	0.18	4,028	4,028	0.09
1003.00	16,352	0.38	12,204	16,231	0.37
1004.00	19,762	0.45	18,057	34,288	0.79
1004.56	20,323	0.47	11,224	45,512	1.04

Stage	
1001.00	
1002.00	
1002.00	
1004.00	
1004.56	
Circular Diamete	
Circular Diamete	r (in)
	,,,,,,
Orifice FL	
Orifice FL Draw time req.	
Orifice FL Draw time req. Area (ft^2)	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic	(hr)
Orifice FL Draw time req. Area (ft^2)	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic Critical Elevati	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic Critical Elevat	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic Critical Elevat <u>WSEL</u> 1001.00	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic Critical Elevati <u>WSEL</u> 1001.00 1002.00	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic Critical Elevati <u>WSEL</u> 1001.00 1002.00 1003.00	(hr)
Orifice FL Draw time req. Area (ft^2) Outflow Coeffic Critical Elevati <u>WSEL</u> 1001.00 1002.00	(hr)



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OND

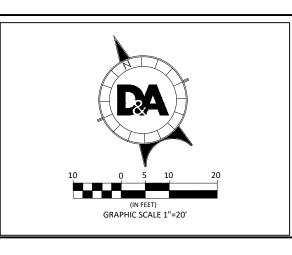
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ALITY

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WATER

WEST



	BATCH DETENTION POND		
	Contributing Drainage Area =	PR-1	
	Total Drainage Area =	10.86	acre
	Pre-Development I.C. =	0.00	acre
	Post-Development I.C. =	9.23	acre
	Post-Development I.C. Fraction =	0.85	
	L(M Total Project) =	8,034	lbs
	A _c =	10.86	acre
	A ₁ =	9.23	acre
2	A _p =	1.63	acre
	L _R =	9,325	lbs
	Fraction of Annual Runoff (F) =	0.86	
	Rainfall Depth =	1.38	inch
005.75	Post Development Runoff Coefficient =	0.69	
	On-site Water Quality Volume =	37,760	cubic ft
	Off-site area draining to BMP =	0	acre
	Off-site Impervious cover draining to BMP =	0	acre
	Impervious fraction of off-site area =	0	
	Off-site Runoff Coefficient =	0	
ee plan	Off-site Water Quality Volume =	0	cubic ft
	Storage for Sediment =	7,552	cubic ft
	Total Capture Volume Required =	45,311	cubic ft
	Total Capture Volum e Provided =	45,512	cubic fit

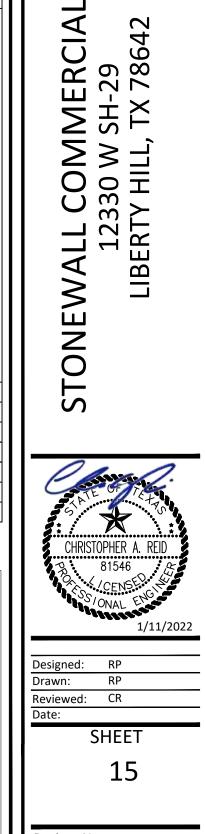
Pond Drawdown Calculations

Stage	Storage	Table	

Area	Incr. Volume	Storage
(Square Feet)	(Cubic Feet)	(Cubic Feet)
0	0	0
8,055	4,028	4,028
16352	12,204	16,231
19762	18,057	34,288
20323	11,224	45,512

4.00
1000.90
48.00
0.087
0.60
1001.07

0	utlet Rating Curve		
Flowrate	Avg Flowrate	Incr. Draw time	<u>Cum. Draw time</u>
0.00	0.00	0.00	0.00
0.41	0.10	11.02	11.02
0.58	0.34	9.89	20.91
0.72	0.53	9.44	30.35
0.79	0.66	4.74	35.09



Project No.: 1516-002

ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR & RETROFIT PLAN

The following guidelines should be used for the maintenance plan for the batch detention pond system being utilized to treat runoff from the Stonewall Commercial project for water quality.

- Inspections. Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.
- Sediment Removal. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.
- **Mowing.** The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.
- **Debris and Litter Removal.** Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.
- **Erosion Control.** The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.



Section 2: Attachment N

Stonewall Commercial – Liberty Hill, TX Contributing Zone Plan

- **Structural Repairs and Replacement.** With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.
- Logic Controller. The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.



Section 2: Attachment N

Stonewall Commercial – Liberty Hill, TX Contributing Zone Plan

 Nuisance Control. Standing water or soggy conditions in the retention basin can create nuisance conditions for nearby residents. Odors, mosquitoes, weeds, and litter are all occasionally perceived to be problems. Most of these problems are generally a sign that regular inspections and maintenance are not being performed (e.g., mowing and debris removal).

Record Keeping:

Maintenance and inspection records should be kept on file by the Owner of the permanent BMP's for a period of at least three (3) years. Repair and retrofit records should be kept on file by the Owner of the permanent BMP's for a period of at least five (5) years. The attached Operation and Maintenance Checklist shall be completed for each inspection performed.

Liberty Hill Stonewall Partners, LP

01 Print Name

Title

Date

PREPARED AND CERTIFIED BY ENGINEER:

Nicholas Sandlin, P.E.

12-3-2018







Section 2: Attachment N Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 17, 2022

Mr. Michael Axelrad Stonewall Ranch Commercial, JV 3200 Southwest Fwy Ste 3000 Houston, Texas 77027-7567

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: Stonewall Commercial; Located 0.25 Miles Northwest of Stonewall Pkwy and SH 29, Liberty Hill, Texas

TYPE OF PLAN: Request for Extension to Commence Regulated Activities Authorized by a Previously Approved Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213

Regulated Entity No. RN110591567; Additional ID No. 11001376

Dear Mr. Axelrad:

On February 18, 2022, the Texas Commission on Environmental Quality (TCEQ) received your request for an extension to commence regulated activities related to the above referenced CZP, approved by letter dated February 20, 2019. The extension is granted based on the provision that there have been no modifications to the previously approved plan. This extension expires on **August 20, 2022**. If construction has not commenced by this date, another request for extension must be received before the extension expires.

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

Sincerely,

Lillian Butlen

Lillian Butler, Section Manager Edwards Aquifer Protection Program Texas Commission on Environmental Quality

LIB/hhp

cc: Richard Pham, P.E., Doucet & Associates, Inc.

TCEQ Region 11 • P.O. Box 13087 • Austin, Texas 78711-3087 • 512-339-2929 • Fax 512-339-3795

ATTACHMENT D

FACTORS AFFECTING SURFACE WATER QUALITY



ATTACHMENT D: FACTORS AFFECTING SURFACE WATER QUALITY

Surface water quality can be affected in two ways: during construction and after construction. Each is considered separately.

During Construction: Normal Factors for construction affect water quality such as the following,

- Erosion of Disturbed Areas: soil areas where vegetation is removed during construction tends to wash away during rainfall.
- Sedimentation in Stormwater Runoff: Soils and debris are washed away during rainfall which will be retained onsite by using silt fence as shown in the attached construction plans.

After Construction: Factors affecting surface quality after construction is completed include,

- Erosion of Disturbed Areas: After construction is completed, the disturbed areas will be revegetated. Temporary controls will be maintained until re-vegetation is established.
- Increased Impervious Cover: The impervious cover will be treated by using Permanent BMPs. The proposed BMPs will consist of one (1) wet pond which will be built by others.



ATTACHMENT E

VOLUME AND CHARACTER OF STORMWATER



ATTACHMENT E: VOLUME AND CHARACTER OF STORMWATER

The drainage plans and calculations have been provided in the attached construction plans. Soils for this site consist of Fat Clay with varying sand/gravel content from existing ground surface to a depth of 2 feet

The runoff coefficient (C) values were determined by using the city of Round Rock Drainage Policy Table 2-1.

Existing Conditions: the site drains generally to the southwest side where it is collected by a wet pond at the west.

Proposed Conditions: The site utilizes a storm sewer network to drain the site to the wet pond. All drainage systems have been designed in accordance with the City of Austin DCM and are designed to convey the 100-year storm event. Refer to the drainage calculations included in the plans for detailed analysis.

ATTACHMENT F

SUITABLE LETTER FROM AUTHORIZED AGENT (NOT APPLICABLE)



ATTACHMENT G

ALTERNATIVE SECONDARY CONTAINMENT METHODS (NOT APPLICABLE)



ATTACHMENT H

AST CONTAINMENT STRUCTURE DRAWINGS (NOT APPLICABLE)



ATTACHMENT I

20% OR LESS IMPERVIOUS COVER WAVER (NOT APPLICABLE)



ATTACHMENT J

BMPs FOR UPGRADIENT STORMWATER



ATTACHMENT J

BMPs FOR UPGRADIENT STORMWATER

No surface water, groundwater or stormwater originates upgradient from the site and flows across the site.

The proposed grading of the master development is designed to have no lot to lot drainage. Please see Attachment E Proposed Drainage Map.



ATTACHMENT K

BMPs FOR ON-SITE STORMWATER



ATTACHMENT K: BMPS FOR ON SITE STORMWATER

All stormwater from the site will be conveyed to the existing wet pond on the west through a combination of area inlets and storm sewer systems. In accordance with TCEQ Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices (Revised), RG-348, dated July 2005, the proposed permanent BMPs will reduce the annual increase in Total Suspended Solids (TSS) load in storm water runoff by at least 80%. The existing wet pond located on the west was designed to provide treatment for this site development.

This project proposed impervious cover is equal to what was projected for the site; therefore, no additional BMPs are necessary. Refer to the attached drainage area exhibit that depicts the total amount of area that is associated with this BMP.

Texas Commission on Environmental Quality TSS Removal Calculations 04-20-2009 Project Name: Sherwin Williams Date Prepared: 7/24/2023 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. Calculations from RG-348 Pages 3-27 to 3-30 1. The Required Load Reduction for the total project: Page 3-29 Equation 3.3: L_M = 27.2(A_N x 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 Williamson County = acres Total project area included in plan * = 0.85 Predevelopment impervious area within the limits of the plan * 0.00 acres Total post-development impervious area within the limits of the plan* = 0.90 acres Total post-development impervious cover fraction * = 1.06 P = 32 inches LM TOTAL PROJECT = 783 lbs * The values entered in these fields should be for the total project area. Number of drainage basins / outfalls areas leaving the plan area = 1 2. Drainage Basin Parameters (This information should be provided for each basin): Drainage Basin/Outfall Area No. = **PR-1** Total drainage basin/outfall area = 10.86 acres Predevelopment impervious area within drainage basin/outfall area = 0.00 acres Post-development impervious area within drainage basin/outfall area = 9.23 acres Post-development impervious fraction within drainage basin/outfall area = 0.85 8034 LM THIS BASIN = lbs. 3. Indicate the proposed BMP Code for this basin. Proposed BMP = Extended Detention Removal efficiency = 75 percent Aqualogic Cartridge Filter **Bioretention** Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault 4. Calculate Maximum TSS Load Removed (LR) for this Drainage Basin by the selected BMP Type. RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54) A_c = Total On-Site drainage area in the BMP catchment area where: A_I = Impervious area proposed in the BMP catchment area A_P = Pervious area remaining in the BMP catchment area L_R = TSS Load removed from this catchment area by the proposed BMP $A_{C} =$ 10.86 acres $A_1 =$ 9.23 acres 1.63 $A_{P} =$ acres

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall are	<u>ea</u>			
Desired $L_{M THIS BASIN} =$	3482	lbs.		
F =	0.45			
6. Calculate Capture Volume required by the BMP Type for this drainage basin	n / outfall a	area.	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	0.36 0.69 9768	inches cubic feet		
		from RG-348	Pages 3-36 to 3-37	
Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	0.00 0.00 0 0.00	acres acres		
Off-site Water Quality Volume =	0	cubic feet		
Storage for Sediment = Total Capture Volume (required water quality volume(s) x 1.20) =	1954 11722	cubic feet		

L_R = **7686**

lbs

TABLE 1: CZP MODIFICATION AND PROJECTED FULL BUILDOUT FOR WET POND						
		NAGE EA	IMPERVIOUS COVER	IMPERVIOUS COVER		
	SQFT	ACRES		SQFT	ACRES	
T1	215,481	4.947	PREVIOUSLY PERMITTED TRD	110,207	2.530	
B1 _A	12,118	0.278	PREVIOUSLY PERMITTED TRD	7,405	0.170	
B1 _B	49,203	1.130	PREVIOUSLY PERMITTED BR2	36,590	0.840	
			PREVIOUSLY PERMITTED FS	29,637	0.680	
B1 _c	121,401	2.787	PREVIOUSLY PERMITTED ^{JL}	24,524	0.563	
			PROJECTED*	42,959	0.986	
B1 _D	60,650	1.392	PREVIOUSLY PERMITTED BR2	3,058	0.070	
B1 _E	118,913	2.730	PREVIOUSLY PERMITTED LSC	87,949	2.019	
B1 _F	44,154	1.014	EXISTING OFFSITE	23,890	0.548	
B1 _G	124,762	2.864	EXISTING OFFSITE	54,277	1.246	
B2 _A	64,722	1.486	EXISTING ONSITE	40,884	0.939	
			PROPOSED SITE	32,888	0.755	
B3 _A	230,700	5.290	PROJECTED*	171,910	3.947	
B3 _B	11,238	0.258	EXISTING OFFSITE	3,198	0.073	
TOTAL		24.181	-	669,376	15.367	

^{TRD} Trudy's site permitted under CZP Permit No. 11-10082301
 ^{BR2} Permitted under CZP Permit No. 11-10081701
 ^{LSC} Ledge Stone Commercial permitted under CZP Permit No. 11001048
 ^{FS} Firestone permitted under CZP Permit No. 11001926
 ^{JL} Jiffy Lube permitted under CZP Permit No. 11001910

*The projected IC for the Remainer of Drainage Area $B1_{C}$ and Drainage Area $B3_{A}$ such that the total IC is 80% for that drainage area

TABLE 2: WET POND CAPACITY

TOTAL IC AT FULL BUILDOUT	DESIGN IC	PROVIDED WQV
AC	AC	CUFT
14.902	17.658	83,217

ATTACHMENT L

BMPS FOR SURFACE STREAMS (NOT APPLICABLE)



ATTACHMENT M

CONSTRUCTION PLANS



PROJECT CONTACT LIST

ENGINEER TRIANGLE ENGINEERING LLC 1782 W MCDERMOTT DRIVE ALLEN, TEXAS 75013 CONTACT: JACK ZANGER TEL: 469-331-8566

OWNER/DEVELOPER IBERTY HILL DEVELOPMENT GROUP, LLC PINEHURST, NC 28374 120 MARKET SQ., FLOOR 2, CONTACT: GAVIN MELIA TEL: 910 724 6720

SURVEYOR TRAVERSE LAND SURVEYING LLC 14200 MIDWAY ROAD, SUITE 130 DALLAS, TX 75224 CONTACT: MARK NACE TEL: 469-426-7339

|--|

BASED ON THE DESIGN ENGINEER'S CERTIFICATION OF COMPLIANCE WITH ALL A REGULATIONS, THE PLANS AND SPECIFICATIONS CONTAINED HEREIN HAVE BEEN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF LIBERTY HILL.	
CURTIS STEGER, PE CITY ENGINEER	DATE
JERRY L. MILLARD, INTERIM DIRECTOR OF PLANNING DIRECTOR CITY OF LIBERTY HILL, TEXAS	DATE
LIZ BRANIGAN, MAYOR CITY OF LIBERTY HILL, TEXAS	DATE

SITE DEVELOPMENT PLANS FOR SHERWIN WILLIAMS

STONEWALL COMMERCIAL WEST 12360 W. STATE HIGHWAY 29 CITY OF LIBERTY HILL WILLIAMSON COUNTY, TEXAS 0.851 ACRES CITY PROJECT # 23-XXXXXXX



VICINITY MAP N.T.S.





BΥ	КР	KР		
DESCRIPTION	1ST SUBMITTAL	2ST SUBMITTAL		
DATE	07-03-23	07-13-23		
NO	~	2		



COVER SHEET	SHEPWIN WILLIAMS		12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS		
DATE PROJECT							
07/13/23							
P.E. DESIGN							
KP JZ							
SHEET # C-1.0							

SHEET NO.	DESCRIPTION
C-1.0	COVER SHEET
C-1.1	PLAT
C-1.2	SURVEY
C-2.0	DEMOLITION PLAN
C-3.0	SITE PLAN
C-3.1	SITE DETAILS
C-4.0	GRADING PLAN
C-5.0	OVERALL DRAINAGE
C-5.1	OVERALL DRAINAGE
C-5.2	PRE-DRAINAGE PLAN
C-5.3	POST-DRAINAGE PLAN
C-5.4	STORM SEWER PLAN & PROFILE
C-5.5	STORM SEWER DETAILS
C-6.0	PAVING PLAN
C-6.1	PAVING DETAILS
C-6.2	PAVING DETAILS
C-7.0	UTILITY PLAN
C-7.1	UTILITY DETAILS
C-7.2	UTILITY DETAILS
C-7.3	UTILITY DETAILS

EROSION CONTROL PLAN

TREE PLAN

LANDSCAPE PLAN

IRRIGATION PLAN

EROSION CONTROL DETAILS

LANDSCAPE SPECIFICATIONS

IRRIGATION SPECIFICATIONS

C-8.0

C-8.1

L.1

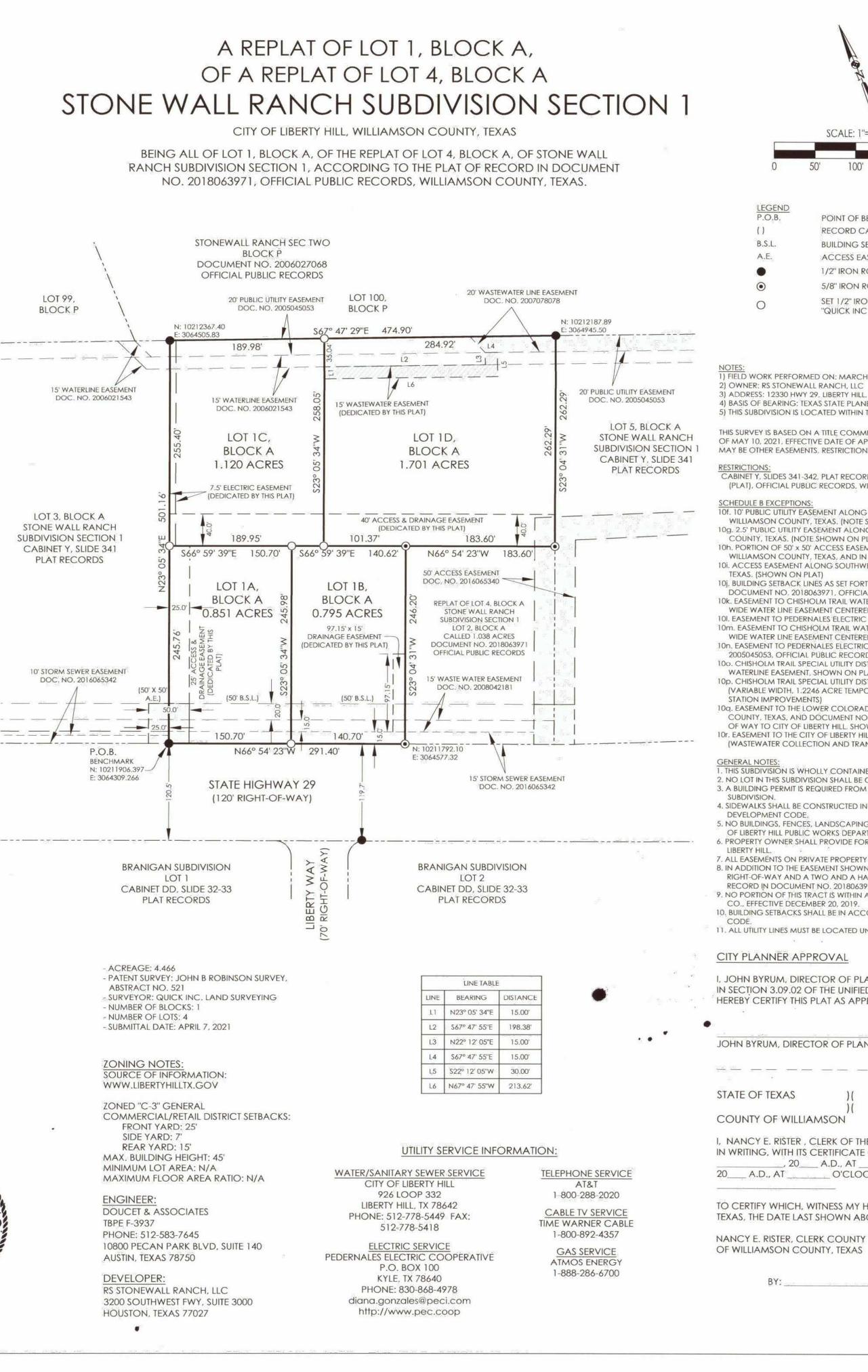
L.2

L.3

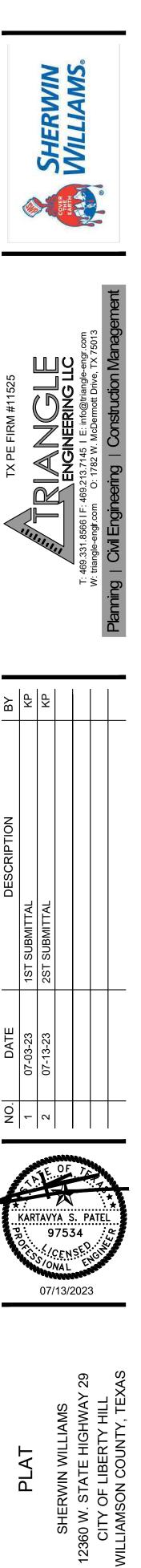
L.5

DRAWING SHEET INDEX

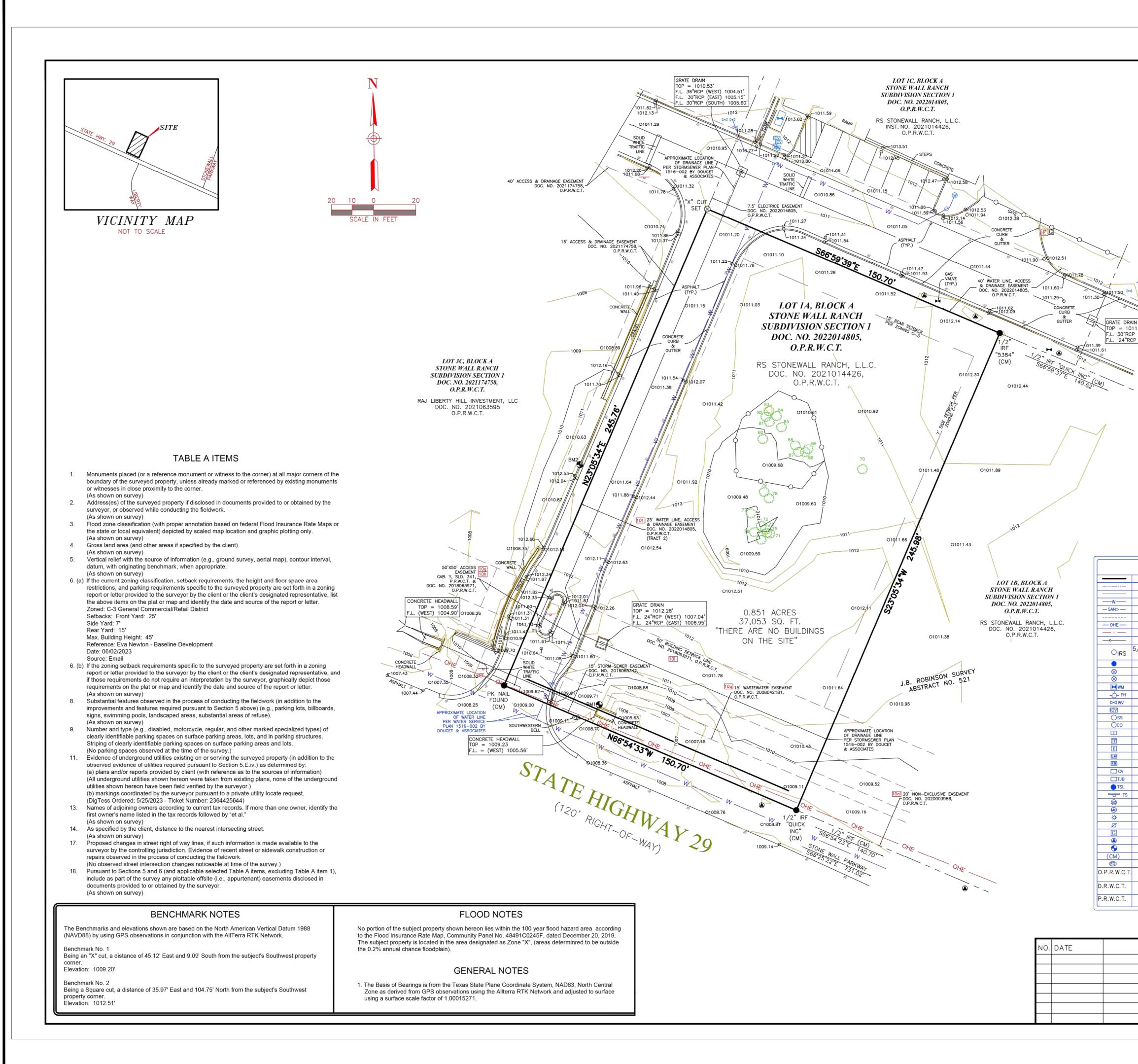
STATE OF TEXAS KNOW ALL MEN BY THESE PRESENTS; COUNTY OF WILLIAMSON I, RS STONEWALL RANCH, LLC, A TEXAS LIMITED LIABILITY COMPANY, AS THE OWNER OF THAT CERTAIN LOT 1. BLOCK A, OF A REPLAT OF LOT 4, BLOCK A, OF STONE WALL RANCH SUBDIVISION SECTION 1, RECORDED IN THE PLAT OF RECORD IN DOCUMENT NO. 2018063971, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, DO HEREBY DEDICATE TO THE PUBLIC FOREVER USE OF THE STREETS, ALLEYS, EASEMENTS AND ALL OTHER LANDS INTENDED FOR PUBLIC DEDICATION AS SHOWN HEREON TO BE KNOWN AS "REPLAT OF LOT 1, BLOCK A, THE SECOND REPLATIOF LOT 4, BLOCK A, OF THE STONE WALL RANCH SUBDIVISION SECTION 1". FOR: RS STONEWALL RANCH, LLC STATE OF TEXAS KNOW ALL MEN BY THESE PRESENTS; COUNTY OF WILLIAMSON BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED JURGE A. MALISE !! KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION THEREIN STATED. GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE 20 DAY OF DE 32M DET _____ 20 91. I'ma Pieras NOTARY PUBLIC STATE OF TEXAS PRINTED NAME: _______ QQA 1 Ura OLGA LUNA Notary ID #129541959 MY COMMISSION EXPIRES ON: 121-CD ber 22, 2025 My Commission Expires September 22, 2025 STATE OF TEXAS KNOW ALL MEN BY THESE PRESENTS; COUNTY OF WILLIAMSON I, TRAVIS L. QUICKSALL, REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON THE GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH CHAPTER 5, SUBDIVISIONS, PUBLIC IMPROVEMENTS, CITY OF LIBERTY HILL UNIFIED DEVELOPMENT CODE. 10 DAY OF DEC . 2021. TO CERTIFY WHICH, WITNESS MY HAND AND SEAL AT LIBERTY HILL, TEXAS THIS THE ____ -----TRAVIS L. QUICKSALL, R.P.L.S. NO. 6447 REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF TEXAS TRAVIS L. QUICKSALL 6447 ALL EASEMENTS OF RECORD ARE SHOWN OR NOTED ON THIS PLAT AS FOUND ON THE TITLE OLICY PREPARED IN CONJUNCTION WITH THE MOST RECENT PURCHASE OF THIS PROPERTY, PER G.F. NUMBER FTH-18-FAH21005297HC, ISSUED DATE OF MAY 10, 2021, EFFECTIVE DATE OF APRIL 12, 2021. STATE OF TEXAS KNOW ALL MEN BY THESE PRESENTS; COUNTY OF WILLIAMSON THAT I, CHRISTOPHER REID, DO HEREBY CERTIFY THAT THE INFORMATION ON THIS PLAT COMPLIES WITH CHAPTER 5. SUBDIVISIONS, PUBLIC IMPROVEMENTS, CITY OF LIBERTY HILL UNIFIED DEVELOPMENT CODE AND THE DESIGN AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF LIBERTY HILL, TEXAS. CHRISTOPHER REID, PE #81546 次 HRISTOPHER A REI 81546 CENS DATE: DECEMBER 14, 2021 JOB NO. 17-2033 Land Surveying. Land Planning. Consulting. Firm: 10194104 512-915-4950 1430 N. Robertson Road, Salado, Texas 76571 SHEET 1 OF 1



=100' TSO' 200' EGINNING ALL PER PLAT OF RECORD ETBACK LINE SEMENT OD FOUND COD F		SITE HIGHWAY LOCATION MAR	B USHIGHWAN	
		1" = 4000'	74-1	
PRIL 12, 2021 AND IS SUBJECT NS, OR ENCUMBRANCES NOT RDS, WILLIAMSON COUNTY, TE VILLIAMSON COUNTY, TEXAS. AND ADJACENT TO ALL RIGI SHOWN ON PLAT OF RECORD	TIONAL TITLE INSURANCE COMP TO ALL TERMS, CONDITIONS, LEA SHOWN.THE SURVEYOR DID NOT XAS, DOCUMENT NO. 201606534 HT-OF-WAY - RECORDED IN DOC	SES AND ENCUMBRANC COMPLETE AN ABSTRAC 40, 2018070869, AND DC CUMENT NO. 2018063971	CES STIPULATED THERE CT OF TITLE. DOUMENT NO. 201800	EIN. THERE 63971 ECORDS,
PLAT OF RECORD) MENT ALONG THE SOUTHWEST	EDED IN DOCUMENT NO. 201806 ERLY (FRONT) CORNER - RECOR , OFFICIAL PUBLIC RECORDS, WI	DED IN CABINET Y, SLIDE	341, PLAT RECORDS	5
AL PUBLIC RECORDS. WILLIAM TER SUPPLY CORP - RECORDEL ED ON INSTALLED LINES) COOPERATIVE, INC RECORDEL IN DOCUM STRICT - RECORDED IN DOCUM (AT) STRICT - RECORDED IN DOCUM ORARY CONSTRUCTION EASEM DO RIVER AUTHORITY - RECORD 2012032251, OFFICIAL PUBLIC WIN ON PLAT) ILL - RECORDED IN DOCUMENT NSMISSION SYSTEM EASEMENT ED WITHIN THE CURRENT COR OCCUPIED UNTIL CONNECTED ACCORDANCE WITH CHAPT G OR OTHER STRUCTURES ARE R ACCESS TO DRAINAGE EASING (SHALL BE MAINTAINED BY TH N HEREON, A TEN (10') FOOT V ALF (2.5') FOOT WIDE PUBLIC LE 2012032 AREA AND CORDANCE WITH CHAPTER 4, 2013 CORDANCE WITH CHAPTER 4, 2013 CORDAN	IN CABINET Y, SLIDE 341, PLAT RE SON COUNTY, TEXAS. (SHOWN O D IN VOLUME 1122, PAGE 919, O RDED IN VOLUME 1155, PAGE 252, C RDED IN DOCUMENT NO. 200500 XAS. (20' EASEMENT SHOWN ON MENT NO. 2006021543, OFFICIAL MENT NO. 2006021544, OFFICIAL MENT NO. 2006021544, OFFICIAL MENT NO. 2006021544, OFFICIAL MENT NO. 2006021544, OFFICIAL MENT NO. 2008021544, OFFICIAL MENT NO. 200802181, OFFICIAL PUB TO EXPIRE UPON COMPLET RDED IN DOCUMENT NO. 200707 IC RECORDS, WILLIAMSON COUL T NO. 2008042181, OFFICIAL PUB TO THE CITY OF LIBERTY HILL, SH PORATE LIMITS OF THE CITY OF LI D TO PERMITTED WATER DISTRIBU D TO PERMITTED WATER DISTRIBU D TO PERMITTED WATER DISTRIBU D TO CONSTRUCTION OF ANY B FER 5, SUBDIVISIONS & PUBLIC IMI PERMITTED WITHIN DRAINAGE E/ EMENTS AS MAY BE NECESSARY / E PROPERTY OWNER OR HIS OR H VIDE PUBLIC UTILITY EASEMENT IS DTILITY EASEMENT IS DEDICATED A DS, WILLIAMSON COUNTY, TEXAS HOWN ON THE FLOOD INSURANC ZONING AND LOT DESIGN STANE	DN PLAT) FFICIAL RECORDS, WILLIA DEED RECORDS, WILLIA DEED RECORDS, WILLIA 43695, AND RE-RECORD PLAT ALONG THE NORTH PUBLIC RECORDS, WILLI PUBLIC RECORDS, WILLIAM ION OF CONSTRUCTION 8078, OFFICIAL PUBLIC F NTY, TEXAS. (WASTEWATI DUIC RECORDS, WILLIAM OWN ON PLAT) BERTY HILL, TEXAS. TION AND WASTEWATER UILDING OR SITE IMPRO PROVEMENTS, CITY OF L ASEMENTS SHOWN EXC AND SHALL NOT PROHIE HER ASSIGNS. DEDICATED ALONG AN VLONG ALL SIDE LOT LINI) CE RATE MAP PANEL #44 DARDS, CITY OF LIBERTY H	AMSON COUNTY, TEX AMSON COUNTY, TEX JAMSON COUNTY, TEX PED IN DOCUMENT NO H LINE) AMSON COUNTY, TEX AMSON COUNTY, TEX AMSON COUNTY, TEX AMSON COUNTY, TEX AMSON COUNTY, TEXAS COLLECTION FACILI SON COUNTY, TEXAS COLLECTION FACILI SON COUNTY, TEXAS COLLECTION FACILI DVEMENTS ON ANY LO IBERTY HILL UNIFIED EPT AS APPROVED BY BIT ACCESS BY THE CI ND ADJACENT TO ALL ES. (SHOWN ON PLAT 8491C0245F FOR WILL HILL UNIFIED DEVELOR	XAS. (15' CAS. EXAS. (15' O. XAS. (15' XAS. PUMP DN ND RIGHT TIES. OT IN THIS Y THE CITY TY OF L I OF LIAMSON PMENT TED ME
D DEVELOPMENT CODE	THE CITY OF LIBERTY HILL, T , IN ACCORDANCE WITH T RECORD WITH THE COUNTY	HE TEXAS LOCAL G	OVERNMENT CO	DE, DO
NNING	DATE		•	
OF AUTHENTICATION, W	THESE PRESENTS; AID COUNTY, DO HEREBY ((AS FILED FOR RECORD IN M., AND DULY RECORDED AL PUBLIC RECORDS OF S,	MY OFFICE ON THE	DAY OF	JMENT
OVE WRITTEN.	COUNTY COURT OF SAID C	COUNTY, AT MY OF	FICE IN GEORGE	rown,
COURT				
, DEPUTY				



DATE	PROJECT				
07/13/23	047-23				
P.E.	DESIGN				
KP JZ					
SHEET #					



LAND DESCRIPTION

<u>Tract One:</u> Lot One-A (1A), Block A, A REPLAT OF LOT 1 BLOCK A, OF A REPLAT OF LOT 4, BLOCK A, STONE WALL RANCH SUBDIVISION, SECTION 1, an addition in and to the City of Liberty Hill, Williamson County, Texas, according to the map or plat thereof, recorded in Document Number 2022014805 of the Official Public Records of Williamson County, Texas.

Tract Two:

Easement Estate created by that certain Twenty Five (25') foot Access, and Drainage, as dedicated and evidenced on the Plat thereof recorded under Document Number 2022014805 of the Official Public Records of Williamson County, Texas.

Tract Three:

Easement Estate created by that certain Fifty (50') foot Access Easement, as set out and dedicated in that certain Declaration of Easements and Restrictions, recorded under Document Number 2016065340 of the Official Public Records of Williamson County, Texas, and beiing called a 0.568 acre, or 24,744 square feet situated in the John B. Robinson Survey, Abstract No. 521 in Williamson County, Texas, being out of Lot 5, Block A, and a portion of Lot 4, Block A of Stone Wall Ranch Subdivision, Section One, recorded in Cabinet Y, Slides 341-342 of the Plat Records of Williamson County, Texas, also recorded in Document No. 2004035007 of the Official Public Records of Williamson County, Texas, conveyed to Liberty Hill Stonewall Partners LP, recorded in Document No. 2013103245 of the Official Public Records of Williamson County, Texas.

Tract Four:

Easement Estate created by that certain Twenty (20') foot Drainage and Water Quality Easement, as set out and granted in that certain Development Agreement, recorded under Document Number 2020003986 of the Official Public Records of Williamson County, Texas.

GRATE DRAIN TOP = 1011.12' F.L. 30"RCP (WEST) 1005.89' F.L. 24"RCP (EAST) 1005.92'

SURVEYOR'S CERTIFICATION

 OP = 1011.12'
 To: Liberty Hill Development Group, LLC, a North Carolina limited liability company, RS Stonewall

 L. 30"RCP (WEST) 1005.89'
 To: Liberty Hill Development Group, LLC, a North Carolina limited liability company, RS Stonewall

 Ranch, L.L.C., a Texas limited liability company, The Sherwin-Williams Company, an Ohio corporation, and Fidelity National Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS. ALTA Items: 1-5, 6 (a & b), 8, 9, 11(a), 13, 14, 17, and 18. The fieldwork was completed on May 25, 2023.

Date of Plat or Map: May 30, 2023

Texas Registration No. 4023

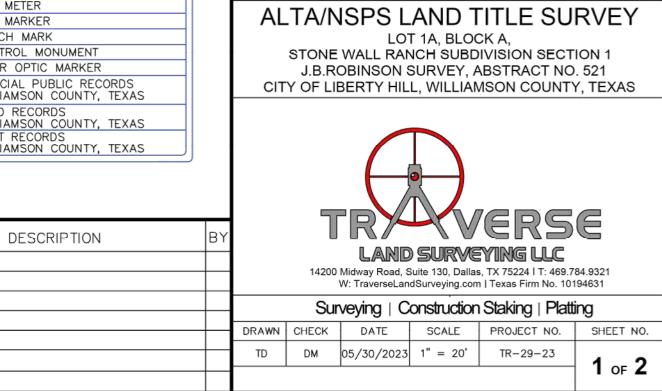
Title Commitment provided by: Fidelity National Title Insurance Company G.F. No. FTH-18-FAH23004949HC Effective Date: May 8, 2023

David F. McCullah Registered Public Land Surveyor



LEGEND					
•	BOUNDARY LINE				
	ADJOINER BOUNDARY LINE				
	EASEMENT LINE (AS NOTED)				
	WATER LINE				
	SANITARY SEWER LINE				
	STORM DRAIN LINE (AS NOTED)				
	OVERHEAD ELECTRIC LINE				
	WOOD FENCE				
	CHAIN LINK FENCE				
	5/8" IRON ROD SET WITH A YELLOW				
	CAP STAMPED "TRAVERSE LS"				
_	FOUND IRON ROD (AS NOTED)				
_	"X" CUT FOUND				
_	"X" CUT SET				
_	WATER VAULT				
_	FIRE HYDRANT				
-	WATER VALVE				
	IRRIGATION CONTROL VALVE				
	SANITARY SEWER MAN HOLE				
_	SEWER CLEAN OUT				
	VAULT				
_	TRANSFORMER				
	ELECTRIC VAULT				
	ELECTRIC METER				
	ELECTRIC METER ELECTRIC BOX				
	CABLE VAULT				
	TELEPHONE JUNCTION BOX				
	TRAFFIC SIGNAL LIGHT				
5	TRAFFIC SIGN				
	STORM MAN HOLE				
	STORM MAN HOLE				
	LIGHT POLE				
	POWER POLE				
	GAS METER				
	GAS MARKER				
	BENCH MARK				
-	CONTROL MONUMENT				
	FIBER OPTIC MARKER				
T.					
	WILLIAMSON COUNTY, TEXAS				
	DEED RECORDS WILLIAMSON COUNTY, TEXAS				
	PLAT RECORDS WILLIAMSON COUNTY, TEXAS				

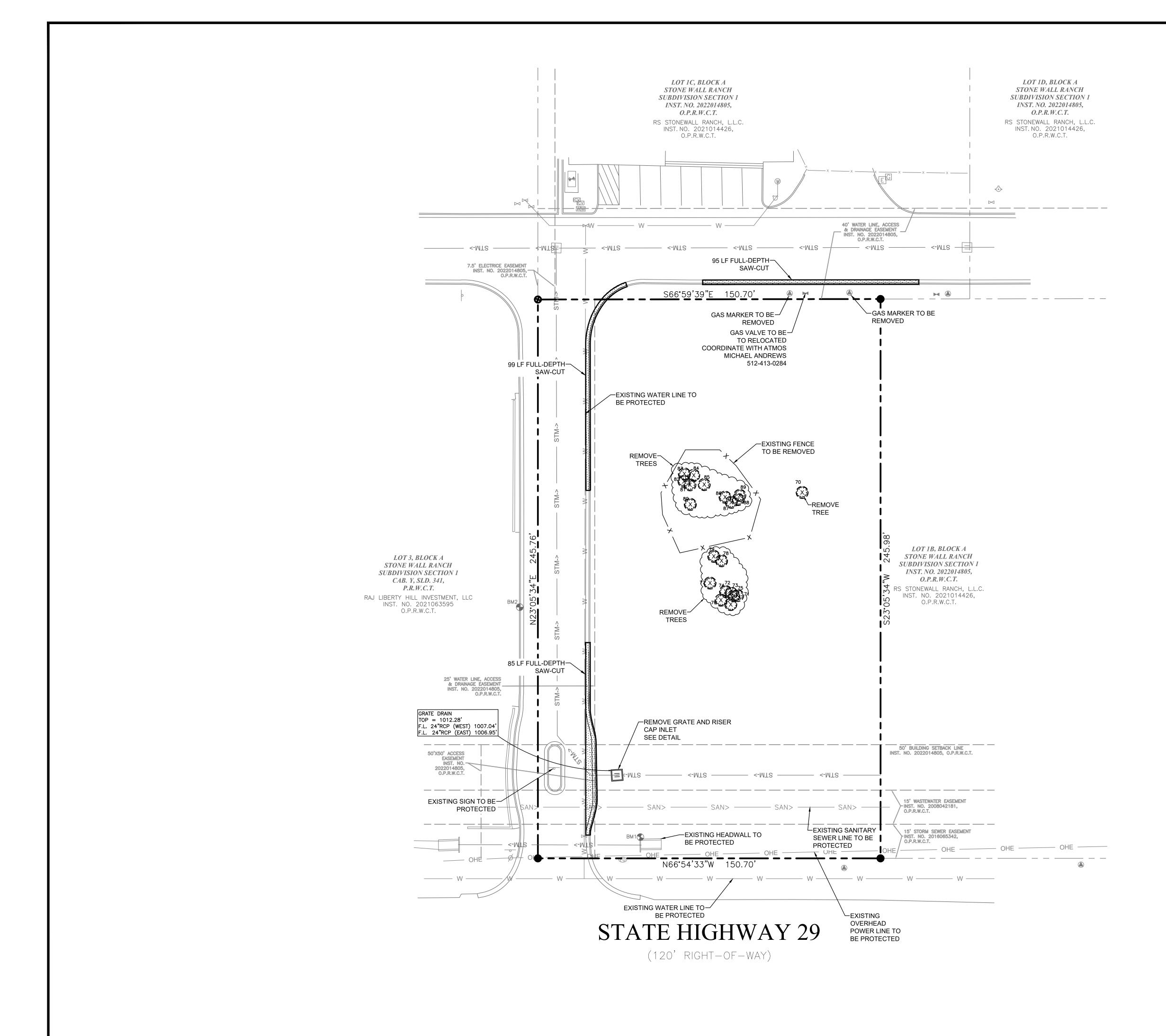
TREE TABLE						
NO.	SIZE	SPECIES				
70	16"	OAK				
71	14"	OAK				
72	7"	HACKBERRY				
73	10"	OAK				
74	16"	OAK				
75	26"	OAK				
76	13"	OAK				
77	42"	OAK				
78	13"	OAK				
79	12"	OAK				
80	24"	OAK				
81	11"	OAK				
82	11"	OAK				
83	9"	OAK				
84	11"	OAK				
85	9"	OAK				
86	9"	OAK				
87	10"	OAK				
88	11"	HACKBERRY				
89	9"	OAK				

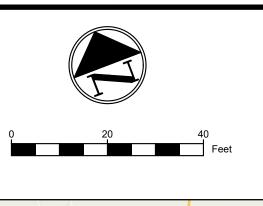


	SHERWI WILLIAN					
TX PE FIRM #11525				T: 469.331.85661F: 469.213.71451E: info@triangle-engr.com	W: triangle-engl.com O: 1782 W. McDermott Drive, TX 75013	Planning Civil Engineering Construction Management
ВҮ	КР	КР				
DESCRIPTION	1ST SUBMITTAL	2ST SUBMITTAL				
DATE	07-03-23	07-13-23				
NO.	-	2				
The second secon	KAR	9 	OF (A S 753 753 753 753 753 753 753 753 753	54 SEP ET	ATE	**
	SURVEY		SHERWIN WILLIAMS	12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS
	DA1 7/13 P.E KF	/23 =.	F	DE)JE 7-2 SIG JZ	3

N S

SHEET #







VICINITY MAP

DEMOLITION GENERAL NOTES

1. ANY DEMOLITION IS TO BE PERFORMED IN STRICT CONFORMANCE WITH ALL APPLICABLE CITY, COUNTY AND STATE, AND/OR GOVERNING BODY'S STANDARDS.

2. EROSION AND SEDIMENT CONTROL MEASUREMENTS SHALL BE MAINTAINED AT ALL TIMES DURING DEMOLITION.

3. THE PURPOSE OF THIS DRAWING IS TO CONVEY THE OVERALL SCOPE OF WORK AND IT IS NOT INTENDED TO COVER ALL DETAILS OR SPECIFICATIONS REQUIRED TO COMPLY WITH GENERALLY ACCEPTED DEMOLITION PRACTICES. CONTRACTOR SHALL THOROUGHLY GET FAMILIARIZED WITH THE SITE, SCOPE OF WORK, AND ALL EXISTING CONDITIONS AT THE JOB SITE PRIOR TO BIDDING AND COMMENCING THE WORK. THE DEMOLITION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, OR PROCEDURES USED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND IS LIABLE FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THE PROJECT.

4. THE DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF KNOWN SITE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY. THERE MAY BE OTHER SITE FEATURES, UTILITIES, STRUCTURES, AND MISCELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND THAT ARE WITHIN THE LIMITS OF WORK THAT MAY NEED TO BE REMOVED FOR THE PROPOSED PROJECT THAT ARE NOT SHOWN HEREON. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY, ENGINEER AND/OR OWNER PRIOR TO REMOVING ITEMS NOT SHOWN ON THE PLANS.

5. THE CONTRACTOR SHALL CONTACT RESPECTIVE UTILITY COMPANIES PRIOR TO DEMOLITION TO COORDINATE DISCONNECTION AND REMOVAL OF EXISTING UTILITIES WITHIN THE AREA OF WORK.

6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE WHETHER THESE UTILITIES ARE SHOWN ON THE PLAN OR NOT.

7. UPON DISCOVERY OF ANY UNDERGROUND TANKS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE. NO REMOVAL OF TANKS SHALL OCCUR UNTIL AUTHORIZED BY OWNER.

8. BUILDING AND APPURTENANCES DESIGNATED FOR DEMOLITION SHALL NOT BE DISTURBED BY THE CONTRACTOR UNTIL HE HAS BEEN FURNISHED WITH NOTICE TO PROCEED BY THE OWNER. AS SOON AS SUCH NOTICE HAS BEEN GIVEN, THE CONTRACTOR SHALL PERFORM THE DEMOLITION, UNDER THE DIRECTION OF THE OWNER'S REPRESENTATIVE.

9. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL UNSUITABLE MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE, AND FEDERAL LAWS AND ORDINANCES.

10. AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, THE FINAL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT. CONTRACTOR TO PREVENT WATER FROM DRAINING ONTO ADJACENT PROPERTIES.

11. EXISTING TREES TO REMAIN SHOULD BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

DEMOLITION LEGEND

{ X }

SAWCUT LINE

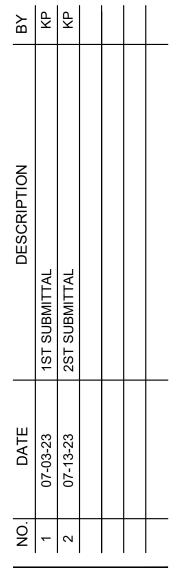
TREES TO BE REMOVED

EXISTING LEGEND

	BOUNDARY LINE	M WV	WATER VALVE
	ADJOINER BOUNDARY LINE	TJB	TRAFFIC SIGNAL BOX
	EASEMENT LINE (AS NOTED)	<u> </u>	GAS SIGN MARKER
——W——	WATER LINE	W	WATER METER
SAN>	SANITARY SEWER LINE	EP	ELECTRIC PEDESTAL
STM->	STORM DRAIN LINE (AS NOTED)	T	TELEPHONE MANHOLE
OHE	OVERHEAD ELECTRIC LINE	D	STORM MAN HOLE
—— G ——	GAS LINE	ФLР	LIGHT POLE
—U/F—	UNDERGROUND FIBER OPTIC LINE	ØPP	POWER POLE
<u> </u>	SIGN	•	BENCH MARK
0	SET IRON ROD (AS NOTED)	(CM)	CONTROL MONUMENT
	FOUND IRON ROD (AS NOTED)	Oco	SANITARY SEWER CLEANOUT
\otimes	"X" CUT FOUND	0.P.R.B.C.T.	OFFICIAL PUBLIC RECORDS
\otimes	"X" CUT SET		BOWIE COUNTY, TEXAS
-&- FH (\$)	FIRE HYDRANT SANITARY SEWER MAN HOLE	D.R.B.C.T.	DEED RECORDS BOWIE COUNTY, TEXAS
0		\triangleright	UNDERGROUND UTILITIES (SUE

SHERWIN WILLIAMS

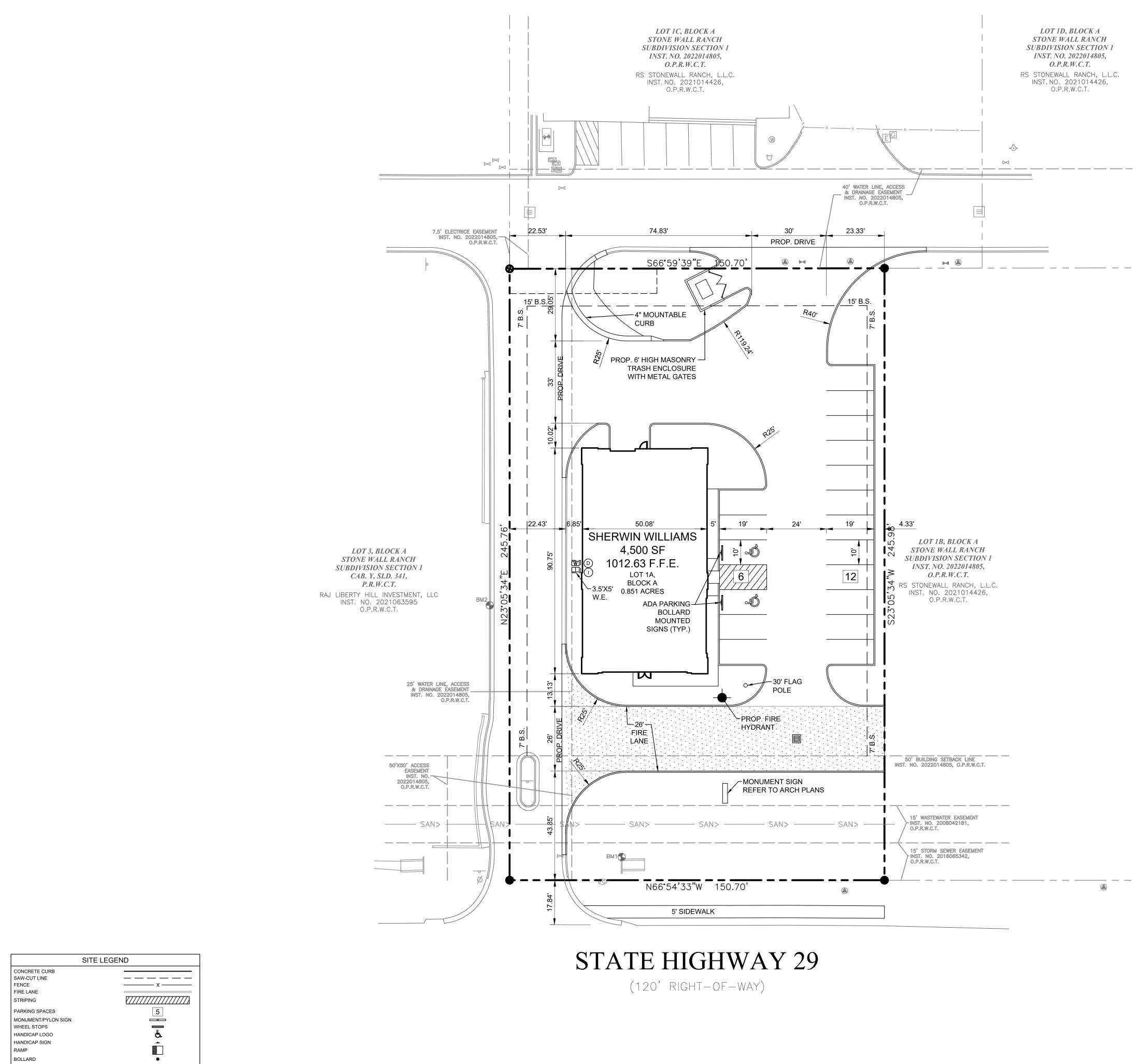




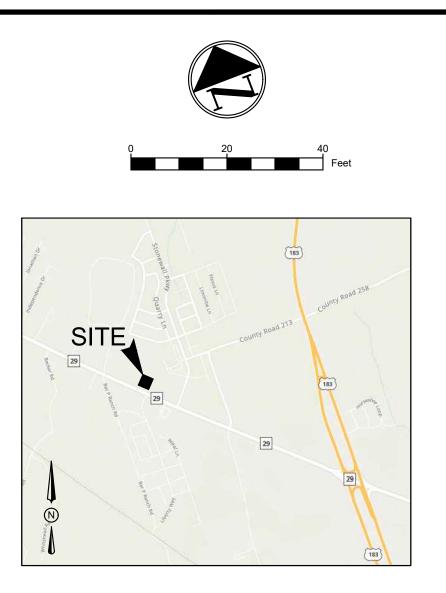


DEMOLITION PLAN			12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS	
DATE		F	PRO	JEC	т	
07/13/23			047-23			
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SHEET #						

C-2.0



	SITE LEGEND
CONCRETE CURB	
SAW-CUT LINE	
FENCE	X
FIRE LANE	
STRIPING	
PARKING SPACES	5
MONUMENT/PYLON SIGN	
WHEEL STOPS	—
HANDICAP LOGO	Ġ.
HANDICAP SIGN	▲
RAMP	
BOLLARD	•
TRAFFIC ARROW	→
FIRE HYDRANT	_ _
DUMPSTER	
LIGHT POLE	œ n



VICINITY MAP N.T.S.

SITE GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE CITY OR LOCAL JURISDICTION STANDARDS.

2. THE LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS IS TAKEN FROM AS-BUILTS, UTILITY PLANS OR SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND UTILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND UTILITIES. IF EXISTING UNDERGROUND UTILITIES ARE DAMAGED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRING THE UTILITY.

3. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS WITH UTILITIES.

4. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U. S. DEPARTMENT OF LABOR, OSHA, CONSTRUCTION SAFETY AND HEALTH REGULATIONS AND ANY AMENDMENTS THERETO.

5. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, DRAINAGE DITCHES, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS.

6. ANY CHANGES NEEDED AFTER CONSTRUCTION PLANS HAVE BEEN RELEASED, SHALL BE APPROVED BY THE CITY ENGINEER. THESE CHANGES MUST BE RECEIVED IN WRITING.

7. THE CONTRACTOR SHALL PROVIDE "RED LINED" MARKED PRINTS TO THE ENGINEER PRIOR TO FINAL INSPECTION INDICATING ALL CONSTRUCTION WHICH DEVIATED FROM THE PLANS OR WAS CONSTRUCTED IN ADDITION TO THAT INDICATED ON THE PLANS.

8. ALL CURB RADIUS TO BE 10' OR 2' UNLESS OTHERWISE NOTED ON THE SITE PLAN.

9. FIRE LANE SHALL BE CONSTRUCTED OF CONCRETE OR ASPHALT ABLE TO WITHSTAND AN IMPOSED LOAD OF 75,000 LBS.

10. THERE SHALL BE NO OVERHEAD OBSTRUCTIONS OF LESS THAN 13'6" OVER THE FIRE LANE.

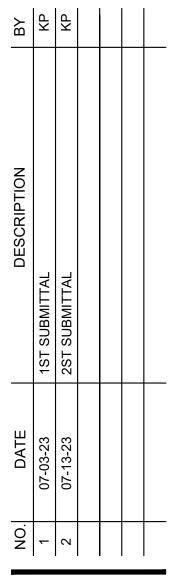
11. FIRE LANE SHALL BE MARKED "FIRE LANE - TOW-AWAY ZONE."

COMMERCIAL SITE DATA SUMMARY TABLE					
GROSS SITE ACREAGE:	0.851 ACRES OR 37,069 S.F.				
EXISTING ZONING:	(C3) GENERAL COMMERCIAL				
PROPOSED ZONING:	(C3) GENERAL CON	IMERCIAL			
BUILDING AREA:	4,500 S.F.				
NUMBER OF STORIES:	1				
BUILDING HEIGHT:	26'				
PARKING REQUIRED:	18 PARKING SPACES				
1 PER 250 FT. GFA					
REGULAR PARKING PROVIDED:	16 PARKING SPACES				
HANDICAP PARKING REQUIRED:	1 SPACE (1 VAN ACCESSIBLE)				
HANDICAP PARKING PROVIDED:	2 SPACE (1 VAN ACCESSIBLE)				
TOTAL PARKING PROVIDED:	18 PARKING SPACES				
IMPERVIOUS COVERAGE:	20,900 S.F. OR 56.3	8%			
PERVIOUS/LANDSCAPE AREA:	16,169 S.F. OR 43.6	2%			
ZONING REQUIREMENTS GC	REQUIRED PROVIDED				
FRONT YARD SETBACK	25'	25'			
SIDE YARD SETBACK	7'	7'			
REAR YARD SETBACK	15'	15'			
MAXIMUM IMPERVIOUS COVER	85%	57%			

WATER METER & SANITARY SEWER SCHEDULE						
ID TYPE SIZE NO.				SAN. SEW.		
D	DOM.	3/4"	1	4"		
	IRR.	3/4"	1	N/A		

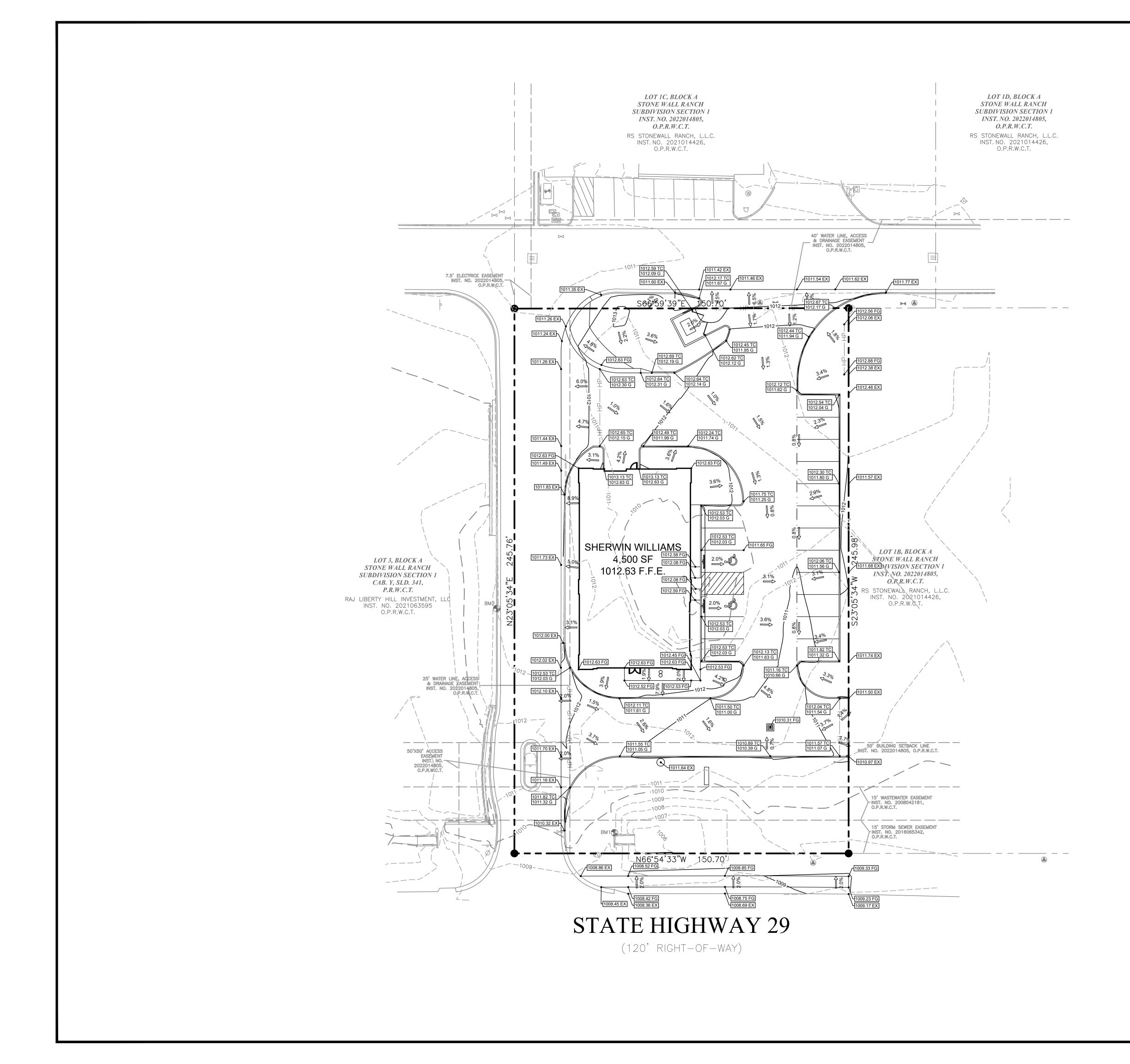


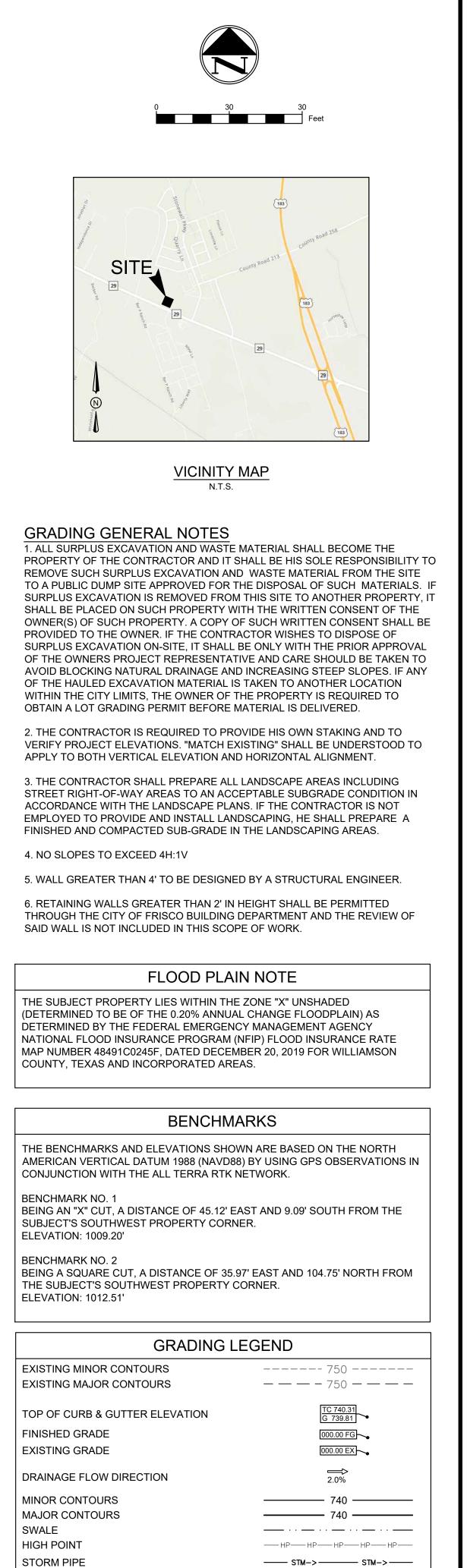






SITE PLAN	SHERWIN WILLIAMS		12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS
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CURB INLET

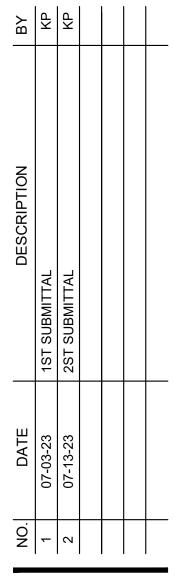
RIP RAP

STORM MANHOLE

STORM CLEANOUT RETAINING WALL





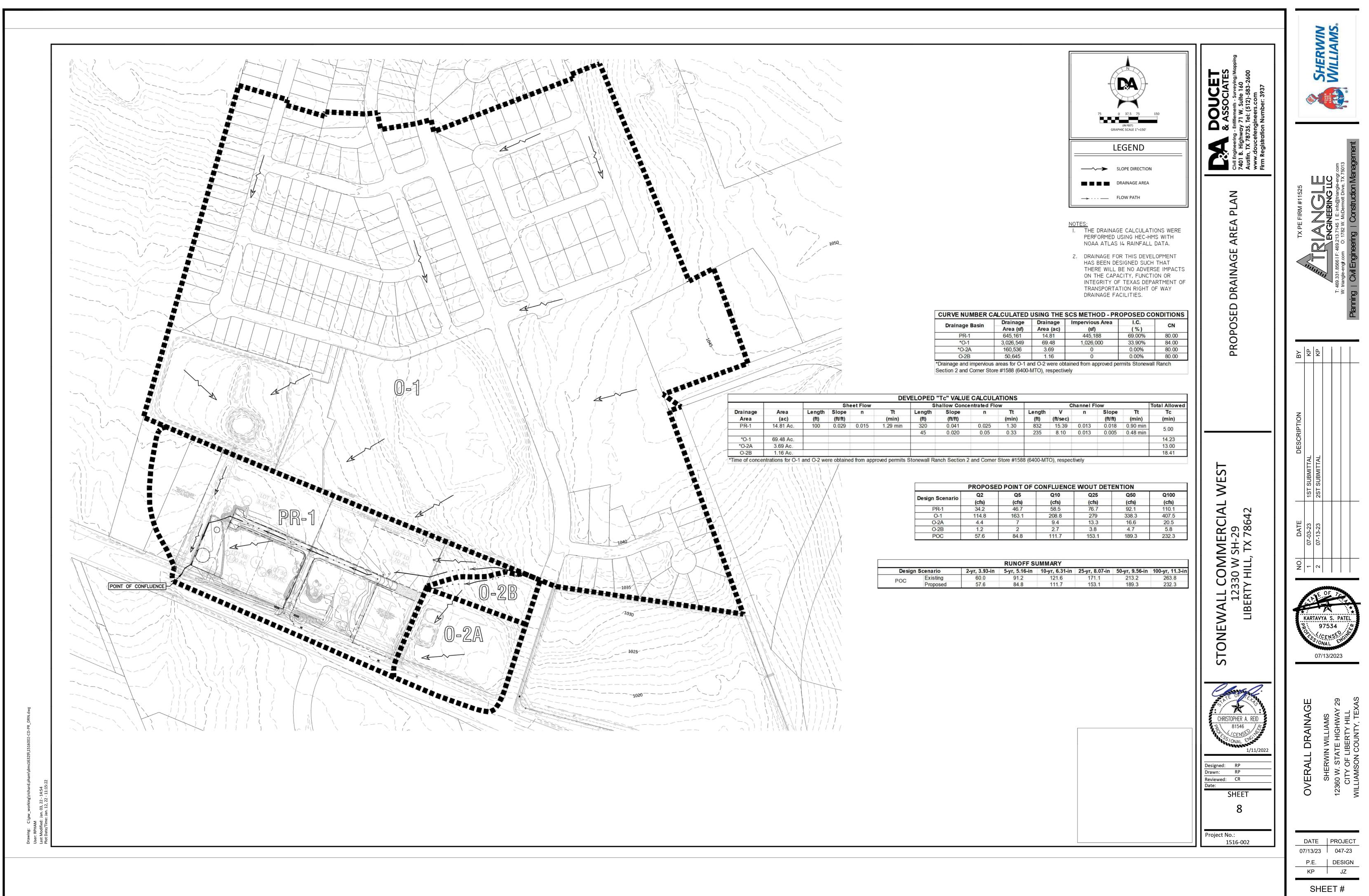




GRADING PLAN	SHERWIN WILLIAMS		12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS			
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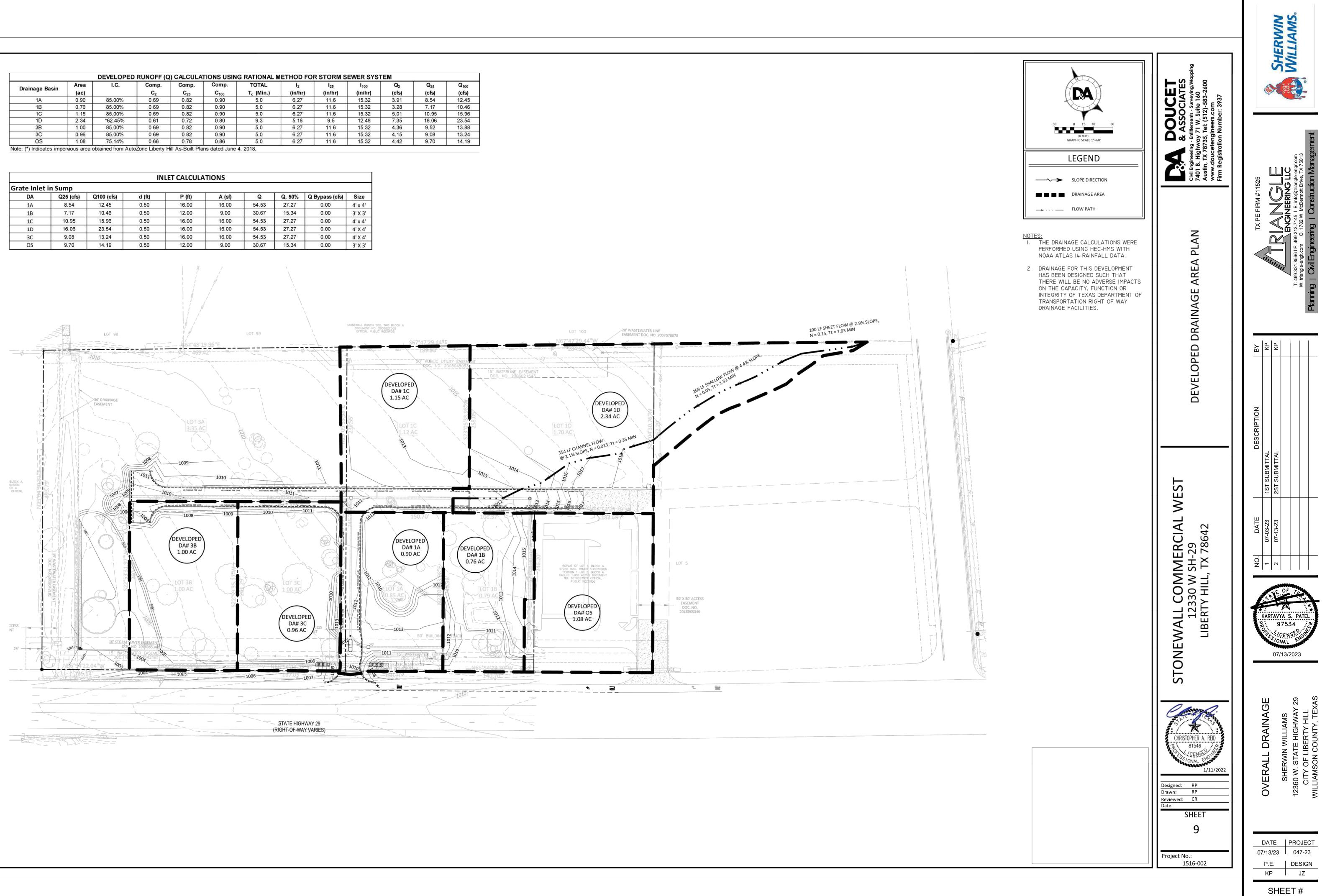
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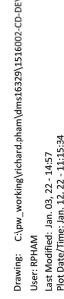


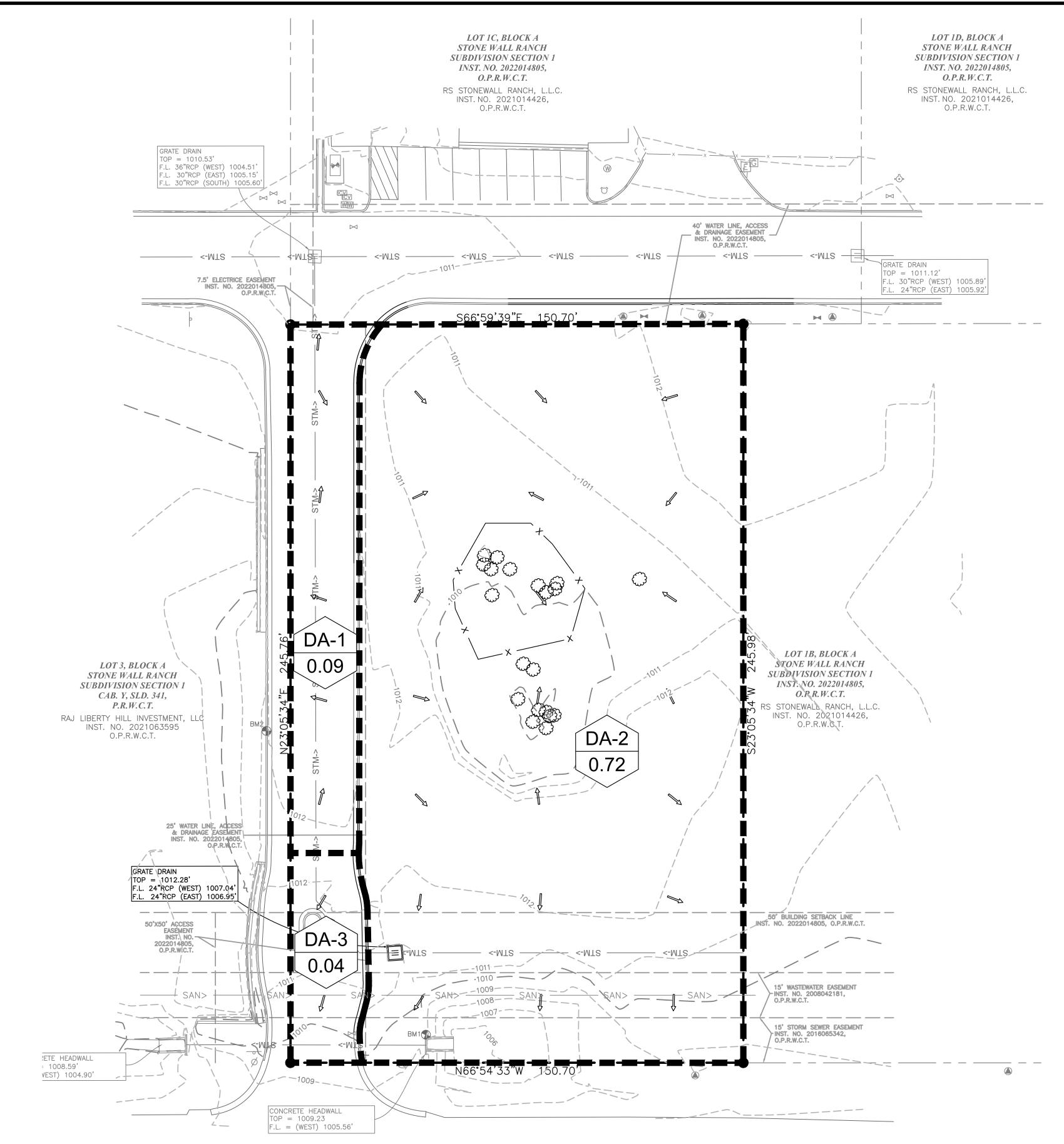
C-5.0

Drainage Basin	Area	I.C.	Comp.	Comp.	Comp.	TOTAL	i ₂	i ₂₅	i ₁₀₀	Q ₂	Q ₂₅	Q ₁₀₀
	(ac)		C ₂	C ₂₅	C ₁₀₀	T _c (Min.)	(in/hr)	(in/hr)	(in/hr)	(cfs)	(cfs)	(cfs)
1A	0.90	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	3.91	8.54	12.4
1B	0.76	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	3.28	7.17	10.4
1C	1.15	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	5.01	10.95	15.9
1D	2.34	*62.45%	0.61	0.72	0.80	9.3	5.16	9.5	12.48	7.35	16.06	23.5
3B	1.00	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	4.36	9.52	13.8
3C	0.96	85.00%	0.69	0.82	0.90	5.0	6.27	11.6	15.32	4.15	9.08	13.2
OS	1.08	75.14%	0.66	0.78	0.86	5.0	6.27	11.6	15.32	4.42	9.70	14.1

INLET CALCULATIONS									
Grate Inlet in Sump									
DA	Q25 (cfs)	Q100 (cfs)	d (ft)	P (ft)	A (sf)	Q	Q, 50%	Q Bypass (cfs)	Size
1A	8.54	12.45	0.50	16.00	16.00	54.53	27.27	0.00	4' x 4'
1B	7.17	10.46	0.50	12.00	9.00	30.67	15.34	0.00	3' X 3'
1C	10.95	15.96	0.50	16.00	16.00	54.53	27.27	0.00	4' x 4'
1D	16.06	23.54	0.50	16.00	16.00	54.53	27.27	0.00	4' X 4
3C	9.08	13.24	0.50	16.00	16.00	54.53	27.27	0.00	4' X 4
OS	9.70	14.19	0.50	12.00	9.00	30.67	15.34	0.00	3' X 3'



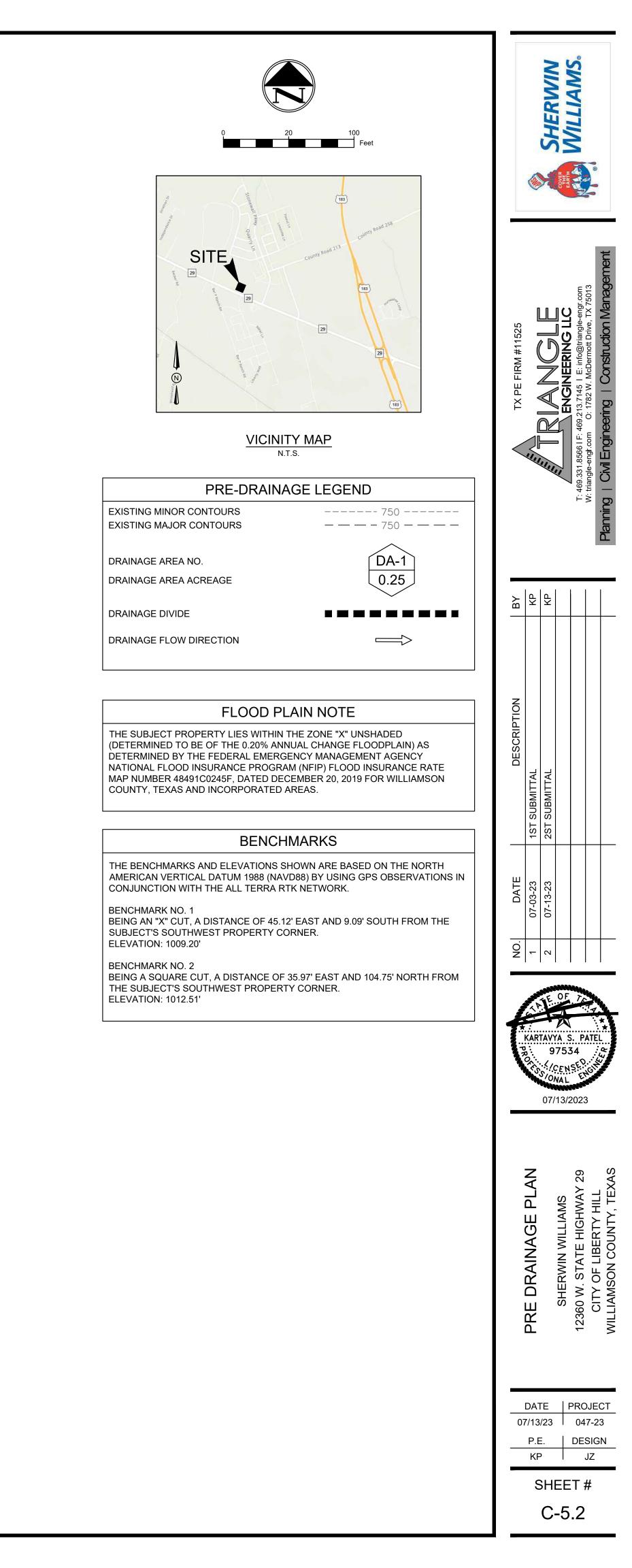


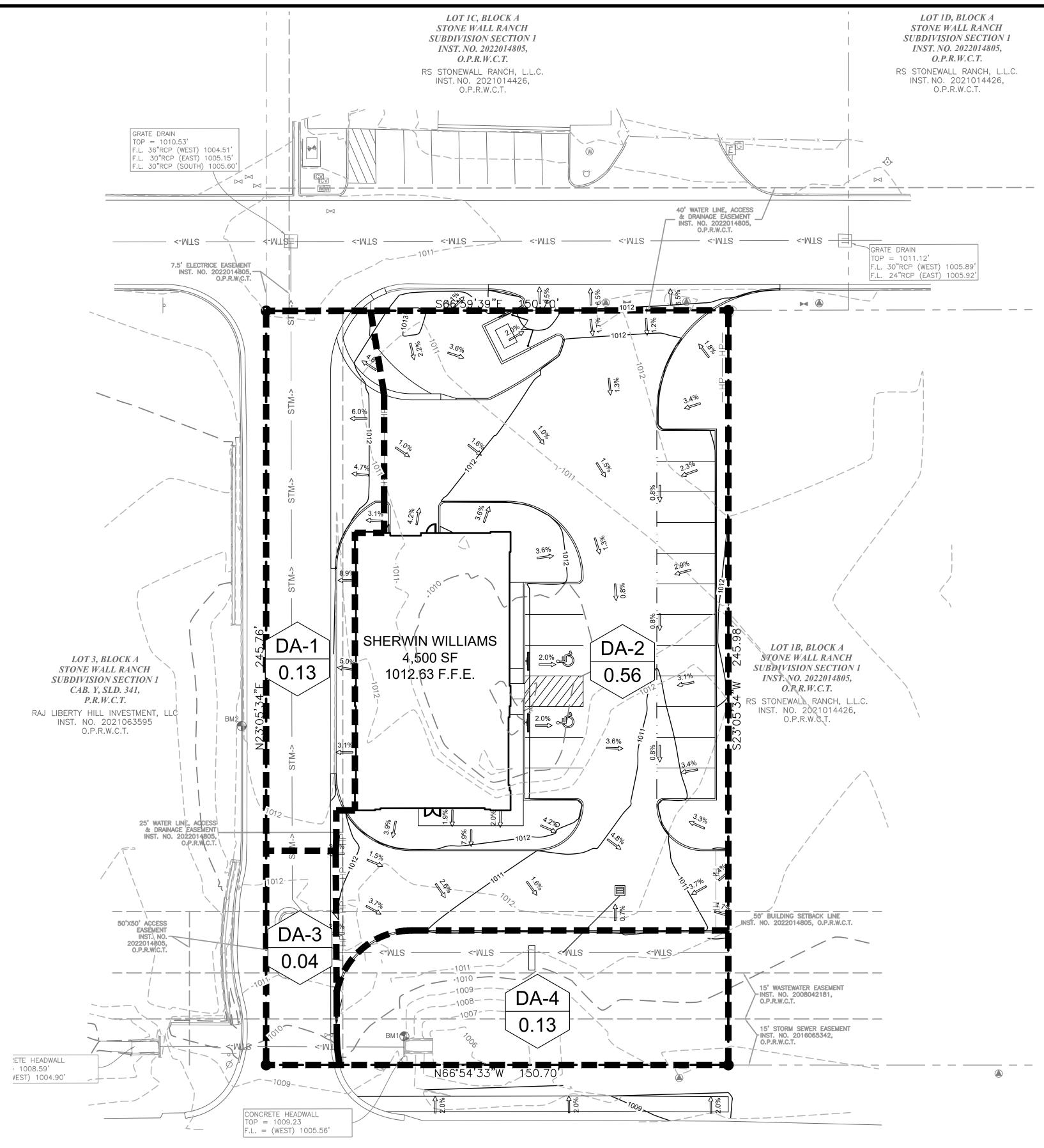


	PRE-DEVELOPED DRAINAGE CALCULATIONS											
DRAINAGE AREA	с	Tc (min)	l-2 (in/hr)	l-10 (in/hr)	l-25 (in/hr)	l-100 (in/hr)	A (acres)	Q-2 (cfs)	Q-10 (cfs)	Q-25 (cfs)	Q-100 (cfs)	REMARKS
DA-1	0.90	10	4.35	7.41	8.65	10.89	0.09	0.35	0.60	0.70	0.88	TO OFF-SITE GRATE INLET
DA-2	0.30	10	4.35	7.41	8.65	10.89	0.72	0.94	1.60	1.87	2.35	TO ON-SITE DITCH
DA-3	0.90	10	4.35	7.41	8.65	10.89	0.04	0.16	0.27	0.31	0.39	TO OFF-SITE DITCH
			TOTAL				0.85	1.45	2.47	2.88	3.63	

STATE HIGHWAY 29

(120' RIGHT-OF-WAY)

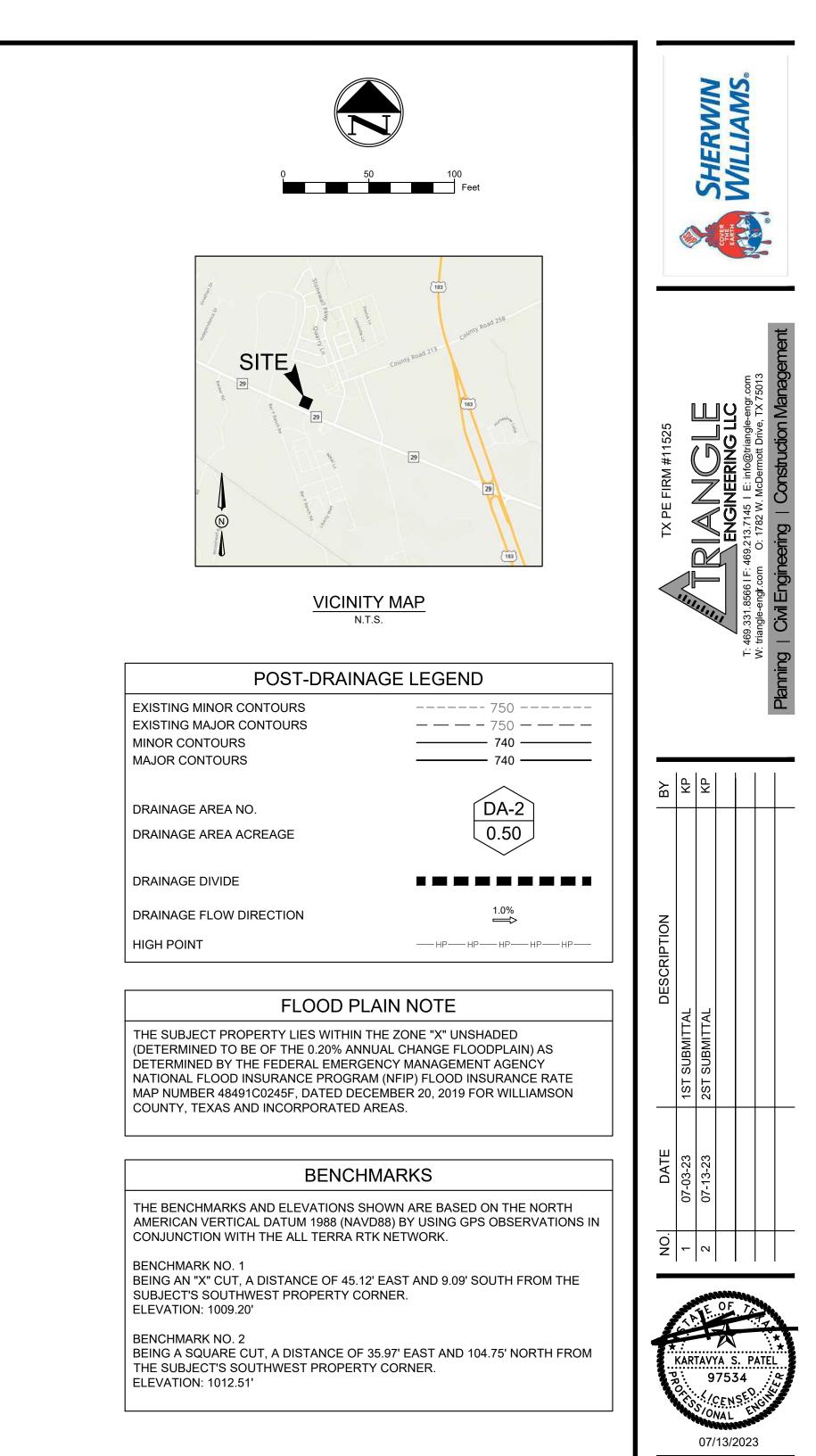




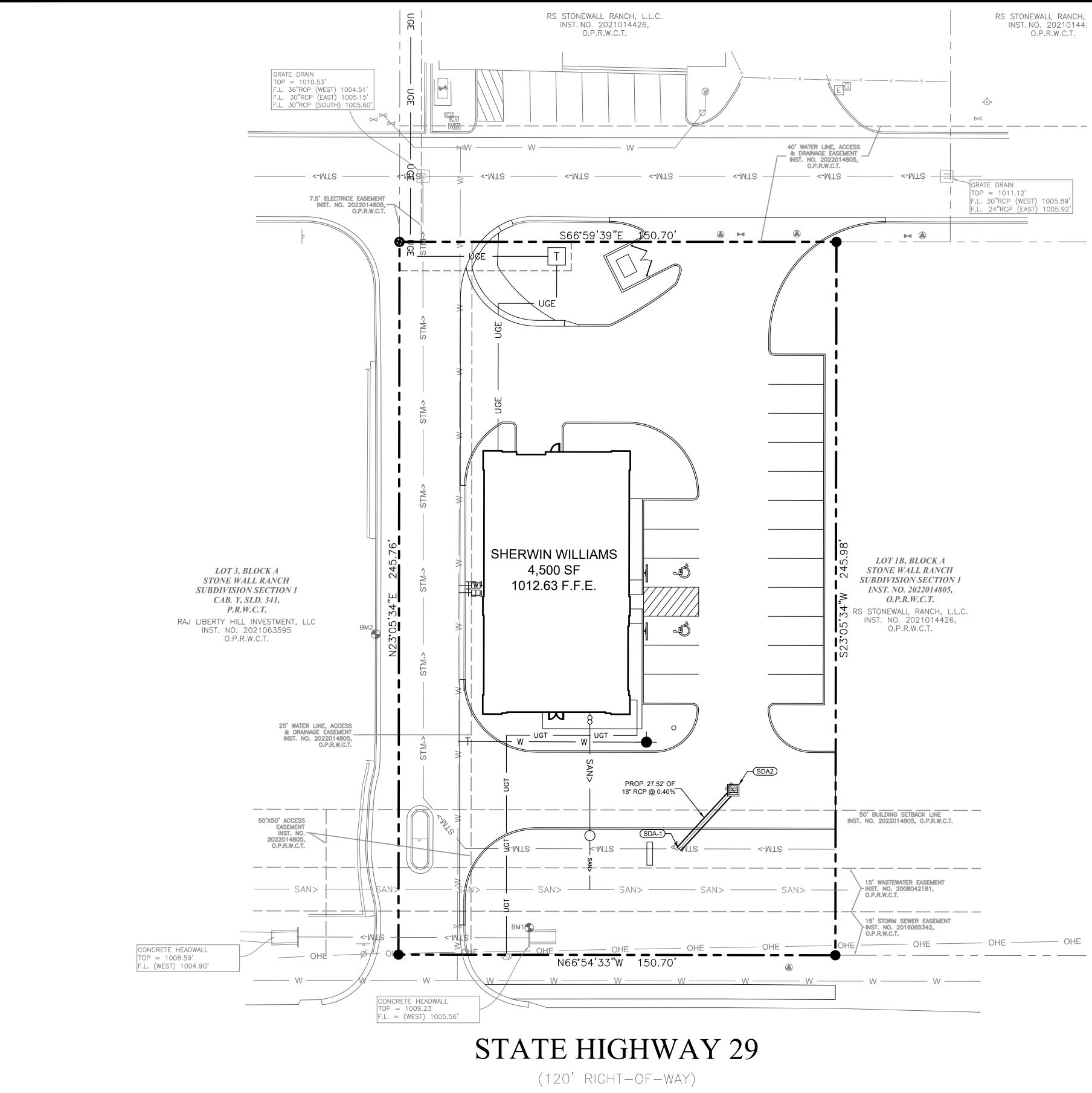
POST-DEVELOPED DRAINAGE CALCULATIONS												
DRAINAGE AREACTc (min)I-2I-10 (in/hr)I-25 (in/hr)I-100 (in/hr)A (in/hr)Q-2 (cfs)Q-10 (cfs)Q-25 (cfs)Q-100 (cfs)Q-100 (cfs)REMARKS											REMARKS	
DA-1	0.90	10	4.35	7.41	8.65	10.89	0.13	0.51	0.87	1.01	1.27	TO OFF-SITE GRATE INLET
DA-2	0.90	10	4.35	7.41	8.65	10.89	0.56	2.19	3.73	4.36	5.49	TO ON-SITE GRATE IN LET
DA-3	0.90	10	4.35	7.41	8.65	10.89	0.04	0.16	0.27	0.31	0.39	TO OFF-SITE DITCH
DA-4	0.90	10	4.35	7.41	8.65	10.89	0.13	0.51	0.87	1.01	1.27	TO ON-SITE DITCH
TOTAL 0.86 3.37 5.74									6.70	8.43		
Based on the City of Round Rock Drainage Policy												

STATE HIGHWAY 29

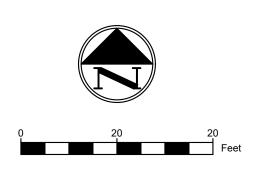
(120' RIGHT-OF-WAY)



POST DRAINAGE PLAN	SHERWIN WILLIAMS 12360 W. STATE HIGHWAY 29 CITY OF LIBERTY HILL WILLIAMSON COUNTY, TEXAS
DATE 07/13/23	PROJECT 047-23
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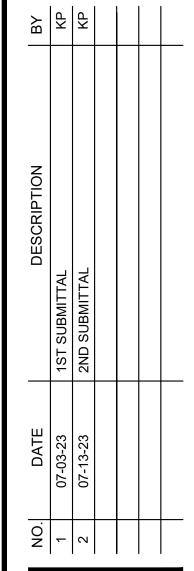


Line No.	Line ID	Line Length	Known Q	Flow Rate	Capac Full	Vel Ave	Line Size	Line Slope	Invert Dn	Invert Up	HGL Dn	HGL Up	Gnd/Rim El Dn	Gnd/Rim El Up	J-Loss Coeff	Sf Ave	Vel Hd Up	
		(ft)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		(%)	(ft)	
1	SDA1 TO SDA2	27.522	5.49	5.49	6.64	3.11	18	0.40	1007.20	1007.31	1009.20	1009.28	1009.00	1010.30	1.25	0.273	0.15	

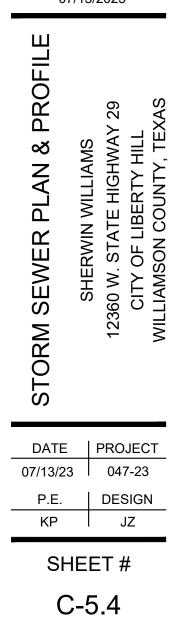


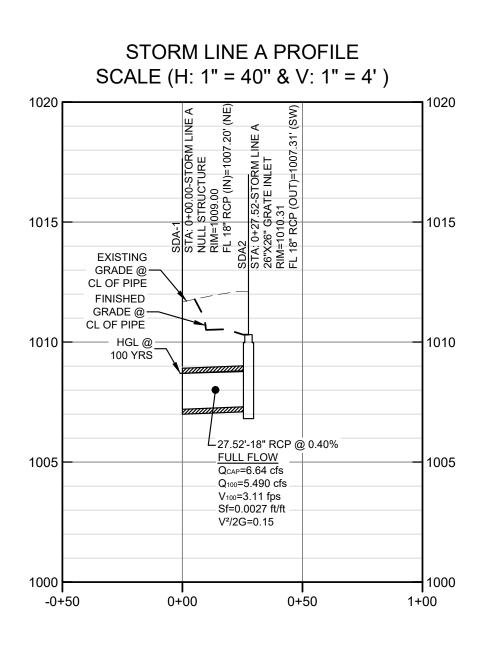












UTILITY LE	GEND
UNDERGROUND TELEPHONE LINE UNDERGROUND ELECTRIC LINE GAS LINE SANITARY SEWER LINE WATER MAIN DOMESTIC WATER LINE STORM LINE	UGT UGT UGT UGE UGE UGE G G G SAN SAN SAN W W W D D D
STORM SEWER MANHOLE STORM SEWER CLEANOUT SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT SANITARY SEWER DOUBLE CLEANOUT SANITARY SEWER SAMPLE PORT WATER METER IRRIGATION METER GAS METER	©∞© ∘8 ∞ ≅⊟⊡-
FIRE HYDRANT TRANSFORMER LIGHT POLE POWER POLE	

FLOOD PLAIN NOTE

THE SUBJECT PROPERTY LIES WITHIN THE ZONE "X" UNSHADED (DETERMINED TO BE OF THE 0.20% ANNUAL CHANGE FLOODPLAIN) AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP NUMBER 48491C0245F, DATED DECEMBER 20, 2019 FOR WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS.

BENCHMARKS

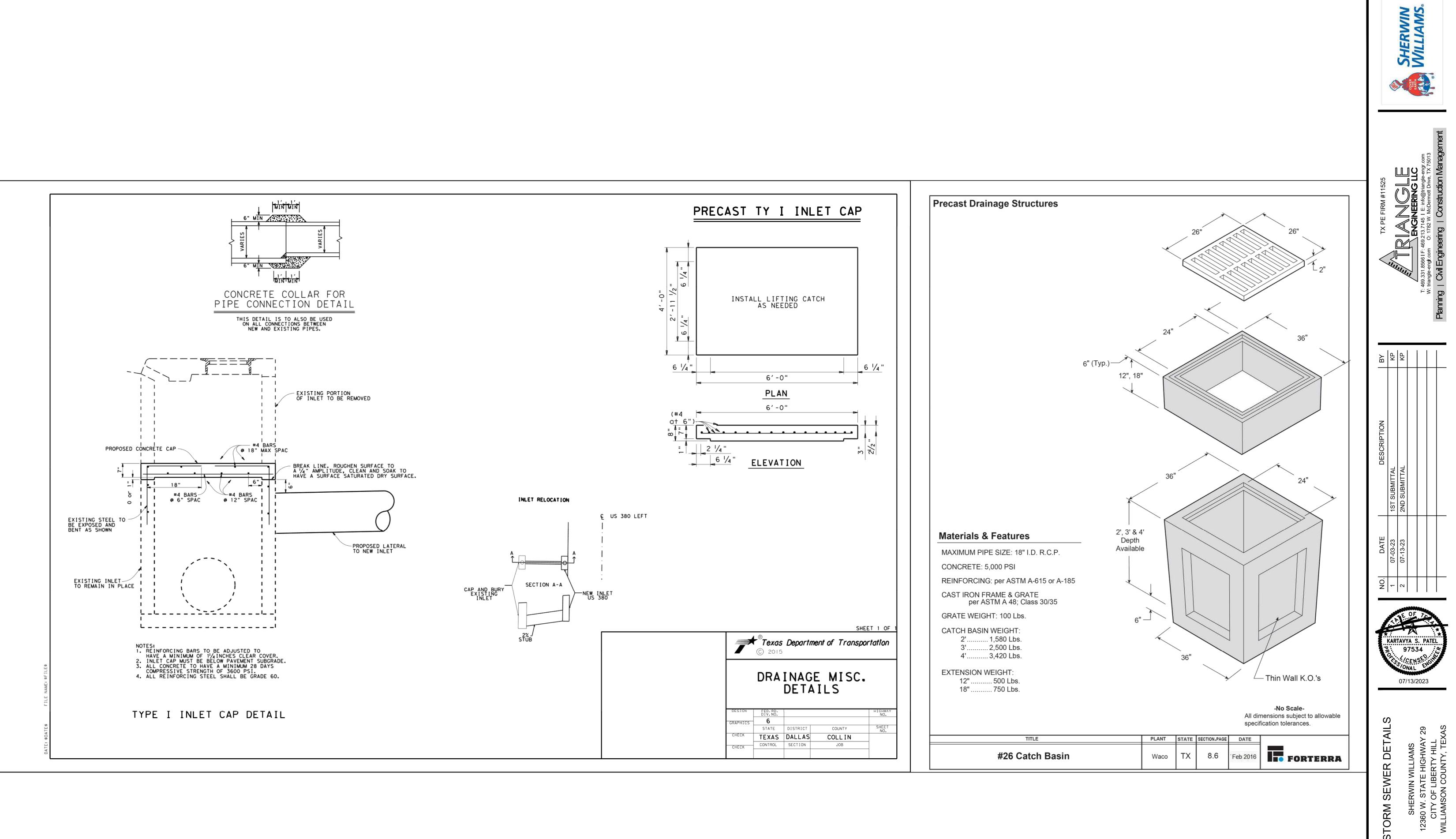
THE BENCHMARKS AND ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) BY USING GPS OBSERVATIONS IN CONJUNCTION WITH THE ALL TERRA RTK NETWORK.

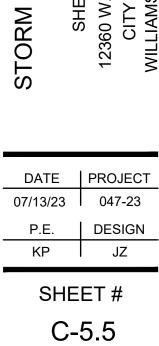
BENCHMARK NO. 1

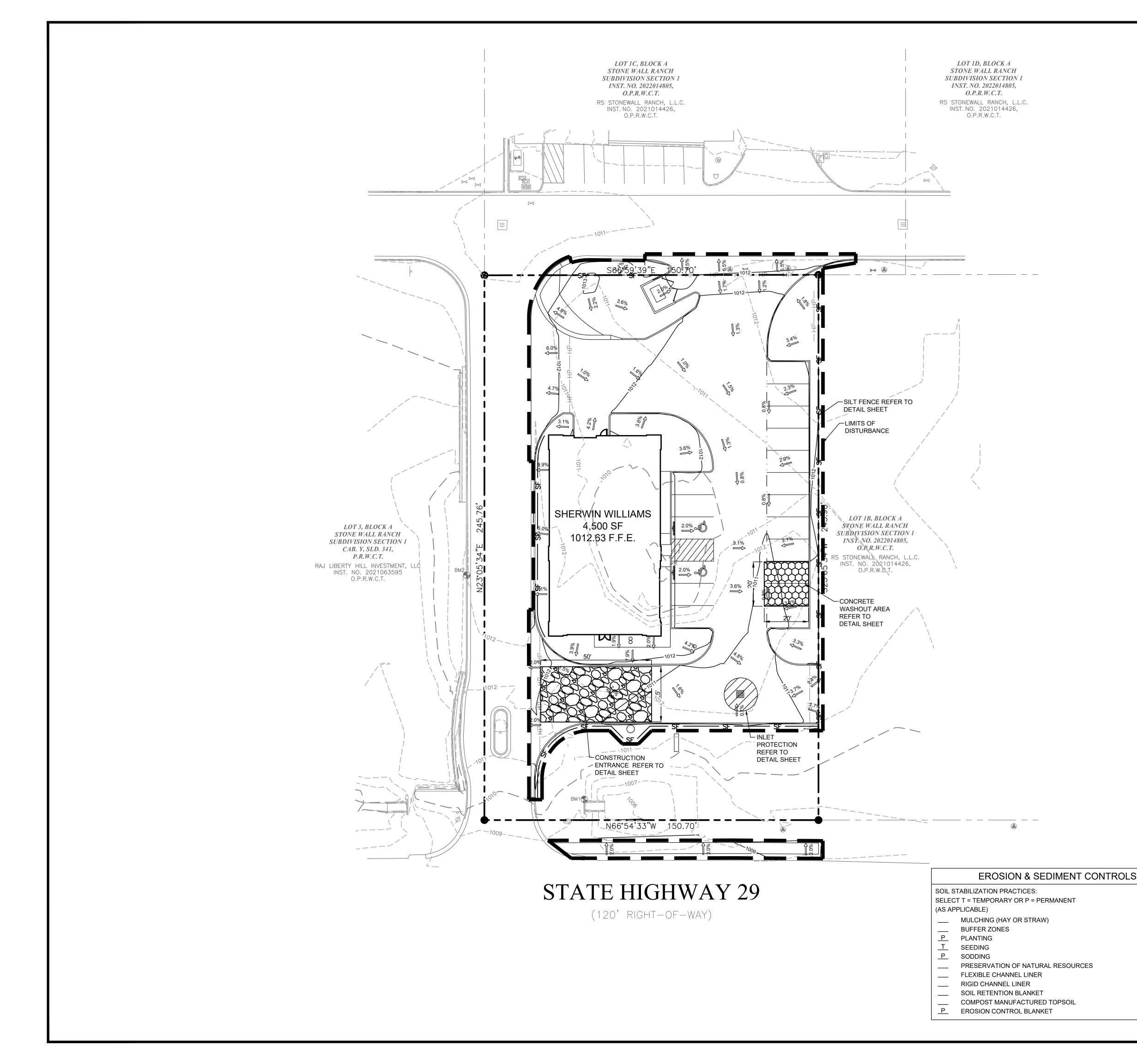
BEING AN "X" CUT, A DISTANCE OF 45.12' EAST AND 9.09' SOUTH FROM THE SUBJECT'S SOUTHWEST PROPERTY CORNER. ELEVATION: 1009.20'

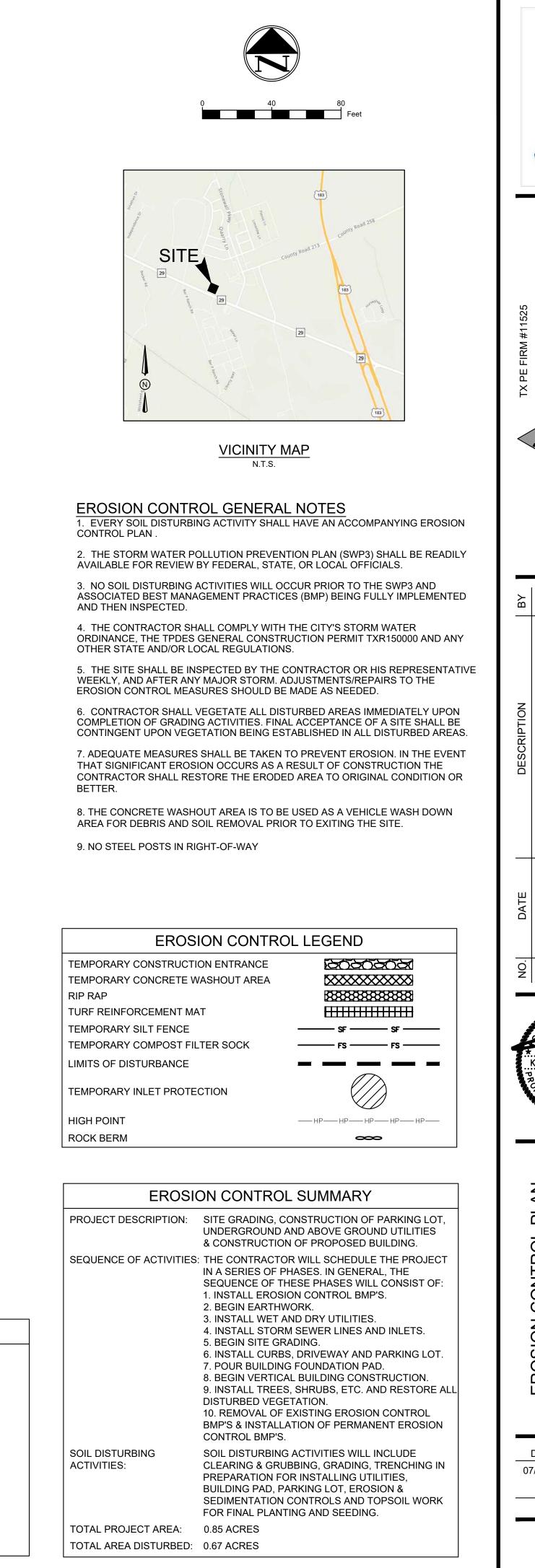
BENCHMARK NO. 2

BEING A SQUARE CUT, A DISTANCE OF 35.97' EAST AND 104.75' NORTH FROM THE SUBJECT'S SOUTHWEST PROPERTY CORNER. ELEVATION: 1012.51'



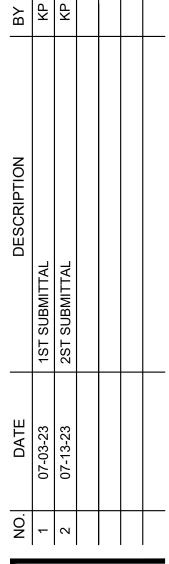






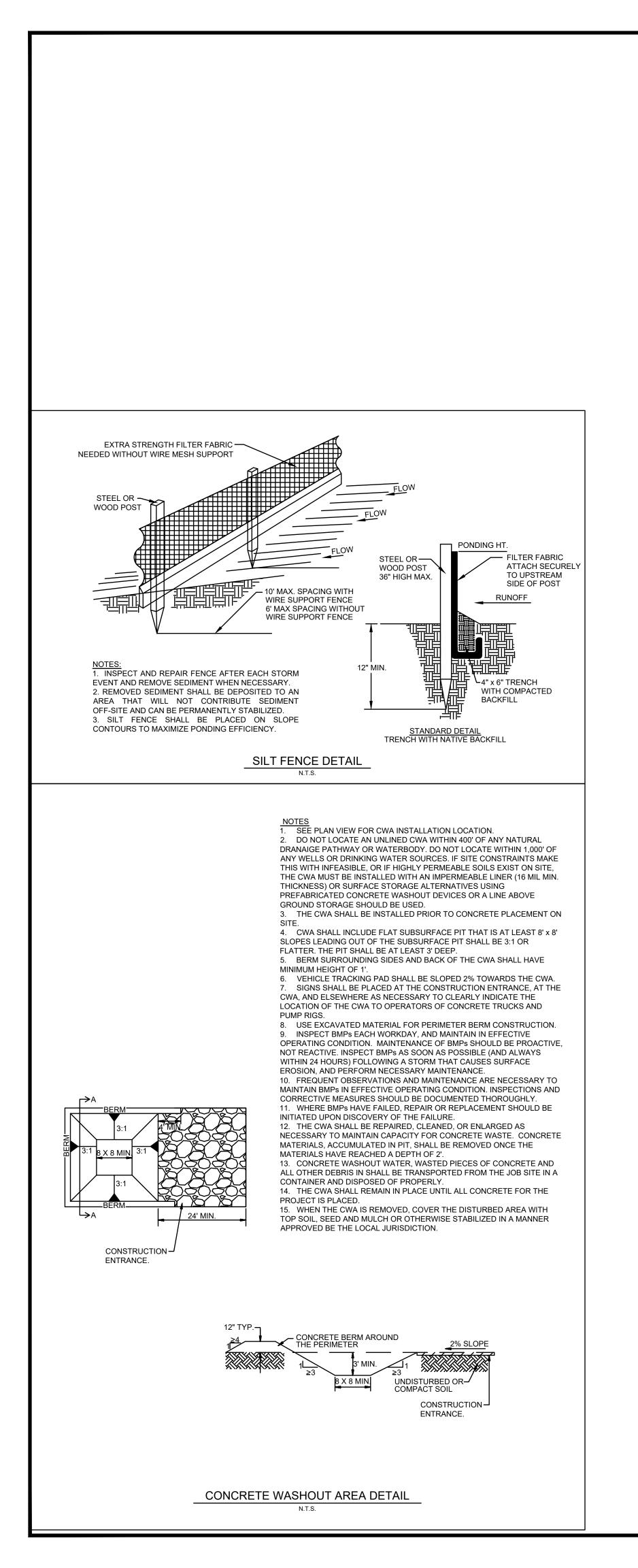
SHERWIN WILLIAMS.

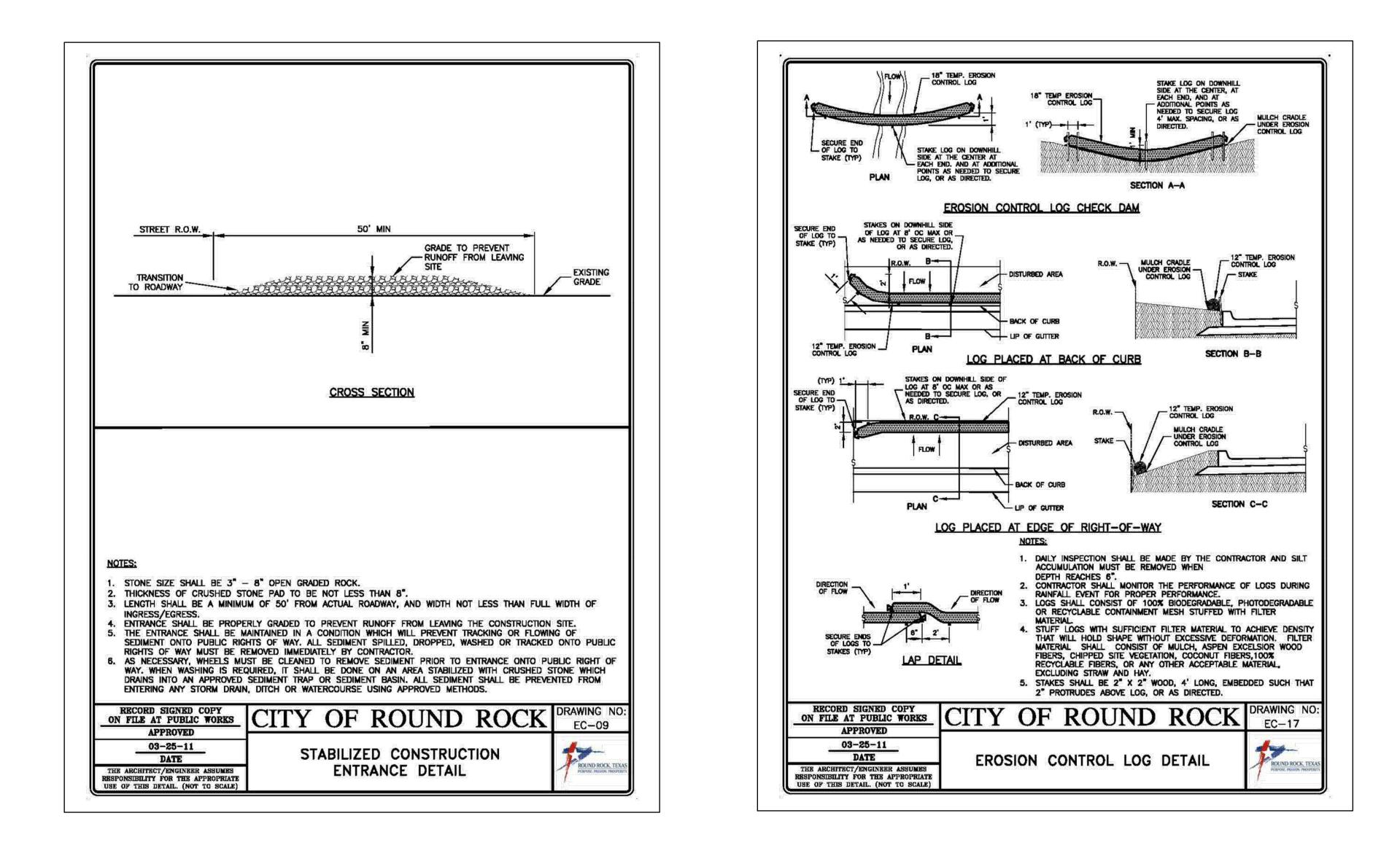


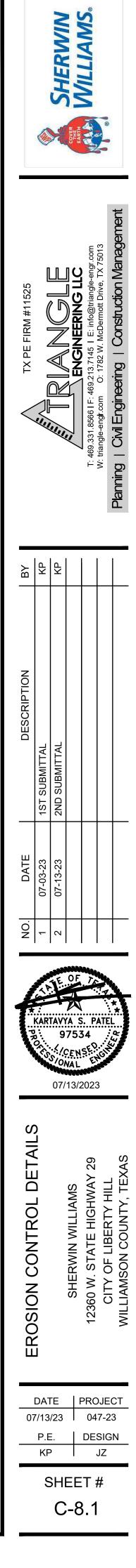




EROSION CONTROL PLAN	SHERWIN WILLIAMS	12360 W. STATE HIGHWAY 29	CITY OF LIBERTY HILL	WILLIAMSON COUNTY, TEXAS
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ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR, AND RETROFIT PLAN (NOT APPLICABLE)



ATTACHMENT O

PILOT – SCALE TESTING PLAN (NOT APPLICABLE)



ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION (NOT APPLICABLE)



Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This Temporary Stormwater Section is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Jack Zanger

Date: 07-24-23

Signature of Customer/Agent:

Regulated Entity Name: Sherwin Williams

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

- Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- Fuels and hazardous substances will not be stored on the site.
- 2. Attachment A Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. Attachment B Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. Attachment C Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>South Fork San Gabriel River</u>

Temporary Best Management Practices (TBMPs)

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

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

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

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

- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
 - 🖂 N/A
- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

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

Administrative Information

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

ATTACHMENT A: SPILL RESPONSE ACTIONS

Spill Control Practices-

- **1.** Materials shall be tightly sealed in containers that are clearly labeled and shall be neatly and securely stacked.
- **2.** Materials and equipment necessary for spill cleanups shall be kept in the material storage area on site.
- 3. All spills shall be cleaned up immediately after discovery.
- **4.** The spill area shall be kept well ventilated, and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- **5.** Spills of toxic or hazardous materials shall be reported to the appropriate local, state, and federal government agencies as soon as possible, regardless of the size.
- **6.** Contaminated materials shall be disposed of according to local, state, and federal requirement.
- 7. One person shall be selected to be the spill prevention and cleanup coordinator.



Report Spills or Discharges in Texas to 1-800-832-8224

The Who, What, and Where of Spill Reporting

A responsible party must report a spill of a reportable quantity (RQ) as soon as possible but not later than **24 hours after the discovery of the spill or discharge** to the Texas Spill Reporting Hotline at 1-800-832-8224 or the appropriate regional office of the TCEQ during normal office hours.

The RQ depends on the substance released and where it was released. To determine whether you must report and under what rule, use the <u>Reportable Quantities</u> <u>Table</u>. <www.tceq.texas.gov/response/spills/ spill_rq.html>

Depending on location and type of spill, reporting could be to another state agency such as the Texas General Land Office or the Railroad Commission of Texas.

Summary of What to Do After a Spill

Answer these questions:

- What type of material spilled?
- What is the amount of material spilled?
 - Oil, petroleum product, and used oil will be in gallons.
 - Hazardous substances and industrial solid waste will be in pounds.
- Was the spill onto land or into waters of the state?
- Is it a reportable quantity?
- If so, what is the appropriate agency to report the spill to?

Mitigate, contain, and remediate all spills and discharges.

What to Include in the Initial Report

Contact information:

- The name, address and telephone number of the person making the telephone report.
- If different from above, the names, addresses, and telephone numbers of the responsible person and the contact person at the location of the discharge or spill.

What and where:

- The date, time, and location of the spill or discharge.
- A specific description or identification of the oil, petroleum product, hazardous substances or other substances discharged or spilled.
- An estimate of the quantity discharged or spilled and the duration of the incident.
- The source of the discharge or spill.
- The name of the surface water or a description of the waters in the state affected or threatened by it.
- A description of the extent of actual or potential water pollution or harmful impacts to the environment and an identification of any environmentally sensitive areas or natural resources at risk.
- Any known or anticipated health risks.
- A description of any actions that have been taken, are being taken, and will be taken to contain and respond to the discharge or spill.

Response and actions:

- The identity of any governmental representatives, including local authorities or third parties, responding to it.
- Any other information that may be significant to the response action.

For additional information on initial notification requirements, refer to Title 30, Texas Administrative Code Section 327.3.

Examples of Reportable Quantities

Kind of Spill	Where Discharged	Reportable Quantity	Agency
Petroleum product, used oil (e.g. hydraulic fluid)	Onto land, or onto land from a non-exempt PST facility	25 gallons	TCEQ
Petroleum product, used oil	*Onto land, from an exempt PST facility	210 gallons (five barrels)	TCEQ
Any oil	Into coastal waters	As required by the Texas General Land Office	Texas General Land Office (1-800-832-8224)
Industrial solid waste (e.g. lime slurry)	Into waters in the state	100 pounds	TCEQ
Hazardous substance (e.g. 2,4-D herbicide)	Onto land	see Table 302.4 in 40 CFR §302.4	TCEQ

* Petroleum storage tank (PST) exempted facilities are electric service facilities including generation, transmission, distribution equipment and transformers; petrochemical plants; petroleum refineries; bulk loading facilities; and pipelines that are exempted from the Aboveground Storage Tank (AST) program under 30 TAC, Subsection 334.123(a)(9) and (b), and 30 TAC, Subsection 334.124(a)(4).

Additional Resources

See the <u>Spills and Discharges webpage</u> <www.tceq.texas.gov/response/spills> | <u>30 TAC Chapter 327 - Spill Prevention and Control</u> <www.tceq.texas.gov/goto/view-30tac> | <u>EPA's Consolidated List of Chemicals</u> [PDF] <www.epa.gov/sites/production/files/2015-03/ documents/list_of_lists.pdf> | EPCRA Section 302 Extremely Hazardous Substances | CERCLA Hazardous Substances | EPCRA Section 313 Toxic Chemicals | CAA 112(r) Regulated Chemicals for Accidental Release Prevention

SHERWIN WILLIAMS SITE SPECIFIC SPILL RESPONSE ACTIONS

EMERGENCY CONTACTS WILL BE UPDATED ONCE A STORE MANAGER IS CHOOSEN



HAZARDOUS MATERIAL & WASTE SPILL RESPONSE

Make your selections below:

For this store, there are _____ fully stocked spill kits, located:

- □ Tinting/shaking area
- □ Centrally located in warehouse
- □ Spray Source
- □ Product Service Room (PSR)
- Hazardous Waste area
- Each store vehicle
- □ Other_____
- □ Other_____
- Other_____





HAZARDOUS MATERIAL & WASTE SPILL RESPONSE

The spill of a hazardous material may involve the release of hazardous chemicals into the environment and may expose employees or customers to these chemicals. The spill response procedures outlined in this section are procedures in which all employees should be trained. The procedures for cleanup may be followed by trained employees if a spill occurs in the store or during a delivery of material by store employees.

The priority actions to be taken when a hazardous liquid spill occurs is to protect personal health; protect against ignition of fire; protect against the liquid contaminating the environment by containing the spread of the liquid; and notification and reporting to company management personnel. At this point there is sufficient time to clean up the spill.

Each state has different spill reporting requirements, contact PSG Safety & Environmental Department to determine what your reporting requirements are.

SPILL PREPAREDNESS

- 1. Every store must have a fully stocked spill containment and clean-up kit which is readily available and stored in a designated area centrally located in the warehouse.
- 2. A spill kit must also be maintained in the store vehicle(s).
- 3. Every store must have the Emergency Telephone Numbers list which all employees have access. The Emergency Response Coordinator is identified on the emergency telephone list.
- 4. Every employee who responds to a hazardous liquid spill must be trained in hazardous spill containment and clean-up procedures.
- 5. Protect the personal health of all employees and customers. Avoid inhaling fumes and skin contact with spilled material.

12 STEPS FOR HANDLING SPILLS

- 1. **ASSESS** the situation.
 - a. Determine if the spill can be responded to by trained store employees. If the spill is beyond the capabilities of store personnel, affects human health or the environment, or is too dangerous to perform cleanup, then the spill must be responded to by the Emergency Response Contractor.
 - b. GET HELP to clean up the spill and notify the store manager.
 - c. For spill of flammable or combustible liquids, turn off and remove all potential SOURCES OF IGNITION. Shut off powered industrial lifts and shut off or remove electrical equipment.
- 2. **ISOLATE** the spill area from customers and other employees.
- 3. **BRING** to the scene a SPILL KIT, EMPTY CONTAINER, AND A FIRE EXTINGUISHER. The spill kit container may be used as the container.
- 4. Put on **PPE**: gloves and eye protection. Protective clothing may be donned (coveralls, shoe covers, etc.)
- 5. **STOP LEAKS**. Turn the damaged or open end of the container up or if possible, put the leaking container into a larger container. As required, turn off valves or close openings.
- 6. **CONTAIN** the spill. Use absorbent socks and pads to contain the spill and to prevent leakage into drain systems, or onto exposed soils. Place the absorbent socks or other barriers between the spill material and potential receptacles.
- 7. **RECLAIM** as much of the spilled material as possible. Use a scoop, squeegee or straight edge to recover the spilled material and to place into containers.



- 8. When as much free liquid as possible has been recovered, **FINISH CLEANUP** using absorbent socks and loose sorbent material, as needed. Remember waste liquids should be segregated from waste solids.
- 9. Place recovered contaminated loose sorbent, non-reusable absorbent socks, and other contaminated solid material into a separate container for subsequent **DISPOSAL**.
- 10. **REPORT** the spill. Contact City/District Manager. If any amount of spill goes into a drain or onto soil, contact PSG Safety & Environmental immediately.
- 11. Complete a Loss, Offense, and Incident (LOI) Report.
- 12. **RESTOCK** spill kit(s).

SPILL RESPONSE RULES

- 1. Responses to releases of hazardous materials and waste where there is a potential for employee over-exposure to uncontrollable safety and health hazards should be performed by the Emergency Response Contractor.
- 2. Store employees may only respond to releases of **known** hazardous materials. If the hazardous material or its hazards are not known or cannot be determined, then the Emergency Response Contractor should be contacted.
- 3. Incidental releases of hazardous materials where materials may be readily absorbed, neutralized, or otherwise controlled at the time of the release may be responded to by trained employees working in the store at the time of discovery of the release. If additional help is required, then the Emergency Response Contractor should be contacted.
- 4. Nuisance spills, minor spills, and spills of non-hazardous materials which do not require immediate attention due to minimal employee or customer exposure to safety or health hazards are not considered emergencies and may be responded to by employees.
- 5. The Emergency Response Contractor must be contacted to respond to a release if the spill poses an uncontrollable emergency under the following conditions:
 - It may cause high levels of exposure to toxic substances,
 - It is life or injury threatening, or it poses conditions which are immediately dangerous to life or health,
 - It poses a fire or explosion level,
 - It presents an oxygen deficient condition, typically in confined spaces,
 - It has entered surface waters, sewer or drainage systems,
 - It poses significant endangerment to public health or welfare, or
 - It poses significant endangerment to the wildlife or the environment.
- 6. Employees should not assist the Emergency Response Contractor in handling the emergency cleanup.
- 7. Assess the potential safety and health hazards of the spilled material. Consult the materials Safety Data Sheet (SDS) to determine the risks associated with the material.
- 8. <u>Potential safety and health hazards should both be assessed</u> for flammable, combustible and corrosive materials to determine if the spill is too large or dangerous to be responded to by store employees.
 - a. <u>Safety hazards to be assessed include</u>: the size of the spill area; the quantity of material spilled; slippery, uneven and unstable surface conditions; unstable overhead conditions; confined spaces; and the number of employees trained to respond which are available for the response.
 - b. <u>Health hazards to be assessed</u> include potential over-exposure to the spilled material by inhalation, ingestion, absorption, or skin contact.
- 9. Special hazards associated with flammable and combustible materials include the potential for explosion, ignition, and fire. Explosions and fires may occur during response actions when moving containers or introducing an ignition source. Sources of ignition typically found include



powered industrial lifts, powered tools, electrical and lighting systems, static electricity, heat and high temperatures, and smoking.

10. Remember, a spill of flammable liquids emits flammable vapors into the air. If the spill area is not well ventilated or may come into contact with an ignition source, a fire or explosion is possible. The greater the surface area of a spilled flammable liquid, then the greater the volume of vapors emitting into the air and the greater the risk for fire and explosion.

SPILL DECONTAMINATION

Employees and spill response equipment also require, to some extent, some type of cleanup, wash down, or decontamination.

Employee hygiene

- 1. Employees should remove their personal protective equipment for subsequent cleaning.
- 2. Employees should wash with soap and water, or as recommended by the spilled material's SDS, at a minimum their hands and any areas of their skin, which may have come into contact with the spilled material.
- 3. If contact with the spilled material has caused a medical emergency, refer to the Medical Emergency section below.

Equipment cleanup

- 1. Equipment used to assist in the spill response, and which has come into contact with the spilled material, should be wiped clean with as much of the spilled material being removed.
- 2. The equipment should be allowed to air-dry in a well-ventilated area prior to returning the equipment to storage.

Personal protective equipment (PPE)

- 1. Personal protective equipment which came into contact with the spilled material should be cleaned or disposed as hazardous waste.
- 2. All PPE should be inspected after its use to determine if the equipment is in a good operable and sanitary condition.
- 3. If PPE is no longer usable then it must be discarded. PPE must be restocked immediately.

SPILL WASTE DISPOSAL

- 1. Spilled material that is recovered and can be reused or still has some value is not considered a waste, and therefore should be separated from waste material.
- 2. If the liquid can be used, it should be moved to the appropriate raw material area and labeled as to the contents and its associated hazards.
- 3. Waste liquids should be segregated from waste solids.
- 4. Recovered liquids from a hazardous material spill which are considered to be of no further value or use must be considered hazardous waste and labeled as such.
- 5. <u>If there is a release of hazardous waste, all recovered liquids and solids are considered to be hazardous waste</u>.

SPILL CLEAN-UP FOLLOW-UP

- 1. Return the spill kit to the permanent storage location.
- 2. Determine and order supplies necessary to restock the spill kit.
- 3. The Emergency Coordinator will take the following actions:



- Determine immediately why the spill occurred and hold a brief safety meeting within the week to discuss how it might have been prevented and details of the clean-up procedures.
- A report may be required to be submitted to the state (contact PSG Safety & Environmental for assistance).
- 4. Complete a Loss Offense and Incident Report and distribute the report as required. Include in the report the identity of the spilled material, the quantity spilled and recovered, and a description how the spill occurred.

Contact PSG Safety & Environmental for assistance with spills, incident reporting, and disposal.



EMERGENCY TELEPHONE NUMBERS



	\$	ST	ORE INFORMATION	
Emergency: 911	Store Name & Number:			
Jamaica: 119 (Police) 110 (Fire & EMS)	Store Address:			
Suicide & Crisis Lifeline: 988	Store Phone Number:			
24 HOUR S-W EMER	GENCY NUMBER:	87	77-SWC-EMER or 87	7-792-3637
24 HOUR MEDICAL (NO	N-EMERGENCY):	A	xiom: 877-502-9466	
EMERGENCY SPI	LL CLEAN-UP:		iller Environmental lean Harbors: 800-6	
FIRE Department			Non-Emergency No.	
POLICE Department			Non-Emergency No.	
Poison Control Center	800-222-1222			
Alarm Company				
Local Hospital				
Local Urgent Care Center				
Store Contacts	Name		Work Phone	Cell Phone
Emergency Coordinator (Store Manager)				
Alternate Emergency Coordinator (Store Assistant Manager)				
Third Key Holder				
District Manager				
City Manager				
Division Loss Prevention Manager				
Area Human Resource Manager				
Other:				
POS / Store Computer / Telephone	Store Ops IT Help Desk	(216-566-2740	

TAG Safety Contacts		Name	Work Phone	Cell Phone
Safety (General) / Regulato	ry Visits	Nicole Stengle	216-515-7850	216-973-1495
Environmental & Hazardous	Waste	Carol Doe	216-566-1710	216-310-9121
Transportation & Shipping		Shay Roseman	216-566-2319	216-952-2603
Environmental (West Coast Floorcovering) &	Yenny Khuu	714-474-7617	
LIVESAFE		Brittany Kunisch	216-515-7745	216-586-1767
SED Safety		Brian Beck	678-942-5392	216-296-5640
SWD Safety		Chris Entrekin		972-482-7246
Workers' Compensation & L Reporting	ate Injury.		800-542-1463 email: wc@sherwin.com	
SDS/HEARS/Customer Env Information	vironmental		216-566-2902 or 216-566-3316	
SERVICES (US)		Company Name & Cor	ntact Name	Phone Number
Air Conditioning & Heating	Store Servi	ices (email: stores.services@sherv	877-471-4615	
Bathroom Supplies	Cintas Loca	al Rep:		
Drinking Water	Primo (ema	ail: key@primowater.com)	866-307-6092	
Exterminator				
Fire Protection	Cintas Fire	Services – Rebecca King (email:	239-237-4055	
First Aid Kits	Cintas Loca	al Rep:		
Floor Cleaning	EMCOR (e	mail: SherwinWilliamsINT@emcor	.net)	610-313-2950
Glass Replacement	Pleasant V	alley Corporation (email: sw@pvco	cinc.com)	877-577-0176
Hazardous Waste Pickup (1)	Clean Eart	h (email: ra_eso_swsupport@harso	co.com)	866-303-7344
Hazardous Waste Pickup (2)	Univar			800-637-7692
Landscaping				
Lighting	Store Servi	ices (email: stores.services@sherw	vin.com)	877-471-4615
Lock / Key	Bass Secu	rity (email: sherwin@bass-security	.com)	866-956-1815
Plumbing	Pleasant V	alley Corporation (email: sw@pvcc	cinc.com)	877-577-0176
Powered Industrial Trucks	Contact Div	vision Installation Manager / Real E	Estate	
Snow Removal				
Trash Collection / Recycling	Store Servi	ices (email: stores.services@sherv	vin.com)	877-471-4615
Window Cleaning	EMCOR (e	mail: SherwinWilliamsINT@emcor	.net)	610-313-2950
UTILITIES		Company Name & Cor	ntact Name	Phone Number
Electric Company				
Gas Company				
Water Company				

ATTACHMENT B: POTENTIAL SOURCES OF CONTAMINATION

Pollutant Sources-

- Potential sources of sediment to storm water runoff:
 - **1.** Clearing and grubbing operations.
 - 2. Grading and site excavation operations.
 - 3. Vehicle tracking.
 - 4. Topsoil stripping and stockpiling.
 - 5. Landscaping operations.
- Potential pollutants and sources, other than sediment, to storm water runoff:
 - **1.** Combined Staging Area small fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste storage.
 - 2. Materials Storage Area general building materials, solvents, adhesives, paving materials, paints, aggregates, trash, and so on.
 - **3.** Construction Activity paving, curb/gutter installation, concrete pouring/mortar/stucco, and building construction.
 - 4. Concrete Washout Area.

ATTACHMENT C: SEQUENCE OF MAJOR ACTIVITIES

Sequence of Construction Activity - The GC is responsible for the overall site development and building construction. Soil disturbing activities will include clearing and grubbing; installing stabilized construction exits; installing erosion and sediment controls; grading; installation of the building foundation excavation for utilities and parking lots; and installation of post-construction controls.

Estimated	Construction activity and BMP descriptions
timeline	Construction activity and bivin descriptions
of activity	
1.5 months	Erosion Control Establishment
	Install perimeter silt fences.
	Install storm drain inlet protection.
	Construct stabilized construction exit/entrance.
1 month	Site grading
	Begin site clearing and grubbing operations.
	Begin overall site grading and topsoil stripping.
	Establish topsoil stockpile.
	 Install silt fences around stockpile and cover stockpiles.
	 Disturbed areas where construction will cease for more than 14 days
	• Distributed aleas where construction will cease for more than 14 days will be stabilized with erosion controls.
	will be stabilized with elosion controls.
1 month	Infrastructure (utilities, parking lot, etc.)
	Construct staging and materials storage area.
	Install temporary sanitary facilities and dumpsters.
	 Install utilities, sanitary sewers, and water services.
	Backfill utility trench.
	 Subgrade preparation for parking lot.
	 Building Pad preparation.
2.5 months	Building Construction
	 Begin construction of building foundation and structure.
	 Install curb, gutter and sidewalk.
	 Parking lot paved, exterior building constructed.
	Remove temporary concrete washout area.
	Implement winter stabilization procedures.
1 month	Final stabilization and landscaping
	Finalize pavement activities.
	Install infiltration trench, porous pavers and tree box filters.
	Remove all temporary control BMPs and stabilize any areas disturbed
	by the removal with erosion controls.
	 Prepare final seeding and landscaping.
	 Monitor stabilized areas until final stabilization is reached.

NOTE: This site is stabilized when all soil-disturbing activities are completed and uniform perennial vegetative cover with a density of 70% of the cover for unpaved areas and areas not covered by permanent structures have been employed.

Construction Site Estimate-The following are estimates of the construction site:

Total project area:	0.85 acre
Construction site area to be disturbed:	0.49 +/-
Percentage impervious area before construction:	13.87%
Pre-Development Runoff coefficient:	0.37
Percentage impervious area after construction:	71.65%
Post-Development Runoff coefficient:	0.90

ATTACHMENT D: TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Erosion Control Plan-An Erosion Control plan is included as part of this Temporary Stormwater Section. Refer to Erosion Control plan for a detailed site map (or maps) indicating the following:

- Drainage patterns and approximate slopes anticipated after major grading activities.
- Areas where soil disturbance will occur.
- Locations of all major structural controls either planned or in place.
- Locations where stabilization practices are expected to be used.
- Locations of off-site material, waste borrow, fill or equipment storage areas.
- Surface waters (including wetlands) either adjacent or in proximity.
- Locations where storms water discharges from the site directly to a surface water body.

Stabilization Practices-A description of interim and temporary stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed portions of the site are stabilized.

a. Temporary Stabilization:

BMP Description: Hydro mulching will provide immediate protection to exposed soils where construction will cease for more than 14 days and over the winter months. Straw mulch and wood fiber will be mixed with a tackifier (amount specified per manufacturer's instructions) and applied uniformly by machine with an application rate of 90–100 pounds (2–3 bales) per 1,000 square feet or 2 tons (100–200 bales) per acre. If the tackifier does not appear effective in anchoring the mulch to the disturbed soil, crimping equipment will be used to provide additional binding to the soil. The mulch will cover 75 to 90 percent of the ground surface. In areas, where hydro mulching is inaccessible, straw mulch will be applied by hand with an application rate of 90–100 pounds (2–3 bales) per 1,000 square feet. Winter stabilization will occur between November 15 and March 15. All disturbed areas are scheduled to be stabilized well before winter; however, if any vegetated areas show signs of erosion, mulch will be applied at the same rate as described above.

Installation Schedule:	Portions of the site where construction activities will temporarily
	cease for more than 14 days will be stabilized with mulch. Winter
	stabilization will occur between November 15th and March 15.
Maintenance and	Mulched areas will be inspected weekly and after storm events to
Inspection:	check for movement of mulch or erosion. If washout, breakage, or
	erosion occurs, the surface will be repaired, and new mulch will be
	applied to the damaged area.

B. Dust Control:

BMP Description: Dust from the site will be controlled by using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate of 300 gallons per acre and minimized as necessary to prevent runoff and ponding.

Installation Schedule:	Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water will be performed no more than three times a day during the months of May-September and once per day during the months of October-April or whenever the dryness of the soil warrants it.
Maintenance and	At least one mobile unit will be always available to distribute
Inspection:	potable water to control dust on the project area. Each mobile unit

 will be equipped with a positive shutoff valve to prevent over
 watering of the disturbed area.

C. Geotextile Erosion Control Blanket:

BMP Description: Geotextile erosion control blankets will be used to provide stabilization for the slopes in the vegetated swale and sediment trap. The blanket will cover the entire area of the graded slope and bottom channel. The bottom and side slopes will be seeded and mulched before the blanket is applied. The blanket will be installed by digging a small trench on the upside of the slope, 12 inches wide by 6 inches deep, and stapling the leading edge of the blanket in the trench. The blanket will be rolled down the slope slowly to maintain soil contact and stapled in 12-inch intervals. If the blanket cannot cover the entire slope, the blankets will be overlapped (minimum of 2 inches) and stapled at the overlapped edge.

Installation Schedule:	The erosion control blankets will be installed once the vegetated
	swale and sediment trap have reached final grade.
Maintenance and	The erosion control blanket will be inspected weekly and
Inspection:	immediately after storm events to determine if cracks, tears, or
	breaches have formed in the fabric; if so, the blanket will be
	repaired or replaced immediately. Good contact with the soil must
	be maintained and erosion should not occur under the blanket.
	Any areas where the blanket is not in close contact with the ground
	will be repaired or replaced.

ATTACHMENT E

REQUEST TO TEMPORARILY SEAL A FEATURE (NOT APPLICABLE)



ATTACHMENT F: STRUCTURAL PRACTICES

Structural Control Practices-

a. Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site and around the topsoil stockpile. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced 4 to 6 feet apart and driven securely into the ground; a minimum of 18 to 20 inches deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid-section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent storm water and sediment from discharging underneath the silt fence.

Installation Schedule:	The silt fences will be installed before construction begins at the site and around topsoil stockpiles once they have been established.
Maintenance and Inspection:	Silt fences will be inspected weekly and immediately after storm events to ensure it is intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled off-site for disposal at Middletown Landfill. If accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed. The anticipated life span of the silt fence is 6 months and will likely need to be replaced after this period.

b. Storm Drain Inlet Protection

BMP Description: Existing storm drain inlets onsite and offsite (shown on Erosion Control Plan) will be protected from sediment by commercially available Inlet Protection Devise. The Storm Sewer Inlets can be protected by using Silt Fence, Wattles, gravel bag or block and gravel filters etc. Generally commercial devices, such as the catch basin inserts that are installed inside the inlet, will be used for the large traffic volumes area. The Inlet Protection devise will be removed once the construction site has been permanently stabilized.

Installation Schedule:	Inlet Protection Devise will be installed before construction activities begin on-site or offsite.
Maintenance and Inspection:	The Inlet Protection Devise will be inspected weekly and immediately after storm events. If the devise becomes clogged with sediment, it will be removed and cleaned or replaced per the manufacturer's recommendations.

c. Stabilized Construction Exits

BMP Description: Anti-tracking pads consisting of stone will be installed at the exits/entrance, as identified on the Erosion Control Plan, to prevent the off-site transport of sediment by construction vehicles. The anti-tracking pads will be at least 50 feet long, a minimum of 30 feet wide, flared at the end closest to the paved road, and will consist of a 6-inch-thick layer of crushed stone (2 inches in diameter). The crushed stone will be placed over a layer of geotextile filter fabric to reduce the mitigation of sediment from the underlying soil. The rumble pad will be placed on top of the stone. Orange-colored plastic mesh fence will be installed along the length of the construction exit to keep construction vehicles and equipment on the anti-tracking pads.

Installation Schedule:	The stabilized exits will be installed before construction begins on the site. The stone will remain in place until the subgrade of pavement is installed at the site. The anti-tracking pads will be placed on the pavement and will remain until all areas of the site have been stabilized.
Maintenance and Inspection:	The exits will be inspected weekly and after storm events or heavy use. The exits will be maintained in a condition that will prevent tracking or flowing of sediment onto Public Streets. This could require adding additional crushed stone to the exit. All sediment tracked, spilled, dropped, or washed onto Public Street will be swept up immediately and hauled off-site for disposal at City Approved Landfill. Sediment will be swept from the anti-tracking pad at least weekly, or more often if necessary. If excess sediment has clogged the pad, the exit will be top dressed in new crushed stone. Replacement of the entire pad might be necessary when the pad becomes completely filled with sediment. The pad will be reshaped as needed for drainage and runoff control. Broken road pavement as a result of construction activities on roadways immediately adjacent to the project site will be removed before the subgrade of pavement is applied to the parking lot. The removed stone and sediment from the pad will be hauled off-site and disposed of at City Approved Landfill.

NOTE: Structural control locations are illustrated in the Erosion and Sedimentation Control Plan. Structural controls that will be used during construction activities include silt fence and stabilized construction entrance, rock outlet protection and inlet protection.

ATTACHMENT G: DRAINAGE AREA MAP

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

ATTACHMENT H

TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS (NOT APPLICABLE)



ATTACHMENT I: INSPECTION AND MAINTENANCE FOR BMPs

1. Maintenance-

All erosion and sediment controls shall be maintained in good working order. If a repair is necessary, it shall be performed at the earliest date possible but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. Disturbed areas on which construction activities have ceased, temporarily or permanently shall be stabilized within 14 calendar days unless they are scheduled to and do resume within 21 calendar days. The areas adjacent to creeks and driveways shall have priority followed by devised protecting storm sewer inlets. If through inspections the permittee determines that BMPs are not operating effectively, maintenance must be performed before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disables, run over, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery. All erosion and sedimentation control measures shall be cleaned and repaired in accordance with following:

- 1. All seeded areas shall be checked regularly to see that a good stand of grass is maintained. Areas should be reseeded and fertilized as needed to provide a good stand of grass for erosion control.
- 2. Silt fences shall be repaired to their original conditions if damaged. Sediment shall be removed from the silt fences when it reaches one-third to one-half the height of the silt fence.
- 3. The construction entrances shall be maintained in a condition, which will prevent tracking or flow of mud onto public right-of-ways. This may require periodic top dressing as conditions demand.
- 4. The temporary parking and storage area shall be kept in good condition (suitable for parking and storage). This may require periodic top dressing as conditions demand.
- 5. All slopes shall be checked regularly to insure they are structurally sound and have not been damaged by erosion or construction equipment.

2. Material Management-

Except as noted below, all waste materials shall be collected in a metal dumpster having a secure cover. The dumpster shall meet all state and local solid waste management regulations. All trash and debris from construction shall be deposited in the dumpster. The dumpster shall be emptied, as necessary or as required by local regulation, and hauled to o local approved land fill site. The burying of construction waste on the project site shall not be permitted.

Concrete washout areas shall be required and shall consist of a pit, lined with an impervious material, of sufficient size to contain, until evaporation, all water used, and washout material produced during concrete washout operations. The concrete washout locations shall be as directed by the engineer. Lime staking tanks shall be surrounded by earthen berm, capable of containing any overflow.

• Hazardous Waste: As a minimum, any products in the following categories are considered to be hazardous: paints, acids, solvents, asphalt products, chemical additives for soli stabilization and concrete curing compounds or additives. In the

• event of a spill which may be hazardous, the spill coordinator shall be contacted immediately.

• Sanitary Waste: All sanitary waste shall be collected from the portable units, as necessary or as required by local regulation, by a licensed sanitary waste management contractor.

• Offsite Vehicle Tracking: The Contractor shall be required, on a regular basis or as may be directed by the Engineer, to dampen haul roads for dust control, stabilize construction entrances and to remove excess dirt from the roadway.

• Petroleum Products: All on-site vehicles shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products (oils, gasoline, lubricants, asphaltic substances, etc.) shall be stored in tightly sealed containers, which are clearly labeled. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.

3. Spill Control Practices-

- Materials shall be tightly sealed in containers that are clearly labeled and shall be neatly and securely stacked.
- Materials and equipment necessary for spill cleanups shall be kept in the material storage area on site.
- All spills shall be cleaned up immediately after discovery.
- The spill area shall be kept well ventilated, and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous materials shall be reported to the appropriate local, state, and federal government agencies as soon as possible, regardless of the size.
- Contaminated materials shall be disposed of according to local, state, and federal requirement.
- One person shall be selected to be the spill prevention and cleanup coordinator.

4. Good Housekeeping-

The following housekeeping practices shall be followed on site during the construction project.

- Neat and orderly storage of any chemicals, fertilizers, fuels, etc., that are being stored on site.
- Regular garbage, rubbish, constructions waste and sanitary waste disposal.
- Prompt cleanup of any spills that have occurred.
- Cleanup of sediment that has been deposited off the site by vehicle tracking, wind, and storm water.

5. Inspection-

An inspection shall be performed by an inspector every 14 calendar days as well as within 24 hours after any rainfall of one-half Inch or more is recorded on a non-freezing rain gauge to be located at the project site, or every 7 calendar days. An Inspection and Maintenance Report shall be filed for each inspection. Based on the inspection results, the controls shall be revised in accordance with the Inspection

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

1. Qualified personnel provided by the permittee and familiar with the SW3P must inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitations, and structural controls for evidence of, or the potential for, pollutants entering the drainage system. Sediment and erosion control measures identified in the SW3P and Erosion Control Plan must be inspected for evidence of off-site sediment tracking. Inspections must be conducted at least once every fourteen (14) calendar days and within twenty-four (24) hours of the end of a storm event of 0.5 inches or greater.

Where sites have been finally or temporarily stabilized, where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), or during seasonal arid periods in arid areas (areas with an average annual rainfall of 0 to 10 inches) and semi-arid areas (areas with an average annual rainfall of 10 to 20 inches), inspections must be conducted at least once every month.

As an alternative to the above-described inspection schedule of once every fourteen (14) calendar days and within twenty-four (24) hours of a storm event of 0.5 inches or greater, the SW3P may be developed to require that these inspections will occur at least once every seven (7) days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether there has been a rainfall event since the previous inspection.

- 2. The SW3P must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions to the SW3P must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the SW3P and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable.
- 3. A report summarizing the scope of the inspection, names and qualifications of personnel making the inspection, the dates of the inspection, and major observations relating to the implementation of the SW3P must be make and retained as part of the SW3P. Major observations should include: The locations of discharges of sediment or other pollutants from the site; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed. Actions taken as a result of inspections must be described within, and retained as a part of, the SWP3 for at least three (3) years from the date the site is finally stabilized. Reports must identify any incidents of noncompliance, the report must contain a certification that the facility or site is in compliance with SW3P and this permit. The report must be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports). The SW3P must identify and ensure the implementation of appropriate pollution prevention measures for all eligible non-storm water components of the discharge.

ATTACHMENT J: SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Permanent Seeding

BMP Description: Permanent seeding will be applied immediately after the final design grades are achieved on portions of the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal at Landfill. Construction debris, trash and temporary BMPs (including silt fences, material storage areas, sanitary toilets, and inlet protection) will also be removed and any areas disturbed during removal will be seeded immediately.

Seedbed Preparation:

- a. In areas where disturbance results in subsoil being the final grade surface, topsoil will be spread over the finished area at minimum depth of 2 to 6 inches.
- b. The seedbed will be free of large clods, rocks, woody debris and other objectionable materials.
- c. Fertilizer and lime will be applied to the seedbed according to the manufacturer's recommendations or soil tests (soil tests are omitted from this example SWPPP).
- d. The top layer of soil will be loosened to a depth of 3–5 inches by raking, tilling, disking or other suitable means.

Grass Selection/Application:

- a. Common areas at the site will be stabilized with a mixture of Tall Fescue, Creeping Red Fescue and Redtop at an application rate of 30 pounds per acre or 0.95 pounds per 1,000 square feet. Lawns will be stabilized with a mixture of Kentucky Blue Grass and Creeping Red Fescue at an application rate of 100 pounds per acre or 2.3 pounds per 1,000 square feet.
- e. Seed will be applied uniformly by hydro seeding or broadcasting. Where broadcasting is used, the seed will be covered with .25 inch of soil or less, by cult packing or raking.

Mulching:

a. Hydro mulch will be applied immediately following seeding at an application rate of 90–100 pounds (2–3 bales) per 1,000 square feet.

Installation Schedule:	Portions of the site where construction activities have permanently ceased will be stabilized, as soon as possible but no later than 14 days after construction ceases.
Maintenance and Inspection:	All seeded areas will be inspected weekly during construction activities for failure and after storm events until a dense cover of vegetation has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized, and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final stabilization is reached.

ATTACHMENT K: BMPS FOR ON SITE STORMWATER

All stormwater from the site will be conveyed to the existing wet pond on the west through a combination of area inlets and storm sewer systems. In accordance with TCEQ Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices (Revised), RG-348, dated July 2005, the proposed permanent BMPs will reduce the annual increase in Total Suspended Solids (TSS) load in storm water runoff by at least 80%. The existing wet pond located on the west was designed to provide treatment for this site development.

This project proposed impervious cover is equal to what was projected for the site; therefore, no additional BMPs are necessary. Refer to the attached drainage area exhibit that depicts the total amount of area that is associated with this BMP.

TABLE 1: CZP MODIFICATION AND PROJECTED FULL BUILDOUT FOR WET POND					
DRAINAGE AREA	DRAII AR		IMPERVIOUS COVER	IMPERVIOUS COVER	
	SQFT	ACRES		SQFT	ACRES
T1	215,481	4.947	PREVIOUSLY PERMITTED TRD	110,207	2.530
B1 _A	12,118	0.278	PREVIOUSLY PERMITTED TRD	7,405	0.170
B1 _B	49,203	1.130	PREVIOUSLY PERMITTED BR2	36,590	0.840
			PREVIOUSLY PERMITTED FS	29,637	0.680
B1 _c	121,401	2.787	PREVIOUSLY PERMITTED ^{JL}	24,524	0.563
			PROJECTED*	42,959	0.986
B1 _D	60,650	1.392	PREVIOUSLY PERMITTED BR2	3,058	0.070
B1 _E	118,913	2.730	PREVIOUSLY PERMITTED LSC	87,949	2.019
B1 _F	44,154	1.014	EXISTING OFFSITE	23,890	0.548
B1 _G	124,762	2.864	EXISTING OFFSITE	54,277	1.246
B2 _A	64,722	1.486	EXISTING ONSITE	40,884	0.939
B3 _A	230,700	5.296	PROPOSED SITE	32,888	0.755
DJA	230,700	5.290	PROJECTED*	171,910	3.947
B3 _B	11,238	0.258	EXISTING OFFSITE	3,198	0.073
TOTAL		24.181	-	669,376	15.367

^{TRD} Trudy's site permitted under CZP Permit No. 11-10082301
 ^{BR2} Permitted under CZP Permit No. 11-10081701
 ^{LSC} Ledge Stone Commercial permitted under CZP Permit No. 11001048
 ^{FS} Firestone permitted under CZP Permit No. 11001926
 ^{JL} Jiffy Lube permitted under CZP Permit No. 11001910

*The projected IC for the Remainer of Drainage Area $B1_{C}$ and Drainage Area $B3_{A}$ such that the total IC is 80% for that drainage area

TABLE 2: WET POND CAPACITY

TOTAL IC AT FULL BUILDOUT	DESIGN IC	PROVIDED WQV
AC	AC	CUFT
14.902	17.658	83,217

Application Fee Form

Texas Commission on Environmental Quality Name of Proposed Regulated Entity: <u>Sherwin Williams</u>					
Regulated Entity Location: <u>12360 W. Hwy 29 Liberty Hill, TX</u>					
	Name of Customer: Liberty Hill Development Group, LLC				
Contact Person: Jack Zanger		e: <u>918-565-3820</u>			
Customer Reference Number (if issue Regulated Entity Reference Number	·				
Austin Regional Office (3373)					
	□- ·				
Hays San Antonio Regional Office (3362)	Travis	∑ WII	liamson		
🗌 Bexar	Medina	🗌 Uva	alde		
Comal	Kinney				
Application fees must be paid by che Commission on Environmental Qual form must be submitted with your f	ck, certified check, or ity. Your canceled ch	neck will serve as your	receipt. This		
Austin Regional Office	🗌 Sa	n Antonio Regional Of	fice		
Mailed to: TCEQ - Cashier	0\	vernight Delivery to: T	CEQ - Cashier		
Revenues Section	12	2100 Park 35 Circle			
Mail Code 214	Bu	uilding A, 3rd Floor			
		ustin, TX 78753			
Austin, TX 78711-3088	(5	12)239-0357			
Site Location (Check All That Apply):					
Recharge Zone	Contributing Zone	Transiti	ion Zone		
Type of Plan		Size	Fee Due		
Water Pollution Abatement Plan, Co	ontributing Zone				
Plan: One Single Family Residential		Acres	\$		
Water Pollution Abatement Plan, Co					
Plan: Multiple Single Family Resider		Acres	\$		
Water Pollution Abatement Plan, Co	ontributing Zone				
Plan: Non-residential	0.85 Acres	\$ 3000.00			
Sewage Collection System	L.F.	\$			
Lift Stations without sewer lines	Acres	\$			
Underground or Aboveground Stora	Tanks	\$			
Piping System(s)(only)	Each	\$			
Exception	Each	\$			
Extension of Time		Each	\$		
	<u>.</u>	V/pmy			

Signature:

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

	Cost per Tank or	Minimum Fee-
Project	Piping System	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

Owner Authorization Form

for Required Signature for submitting and signing an application for an Edwards Aquifer Protection Plan (Plan) and conducting regulated activities in accordance with an approved Plan.

Texas Commission on Environmental Quality **Edwards Aquifer Protection Program** Relating to the Edwards Aquifer Rules of Title 30 of the Texas Administrative Code

(30 TAC), Chapter 213 Effective June 1, 1999

Land Owner Authorization

I, _____

RS Stonewall Ranch, L.L.C. _____of

Land Owner Name (Individual)

Firm (applicable to Legal Entities)

am the Owner of Record or Title Holder of the property located at:

Lot 1A, Block A, Replat of Lot 1, Block A, the second Replat of Lot 4, Block A, of the Stone Wall Ranch Subdivision, Section 1

(Legal description of the property referenced in the application)

and being duly authorized under 30 TAC § 213.4(c)(2) and § 213.4(d)(1) or § 213.23(c)(2) and § 213.23(d) to submit and sign an application for a Plan, do hereby authorize:

Liberty Hill Development Group, LLC

(Applicant Name / Plan Holder (Legal Entity or Individual))

to conduct:

Contributing Zone Modification Plan

(Description of the proposed regulated activities)

on the property described above or at:

12360 W. Hwy 29 LIBERTY HILL, TX 78642

(If applicable to a precise location for the authorized regulated activities)

Land Owner Acknowledgement

James A. McAlister IV I, __

RS Stonewall Ranch, L.L.C.

Land Owner Name (Individual)

Firm (applicable to Legal Entities)

understand that while Liberty Hill Development Group, LLC

Applicant Name / Plan Holder (Legal Entity or Individual)

is responsible for compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan through all phases of Plan implementation,

Ĩ.	James A. McAlister IV	of
-,	Land Owner Name (Individual)	

RS Stonewall Ranch, L.L.C.

Firm (applicable to Legal Entities)

as Owner of Record or Title Holder of the property described above, I am ultimately responsible for ensuring that compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan, through all phases of Plan implementation, is achieved even if the responsibility for compliance and the right to possess and control of the property referenced in the application has been contractually assumed by another legal entity.

____of

I, James A. McAlister IV Land Owner Name (Individual) RS Stonewall Ranch, L.L.C. Firm (applicable to Legal Entities)

further understand that any failure to comply with any condition of the Executive Director's approval is a violation and is subject to administrative rule or orders and penalties as provided under 30 TAC § 213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature
Land Owner/Signature
THE STATE OF § Texas
County of § Harris

7	25	2023
Date		

BEFORE ME, the undersigned authority, on this day personally appeared 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.

a la la la faffice on this	25+h	day of July	1023
GIVEN under my hand and seal of office on this	6-011	uuy or	

NOTARY PUBLIC

Darla R Purchase Typed or Printed Name of Notary

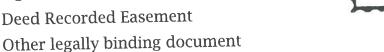
MY COMMISSION EXPIRES: 626 2027

Attached: (Mark all that apply)



Lease Agreement Signed Contract

Deed Recorded Easement





TCEQ-XXXXX

Applicant Acknowle	edgement
--------------------	----------

I. Gavin Melia

Liberty Hill Development Group, LLC

Applicant Name (Individual)

Firm (applicable to Legal Entities)

acknowledge that RS Stonewall Ranch, L.L.C.

Land Owner Name (Legal Entity or Individual)

has provided Liberty Hill Development Group, LLC

of

Applicant Name (Legal Entity or Individual)

with the right to possess and control the property referenced in the Edwards Aquifer Protection Plan (Plan).

I understand that Liberty Hill Development Group, LLC Applicant Name (Legal Entity or Individual)

is responsible, contractually or not, for compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan through all phases of Plan implementation. I further understand that failure to comply with any condition of the Executive Director's approval is a violation and is subject to administrative rule or orders and penalties as provided under § 213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Applicant Signature /
Jave yere
Applicant Signature
THE STATE OF §
County of S Moore

BEFORE ME, the undersigned authority, on this day personally appeared 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_		25th			July 2023
		Δ.			



Eva S. Newton

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: July 19, 2024

TCEQ-XXXXX

3 of 3

July 25, 2023

Date

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

Gavin Melia						
	Print Name					
	Member and Manager	,				
	Title - Owner/President/Other					
of	Liberty Hill Development Group, LLC	,				
	Corporation/Partnership/Entity Name					
have authorized	Jack Zanger					
	Print Name of Agent/Engineer					
of	Triangle Engineering, LLC					
	Print Name of Firm					

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

I also understand that:

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

felse

July 25, 2023

Date

THE STATE OF _______ S

County of Moore §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Gavin Melia</u> 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 25th day of July, 2023



va Spewta

NOTARY PUBLIC Eva S. Newton

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: _______ July 19, 2024



TCEQ Core Data Form

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								
2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number (if issued)								
CN 600278600 for CN or RN numbers in Central Registry** RN								
SECTION II: Customer Information	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	ne							
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) <u>If new Customer, enter previous Customer below:</u>								
Liberty Hill Development Group, LLC								
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits) 9. Federal Tax ID (9 digits) 10. DUNS Number (if applic)	able)							
805171513 32090961742								
11. Type of Customer: Corporation Individual Partnership: General Limited								
Government: City County Federal State Other Sole Proprietorship Other:								
12. Number of Employees 13. Independently Owned and Operated?	13. Independently Owned and Operated?							
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher ☐ 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								
120 Market SQ., Floor 2								
15. Mailing Address:								
City Pinehurst State NC ZIP 28374 ZIP + 4								
16. Country Mailing Information (if outside USA) 17. E-Mail Address (if applicable)								
gavin@baselinedevelopment.com								
18. Telephone Number 19. Extension or Code 20. Fax Number (if applicable)								
(910) 724-6720 () -								

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.)						
Liberty Hill Development Group, LLC						

23. Street Address of	12360 V	Vest State Hig	ghway 29						
the Regulated Entity:									
(No PO Boxes)	City	Liberty Hill	I State	ТХ	ZIP	78642		ZIP + 4	
24. County	William	ison		•					
Enter Physical Location Description if no street address is provided.									
25. Description to Physical Location:									
26. Nearest City						State		Nea	rest ZIP Code
27. Latitude (N) In Decim	nal:			28. L	ongitude (\	W) In Decir	mal:		
Degrees	Minutes	S	econds	Degre	es	Min	nutes		Seconds
30		39	34.70		97		5	3	28.42
29. Primary SIC Code (4	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)							ICS Code	
5231 424950									
33. What is the Primary I	Business o	f this entity? (o not repeat the SIC	or NAICS des	cription.)				
Paint Store	-								
				120 Marl	ket SQ., Flo	or 2			
34. Mailing									
Address:	City	PINEHURST	State	NC	ZIP	283	374	ZIP + 4	
35. E-Mail Address:			(avin@bas	elinedevelo	opment.co	m		
36. Telepho	ne Numbe	r	37. Extensio	,				nber (if appli	cable)
(910)7	24-6720						() -	
39. TCEQ Programs and ID form. See the Core Data Form in	Numbers (Check all Programs	and write in the per	mits/registra	tion numbers	s that will be	affected I	by the updates	submitted on this
Dam Safety	District	_	🛛 Edwards Aqui	fer	🗌 Emissi	ons Inventor	y Air	Industria	Hazardous Waste
Municipal Solid Waste	🗌 New S	ource Review Air	OSSF		Petrole	eum Storage	Tank	PWS	
Sludge	Storm	Water	Title V Air		Tires			Used Oil	
Voluntary Cleanup	U Waste	Water	Wastewater A	griculture	U Water	Rights		Other:	

SECTION IV: Preparer Information

40. Name:	Jack Zange	r		41. Title:	Project Manager	
42. Telephone Number 43. Ext./Code 44. Fax Number			44. Fax Number	45. E-Mail Address		
(469)	331-8566	113	() -	jzanger@	etriangle-engr.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:	Triangle Engineering, LLC Job Title: Project M				<i>l</i> anager		
Name (In Print):	Jack Zanger			Phone:	(469) 331- 8566		
Signature:	1/fr			Date:			

