



# **WATER POLLUTION ABATEMENT PLAN**

## **FOR**

### **VELOCITY TIRE**

4229 WILLIAMS DRIVE  
GEORGETOWN, TEXAS 78628

APPLICANT:  
VELO LAND HOLDING LLC  
1610 STONEBRIDGE DR.  
SAN ANGELO, TEXAS 76904

SUBMITTED TO:  
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
REGION 11 OFFICE  
12100 PARK 35 CIRCLE, BLDG A.  
AUSTIN, TEXAS 78753

SEPTEMBER/2023

HEA#22-034  
ORIGINAL

# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### Our Review of Your Application

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

### Administrative Review

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

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

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

### Technical Review

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



2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.
3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or if not withdrawn the application will be denied and 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 to you:

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- 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 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 effected 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.

<b>1. Regulated Entity Name: VELOCITY TIRE</b>					<b>2. Regulated Entity No.: 111709994</b>				
<b>3. Customer Name : VELO LAND HOLDINGS LLC</b>					<b>4. Customer No.:606125409</b>				
<b>5. Project Type:</b> (Please circle/check one)	<input checked="" type="radio"/> New	Modification			Extension		Exception		
<b>6. Plan Type:</b> (Please circle/check one)	<input checked="" type="radio"/> WPAP	<input type="radio"/> CZP	<input type="radio"/> SCS	<input type="radio"/> UST	<input type="radio"/> AST	<input type="radio"/> EXP	<input type="radio"/> EXT	Technical Clarification	Optional Enhanced Measures
<b>7. Land Use:</b> (Please circle/check one)	<input type="radio"/> Residential		<input checked="" type="radio"/> Non-residential			<b>8. Site (acres):</b>		0.92	
<b>9. Application Fee:</b>	\$3,000.00		<b>10. Permanent BMP(s):</b>			Jellyfish Unit			
<b>11. SCS (Linear Ft.):</b>			<b>12. AST/UST (No. Tanks):</b>						
<b>13. County:</b>	WMSN		<b>14. Watershed:</b>			Granger Lake-San Gabriel River			

# Application Distribution

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

[http://www.tceq.texas.gov/assets/public/compliance/field\\_ops/eapp/EAPP%20GWCD%20map.pdf](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.)	—	—	<u>  X  </u>
Region (1 req.)	—	—	<u>  X  </u>
County(ies)	—	—	<u>  X  </u>
Groundwater Conservation District(s)	<u>  </u> Edwards Aquifer Authority <u>  </u> Barton Springs/ Edwards Aquifer <u>  </u> Hays Trinity <u>  </u> Plum Creek	<u>  </u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u>  </u> Austin <u>  </u> Buda <u>  </u> Dripping Springs <u>  </u> Kyle <u>  </u> Mountain City <u>  </u> San Marcos <u>  </u> Wimberley <u>  </u> Woodcreek	<u>  </u> Austin <u>  </u> Bee Cave <u>  </u> Pflugerville <u>  </u> Rollingwood <u>  </u> Round Rock <u>  </u> Sunset Valley <u>  </u> West Lake Hills	<u>  </u> Austin <u>  </u> Cedar Park <u>  </u> Florence <u>  </u> Georgetown <u>  </u> Jerrell <u>  </u> Leander <u>  X  </u> Liberty Hill <u>  </u> Pflugerville <u>  </u> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<u>  </u> Edwards Aquifer Authority <u>  </u> Trinity-Glen Rose	<u>  </u> Edwards Aquifer Authority	<u>  </u> Kinney	<u>  </u> EAA <u>  </u> Medina	<u>  </u> EAA <u>  </u> Uvalde
City(ies) Jurisdiction	<u>  </u> Castle Hills <u>  </u> Fair Oaks Ranch <u>  </u> Helotes <u>  </u> Hill Country Village <u>  </u> Hollywood Park <u>  </u> San Antonio (SAWS) <u>  </u> Shavano Park	<u>  </u> Bulverde <u>  </u> Fair Oaks Ranch <u>  </u> Garden Ridge <u>  </u> New Braunfels <u>  </u> Schertz	NA	<u>  </u> 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.

LAKSHAY SHARMA

Print Name of Customer/Authorized Agent

*Lakshay Sharma*

*09/05/2023*

Signature of Customer/Authorized Agent

Date

**\*\*FOR TCEQ INTERNAL USE ONLY\*\***

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

# General Information Form

## Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) 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 **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: LAKSHAY SHARMA

Date: 09/05/2023

Signature of Customer/Agent:



## Project Information

1. Regulated Entity Name: VELOCITY TIRE
2. County: WILLIAMSON
3. Stream Basin: PECAN BRANCH
4. Groundwater Conservation District (If applicable): \_\_\_\_\_
5. Edwards Aquifer Zone:
  - ☒ Recharge Zone
  - ☐ Transition Zone
6. Plan Type:
  - ☒ WPAP
  - ☐ SCS
  - ☐ Modification
  - ☐ AST
  - ☐ UST
  - ☐ Exception Request

7. Customer (Applicant):

Contact Person: DEVIN ROBERSON

Entity: VELO LAND HOLDINGS LLC

Mailing Address: 1610 STONEBRIDGE DRIVE

City, State: SAN ANGELO, TEXAS

Zip: 76904

Telephone: 432.935.1014

FAX: \_\_\_\_\_

Email Address: DEVIN@VELOCITYTIREUSA.COM

8. Agent/Representative (If any):

Contact Person: LAKSHAY SHARMA

Entity: HAGOOD ENGINEERING ASSOCIATES, INC.

Mailing Address: 900 E. MAIN STREET

City, State: ROUND ROCK, TEXAS

Zip: 78664

Telephone: 512.244.1546

FAX: \_\_\_\_\_

Email Address: LAKSHAYS@HEAENG.COM

9. Project Location:

- ☒ The project site is located inside the city limits of GEORGETOWN.
- ☐ 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.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

APPROXIAMETLY ONE-HALF MILE EAST OF DB WOODS RD

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:
- ☒ Project site boundaries.
- ☒ USGS Quadrangle Name(s).
- ☐ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
- ☒ Drainage path from the project site to the boundary of the Recharge Zone.
13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
- ☐ Survey staking will be completed by this date: \_\_\_\_\_

14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

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

15. 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/Uncleared)
- ☐ Other: \_\_\_\_\_

### ***Prohibited Activities***

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

### ***Administrative Information***

18. The fee for the plan(s) is based on:

- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
  - ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
  - ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
  - ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
  - ☐ A request for an extension to a previously approved plan.
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- ☒ TCEQ cashier
  - ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
  - ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

**GENERAL INFORMATION**  
Attachments to form TCEQ-0587

**ATTACHMENT A - Road Map**

See attached

**ATTACHMENT B - USGS / Edwards Recharge Zone Map**

See attached

**ATTACHMENT C - Project Description**

The project site is located within the corporate limits of the City of Georgetown. Please refer to the attached plans for the site improvement layout. This site is also located within the Edwards Aquifer Recharge Zone.

This WPAP modification is for Site Development on the 0.92-acre tract within the Final Plat of Loper-Seebock Subdivision in Georgetown, TX.

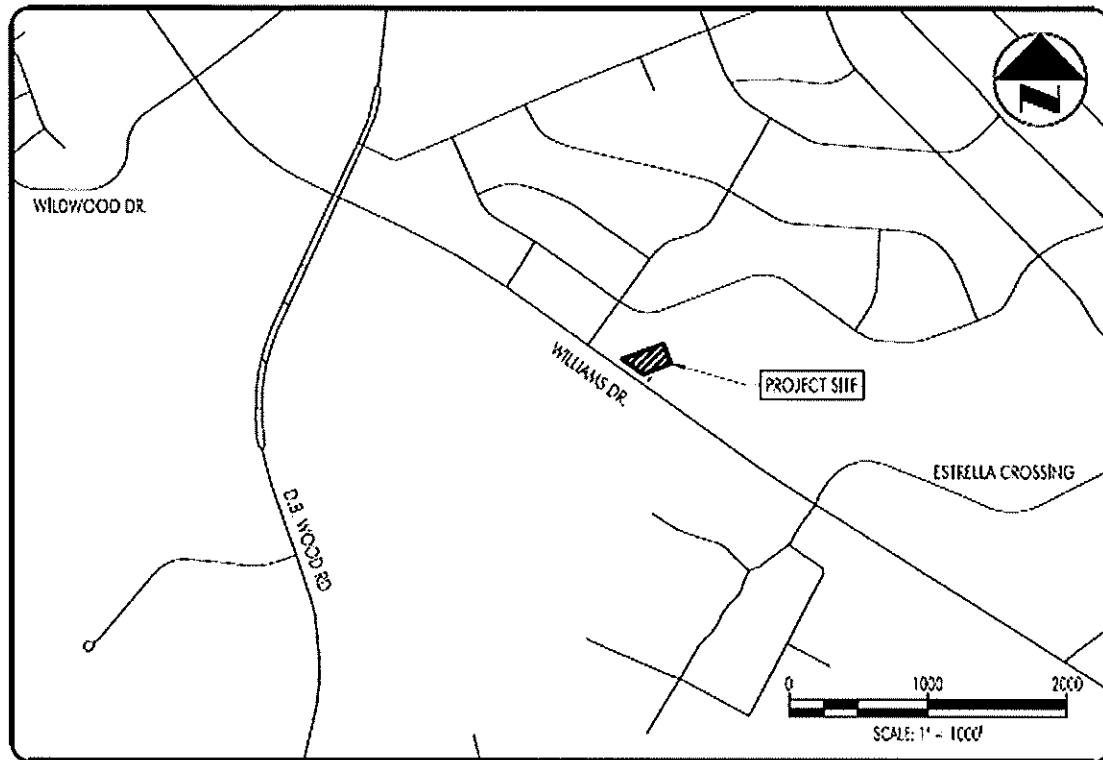
The Velocity Tire development will be on the 0.92-acre tract with 0.615 acres of impervious cover (66.76%) when fully developed. Currently, the site is undeveloped with grass vegetation. The proposed development is for Commercial (Retail) use and the site development improvements consist of one 5,724 sq. ft. retail building, driveways, sidewalks, drainage, and utility infrastructure. This development will be utilizing 2 - Jellyfish Units as Permanent BMPs. There are currently no major improvements on site to be demolished.

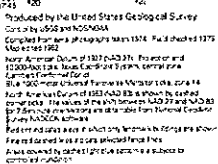
A storm sewer system and underground detention system will be constructed to collect and convey stormwater to the property's east boundary.

TSS Load Removal Calculations are provided on Sheet C31 in the attached Site Development plans for the project.



# SITE LOCATION MAP





# Geologic Assessment

## Texas Commission on Environmental Quality

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

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

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

## Signature

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

Print Name of Geologist: Brian Ratajczyk

Telephone: 512-996-9199

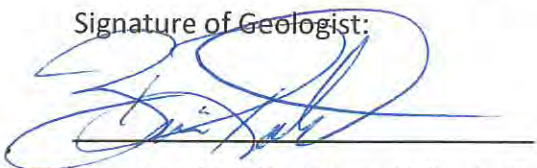
Date: 09/05/2023

Fax: 844-462-0439

Representing: SCI Engineering, Inc. - TBPB 13035

(Name of Company and TBPB or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Velocity Tire

## Project Information

1. Date(s) Geologic Assessment was performed: 08/21/2023

2. Type of Project:

☒ WPAP

☐ AST

☐ SCS

☐ UST

3. Location of Project:

☒ Recharge Zone

☐ Transition Zone

☐ Contributing Zone within the Transition Zone

4. ☒ **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups\* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

**Table 1 - Soil Units, Infiltration Characteristics and Thickness**

Soil Name	Group*	Thickness(feet)
(EeB) Eckrant stony clay, 0 to 3 percent slopes	D	<5

Soil Name	Group*	Thickness(feet)

*\* Soil Group Definitions (Abbreviated)*

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

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
- Applicant's Site Plan Scale: 1" = 50'
- Site Geologic Map Scale: 1" = 50'
- Site Soils Map Scale (if more than 1 soil type): 1" = 50'
9. Method of collecting positional data:
- ☒ Global Positioning System (GPS) technology.
  - ☐ Other method(s). Please describe method of data collection: \_\_\_\_\_

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.
12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☐ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☐ There are \_\_\_\_\_ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☐ The wells are in use and comply with 16 TAC Chapter 76.
- ☒ There are no wells or test holes of any kind known to exist on the project site.

### ***Administrative Information***

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



\* DATUM:

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

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

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

My signature certifies that I am qualified as a geologist as defined in the California Geology Board Act.

*William C. Peterson*

Date 9/5/2023



9/5/23

# **Attachment B**

## Attachment B - Stratigraphic Column

AGE	GROUP	STRATIGRAPHIC FORMATION	THICKNESS (ft)	LITHOLOGY	
Upper Cretaceous	Buda	<b>Buda Limestone (Kbu)</b>	~ 45	Fine grained, bioclastic, commonly glauconitic, pyritiferous, hard, massive, poorly bedded to nodular, thinner bedded and argillaceous near upper contact, light gray to pale orange; weathers dark gray to brown, burrows filled with chalky marl. Abundant pelecypods.	
	Grayson	<b>Del Rio Clay (Kdr)</b>	40 to 70	Calcareous and gypsiferous clay, blocky, medium gray, weathers light gray to yellowish gray; some thin lenticular beds of highly calcareous siltstone. Marine mega fossils include abundant Exogyra arietina and other pelecypods.	
	Washita	<b>Georgetown Formation (Kgt)</b>	~ 90	Unit consists of thick bedded nodular limestone with interbedded chalky, argillaceous limestone and light gray to buff shale. Interbedded, thin, chalky limestone and light gray marl can be present near the bottom of the formation.	
Lower Cretaceous	Fredericksburg	<b>Edwards Formation (Ked)</b>	~ 210	Formation consists of massive limestone bed with chert nodules and dolomite. The limestone is aphanitic to fine-grained, massive to thin bedded, hard, brittle, some rudistid biostromes, and milliollid biosparite. Zones of recrystallized weathering and vuggy porosity.	Edwards Aquifer
	Fredericksburg	<b>Comanche Peak Formation (Kcp)</b>	~ 65	Unit consists of fine to very fine grained, fairly hard, nodular, light gray weathers to white. Extensively burrowed, irregularly interbedded with marl.	
	Fredericksburg	<b>Walnut Formation (Kwa)</b>	70 to 90	Limestone and claystone interbedded. Argillaceous, nodular, thin to medium bedded, iron stained, and burrowed. unit consist of marly limestone alternating with harder more crystalline limestone.	

Note: Stratigraphic Column adapted from; Housh, Todd B. 2007, Bedrock Geology of Round Rock and Surrounding areas, Williamson and Travis Counties, Texas.

\*Blue shading represents lithology underling the project site.



# **Attachment C**

## Attachment C – Site Geology Narrative

### INTRODUCTION

This Geologic Assessment Narrative accompanies the TCEQ Geologic Assessment Form TCEQ-0585 completed for the approximately 0.92-acre property located at 4229 Williams Drive in Georgetown, Williamson County, Texas. The site location is depicted on the *Vicinity and Topographic Map*, Attachment D, Figure 1. SCI understands that the proposed development will likely include the construction of a new vehicle maintenance facility with associated pavement areas and infrastructure.

### GEOLOGIC SETTING

Located within Williamson County, Texas, the project site is located in northwest Georgetown. The site is located on the east edge of the Edwards Plateau, within the Balcones Escarpment. With the region's semi-arid climate, precipitation is approximately 36 inches per year, with temperate grasslands, savannas, and shrublands. Outcrops of Cretaceous aged limestone belonging to the Edwards Limestone of the Fredericksburg Group were occasionally seen throughout the property. Lake Georgetown is less than a mile west-southwest of the site. The site is located in the Edwards Aquifer Recharge Zone.

#### Soils:

Information regarding the following soil description is derived from the soil survey of Williamson County published by the Soil Conservation Service via the Web Soil Survey application. The project site soils maps within the Eckrant stony clay unit, 0 to 3 percent slope (EeB). Soils are classified as Hydrologic Soil Group D which have a high runoff potential when thoroughly wet, and water movement through the soil is restricted or very restricted. Parent material consists of residuum weathered from limestone, with a soil profile range of stony clay to bedrock.

**Table 1 – Soil Description**

Map Symbol and Map Unit Name	Component/ Local Phase	Component Percent	Landform	Depth to Restrictive Feature	Depth to Water Table	Hydrologic Soil Group
EeB- Eckrant stony clay, 0 to 3 percent slopes, stony	Eckrant stony	100	Ridges	4 to 20-inches to lithic bedrock	>80"	D

#### Stratigraphy:

The bedrock lithology underlying the site consists of the Edwards Limestone (Ked), and the tract is located entirely within the Edwards Aquifer Recharge Zone *Geologic Formation Map*, Attachment D, Figure 2. Edwards Limestone is a Cretaceous age limestone within the Fredericksburg Group of the Comanchean - Albian series. Edwards Limestone consists of limestone, dolostone, and chert. The limestone is aphanitic to fine grained, massive to thin bedded, hard, brittle, in part rudistid biostromes, many miliolid biostromes. Exposed outcrops are generally susceptible to chemical weathering, and secondary porosity may vary from microscopic to megascopic in scale.

A Stratigraphic Column Illustrating the Generalized Stratigraphy of the Edwards and Trinity Aquifers, underlying the proposed project is provided in Attachment B. (Barton Springs Edwards Aquifer Conservation District (2022) defines the generalized stratigraphy and aquifers around the project site, accessed from <https://bseacd.org/aquifer-science/about-the-aquifers>).

## **Attachment C – Site Geology Narrative**

### **Structure:**

The Balcones Escarpment is a geologic fault zone several miles wide consisting of several faultings. The Balcones fault zone ultimately controls the structural geology of the region, displacing eastward dipping strata of the Early and Late Cretaceous as much as 1,000 feet down to the east through north to northeast-trending normal faults. It is thought that this displacement occurred primarily during the late Oligocene or early Miocene; others have argued instead that movement during the Late Cretaceous and Pliocene is plausible.

In general, aquifer recharge occurs where formations are exposed at or near the surface, but it may also occur in the presence of faults, fractures, and karst features. Exposure of the Edwards Formation is often correlated to karst development within the region. Karst features are commonly found along fractures, joints, and bedding planes within the Edwards Formation.

### **SITE SUMMARY**

The site investigation was conducted on August 21, 2023, by an SCI Staff Scientist under the supervision of a State of Texas Licensed Professional Geoscientist (PG). Vegetation consisted of grasses with deciduous and coniferous trees and scrub-shrub. There were multiple stands throughout the property of older cedar elms, live oaks, and red cedar, with varying vegetation of scrub-shrub around older stands and smaller growth section throughout the property. White limestone outcrops and surficial limestone was observed. Some of the limestone outcrop appeared to be disturbed or graded due to past site work.

The site is undeveloped with utilities running parallel to the adjacent Williams Drive roadway. The site is surrounded by a mix of residential and commercial properties, with a religious facility adjacently located to the northeast. Based on historical aerial images available online, it appears that this site has never been developed. The adjacent religious facility appears to have been developed around the 1990's and expanded the gravel parking lot during the 2000's. Residential housing to the north of the property began to develop in the 2000's. Properties to the south of the site have been varying developed residential to commercial since the 1990s. The commercial property to the northwest is currently under construction.

The investigation was performed in maximum 50-foot transects to evaluate the property for potential sensitive/recharge features. One feature was documented and evaluated for recharge potential, but no sensitive features (ex. caves, sinkholes, faults/fractures) were identified within the 0.92-acre lot, nor along its perimeter.

### **Feature Description:**

**CD-1:** Feature CD-1 is a topographic depression that is approximately 3 feet by 6 feet in diameter and approximately 6 inches deep. The depression appeared to develop by multiple surficial limestone slabs being displaced and edges of limestone slabs elevated along the rim of the depression. The depression was filled with soil and rock and vegetation covered. Other limestone cobbles were observed exposed around the rim. Probing with tool indicated that the feature was closed. Further evaluation suggests that CD-1 formed independently of karst processes.

### **Manmade Features:**

While the site is undeveloped, some infrastructure does exist. Above-ground electric lines trending parallel to the road on the south side of the site. SCI did observe underground utility connections at the corners of adjacent properties but did not observe any grading or disturbance for any underground utilities within the site. SCI did not identify any manmade features within the property.

## **Attachment C – Site Geology Narrative**

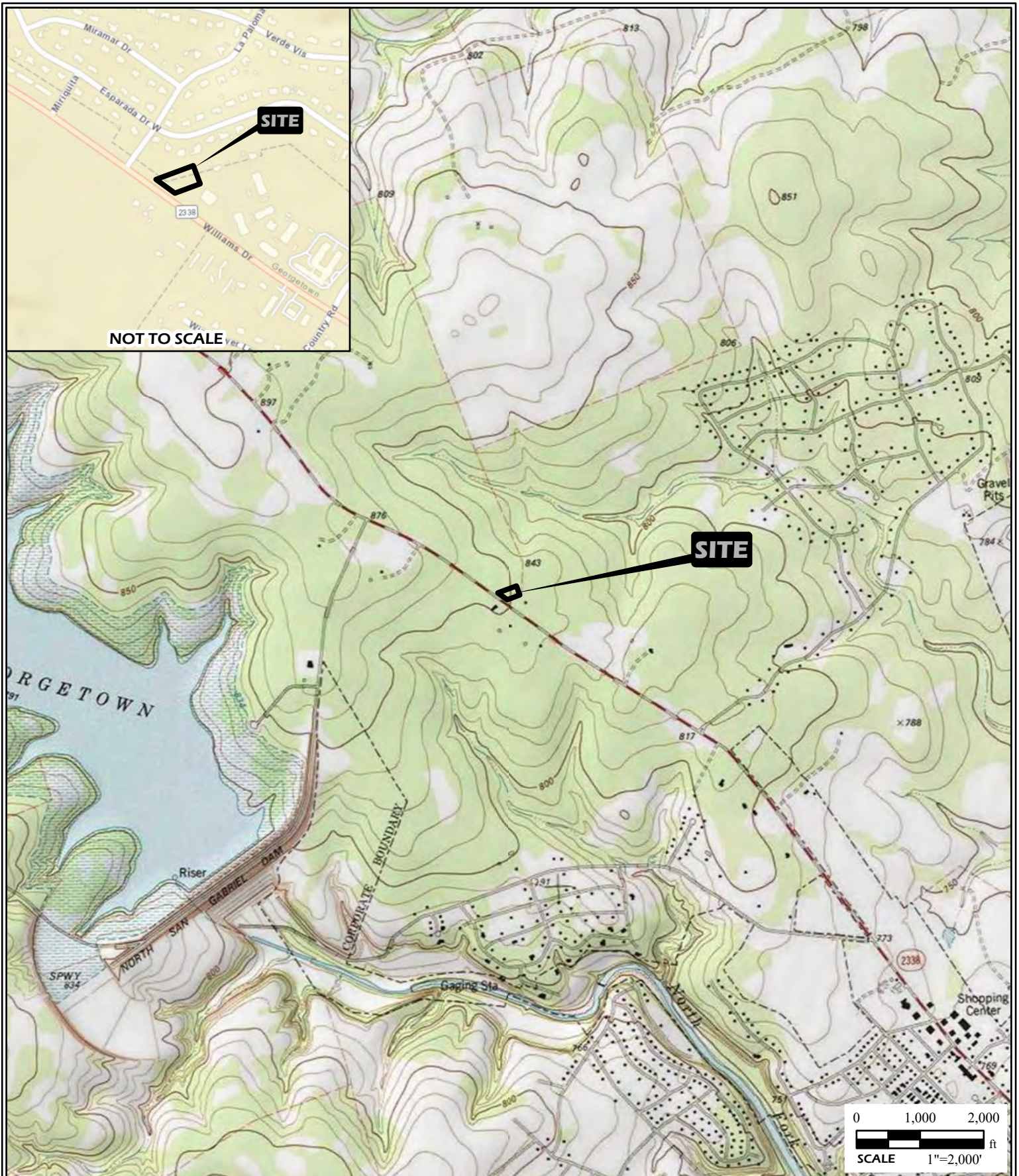
### **City of Georgetown Ordinance:**


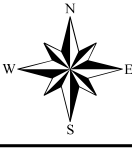
No springs or streams were identified on the property during the assessment site survey, and therefore no occupied site protection, or spring or stream buffer protections measures will be required for the property.

All regulated activities within the recharge zone must follow water quality best management practices, and development of the property will need to comply with the water quality protection measures as outlined in the City of Georgetown Unified Development Code, Section 11.07.040.

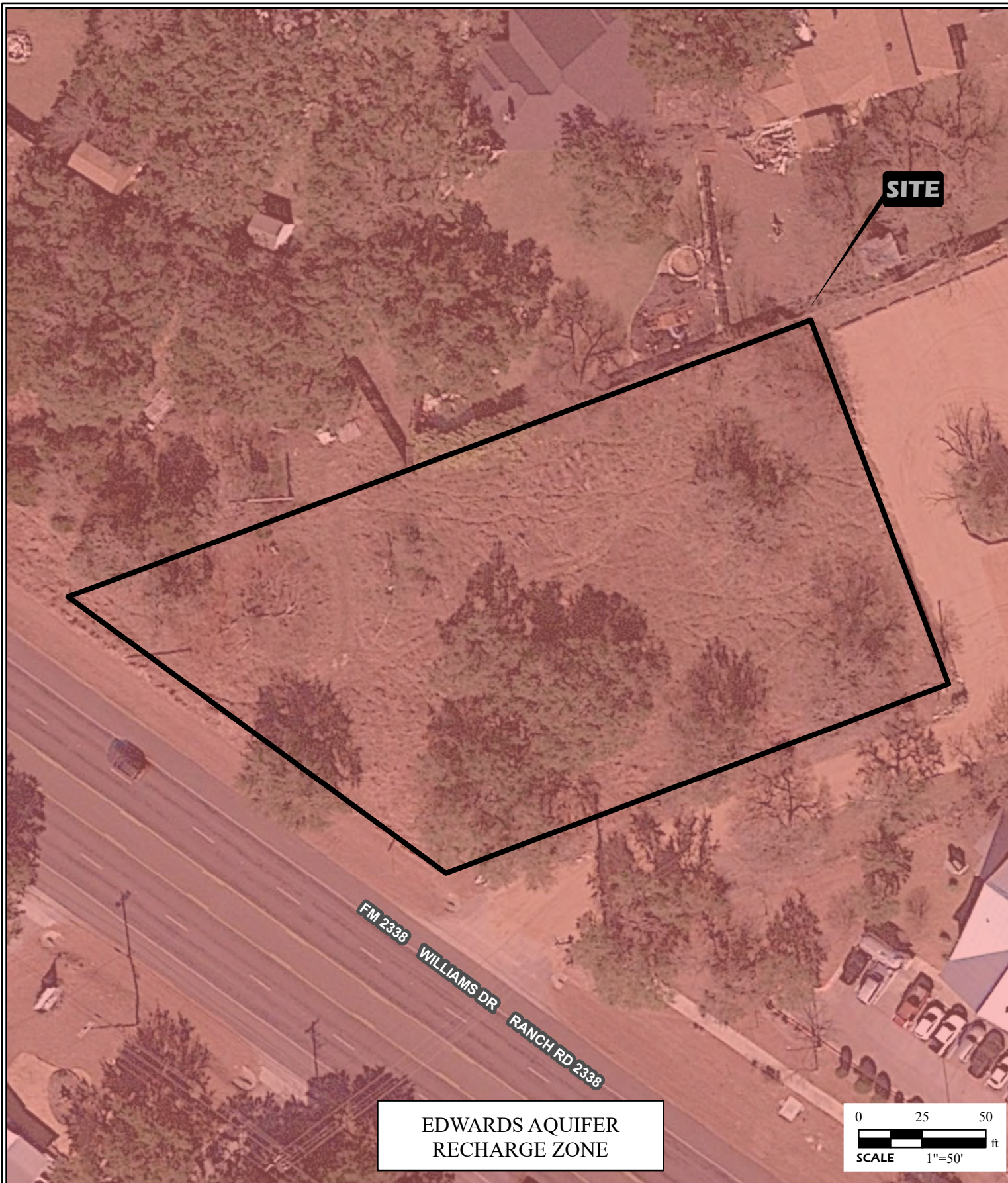
# **Attachment D**








	<b>PROJECT NAME</b> VELOCITY TIRE GEORGETOWN GEORGETOWN, TEXAS			<b>GENERAL NOTES/LEGEND</b> USGS TOPOGRAPHIC MAP GEORGETOWN, TEXAS QUADRANGLE DATED 1995 10' CONTOURS  STREET MAP <a href="http://GOTO.ARCGISONLINE.COM/MAPS/WORLD_STREET_MAP">HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_STREET_MAP</a>	 <b>FIGURE</b> 1
	VICINITY AND TOPOGRAPHIC MAP				
	<b>DRAWN BY</b> ACV	<b>DATE</b> 09/2023	<b>JOB NUMBER</b> 2023-1178.1G		
	<b>CHECKED BY</b> TSS				

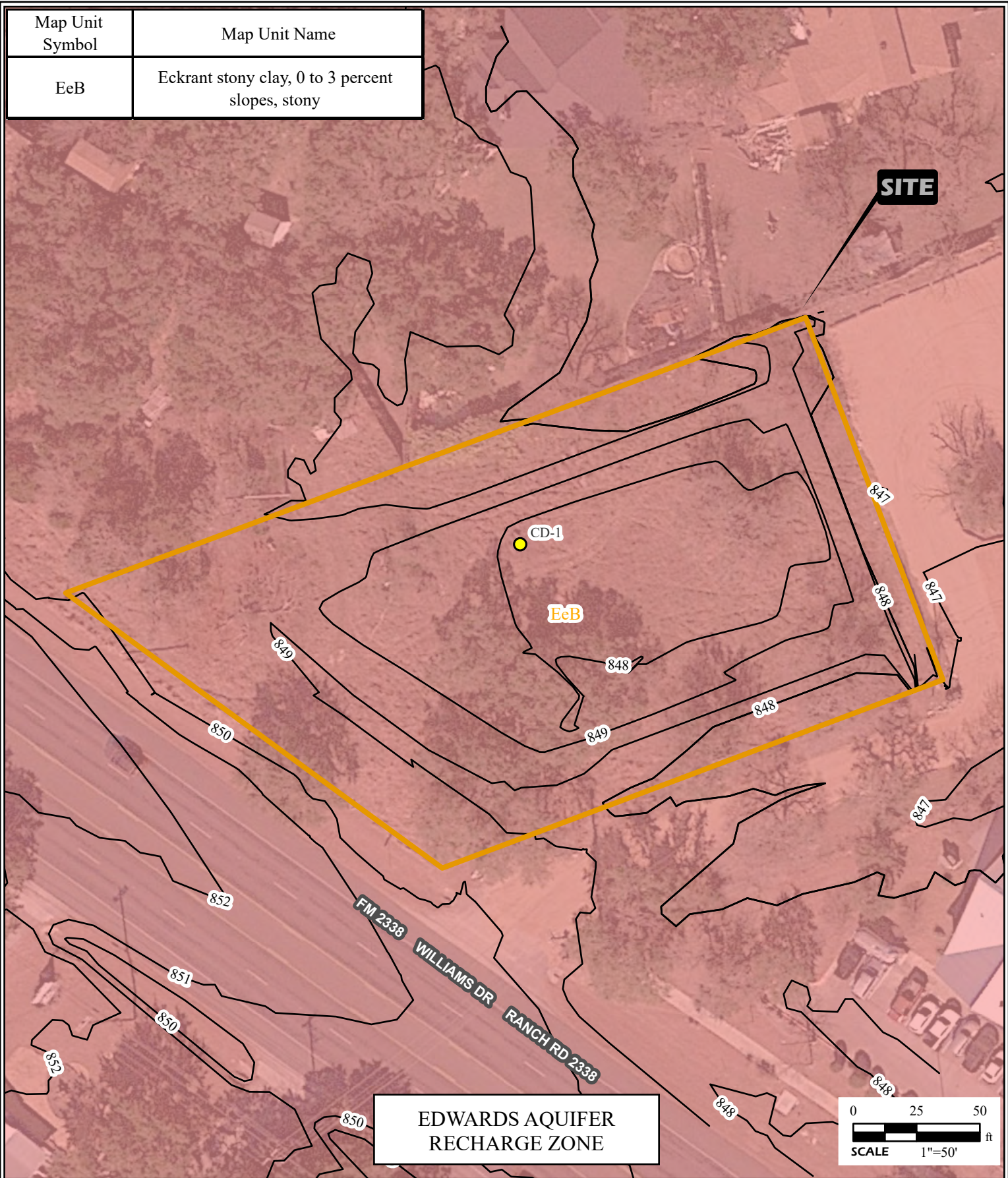



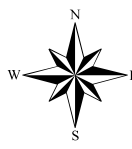




**EDWARDS AQUIFER  
RECHARGE ZONE**

	PROJECT NAME			GENERAL NOTES/LEGEND		 <b>FIGURE</b> <b>2</b>
	VELOCITY TIRE GEORGETOWN GEORGETOWN, TEXAS			 Edwards Limestone (Ked)		
	GEOLOGICAL FORMATION MAP			AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH 01/2022. GEOLOGIC FORMATION: <a href="https://txpub.usgs.gov/txgeology/">HTTPS://TXPUB.USGS.GOV/TXGEOLOGY/</a> DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.		
	DRAWN BY	ACV	DATE	JOB NUMBER		
	CHECKED BY	TSS	09/2023	2023-1178.1G		





	PROJECT NAME			<u>GENERAL NOTES/LEGEND</u>		
	VELOCITY TIRE GEORGETOWN GEORGETOWN, TEXAS			 Edwards Limestone (Ked)		
	GEOLOGICAL FORMATION MAP			 FEATURE LOCATION		
				AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH 01/2022. SOILS DATA OBTAINED FROM <a href="https://websoilsurvey.sc.egov.usda.gov/">HTTPS://WEBSOILSURVEY.SC.EGOV.USDA.GOV/</a> GEOLOGIC FORMATION: <a href="https://txpub.usgs.gov/txgeology/">HTTPS://TXPUB.USGS.GOV/TXGEOLOGY/</a> DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.		
DRAWN BY	ACV	DATE	JOB NUMBER			FIGURE 3
CHECKED BY	TSS	09/2023	2023-1178.1G			



# **Attachment E**



Photo 1. Southeast central side of site, facing north.



Photo 2. West corner of site, facing northeast.





Photo 3. Central site, facing north.



Photo 4. East side of CD-1, facing west.





Photo 5. CD-1, facing south.



Photo 6. North side of CD-1, facing south.





Photo 7. Tree stand understory with limestone stockpile.



Photo 8. Adjacent road, facing southeast.





Photo 9. Adjacent road, facing northwest.



Photo 10. South side of site, facing southwest.





Photo 11. East side of site, facing north.



Photo 12. West side of site, facing south.



# Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), 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.*

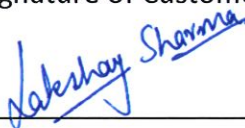
## Signature

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 **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: LAKSHAY SHARMA

Date: 09/05/2023

Signature of Customer/Agent:

  
\_\_\_\_\_

Regulated Entity Name: VELOCITY TIRE

## Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: \_\_\_\_\_
- ☐ Residential: Number of Living Unit Equivalents: \_\_\_\_\_
- ☒ Commercial
- ☐ Industrial
- ☐ Other: \_\_\_\_\_

2. Total site acreage (size of property): 0.92

3. Estimated projected population: 23

4. The amount and type of impervious cover expected after construction are shown below:



**Table 1 - Impervious Cover Table**

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	5,724	$\div 43,560 =$	0.13
Parking	18,375.26	$\div 43,560 =$	0.42
Other paved surfaces	2,880.54	$\div 43,560 =$	0.07
Total Impervious Cover	26,799.74	$\div 43,560 =$	0.615

**Total Impervious Cover 0.615  $\div$  Total Acreage 0.92 X 100 = 66.76% Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

### ***For Road Projects Only***

**Complete questions 7 - 12 if this application is exclusively for a road project.**

7. 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.

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

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: \_\_\_\_\_

9. Length of Right of Way (R.O.W.): \_\_\_\_\_ feet.

Width of R.O.W.: \_\_\_\_\_ feet.

$L \times W =$  \_\_\_\_\_  $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$  \_\_\_\_\_ acres.

10. Length of pavement area: \_\_\_\_\_ feet.

Width of pavement area: \_\_\_\_\_ feet.

$L \times W =$  \_\_\_\_\_  $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$  \_\_\_\_\_ acres.

Pavement area \_\_\_\_\_ acres  $\div$  R.O.W. area \_\_\_\_\_ acres  $\times 100 =$  \_\_\_\_\_ % impervious cover.

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

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

12. ☐ 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***

13. ☒ **Attachment B - 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 the 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***

14. The character and volume of wastewater is shown below:

<u>100</u> % Domestic	<u>788</u> Gallons/day
<u>      </u> % Industrial	<u>      </u> Gallons/day
<u>      </u> % Commingled	<u>      </u> Gallons/day
TOTAL gallons/day <u>788</u>	

15. Wastewater will be disposed of by:

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

☐ **Attachment C - 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):

☐ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.

☐ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

☐ The SCS was previously submitted on\_\_\_\_\_.

☐ The SCS was submitted with this application.

☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

☒ The sewage collection system will convey the wastewater to the \_\_\_\_\_ (name) Treatment Plant. The treatment facility is:

☒ Existing.

☐ Proposed.

16. ☒ All private service laterals will be inspected as required in 30 TAC §213.5.

## **Site Plan Requirements**

*Items 17 – 28 must be included on the Site Plan.*

17. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 20'.

18. 100-year floodplain boundaries:

☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

☒ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): \_\_\_\_\_

19. ☒ 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, open space, etc. are shown on the plan.

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

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☐ There are \_\_\_\_\_ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.

☐ The wells are not in use and will be properly abandoned.

☐ The wells are in use and comply with 16 TAC §76.

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

21. Geologic or manmade features which are on the site:

☐ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

☒ No sensitive geologic or manmade features were identified in the Geologic Assessment.

☐ **Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. ☒ Areas of soil disturbance and areas which will not be disturbed.
- 24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. ☒ Locations where soil stabilization practices are expected to occur.
- 26. ☐ Surface waters (including wetlands).
  - ☒ N/A
- 27. ☐ Locations where stormwater discharges to surface water or sensitive features are to occur.
  - ☒ There will be no discharges to surface water or sensitive features.
- 28. ☒ Legal boundaries of the site are shown.

### ***Administrative Information***

- 29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

## **WATER POLLUTION ABATEMENT PLAN APPLICATION**

Attachments to form TCEQ-0584

### **ATTACHMENT A**

There are several factors that could affect surface and ground water quality. During construction, fuels and hazardous substances could spill. These spills shall be contained on-site and immediately cleaned up and properly discarded. Any spills or discharges of oil, petroleum products and used oil onto land having a volume greater than 25 gallons also, spills or discharges directly into waters of the state having a quantity sufficient enough to create a sheen, shall be reported immediately to TCEQ at (512) 339-2929 or the State Emergency Response Center at 1-800-832-8224. There are no significant factors proposed which could affect surface and ground water quality relating to the permanent use of the facility.

### **ATTACHMENT B**

The character of the storm water leaving the site shall be filtered and all pollutants will remain onsite. The Permanent BMPs (Jellyfish Units) shall will filter first flush of runoff from the proposed impervious cover. The outflow from these water quality BMPs will be daylighted after being released from the downstream underground detention system.

### **ATTACHMENT C**

Attachment C is not required. (Sustainability Letter for OSSF/Septic Tank)

### **ATTACHMENT D**

The Geologic Assessment report is attached for this site.

# 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.*

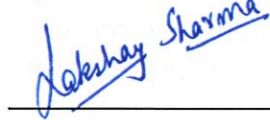
## Signature

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: LAKSHAY SHARMA

Date: 09/05/2023

Signature of Customer/Agent:



Regulated Entity Name: VELOCITY TIRE

## 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: N/A

### ***Temporary Best Management Practices (TBMPs)***

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

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

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



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

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

☒ N/A

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

## ***Soil Stabilization Practices***

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

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

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

### ***Administrative Information***

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



## **TEMPORARY STORWATER SECTION**

Attachments to form TCEQ-0602

### **ATTACHMENT A**

There are several factors that could affect surface and ground water quality. During construction, fuels and hazardous substances could spill. These spills shall be contained on-site and immediately cleaned up and properly discarded. Any spills or discharges of oil, petroleum products and used oil onto land having a volume greater than 25 gallons, and spills or discharges directly into waters of the state having a quantity sufficient enough to create a sheen, shall be reported immediately to TCEQ at (512) 339-2929 or the State Emergency Response Center at 1-800-832-8224. There are no significant factors proposed which could affect surface and ground water quality relating to the permanent use of the facility.

### **ATTACHMENT B**

Potential Sources of Contamination:

1. Soil disturbance during construction.
2. Hydrocarbon-based fluids from Construction Equipment.
3. Landscaping – Fertilizer and Pesticides.

### **ATTACHMENT C**

Sequence of major activities for each phase is as follows:

1. The installation of Erosion/Sedimentation Controls – 0.05 Ac. Disturbed
2. Clearing, grubbing, and removal of topsoil from entire site – 1.173 Ac. Disturbed
3. Rough grading and building pad excavation – 1.173 Ac. Disturbed
4. Excavating for utilities – 0.29 Ac. Disturbed
5. Finish grading and landscaping – 1.173 Ac. Disturbed

### **ATTACHMENT D**

The Temporary Best Management Practices (TBMP) for this project will consist of:

1. A stabilized construction entrance.
2. Silt fencing and rock berms around down gradient boundary of site.

All TBMP's will be in place prior to any regulated activities commencing. The stabilized construction entrance will remove excess spoils from construction vehicles leaving the site. The silt fencing will collect silt runoff and debris during construction activities. These controls will be maintained during construction and will remain until after all construction activities are complete and permanent re-vegetation is established.

### **ATTACHMENT F**

Due to the limited area of the site, the silt fence will provide control to retain any runoff from the exposed site.

### **ATTACHMENT G**

Refer to the drawings, sheet PDA

## **TEMPORARY STORWATER SECTION**

Attachments to form TCEQ-0602

### **ATTACHMENT H**

The total site area is 0.92 acres and will not require a temporary sediment pond.

### **ATTACHMENT I**

The contractor is required to inspect all of the erosion and sediment controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches. Records described in the SWPPP must be retained on site for 5 years beyond the date of the cover letter notifying the facility of coverage under a storm water permit, and shall be made available to the state or federal compliance inspection officer upon request. Additionally, employee training records and waste and recycling receipts or vouchers shall also be maintained.

### **ATTACHMENT J**

Schedule of Interim Soil Stabilization Practices:

1. Erosion and sediment control measures including perimeter sediment controls must be in place before vegetation is disturbed and must remain in place and be maintained and repaired.
2. Temporary stabilization or covering of soil stockpiles and protection of stockpile located away from construction activity must be maintained
3. Should construction activities cease for fifteen (15) days or more on any significant portion of the construction site, temporary stabilization is required for that portion of the site to prevent soil and wind erosion until work resumes on that portion of the site.
4. Should all construction activities cease for thirty days or more, the entire site must be temporarily stabilized using vegetation or a heavy mulch layer, temporary seeding or other method.

Schedule of Permanent Soil Stabilization Practices:

1. Stabilized any unpaved area that is final grade or remain unpaved for the next two weeks. Permanent stabilization may consist of sodding, seeding, or mulching that must be maintained to prevent erosion from the site until re-vegetation has achieved 70% coverage
2. Once construction is complete, remove all the pollution prevention measures that were temporary.

# Permanent 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)(C), (D)(ii), (E), and (5), 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.*

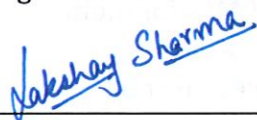
## Signature

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 **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: LAKSHAY SHARMA

Date: 09-25-2023

Signature of Customer/Agent



Regulated Entity Name: VELOCITY TIRE

## Permanent Best Management Practices (BMPs)

*Permanent best management practices and measures that will be used during and after construction is completed.*

1. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.  
☐ N/A
2. ☒ 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

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

☐ N/A

4. 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.

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

☐ **Attachment A - 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.

6. ☒ **Attachment B - 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.
7. ☒ **Attachment C - 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.
8. ☒ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☐ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
  - ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☒ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☒ Design calculations (TSS removal calculations)
  - ☒ TCEQ construction notes
  - ☐ All geologic features
  - ☐ All proposed structural BMP(s) plans and specifications
- ☐ N/A



11. ☒ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
  - ☒ Signed by the owner or responsible party
  - ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
  - ☐ A discussion of record keeping procedures
- ☐ N/A
12. ☐ **Attachment H - 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
13. ☐ **Attachment I -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 results in water quality degradation.
- ☒ N/A

### ***Responsibility for Maintenance of Permanent BMP(s)***

***Responsibility for maintenance of best management practices and measures after construction is complete.***

14. ☒ 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.
- ☐ N/A
15. ☒ 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.
- ☐ N/A

## **PERMANENT STORMWATER SECTION**

Attachments to form TCEQ-0600

### **ATTACHMENT A**

The site is a commercial site with more than 20% impervious cover.

### **ATTACHMENT B**

Water quality will be provided by two (2) Jellyfish unit BMPs. Please refer to Sheet C30. There are two up-gradient drainage areas that will bypass the site drainage areas.

### **ATTACHMENT C**

Two (2) Jellyfish units will be used to prevent pollution of surface water or groundwater originating on-site.

### **ATTACHMENT D**

There are no surface streams, sensitive features or aquifer entrance points on this site. The two (2) Jellyfish units will significantly reduce the pollutants being released downstream of the site.

### **ATTACHMENT E**

This attachment is not needed. (Request to Seal Features)

### **ATTACHMENT F**

See attached drawings. (Construction Plans)

### **ATTACHMENT G**

See the attached maintenance plan for the Jellyfish units. (TCEQ-0589).

### **ATTACHMENT H**

This attachment is not needed. (Pilot-Scale Field Testing Plan)

### **ATTACHMENT I**

All flows from the site will be conveyed through proposed BMPs to an on-site underground detention facility. There will be no increase in the flows as demonstrated in the calculations in the plan sheets.

## JELLYFISH SYSTEM MAINTENANCE PLAN RESTRICTIVE COVENANT

OWNER: VELO LAND HOLDINGS, LLC

PROPERTY (legal description): LOT 1, LANDGRAF SUBDIVISION, 0.92 ACRES

PROPERTY ADDRESS: 4229 WILLIAMS DRIVE GEORGETOWN, TX 78626

PROJECT NAME: VELOCITY TIRE

WHEREAS, the Owner of the Property and the City of Round Rock, Texas have agreed that the Property should be impressed with certain covenants and restrictions;

NOW, THEREFORE, Owner hereby declares that the Property shall be subject to the following covenants and restrictions hereby imposed upon the Property by this Pond Maintenance Plan Restrictive Covenant (the "Restrictive Covenant"). This Restrictive Covenant shall run with the land, and shall be binding on the Owner of the Property, its heirs, successors and assigns.

### Detention Pond Maintenance:

The Owner shall be responsible for the inspection, maintenance, and repair of the detention ponds located on the Property shown on Exhibit "A" attached hereto (the "Jellyfish System") and shall keep the Jellyfish System in good condition and repair.

Owner shall perform, or cause to be performed, the following with respects to the Jellyfish System.

1. Structural Repairs and Replacement. With each inspection, any damage to structural elements of the Jellyfish System (pipes, concrete drainage structures, retaining walls, etc.) shall be identified and repaired. Owner shall maintain a written record of inspection results and corrective measures taken.
2. Discharge Pipe. The Jellyfish discharge pipes shall be inspected for accumulation of silt, debris or other obstructions which could block flow. Soil accumulations, vegetative overgrowth and other blockages should be cleared from the pipe discharge point as necessary. Owner shall maintain a written record of inspection findings and corrective actions performed.
3. Guardrails. Any handrails shall be inspected for damage and structural integrity. Damage to guard shall be promptly repaired. Owner shall maintain a written record of inspection findings and corrective actions performed.
4. Recordkeeping Procedures for Inspections, Maintenance and Repairs. Written records of inspection findings and corrective actions required above shall be retained by Owner for no less than five (5) years.

The Best Management Practice for water quality control is a Contech Jellyfish System. The system includes a concrete splitter box for peak flow diversion of 100 year storm flows. The jellyfish system is a proprietary system. The maintenance of the Jellyfish system is to be in strict accordance with the attached "Jellyfish Filter Maintenance Guide" (the "Guide"). The "Guide" shall be permanent attached as a part of this Maintenance Plan and any updates or modifications to the "Guide" shall be fully incorporate into this Plan.

#### GENERAL MAINTENANCE FOR SUPPORTING STRUCTURES AND SURROUNDING AREAS:

- Monthly: The vegetative growth around the structures shall be checked. The growth shall not exceed 18 inches in height. Remove debris and litter and any obstructions along trails which would prohibit the flow of storm water onto the adjacent grass. Remove all debris and accumulated sediment within the splitter when the depth reaches 6".
- Quarterly: Inspect for erosion or damage to structures. The ground surface shall have uniform grass cover, no debris, litter, or obstructions. Bare spots and areas of erosion shall be reseeded and restored to complete coverage and density.
- After Rainfall: Fill and level eroded areas with topsoil and reseed and restore. Remove any debris, obstructions or litter from splitter boxes or manholes.

[See next page for signatures]

Executed effective the 29 day of September, 2023.

OWNER: [Signature]

By: Devin Roberson

TITLE Developing Manager

ADDRESS

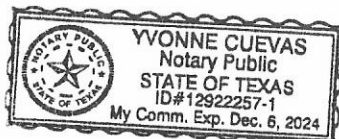
STATE OF Texas §

COUNTY OF Tom Green §

Before me, the undersigned notary, on this day personally appeared Devin Roberson and N/A, the Developing manager and N/A, respectively, of Velo Land Holdings limited partnership, known to me through valid identification to be the persons whose names are subscribed to the preceding instrument and acknowledged to me that the person executed the instrument in the persons' official capacities for the purposes and consideration expressed in the instrument.

Given under my hand and seal of office on September 29, 2023

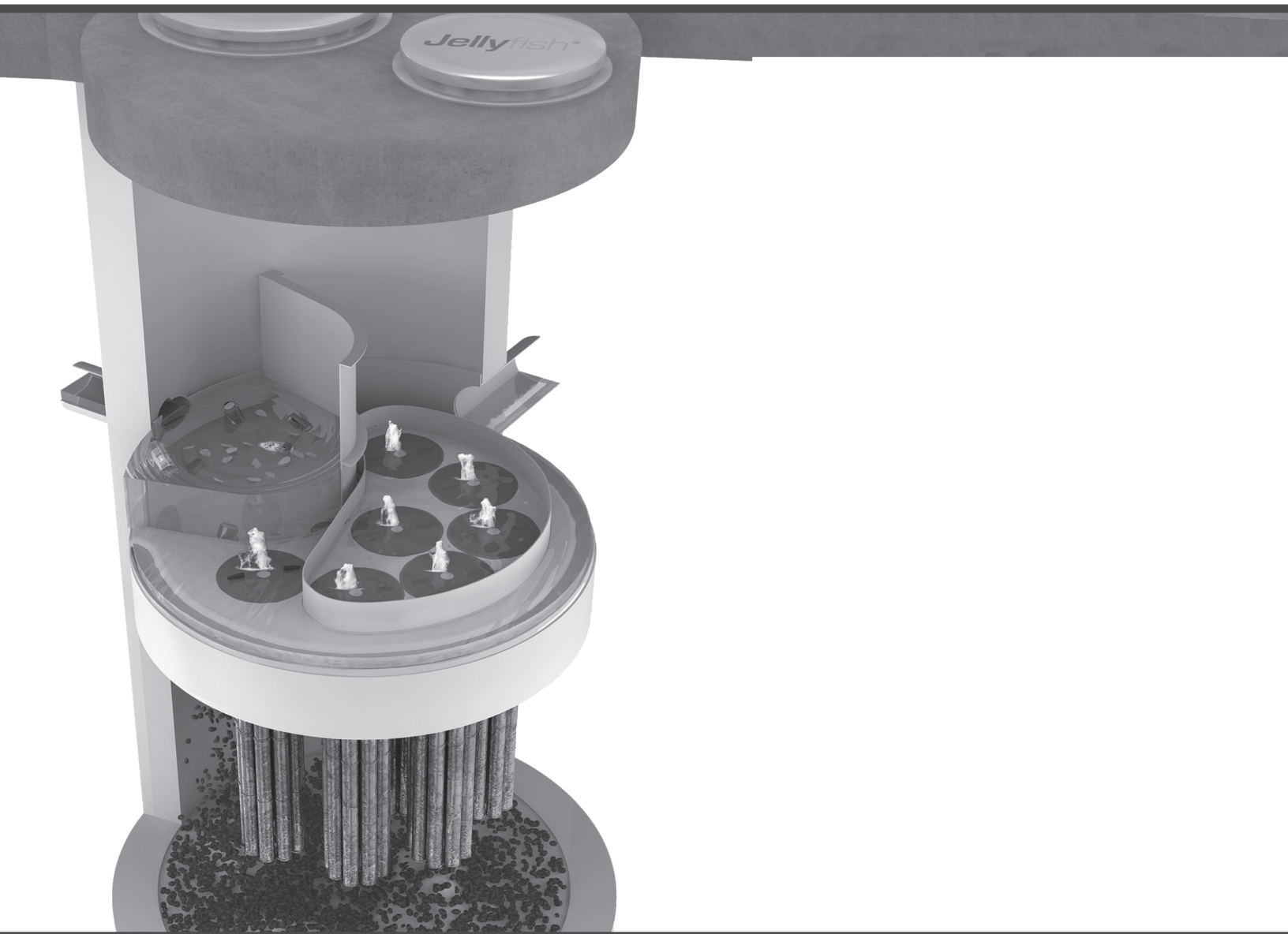
[SEAL]



Yvonne Cuevas  
Notary Public, State of Texas



## JellyFish<sup>®</sup> Filter Maintenance Guide





## JELLYFISH® FILTER MANHOLE CONFIGURATIONS INSPECTION & MAINTENANCE GUIDE

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## 1.0 Inspection and Maintenance Overview

The primary purpose of the Jellyfish® Filter is to capture and remove pollutants from stormwater runoff. As with any filtration system, these pollutants must be removed to maintain the filter's maximum treatment performance. Regular inspection and maintenance are required to insure proper functioning of the system.

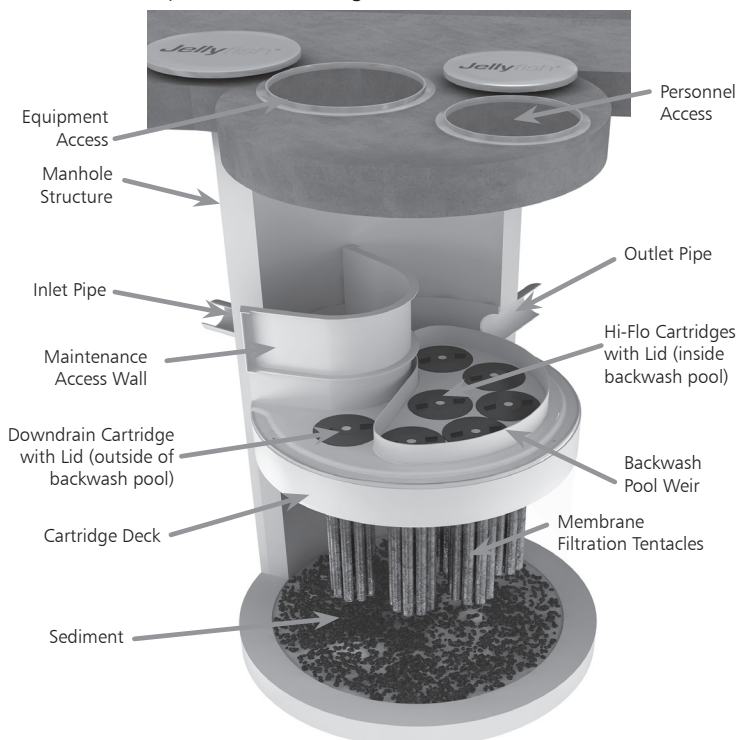
Maintenance frequencies and requirements are site specific and vary depending on pollutant loading. Additional maintenance activities may be required in the event of non-storm event runoff, such as base-flow or seasonal flow, an upstream chemical spill or due to excessive sediment loading from site erosion or extreme runoff events. It is a good practice to inspect the system after major storm events.

Inspection activities are typically conducted from surface observations and include:

- Observe if standing water is present
- Observe if there is any physical damage to the deck or cartridge lids
- Observe the amount of debris in the Maintenance Access Wall (MAW)

Maintenance activities typically include:

- Removal of oil, floatable trash and debris
- Removal of collected sediments
- Rinsing and re-installing the filter cartridges
- Replace filter cartridge tentacles, as needed



Note: Separator Skirt not shown

## 2.0 Inspection Timing

Inspection of the Jellyfish Filter is key in determining the maintenance requirements for, and to develop a history of the site's pollutant loading characteristics. In general, inspections should be performed at the times indicated below; *or per the approved project stormwater quality documents (if applicable), whichever is more frequent.*

1. Post-construction inspection is required prior to putting the Jellyfish Filter into service. All construction debris or construction-related sediment within the device must be removed, and any damage to system components repaired, before installing the filter cartridges.
2. A minimum of two inspections during the first year of operation to assess the sediment and floatable pollutant accumulation, and to ensure proper functioning of the system.
3. Inspection frequency in subsequent years is based on the inspection and maintenance plan developed in the first year of operation. Minimum frequency should be once per year.
4. Inspection is recommended after each major storm event.
5. Inspection is required immediately after an upstream oil, fuel or other chemical spill.

## 3.0 Inspection Procedure

The following procedure is recommended when performing inspections:

1. Provide traffic control measures as necessary.
2. Inspect the MAW for floatable pollutants such as trash, debris, and oil sheen.
3. Measure oil and sediment depth in several locations, by lowering a sediment probe through the MAW opening until contact is made with the floor of the structure. Record sediment depth, and presences of any oil layers.
4. Inspect cartridge lids. Missing or damaged cartridge lids to be replaced.
5. Inspect the MAW, cartridge deck, and backwash pool weir, for cracks or broken components. If damaged, repair is required.

### 3.1 Dry weather inspections

- Inspect the cartridge deck for standing water, and/or sediment on the deck.
- No standing water under normal operating conditions.
- Standing water inside the backwash pool, but not outside the backwash pool indicates that the filter cartridges need to be rinsed.



Inspection Utilizing Sediment Probe

- Standing water outside the backwash pool may indicate a backwater condition caused by high water elevation in the receiving water body, or possibly a blockage in downstream infrastructure.
- Any appreciable sediment ( $\geq 1/16"$ ) accumulated on the deck surface should be removed.

### 3.2 Wet weather inspections

- Observe the rate and movement of water in the unit. Note the depth of water above deck elevation within the MAW.
- Less than 6 inches, flow should be exiting the cartridge lids of each of the draindown cartridges (i.e. cartridges located outside the backwash pool).
- Greater than 6 inches, flow should be exiting the cartridge lids of each of the draindown cartridges and each of the hi-flo cartridges (i.e. cartridges located inside the backwash pool), and water should be overflowing the backwash pool weir.
- 18 inches or greater and relatively little flow is exiting the cartridge lids and outlet pipe, this condition indicates that the filter cartridges are occluded with sediment and need to be rinsed

## 4.0 Maintenance Requirements

Required maintenance for the Jellyfish Filter is based upon results of the most recent inspection, historical maintenance records, or the site specific water quality management plan; whichever is more frequent. In general, maintenance requires some combination of the following:

1. Sediment removal for depths reaching 12 inches or greater, or within 3 years of the most recent sediment cleaning, whichever occurs sooner.
2. Floatable trash, debris, and oil removal.
3. Deck cleaned and free from sediment.
4. Filter cartridges rinsed and re-installed as required by the most recent inspection results, or within 12 months of the most recent filter rinsing, whichever occurs sooner.
5. Replace tentacles if rinsing does not restore adequate hydraulic capacity, remove accumulated sediment, or if damaged or missing. It is recommended that tentacles should remain in service no longer than 5 years before replacement.
6. Damaged or missing cartridge deck components must be repaired or replaced as indicated by results of the most recent inspection.
7. The unit must be cleaned out and filter cartridges inspected immediately after an upstream oil, fuel, or chemical spill. Filter cartridge tentacles should be replaced if damaged or compromised by the spill.

## 5.0 Maintenance Procedure

The following procedures are recommended when maintaining the Jellyfish Filter:

1. Provide traffic control measures as necessary.
2. Open all covers and hatches. Use ventilation equipment as required, according to confined space entry procedures.
3. Caution: Dropping objects onto the cartridge deck may cause damage.

4. Perform Inspection Procedure prior to maintenance activity.
5. To access the cartridge deck for filter cartridge service, descend the ladder and step directly onto the deck. Caution: Do not step onto the maintenance access wall (MAW) or backwash pool weir, as damage may result. Note that the cartridge deck may be slippery.
6. Maximum weight of maintenance crew and equipment on the cartridge deck not to exceed 450 lbs.

### 5.1 Filter Cartridge Removal

1. Remove a cartridge lid.
2. Remove cartridges from the deck using the lifting loops in the cartridge head plate. Rope or a lifting device (available from Contech) should be used. Caution: Should a snag occur, do not force the cartridge upward as damage to the tentacles may result. Wet cartridges typically weigh between 100 and 125 lbs.
3. Replace and secure the cartridge lid on the exposed empty receptacle as a safety precaution. Contech does not recommend exposing more than one empty cartridge receptacle at a time.

### 5.2 Filter Cartridge Rinsing

1. Remove all 11 tentacles from the cartridge head plate. Take care not to damage or break the plastic threaded nut or connector.
2. Position tentacles in a container (or over the MAW), with the



*Cartridge Removal & Lifting Device*



threaded connector (open end) facing down, so rinse water is flushed through the membrane and captured in the container.

3. Using the Jellyfish rinse tool (available from Contech) or a low-pressure garden hose sprayer, direct water spray onto the tentacle membrane, sweeping from top to bottom along the length of the tentacle. Rinse until all sediment is removed from the membrane. Caution: Do not use a high pressure sprayer or focused stream of water on the membrane. Excessive water pressure may damage the membrane.



4. Collected rinse water is typically removed by vacuum hose.
5. Reattach tentacles to cartridge head plate. Reuse O-rings and nuts, ensuring proper placement on each tentacle.

### 5.3 Cleaning Procedure

1. Perform vacuum cleaning of the Jellyfish Filter only after filter cartridges have been removed from the system. Access the lower chamber for vacuum cleaning only through the maintenance access wall (MAW) opening, being careful not to damage the flexible plastic separator skirt that is attached to the underside of the deck. The separator skirt surrounds the filter cartridge zone, and could be torn if contacted by the wand. Do not lower the vacuum wand through a cartridge receptacle, as damage to the receptacle will result.
2. Vacuum floatable trash, debris, and oil, from the MAW opening. Alternatively, floatable solids may be removed by a net or skimmer.



*Tentacle Rinse Using Jellyfish Rinse Tool*

3. Pressure wash cartridge deck and receptacles to remove all sediment and debris. Sediment should be rinsed into the sump area. Take care not to flush rinse water into the outlet pipe.
4. Remove water from the sump area. Vacuum or pump equipment should only be introduced through the MAW.
5. Remove the sediment from the bottom of the unit through the MAW opening.



*Vacuuming Sump Through MAW*

6. For larger diameter Jellyfish Filter manholes ( $\geq 8$ -ft) and vaults without an MAW opening, complete sediment removal may be facilitated by removing a cartridge lid from an empty receptacle and inserting a jetting wand (not a vacuum wand) through the receptacle. Use the sprayer to rinse loosened sediment toward the vacuum hose in the MAW opening, being careful not to damage the receptacle.

7. After the unit is clean, re-fill the lower chamber with water if required by the local jurisdiction, and re-install filter cartridges.
8. Dispose of sediment, floatable trash and debris, oil, spent tentacles, and water according to local regulatory requirements.

### 5.4 Filter Cartridge Replacement

1. Cartridges should be installed after the deck has been cleaned. It is important that the receptacle surfaces be free from grit and debris.
2. If rinsing is ineffective in removing sediment from the tentacles, or if tentacles are damaged, provisions must be made to replace the spent or damaged tentacles with new tentacles. Contact Contech to order replacement tentacles.
3. Lower filter cartridge to the cartridge deck. Remove cartridge lid from deck and carefully lower the filter cartridge into the receptacle until head plate gasket is seated squarely in receptacle. Caution: Should a snag occur when lowering the cartridge into the receptacle, do not force the cartridge downward; damage may occur.
4. Replace the cartridge lid and check fit before completing rotation to a firm hand-tight attachment.

### 5.5 Chemical Spills

Caution: If a chemical spill has been captured, do not attempt maintenance. Immediately contact the local hazard response agency and contact Contech.

## 6.0 Related Maintenance Activities

Jellyfish units are often just one of many structures in a more comprehensive stormwater drainage and treatment system.

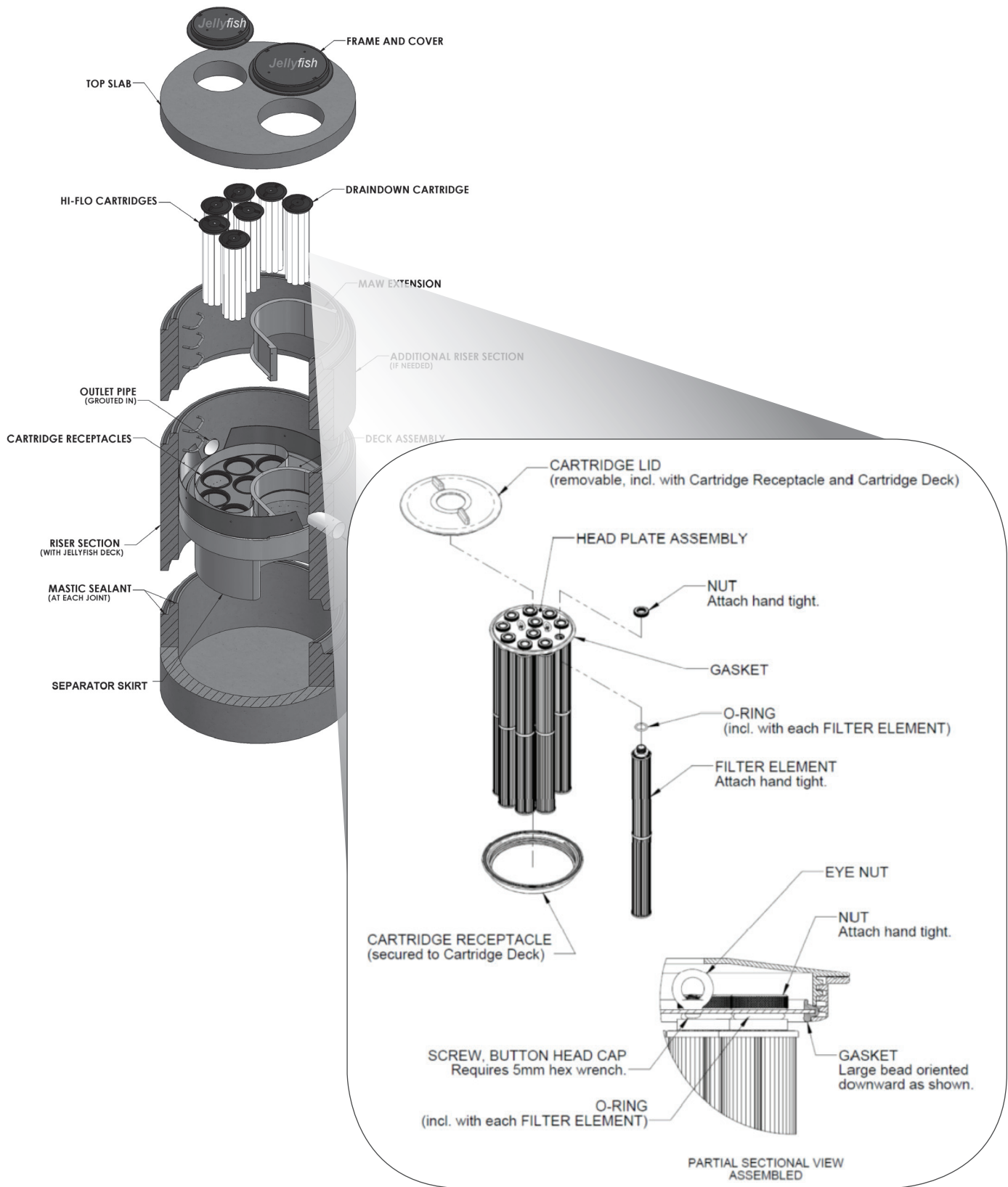
In order for maintenance of the Jellyfish filter to be successful, it is imperative that all other components be properly maintained. The maintenance and repair of upstream facilities should be carried out prior to Jellyfish maintenance activities.

In addition to considering upstream facilities, it is also important to correct any problems identified in the drainage area. Drainage area concerns may include: erosion problems, heavy oil loading, and discharges of inappropriate materials.

## 7.0 Material Disposal

The accumulated sediment found in stormwater treatment and conveyance systems must be handled and disposed of in accordance with regulatory protocols. It is possible for sediments to contain measurable concentrations of heavy metals and organic chemicals (such as pesticides and petroleum products). Areas with the greatest potential for high pollutant loading include industrial areas and heavily traveled roads. Sediments and water must be disposed of in accordance with all applicable waste disposal regulations. When scheduling maintenance, consideration must be made for the disposal of solid and liquid wastes. This typically requires coordination with a local landfill for solid waste disposal. For liquid waste disposal a number of options are available including a municipal vacuum truck decant facility, local waste water treatment plant or on-site treatment and discharge.

# Jellyfish Filter Components & Filter Cartridge



## Jellyfish Filter Inspection and Maintenance Log

Owner:		Jellyfish Model No:	
Location:		GPS Coordinates:	
Land Use:	Commercial:	Industrial:	Service Station:
	Roadway/Highway:	Airport:	Residential:

Date/Time:						
Inspector:						
Maintenance Contractor:						
Visible Oil Present: (Y/N)						
Oil Quantity Removed:						
Floatable Debris Present: (Y/N)						
Floatable Debris Removed: (Y/N)						
Water Depth in Backwash Pool						
Draindown Cartridges externally rinsed and recommissioned: (Y/N)						
New tentacles put on Cartridges: (Y/N)						
Hi-Flo Cartridges externally rinsed and recommissioned: (Y/N)						
New tentacles put on Hi-Flo Cartridges: (Y/N)						
Sediment Depth Measured: (Y/N)						
Sediment Depth (inches or mm):						
Sediment Removed: (Y/N)						
Cartridge Lids intact: (Y/N)						
Observed Damage:						
Comments:						





**Jellyfish®**

**CONTECH®**  
ENGINEERED SOLUTIONS

#### Support

- Drawings and specifications are available at [ContechES.com/jellyfish](http://ContechES.com/jellyfish).
- Site-specific design support is available from Contech Engineered Solutions.

800.338.1122  
[www.ContechES.com](http://www.ContechES.com)

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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater, wastewater treatment and earth stabilization products. For information on other Contech segment offerings, visit [ContechES.com](http://ContechES.com) or call 800.338.1122

NOTHING IN THIS CATALOG SHOULD BE CONSTRUED AS A WARRANTY. APPLICATIONS SUGGESTED HEREIN ARE DESCRIBED ONLY TO HELP READERS MAKE THEIR OWN EVALUATIONS AND DECISIONS, AND ARE NEITHER GUARANTEES NOR WARRANTIES OF SUITABILITY FOR ANY APPLICATION. CONTECH MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, RELATED TO THE APPLICATIONS, MATERIALS, COATINGS, OR PRODUCTS DISCUSSED HEREIN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY CONTECH. SEE CONTECH'S CONDITIONS OF SALE (AVAILABLE AT [WWW.CONTECHES.COM/COS](http://WWW.CONTECHES.COM/COS)) FOR MORE INFORMATION.

The product(s) described may be protected by one or more of the following US patents: 5,322,629; 5,624,576; 5,707,527; 5,759,415; 5,788,848; 5,985,157; 6,027,639; 6,350,374; 6,406,218; 6,641,720; 6,511,595; 6,649,048; 6,991,114; 6,998,038; 7,186,058; related foreign patents or other patents pending.



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

I \_\_\_\_\_ **DEVIN ROBERSON** \_\_\_\_\_  
Print Name

\_\_\_\_\_ Title - Owner/President/Other

of \_\_\_\_\_ **VELO LAND HOLDINGS LLC** \_\_\_\_\_  
Corporation/Partnership/Entity Name

have authorized \_\_\_\_\_ **TERRY R. HAGOOD** \_\_\_\_\_  
Print Name of Agent/Engineer

of \_\_\_\_\_ **HAGOOD ENGINEERING ASSOCIATES, INC.** \_\_\_\_\_  
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

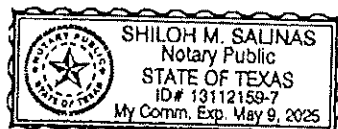
[Signature]  
Applicant's Signature

12/21/22  
Date

THE STATE OF TEXAS §  
County of Tam Green §

BEFORE ME, the undersigned authority, on this day personally appeared Devin Roberson 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 21 day of December, 2022.



[Signature]  
NOTARY PUBLIC  
Shiloh Salinas  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: May 9, 2025

# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: VELOCITY TIRE

Regulated Entity Location: 4229 WILLIAMS DRIVE GEORGETOWN, TEXAS 78628

Name of Customer: VELO LAND HOLDINGS LLC

Contact Person: DEVIN ROBERSON

Phone: 432.935.1014

Customer Reference Number (if issued): CN 606125409

Regulated Entity Reference Number (if issued): RN 111709994

### Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

### San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

### Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	.92 Acres	\$ 3,000.00
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: \_\_\_\_\_

*Nakshay Sharma*

Date: \_\_\_\_\_

*09/05/2023*

# Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

## ***Water Pollution Abatement Plans and Modifications***

### ***Contributing Zone Plans and Modifications***

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

### ***Organized Sewage Collection Systems and Modifications***

<b><i>Project</i></b>	<b><i>Cost per Linear Foot</i></b>	<b><i>Minimum Fee- Maximum Fee</i></b>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

### ***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

<b><i>Project</i></b>	<b><i>Cost per Tank or Piping System</i></b>	<b><i>Minimum Fee- Maximum Fee</i></b>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

### ***Exception Requests***

<b><i>Project</i></b>	<b><i>Fee</i></b>
Exception Request	\$500

### ***Extension of Time Requests***

<b><i>Project</i></b>	<b><i>Fee</i></b>
Extension of Time Request	\$150





TCEQ Use Only

# 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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606125409		RN 111709994

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information		<input type="checkbox"/> Change in Regulated Entity Ownership	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				If new Customer, enter previous Customer below:	
VELO LAND HOLDINGS LLC					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	
804196808		32080650024		87-2326173	
10. DUNS Number (if applicable)					
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
		<input type="checkbox"/> Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited			
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?			
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:					
15. Mailing Address:					
1610 STONEBRIDGE DRIVE					
City SAN ANGELO State TX ZIP 76904 ZIP + 4					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				DEVIN@VELOCITYTIREUSA.COM	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	
( 432 ) 935-1014		0		( 0 ) -	

## 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)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
<b>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.)</b>	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
VELOCITY TIRE	

23. Street Address of the Regulated Entity: (No PO Boxes)	4229 WILLIAMS DRIVE						
	City	GEORGETOWN	State	TX	ZIP	78628	ZIP + 4
24. County	WILLIAMSON						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	1585' NW OF THE INTERSECTION OF WILLIAMS DRIVE AND COUNTY RD						
26. Nearest City	GEORGETOWN				State	TX	Nearest ZIP Code
							78628
27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:				
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
30	40'46	48	97	42'38	42		
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)		
7534			441320				
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)							
TIRE REPAIR							
34. Mailing Address:	4229 WILLIAMS DRIVE						
	City	GEORGETOWN	State	TX	ZIP	78628	ZIP + 4
35. E-Mail Address:		DEVIN@VELOCITYTIREUSA.COM					
36. Telephone Number		37. Extension or Code		38. Fax Number (if applicable)			
( 432 ) 935-1014				( ) -			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

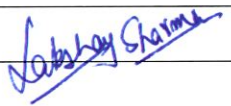
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

#### SECTION IV: Preparer Information

40. Name:	RAQUEL SAENZ		41. Title:	PROJECT ASSISTANT	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
( 512 ) 244-1546		( ) -	RAQUELR@HEAENG.COM		

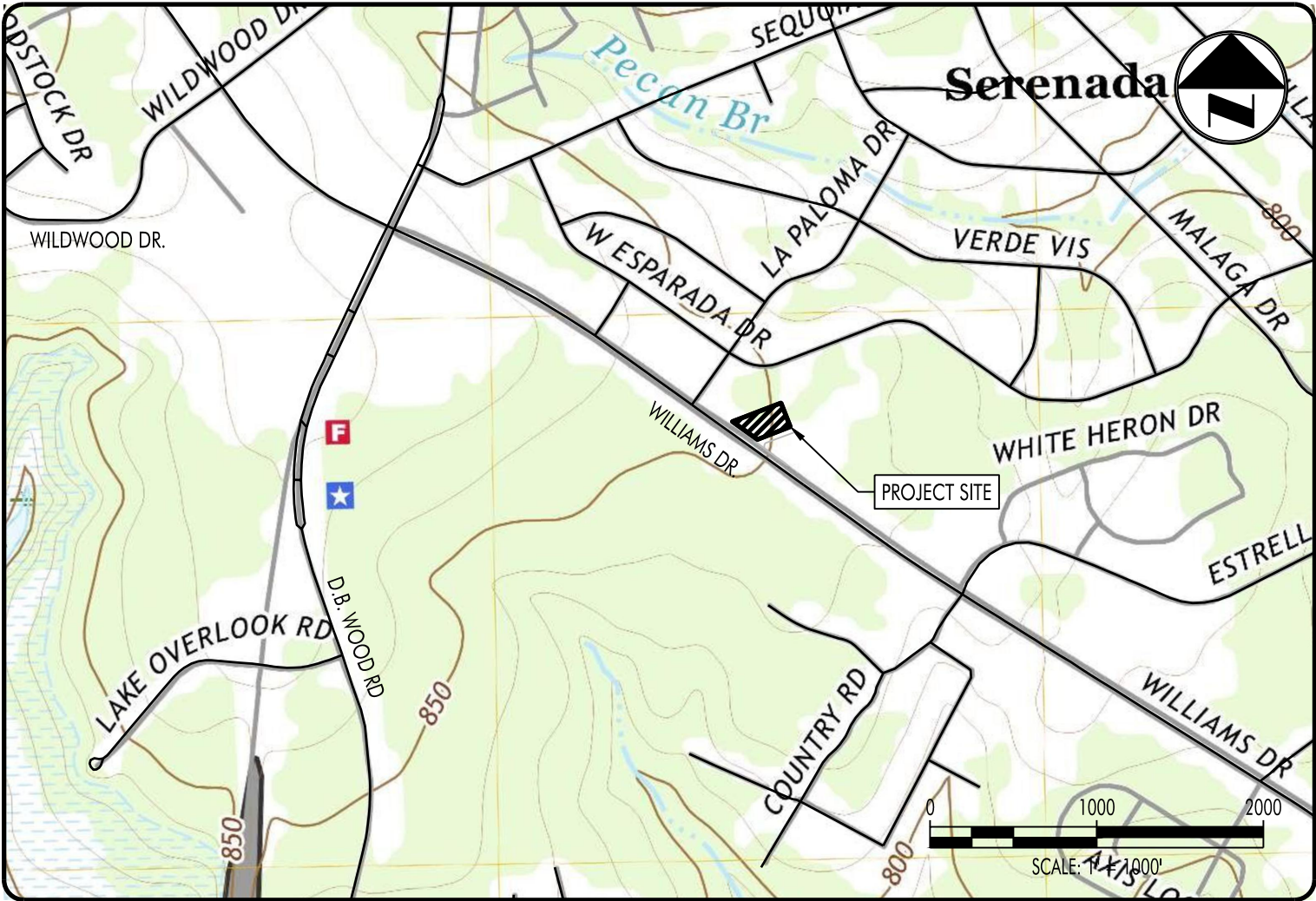
#### SECTION V: Authorized Signature

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:	HAGOOD ENGINEERING ASSOCIATES	Job Title:	PROJECT MANAGER
Name(In Print) :	LAKSHAY SHARMA	Phone:	( 512 ) 244-1546
Signature:		Date:	09/05/2023



SITE LOCATION MAP



BENCHMARKS

BM #500 - BRASS DISC MONUMENT FOUND (SEE SP1)  
ELEV = 849.26'

LEGAL DESCRIPTION

LOT 1, BLOCK 1, LANDGRAF SUBDIVISION, ACCORDING TO THE MAP OR PLAT THEREOF,  
RECORDED IN CABINET W, SLIDE 238, PLAT RECORDS, WILLIAMSON COUNTY, TEXAS

PLAN SUBMITTALS

NO.	DATE	COMMENTS
1	9/5/2023	SUBMITTAL TO CITY OF GEORGETOWN
2	10/24/2023	SUBMITTAL TO TCEQ (CC UPDATE 1)
3		
4		
5		
6		
7		
8		
9		
10		

NOTES:

- NO PORTION OF THE ABOVE LEGALLY DESCRIBED PROPERTY IS WITHIN THE DESIGNATED 1% ANNUAL CHANCE FLOODPLAIN AREA AS DESIGNATED BY F.E.M.A. FLOOD INSURANCE RATE MAP (FIRM) ON COMMUNITY PANEL NO. 48491C0290E, DATED SEPTEMBER 26, 2008 FOR THE CITY OF GEORGETOWN, WILLIAMSON COUNTY, TEXAS.
- THIS PROPERTY IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.
- SEE SHEET C00 FOR GENERAL NOTES.

SITE DEVELOPMENT PLANS

SUBMITTED FOR

VELOCITY TIRE - GEORGETOWN

4229 WILLIAMS DRIVE

GEORGETOWN, TX 78628

Sheet List Table

SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
01	CVR	COVER
02	SRV	SURVEY
03	PLAT	PLAT
04	PLAT	PLAT
05	SP	SITE PLAN
06	FPP	FIRE PROTECTION PLAN
07	EDA	EXISTING DRAINAGE AREA MAP
08	PDA	PROPOSED DRAINAGE AREA MAP
09	C00	GENERAL NOTES
10	C10	EROSION AND SEDIMENTATION CONTROL PLAN
11	C11	DEMOLITION PLAN
12	C20	UTILITY PLAN
13	C21	UTILITY PROFILES
14	C30	DRAINAGE PLAN
15	C31	STORM PROFILE & DETAILS
16	C32	CONTECH DETAIL
17	C40	GRADING PLAN
18	C41	WALL PROFILES
19	C50	DIMENSION CONTROL PLAN
20	C60	PAVING AND STRIPING PLAN
21	C70	GENERAL DETAILS
22	C71	EROSION AND STORM DETAILS
23	C72	UTILITY DETAILS
24	A1	ARCHITECTURAL DETAILS
25	LA0.00	LANDSCAPE NOTES
26	LA0.01	TREE SURVEY LIST & MITIGATION CHART
27	LA1.00	LANDSCAPE PLAN
28	LA5.01	LANDSCAPE NOTES & DETAILS

OWNER

VELOCITY TIRE

12404 SH 29

LIBERTY HILL, TEXAS 78624

DEVIN ROBERSON

(432) 935-1014

DEVIN@VELOCITYTIREUSA.COM

SURVEYOR

ALL COUNTY SURVEYING

4330 S. 5TH STREET

TEMPLE, TEXAS 76502

CHARLES C. LUCKO, RPLS

(512) 688-5485

INFO@ALLCOUNTYSURVEYING.COM

ENGINEER

HAGOOD ENGINEERING

ASSOCIATES, INC.

900 E. MAIN STREET

ROUND ROCK, TEXAS 78664

TERRY R. HAGOOD, P.E.

(512) 244-1546

TERRYH@HEAENG.COM

LANDSCAPE ARCHITECT

STUDIO 16:19

305 W. LIBERTY AVENUE

ROUND ROCK, TEXAS 78664

BRENT BAKER, PLA, ASLA

(512) 534-8680

BRENT@STUDIO1619.COM

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF GEORGETOWN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

STATE OF TEXAS



COUNTY OF WILLIAMSON



I, TERRY R. HAGOOD, DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE SUBDIVISION AND BUILDING REGULATION ORDINANCES AND STORM WATER DRAINAGE POLICY ADOPTED BY THE CITY OF GEORGETOWN, TEXAS.



*Terry R. Hagood*

10/24/2023

ACCEPTED FOR CONSTRUCTION BY:

Planning and Development Services  
City of Georgetown, Texas

Date

PROPOSED USE	RETAIL	
ZONING	C-3 - GENERAL COMMERCIAL	
AREA	40,144.45 S.F./0.92 AC.	
UTILITY PROVIDERS	WATER	COG
	WW	COG
	GAS	ATMOS
	ELEC	COG

SITE PLAN PERMIT NO. \_\_\_\_\_

RECORDED FINAL PLAT DOC. NO. CABINET W, SLIDE 238

IMPERVIOUS COVER	
PUBLIC SIDEWALK, STREET, CURB AND GUTTER	6,325.45 SF
BUILDING FOOTPRINT	5,724 SF
PARKING, PRIVATE SIDEWALK	20,178.1 SF
TOTAL SF	32,227.55 SF
TOTAL I.C. %	66.76%
TOTAL AREA OF DISTURBANCE (LOC)	50,067.85 SF



REVISIONS

NO.	DATE	DESCRIPTION	APPROVED BY
1			
2			
3			
4			
5			

 900 E. Main Street Round Rock, TX 78664 Phone (512) 244-1546 Fax (512) 244-1010 www.haeng.com TBE Registration No. F-12709 JOB NO. 22-033 © 2023 HEA, Inc.	JOB NO:	22-033
	DRAWN BY:	TA
	CHECKED BY:	TRH
	P.I.C.:	TRH
	FILE NO:	22-033 CVR
	DATE:	10/24/2023
	SHEET:	01 OF 28











Cabinet X

Slide 111

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
That I, Dr. David W. Loper, D.C., co-owner of the certain tract of land shown hereon and described in a deed recorded in a deed recorded in Document No. 2002069190, of the Official Records of Williamson County, Texas, do hereby amend said Lot as shown hereon, and do hereby consent to all plat note requirements shown hereon, and do hereby consent to the City of Georgetown to the dedication to the City of Georgetown the streets, alleys, rights-of-way, easements, and public places shown hereon for such public purposes as the City of Georgetown may deem appropriate. This subdivision is to be known as Loper-Seebock Subdivision. It is the responsibility of the owner, not the County, to assure compliance with the provisions of all applicable state, federal, and local laws and regulations relating to the environment, including (but not limited to) the Endangered Species Act, state Aquifer Regulations, and municipal watershed Ordinances.  
TO CERTIFY WHICH, WITNESS by my hand this 4th day of February, 2003.  
*David W. Loper*  
Dr. David W. Loper, D.C.  
5352 Williams Drive  
Georgetown, TX 78628

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
Before me, the undersigned authority, on this day personally appeared Dr. David W. Loper, D.C., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed in the capacity therein stated.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this 4th day of February, 2003, A.D.  
Notary Public in and for the State of Texas  
My Comm. Expires NOVEMBER 08, 2005

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
That I, Joyce Seebock, co-owner of the certain tract of land shown hereon and described in a deed recorded in Document No. 2002069190, of the Official Records of Williamson County, Texas, do hereby amend said Lot as shown hereon, and do hereby consent to all plat note requirements shown hereon, and do hereby consent to the City of Georgetown to the dedication to the City of Georgetown the streets, alleys, rights-of-way, easements, and public places shown hereon for such public purposes as the City of Georgetown may deem appropriate. This subdivision is to be known as Loper-Seebock Subdivision. It is the responsibility of the owner, not the County, to assure compliance with the provisions of all applicable state, federal, and local laws and regulations relating to the environment, including (but not limited to) the Endangered Species Act, state Aquifer Regulations, and municipal watershed Ordinances.

TO CERTIFY WHICH, WITNESS by my hand this 3 day of February, 2003.

*James L. Loper*  
James L. Loper  
5352 Williams Drive  
Georgetown, TX 78628

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
Before me, the undersigned authority, on this day personally appeared Janet L. Loper known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed in the capacity therein stated.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this 3 day of February, 2003, A.D.  
Notary Public in and for the State of Texas  
My Comm. Expires NOVEMBER 08, 2005

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
That I, Earl L. Watson, co-trustee of the Earl L. Watson and Myrtle L. Watson revocable living trust, described in a deed recorded in Document No. 2002069190, of the Official Records of Williamson County, Texas, do hereby consent to the amendment of said Lot as shown hereon, and do hereby consent to the City of Georgetown to the dedication to the City of Georgetown the streets, alleys, rights-of-way, easements, and public places shown hereon for such public purposes as the City of Georgetown may deem appropriate. This subdivision is to be known as Loper-Seebock Subdivision. It is the responsibility of the owner, not the County, to assure compliance with the provisions of all applicable state, federal, and local laws and regulations relating to the environment, including (but not limited to) the Endangered Species Act, state Aquifer Regulations, and municipal watershed Ordinances.  
TO CERTIFY WHICH, WITNESS by my hand this 31 day of January, 2003.  
*Earl L. Watson*  
Earl L. Watson  
124 Elderberry Street  
Georgetown, TX 78628

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
Before me, the undersigned authority, on this day personally appeared Earl L. Watson, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed in the capacity therein stated.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this 31 day of January, 2003, A.D.  
Notary Public in and for the State of Texas  
My Comm. Expires NOVEMBER 08, 2005

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
That I, Myrtle L. Watson, co-trustee of the Earl L. Watson and Myrtle L. Watson revocable living trust, described in a deed recorded in Document No. 2002069190, of the Official Records of Williamson County, Texas, do hereby consent to the amendment of said Lot as shown hereon, and do hereby consent to the City of Georgetown to the dedication to the City of Georgetown the streets, alleys, rights-of-way, easements, and public places shown hereon for such public purposes as the City of Georgetown may deem appropriate. This subdivision is to be known as Loper-Seebock Subdivision. It is the responsibility of the owner, not the County, to assure compliance with the provisions of all applicable state, federal, and local laws and regulations relating to the environment, including (but not limited to) the Endangered Species Act, state Aquifer Regulations, and municipal watershed Ordinances.

TO CERTIFY WHICH, WITNESS by my hand this 31 day of January, 2003.

*Myrtle L. Watson*  
Myrtle L. Watson  
124 Elderberry Street  
Georgetown, TX 78628

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
Before me, the undersigned authority, on this day personally appeared Myrtle L. Watson, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed in the capacity therein stated.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this 31 day of January, 2003, A.D.  
Notary Public in and for the State of Texas  
My Comm. Expires NOVEMBER 08, 2005

STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
That I, Joyce Seebock, owner of the certain tract of land shown hereon and described in a deed recorded in Document No. 2002069190, of the Official Records of Williamson County, Texas, do hereby state that there are no lien holders of the certain tract of land, and do hereby consent to all plat note requirements shown hereon, and do hereby consent to the City of Georgetown to the dedication to the City of Georgetown the streets, alleys, rights-of-way, easements, and public places shown hereon for such public purposes as the City of Georgetown may deem appropriate. This subdivision is to be known as Loper-Seebock Subdivision. It is the responsibility of the owner, not the County, to assure compliance with the provisions of all applicable state, federal, and local laws and regulations relating to the environment, including (but not limited to) the Endangered Species Act, state Aquifer Regulations, and municipal watershed Ordinances.  
TO CERTIFY WHICH, WITNESS by my hand this 31st day of January, 2003.  
*Joyce A. Seebock*  
Joyce Seebock  
4221 Williams Drive  
Georgetown, TX 78628

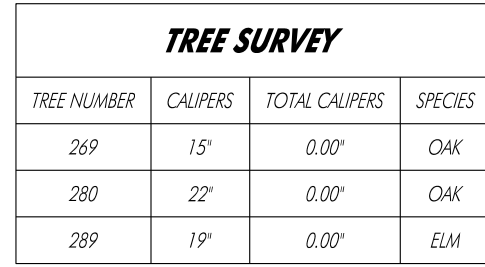
STATE OF TEXAS { KNOW ALL MEN BY THESE PRESENTS  
COUNTY OF WILLAMSON {  
Before me, the undersigned authority, on this day personally appeared Joyce Seebock, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed in the capacity therein stated.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this 31 day of January, 2003, A.D.  
Notary Public in and for the State of Texas  
My Comm. Expires NOVEMBER 08, 2005

PUBLIC REVIEW FINAL PLAT  
LOPER-SEEBOCK SUBDIVISION

A 3.957 ACRE SUBDIVISION LOCATED IN THE  
DAVID WRIGHT SURVEY, ABSTRACT No. 13  
CITY OF GEORGETOWN, WILLAMSON COUNTY, TEXAS

**S/B**  
**Steger & Bizzell Engineering, Inc.**  
Consulting Engineers  
1978 South Austin Avenue  
Georgetown, Texas 78626  
Telephone: (512) 208-9412  
Fax: (512) 208-9416  
DATE: SEPT., 2002 SHEET 3 of 3  
JOB No. 20078  
ALPHA/20078 LOPER/PLAT.DWG

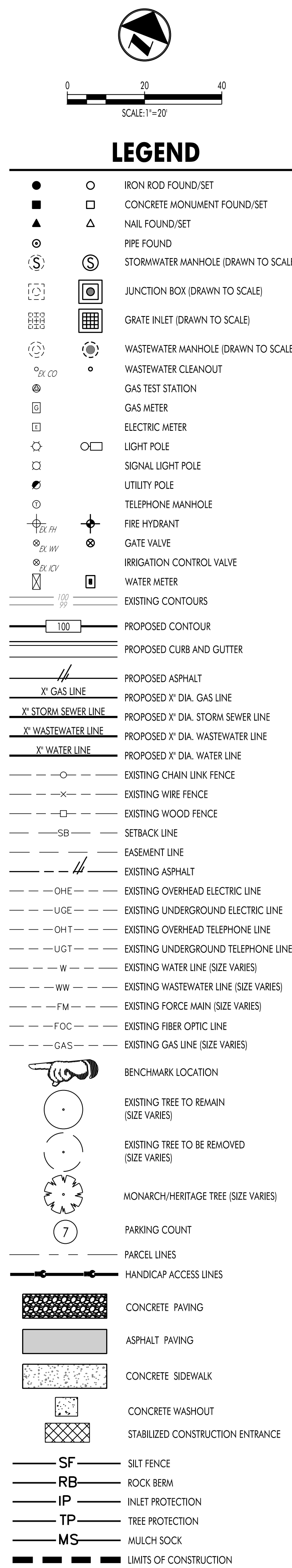
THIS SHEET IS FOR REFERENCE ONLY



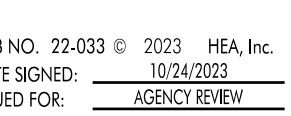
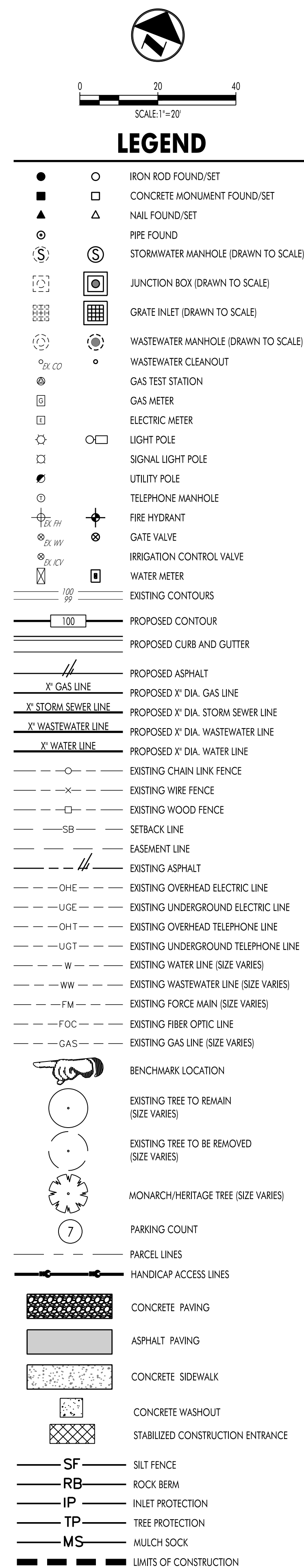
SITE SQ.FT. / ACREAGE	40,144.45 SF	0.921590 AC.
IMPERVIOUS COVER TOTAL SF / ACRE / %	26,799.74 SF / 0.62 ACRES / 66.76 %	
MAXIMUM ALLOWABLE	40.00%	
BUILDING FOOTPRINT	5,724.00 SF	
PARKING (SEC. 9.02.030 OF THE UDC)	TOTAL AVAILABLE	27
ZONING: C-3 - GENERAL COMMERCIAL	TOTAL REQ.	23
	ADA REQ.	1
	ADA AVAILABLE	1

**NOTES:**

1. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A SUBSURFACE UTILITY INVESTIGATION. CONTRACTOR TO VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO CARRY CONTINGENCY FOR UNFORESEEN CONDITIONS ARISING DUE TO EXISTING UTILITIES.

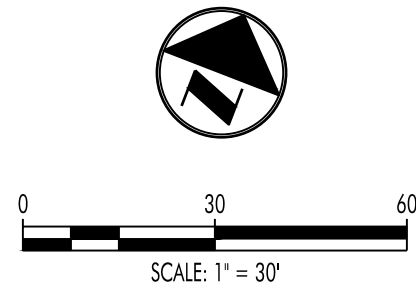
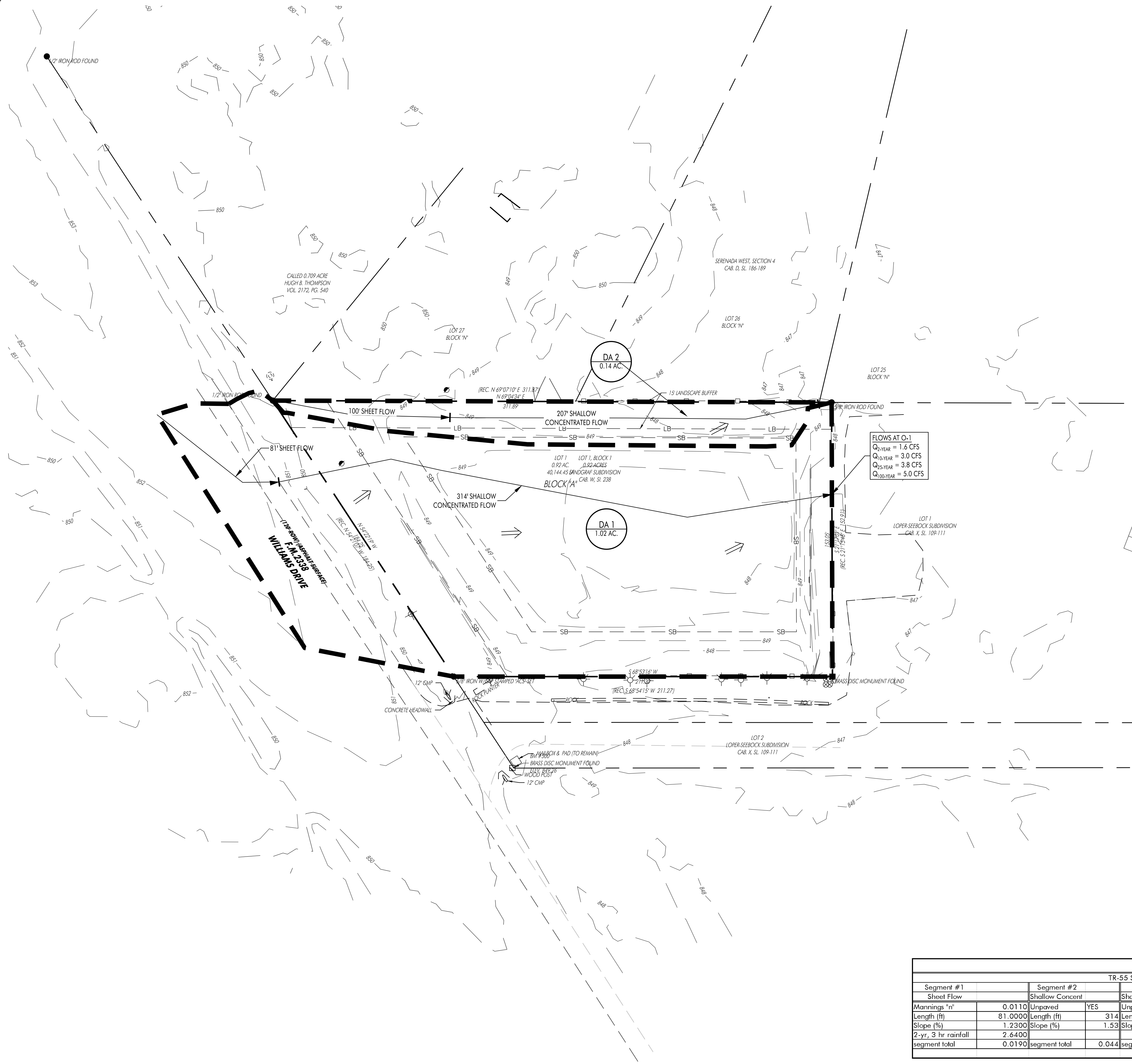






06





900 E. Main Street  
Round Rock, TX 78664  
Phone (512) 244-1546  
Fax (512) 244-1010  
www.heeng.com  
TBPB Registration No. F-12709

TERRY R. HAGOOD  
52960  
REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS  
AUTHORIZED BY TERRY R. HAGOOD, P.E.  
ON 10/24/2023.  
THIS DRAWING AND ALL CONTENT HEREON ARE THE PROPERTY OF HAGOOD ENGINEERING ASSOCIATE, P.C. AND  
SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION  
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JOB NO. 22-033 © 2023 HEA, Inc.  
DATE SIGNED: 10/24/2023  
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT PLANS FOR  
VELOCITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78628

HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1																				
TR-55 SCS Lag Time (hours)																				
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Flow Summary										
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100			
										acres	hours		cfs	cfs	cfs	cfs	cfs			
Mannings "n"	0.0110	Unpaved	YES	Unpaved		Mannings "n"	0.013	Mannings "n"	0.013	1.020	0.063	72	1.6	3	3.8	N/A	5			
Length (ft)	81.0000	Length (ft)	314	Length (ft)	0	Length (ft)	0	Length (ft)	0	Impervious Crr = 54.9%										
Slope (%)	1.2300	Slope (%)	1.53	Slope (%)	0.00	Slope (%)	0.00	Slope (%)	0.00											
2-yr, 3 hr rainfall	2.6400					Velocity (fps)	0	Velocity (fps)	0											
segment total	0.0190	segment total	0.044	segment total		segment total	0	segment total	0											
										time of conc.(hrs)		0.063		SCS Lag Time (.6 x Tc) =			0.0378 hours		2.3 minutes	

HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 2																			
TR-55 SCS Lag Time (hours)																			
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Flow Summary									
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		Area	Tc	Cn	Q2	Q10	Q25	Q50			
										acres	hours		cfs	cfs	cfs	cfs			
Mannings "n"	0.1300	Unpaved	YES	Unpaved		Mannings "n"	0.013	Mannings "n"	0.013	0.140	0.228	72	0.1	0.3	0.4	N/A			
Length (ft)	100.0000	Length (ft)	207	Length (ft)	0	Length (ft)	0	Length (ft)	0	Imperious Cvr = 54.9%									
Slope (%)	0.7500	Slope (%)	1.03	Slope (%)	0.00	Slope (%)	0.00	Slope (%)	0.00										
2-yr, 3 hr rainfall	2.6400					Velocity (fps)	0	Velocity (fps)	0										
segment total	0.1930	segment total	0.035	segment total		segment total	0	segment total	0										
										time of conc.(hrs)		0.228		SCS Lag Time (.6 x Tc) = 0.1368 hours				8.2 minutes	

REVISIONS

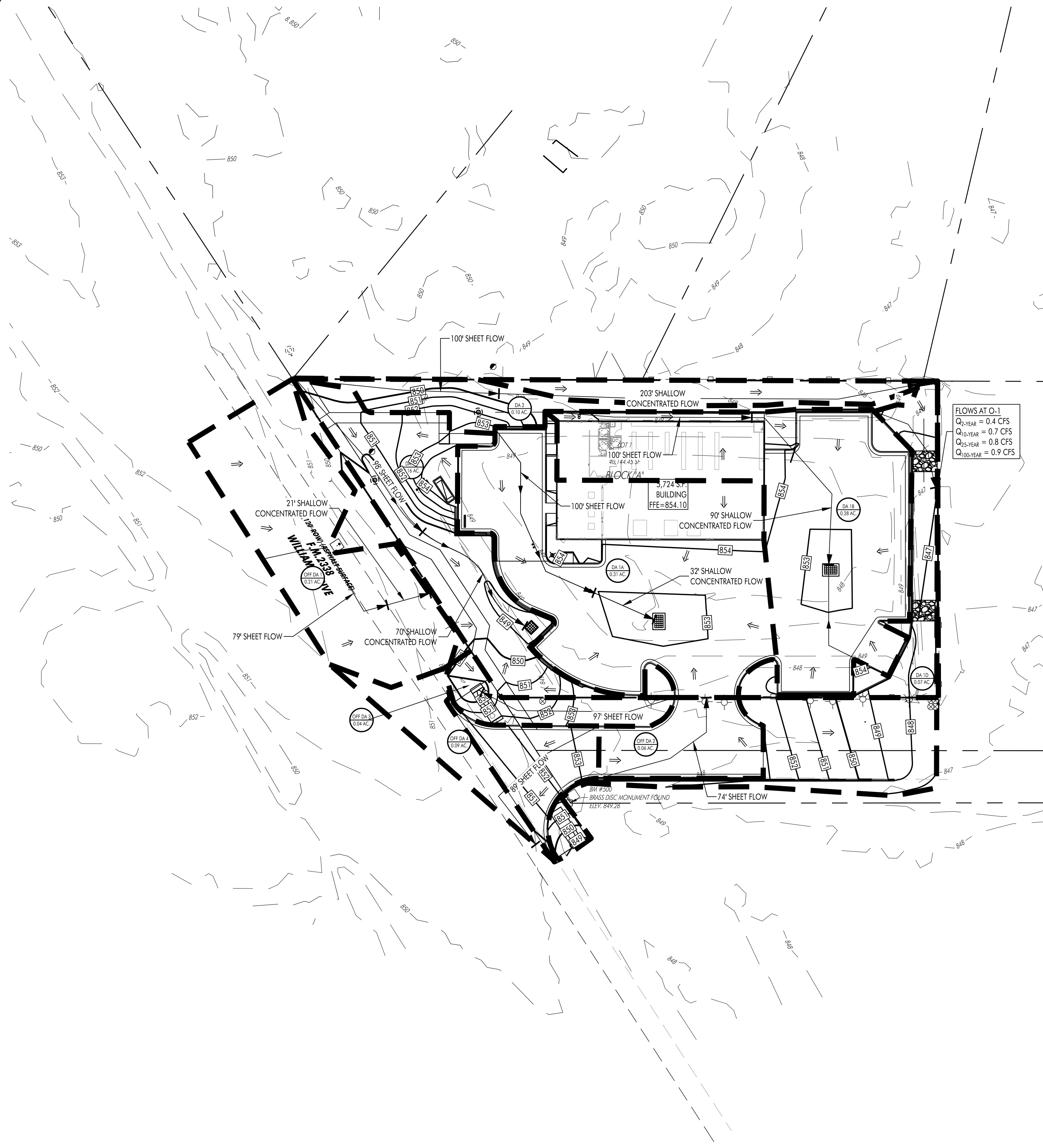
NO.	DATE	DESCRIPTION

HEA PROJECT NO. 22-033  
ISSUED DATE: 10/24/2023

EXISTING DRAINAGE  
AREA MAP

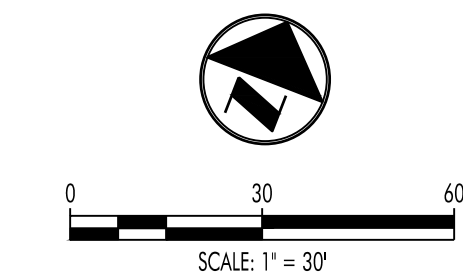
SHEET NO.  
**EDA**  
07





Flows at 0.1  
Q<sub>10</sub> = 0.4 CFS  
Q<sub>100</sub> = 0.7 CFS  
Q<sub>10</sub> = 0.8 CFS  
Q<sub>100</sub> = 0.9 CFS

HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 2											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.13	Unpaved	Unpaved	Mannings "n"	Mannings "n"	0.1	0.273	72	0.1	0.2	N/A
Length (ft)	100	Length (ft)	203.000	Length (ft)	Length (ft)						
Slope (%)	0.43	Slope (%)	1.210	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.241	segment total	0.032	segment total	segment total						
time of conc.(hrs)						0.273	SCS Lag Time (.6 x Tc)=		0.1638	hours	9.8 minutes



HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1A											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.31	0.024	72	0.9	1.3	N/A
Length (ft)	100	Length (ft)	32.000	Length (ft)	Length (ft)						
Slope (%)	2.04	Slope (%)	0.470	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.018	segment total	0.006	segment total	segment total						
time of conc.(hrs)						0.024	SCS Lag Time (.6 x Tc)=		0.0144	hours	0.9 minutes

HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1B											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.28	0.0452	72	0.8	1.1	N/A
Length (ft)	100	Length (ft)	90.000	Length (ft)	Length (ft)						
Slope (%)	0.47	Slope (%)	0.870	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.032	segment total	0.013	segment total	segment total						
time of conc.(hrs)						0.0452	SCS Lag Time (.6 x Tc)=		0.027111	hours	1.6 minutes

HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1C											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.16	0.0419	72	0.3	0.5	N/A
Length (ft)	98	Length (ft)	70.000	Length (ft)	Length (ft)						
Slope (%)	0.42	Slope (%)	1.160	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.033	segment total	0.009	segment total	segment total						
time of conc.(hrs)						0.0419	SCS Lag Time (.6 x Tc)=		0.025129	hours	1.5 minutes

HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1D											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.13	Unpaved	no	Mannings "n"	Mannings "n"	0.07	0.047	72	0.1	0.2	N/A
Length (ft)	20	Length (ft)	0.000	Length (ft)	Length (ft)						
Slope (%)	1	Slope (%)	0.000	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.047	segment total	0.000	segment total	segment total						
time of conc.(hrs)						0.047	SCS Lag Time (.6 x Tc)=		0.0282	hours	1.7 minutes

HEC-HMS HYDROLOGIC ROUTING SUMMARY for OFF DA 1											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.21	0.026	72	0.5	0.7	N/A
Length (ft)	79	Length (ft)	70.000	Length (ft)	Length (ft)						
Slope (%)	1.45	Slope (%)	1.760	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.017	segment total	0.009	segment total	segment total						
time of conc.(hrs)						0.026	SCS Lag Time (.6 x Tc)=		0.0156	hours	0.9 minutes

HEC-HMS HYDROLOGIC ROUTING SUMMARY for OFF DA 2											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.06	0.018	72	0.2	0.2	N/A
Length (ft)	74	Length (ft)	0.000	Length (ft)	Length (ft)						
Slope (%)	1.07	Slope (%)	0.000	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.018	segment total	0.000	segment total	segment total						
time of conc.(hrs)						0.018	SCS Lag Time (.6 x Tc)=		0.0108	hours	0.6 minutes

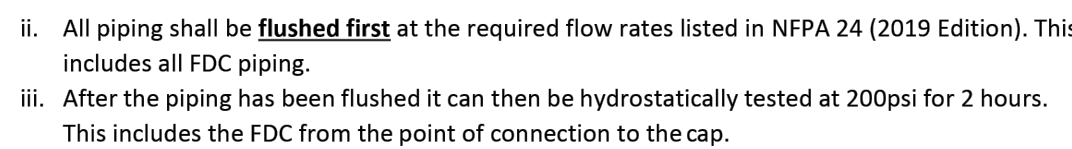
HEC-HMS HYDROLOGIC ROUTING SUMMARY for OFF DA 3											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.04	0.013	72	0.1	0.1	N/A
Length (ft)	97	Length (ft)	0.000	Length (ft)	Length (ft)						
Slope (%)	4.4	Slope (%)	0.000	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.013	segment total	0.000	segment total	segment total						
time of conc.(hrs)						0.013	SCS Lag Time (.6 x Tc)=		0.0078	hours	0.5 minutes

HEC-HMS HYDROLOGIC ROUTING SUMMARY for OFF DA 4											
TR-55 SCS Lag Time (hours)						Flow Summary					
Segment #1	Segment #2	Segment #3	Segment #4	Segment #5		Area	Tc	Cn	Q2	Q10	Q25
Sheet Flow	Shallow Concent	Shallow Concent	Channelized	Channelized		acres	hours	-	cfs	cfs	cfs
Mannings "n"	0.011	Unpaved	no	Mannings "n"	Mannings "n"	0.09	0.012	72	0.3	0.4	N/A
Length (ft)	89	Length (ft)	0.000	Length (ft)	Length (ft)						
Slope (%)	4.42	Slope (%)	0.000	Slope (%)	Slope (%)						
2-yr, 3 hr rainfall	2.64			Velocity (fps)	Velocity (fps)						
segment total	0.012	segment total	0.000	segment total	segment total						
time of conc.(hrs)						0.012	SCS Lag Time (.6 x Tc)=		0.0072	hours	0.4 minutes

REVISIONS	DESCRIPTION	DATE
NO.		



1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER, AND SUCCESSORS TO THE CURRENT PROPERTY OWNER, TO ENSURE THE SUBJECT PROPERTY AND ANY IMPROVEMENTS ARE MAINTAINED IN CONFORMANCE WITH THIS SITE DEVELOPMENT PLAN.
2. THIS DEVELOPMENT SHALL COMPLY WITH ALL STANDARDS OF THE UNIFIED DEVELOPMENT CODE (UDC), THE CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL, THE DEVELOPMENT MANUAL AND ALL OTHER APPLICABLE CITY STANDARDS.
3. THIS SITE DEVELOPMENT PLAN SHALL MEET THE UDC STORMWATER REQUIREMENTS.
4. ALL SIGNAGE REQUIRES A SEPARATE APPLICATION AND APPROVAL FROM THE INSPECTION SERVICES DEPARTMENT. NO SIGNAGE IS APPROVED WITH THE SITE DEVELOPMENT PLAN.
5. SIDEWALKS SHALL BE PROVIDED IN ACCORDANCE WITH THE UDC.
6. DRIVEWAYS WILL REQUIRE APPROVAL BY THE DEVELOPMENT ENGINEER OF THE CITY OF GEORGETOWN.
7. OUTDOOR LIGHTING SHALL COMPLY WITH SECTION 7.04 OF THE UDC.
8. SCREENING OF MECHANICAL EQUIPMENT, DUMPSTERS AND PARKING SHALL COMPLY WITH CHAPTER 8 OF THE UDC. THE SCREENING IS SHOWN ON THE LANDSCAPE AND ARCHITECTURAL PLANS, AS APPLICABLE.
9. THE COMPANION LANDSCAPE PLAN HAS BEEN DESIGNED AND PLANT MATERIALS SHALL BE INSTALLED TO MEET ALL REQUIREMENTS OF THE UDC.
10. ALL MAINTENANCE OF REQUIRED LANDSCAPE SHALL COMPLY WITH THE MAINTENANCE STANDARDS OF CHAPTER 8 OF THE UDC.
11. A SEPARATE IRRIGATION PLAN SHALL BE REQUIRED AT THE TIME OF BUILDING PERMIT APPLICATION.
12. FIRE FLOW REQUIREMENTS OF 1500 PER MINUTE ARE BEING MET BY THIS PLAN.
13. ANY HERITAGE TREE NOTED ON THIS SITE DEVELOPMENT PLAN IS SUBJECT, IN PERPETUITY, TO THE MAINTENANCE, CARE, PRUNING AND REMOVAL REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
14. THE CONSTRUCTION PORTION OF THESE PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE, BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.
15. THIS PROJECT IS SUBJECT TO ALL CITY STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
16. WHERE NO EXISTING OVERHEAD INFRASTRUCTURE EXISTS, UNDERGROUND ELECTRIC UTILITY LINES SHALL BE LOCATED ALONG THE STREET AND WITHIN THE SITE. WHERE EXISTING OVERHEAD INFRASTRUCTURE IS TO BE RELOCATED, IT SHALL BE RE-INSTALLED UNDERGROUND AND THE EXISTING FACILITIES SHALL BE REMOVED AT THE DISCRETION OF THE DEVELOPMENT ENGINEER.
17. ALL ELECTRIC AND COMMUNICATION INFRASTRUCTURE SHALL COMPLY WITH UDC SECTION 13.06.



1. 2018 IFC 912.2 - LOCATION  
WITH RESPECT TO HYDRANTS, DRIVEWAYS, BUILDINGS AND LANDSCAPING, FIRE DEPARTMENT CONNECTIONS SHALL BE SO LOCATED THAT FIRE APPARATUS AND HOSE CONNECTED TO SUPPLY THE SYSTEM WILL NOT OBSTRUCT ACCESS TO THE BUILDINGS FOR OTHER FIRE APPARATUS.
2. 2018 IFC 912.4 - ACCESS  
IMMEDIATE ACCESS TO FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED AT ALL TIMES AND WITHOUT OBSTRUCTION BY FENCES, BUSHES, TREES, WALLS, BEHIND PARKING STALLS, OR ANY OTHER FIXED OR MOVABLE OBJECT.
3. 2018 IFC 912.5 - SIGNS  
INSTALL A SIGN ABOVE THE FIRE DEPARTMENT CONNECTION STATING "FDC". THE SIGN SHALL BE 7" ABOVE GRADE. THE SIGN SHALL HAVE REFLECTIVE WHITE LETTERS UPON A REFLECTIVE RED BACKGROUND. THE LETTERING SHALL BE MINIMUM 2" INCH STRIKE AND MINIMUM 6" INCHES IN HEIGHT.
4. 2018 IFC 912.7 - INSPECTIONS  
ALL FIRE DEPARTMENT CONNECTION SHALL BE MARKED AS APPROVED BY THE FIRE CODE OFFICIAL.
5. TWO RED STREET LANE REFLECTORS (TIMSONITE MODEL 884B OR SIMILAR) SHALL BE INSTALLED SIX INCHES FROM CENTERLINE OF THE FIRE APPARATUS ACCESS ROADWAY ON THE SIDE CLOSEST TO THE FDC. MARKERS SHALL BE PARALLEL TO THE FDC HAVING THE LETTERING "FDC" IN WHITE. THE MARKERS SHALL BE THE DIRECTION OF TRAFFIC.
6. THE FDC FOR THE FIRE SPRINKLER SYSTEM SHALL HAVE A SIX INCH STORTY CONNECTION ON A 30 DEGREE DOWNWARD WITH A KNOX BRAND LOCKING CAP.

1. APPROVAL OF THIS SITE PLAN DOES NOT IMPLY APPROVAL TO INSTALL UNDERGROUND FIRE LINES. PRIOR TO INSTALLATION OF UNDERGROUND FIRE LINES, A SEPARATE PERMIT MUST BE SUBMITTED, UNDER GROUND FIRE LINE SUPPLY.
2. BACKFLOW PROTECTION WILL BE PROVIDED IN ACCORDANCE WITH THE CITY OF GEORGETOWN REQUIREMENTS WHEN REQUIRED. BACKFLOW PROTECTION WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE UTILITY DRAWINGS.
3. ALL PRIVATE FIRE LINES AND WHAT THEY PROVIDE SERVICE TO WILL BE INSTALLED IN ACCORDANCE WITH NFPA 244 INSTALLATION OF PRIVATE SERVICE MAINS AND THEIR APPURTENANCES.
4. ALL TEES, PLUGS, GAPS, BENDS, REDUCERS, VALVES SHALL BE RESTRAINED AGAINST MOVEMENT. THRUST BLOCKING AND JOINT RESTRAINTS WILL BE INSTALLED IN ACCORDANCE WITH NFPA 244.
5. ALL UNDERGROUND SHALL REMAIN UNCOVERED UNTIL A VISUAL INSPECTION IS CONDUCTED BY THE GEORGETOWN FIRE MARSHALS OFFICE (FMO). ALL JOINT RESTRAINTS AND THRUST BLOCKING SHALL BE UNCOVERED FOR VISUAL INSPECTION.
6. ALL UNDERGROUND SHALL BE FLUSHED PER THE REQUIREMENTS OF NFPA STANDARD 24 AND WITNESSED BY GEORGETOWN FMO.
7. ALL UNDERGROUND SHALL PASS A HYDROSTATIC TEST WITNESSED BY GEORGETOWN FMO. ALL JOINTS SHALL BE UNCOVERED FOR HYDROSTATIC TESTING. ALL PIPING AND ATTACHMENTS SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE – OR .5 PSI FOR 2 HOURS.
8. FENCES, LANDSCAPING, AND OTHER ITEMS WILL NOT BE INSTALLED WITHIN 3 FEET, AND WHERE THEY WILL OBSTRUCT THE VISIBILITY OR ACCESS TO HYDRANTS.
9. LICENSE REQUIREMENTS OF EITHER RUE-U OR G WHEN CONNECTING BY UNDERGROUND TO THE WATER PURVEYORS MAIN FROM THE POINT OF CONNECTION OR VALVE WHERE THE PRIMARY PURPOSE OF WATER IS FORE FIRE PROTECTION SPRINKLER SYSTEM.

1. THESE CONSTRUCTION PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE, BASED ON THE ENGINEERS CONCURRENTCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.
2. THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN AFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
3. THIS SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.
4. WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.
5. WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS.
6. MAXIMUM DISTANCE BETWEEN WASTEWATER MANHOLES IS 500 FEET.
7. WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TESTED AND MANDEREL TESTED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.
8. WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY THE CONTRACTOR ACCORDING TO THE CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.
9. WASTEWATER MAINS SHALL BE CAMERA TESTED BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF GEORGETOWN ON DVD FORMAT PRIOR TO PAVING THE STREETS.
10. PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY CONTRACTOR TO 200 PSI FOR 4 HOURS.
11. PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS.
12. PUBLIC WATER SYSTEM MAINS SHALL BE 150 PSI C900 PVC AND TESTED BY THE CONTRACTOR AT 150 PSI FOR 4 HOURS.
13. ALL BENDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.
14. LONG FIRE HYDRANT LEAD SHALL BE RESTRAINED.
15. ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE CITY STANDARDS AND SPECIFICATIONS.
16. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF TCEQ AND THE CITY.
17. FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TADOT TYPE A GRADE 1.
18. HOT MIX ASPHALT CONCRETE PAVEMENT SHALL BE TYPE 0 UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THICK ON PUBLIC STREETS AND ROADWAYS.
19. ALL SIDEWALK RAMPS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.
20. A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENT. THIS BOND SHALL BE ESTABLISHED FOR 2YEARS IN THE AMOUNT OF 10% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT.
21. RECORD DRAWINGS OF THE PUBLIC IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE ON A PDF EMAILED TO THE DEVELOPMENT ENGINEER.
22. PRIOR TO CONSTRUCTION ABOVE THE SLAB, PROVIDE AN ALL-WEATHER DRIVE SURFACE OF ASPHALT OR CONCRETE OR CHIP SEAL PLACED ONTO BASE MATERIAL ENGINEERED TO WITHSTAND 75,000 LBS. AN ACCEPTANCE INSPECTION BY FIRE INSPECTIONS IS REQUIRED (2012 IPC 503 AND D102.1).
23. IN GENERAL ACCORDANCE WITH UDC SECT. 3.09.090, AN SDP SHALL EXPIRE 24 MONTHS AFTER APPROVAL, UNLESS AN ASSOCIATED BUILDING PERMIT APPLICATION HAS BEEN APPROVED.

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HEA PROJECT NO.22-033  
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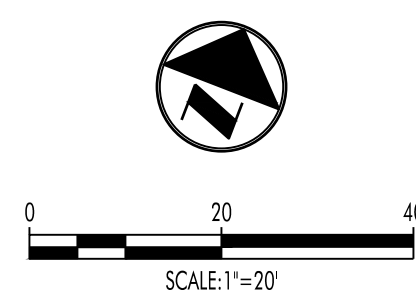
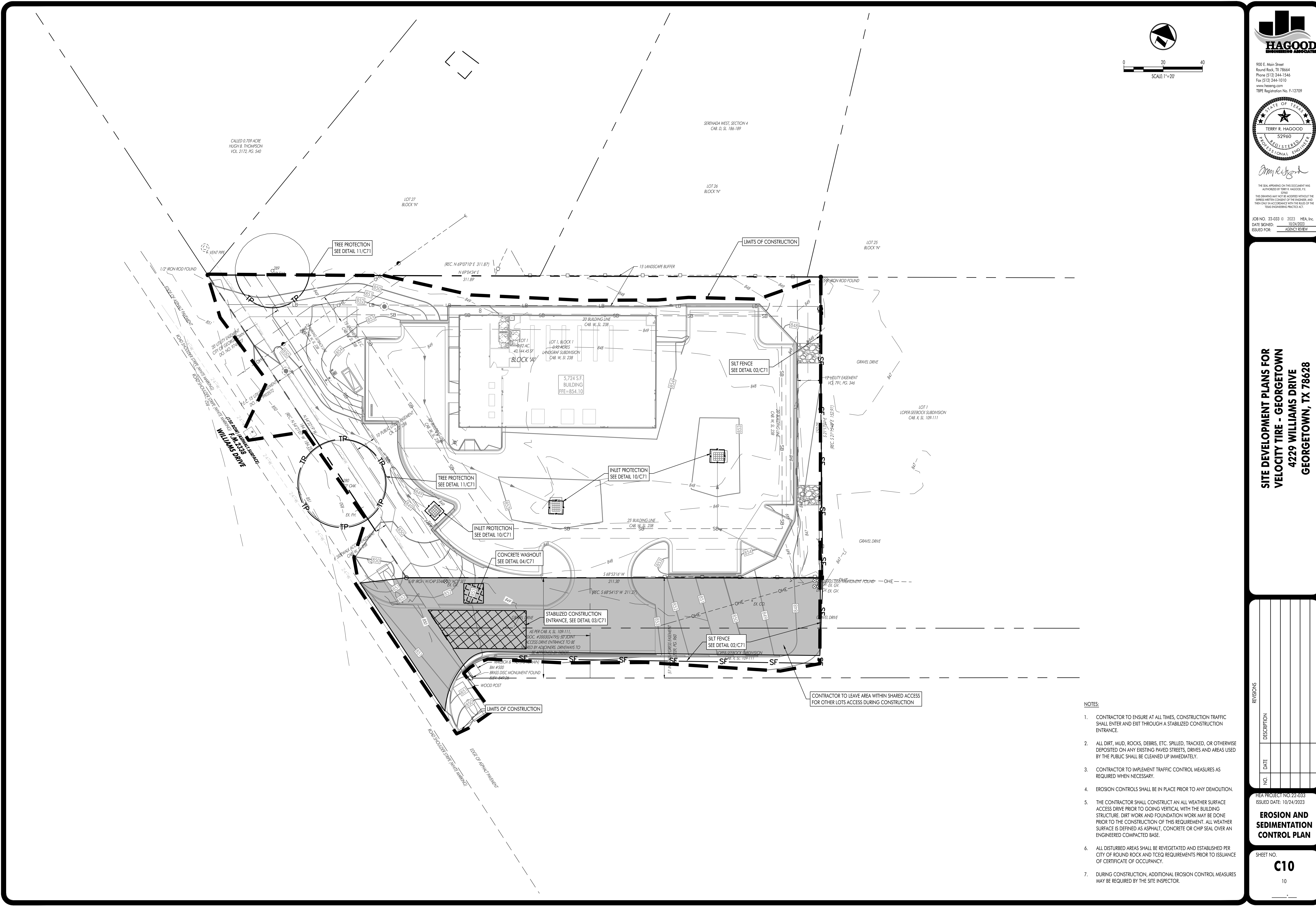
## GENERAL NOTES

SHEET NO.

COO

04





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STATE OF TEXAS  
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**SITE DEVELOPMENT PLANS FOR  
VELOCITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78626**

NO.	DATE	DESCRIPTION	REVISIONS

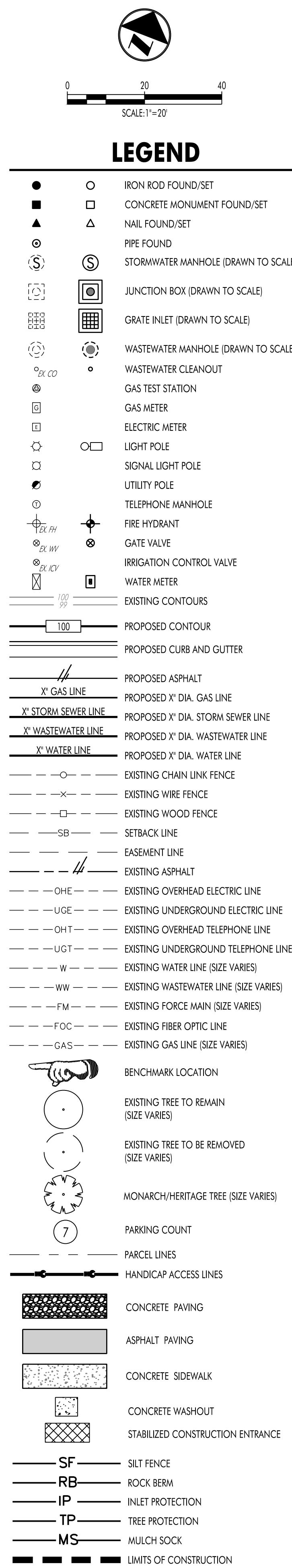
HEA PROJECT NO. 22-033  
ISSUED DATE: 10/24/2023

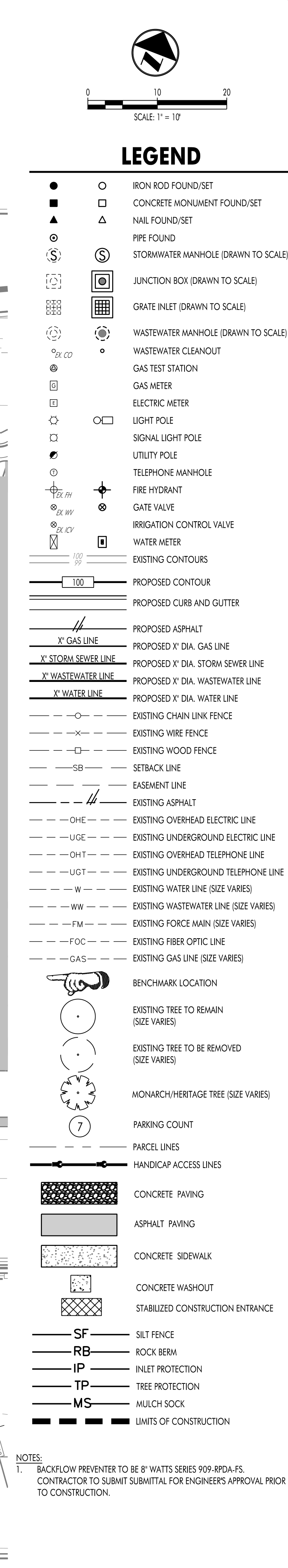
**EROSION AND  
SEDIMENTATION  
CONTROL PLAN**

SHEET NO.  
**C10**  
10

- NOTES:
- CONTRACTOR TO ENSURE AT ALL TIMES, CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THROUGH A STABILIZED CONSTRUCTION ENTRANCE.
  - ALL DIRT, MUD, ROCKS, DEBRIS, ETC. SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
  - CONTRACTOR TO IMPLEMENT TRAFFIC CONTROL MEASURES AS REQUIRED WHEN NECESSARY.
  - EROSION CONTROLS SHALL BE IN PLACE PRIOR TO ANY DEMOLITION.
  - THE CONTRACTOR SHALL CONSTRUCT AN ALL WEATHER SURFACE ACCESS DRIVE PRIOR TO GOING VERTICAL WITH THE BUILDING STRUCTURE. DIRT WORK AND FOUNDATION WORK MAY BE DONE PRIOR TO THE CONSTRUCTION OF THIS REQUIREMENT. ALL WEATHER SURFACE IS DEFINED AS ASPHALT, CONCRETE OR CHIP SEAL OVER AN ENGINEERED COMPACTED BASE.
  - ALL DISTURBED AREAS SHALL BE REVEGETATED AND ESTABLISHED PER CITY OF ROUND ROCK AND TCEQ REQUIREMENTS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
  - DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE SITE INSPECTOR.









SAVING MAY NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, AND ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

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**LOCALITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78628**

1. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL EXISTING GROUND LEVEL APPURTENANCES ARE SUBJECT TO CHANGES AND SHALL BE ADJUSTED TO FINAL GRADE.
3. ALL WASTEWATER MANHOLES SHALL BE COATED AND VACUUM TESTED.
4. MANHOLES OUTSIDE OF PAVEMENT SHALL HAVE BOLTED COVERS.
5. ALL GRAVITY WASTEWATER LINES ARE TO BE CONSTRUCTED OF SDR-26.
6. ALL NON-CITY INFRASTRUCTURE INCLUDING GAS, ELECTRIC CABLE, AND TELECOMMUNICATIONS SHALL TRAVERSE UNDERNEATH CITY INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO WATERLINES, WASTEWATER LINES, AND STORM SEWERS, WITH A MINIMUM OUTSIDE-TO-OUTSIDE CLEARANCE OF 18" WHERE NON-CITY INFRASTRUCTURE WOULD HAVE TO BE PLACED AT A DEPTH OF 8' OR GREATER TO MEET THE PRECEDING REQUIREMENT, TRAVELING ABOVE CITY INFRASTRUCTURE MAY BE ALLOWED, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER, BUT ONLY IN CONFORMANCE WITH CROSS-SECTIONS, PROFILES, AND / OR OTHER DETAILED INFORMATION INCORPORATED IN THESE PLANS.
7. CONTRACTOR TO CONDUCT SURVEILLANCE EASEMENT PRIOR TO THE INSTALLATION OF THE WATERLINE, FOR INSTALLATION ACCURACY.
8. FOR ALL POINTS WHERE A WASTEWATER GRAVITY OR FORCE MAIN LINE CROSSES UNDER A PUBLIC WATER SUPPLY OR WATER SERVICE:
  - 8.1. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET FROM OUTSIDE DIAMETERS OF PIPE;
  - 8.2. WASTEWATER PIPE WITH A MINIMUM PRESSURE RATING OF 150 PSI;
  - 8.3. WASTEWATER PIPE SHALL BE CENTERED ON CROSSING.
9. FOR ALL POINTS WHERE A WASTEWATER GRAVITY OR FORCE MAIN LINE CROSSES OVER A PUBLIC WATER SUPPLY OR WATER SERVICE:
  - 9.1. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET FROM OUTSIDE DIAMETERS OF PIPE;
  - 9.2. WATER SHALL BE PLACED IN AN ENCASEMENT CENTERED ON THE CROSSING, SEALED AT BOTH ENDS WITH CEMENT GROUT OR MANUFACTURED SEAL, AT LEAST TWO NOMINAL SIZES LARGER, AND SUPPORTED BY SPACERS AT 4' INTERVALS.
  - 9.3. ONE SEGMENT OF WATERLINE SHALL BE CENTERED ON CROSSING.
10. FOR WASTEWATER OR FORCE MAIN LINES THAT PARALLEL PUBLIC WATER OR WATER SERVICES:
  - 10.1. SEPARATION MUST BE AT LEAST NINE FEET FROM OUTSIDE DIAMETERS OF PIPE IN ANY DIRECTION;
11. ALL WATER LINE FITTINGS SHALL BE RESTRAINED AND THRUST BLOCKED.
12. UNLESS OTHERWISE SPECIFIED, ALL WATER MAINS SHALL BE COMPOSED OF C900 OR H-100.
13. PROVIDE 3' CLEAR AREA AROUND FREE HYDRANTS.
14. ALL FIRE SERVICE LEADS SHALL BE DUCTILE IRON.
15. VALVES SHALL BE AMERICAN DARLING BRAND.
16. FIRE HYDRANTS SHALL BE AMERICAN DARLING BRAND.
17. CONTRACTOR SHALL PATCH ALL PAVEMENT PER DETAIL VIEWNUMBER/SECTIONLINE.
18. 6" RIGID WATER MAINS 90' PD90 4" OR EQUAL, 6" RPA FOR FIRE PROTECTION USE ONLY, PD90 4" OR EQUAL, IN INSULATED ALUMINUM ENCLOSURE CONFORMING WITH ASSE 1000 - PERFORMANCE REQUIREMENTS FOR OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES. CONTRACTOR TO PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

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TEA PROJECT NO.22-033  
ISSUED DATE: 10/24/2023

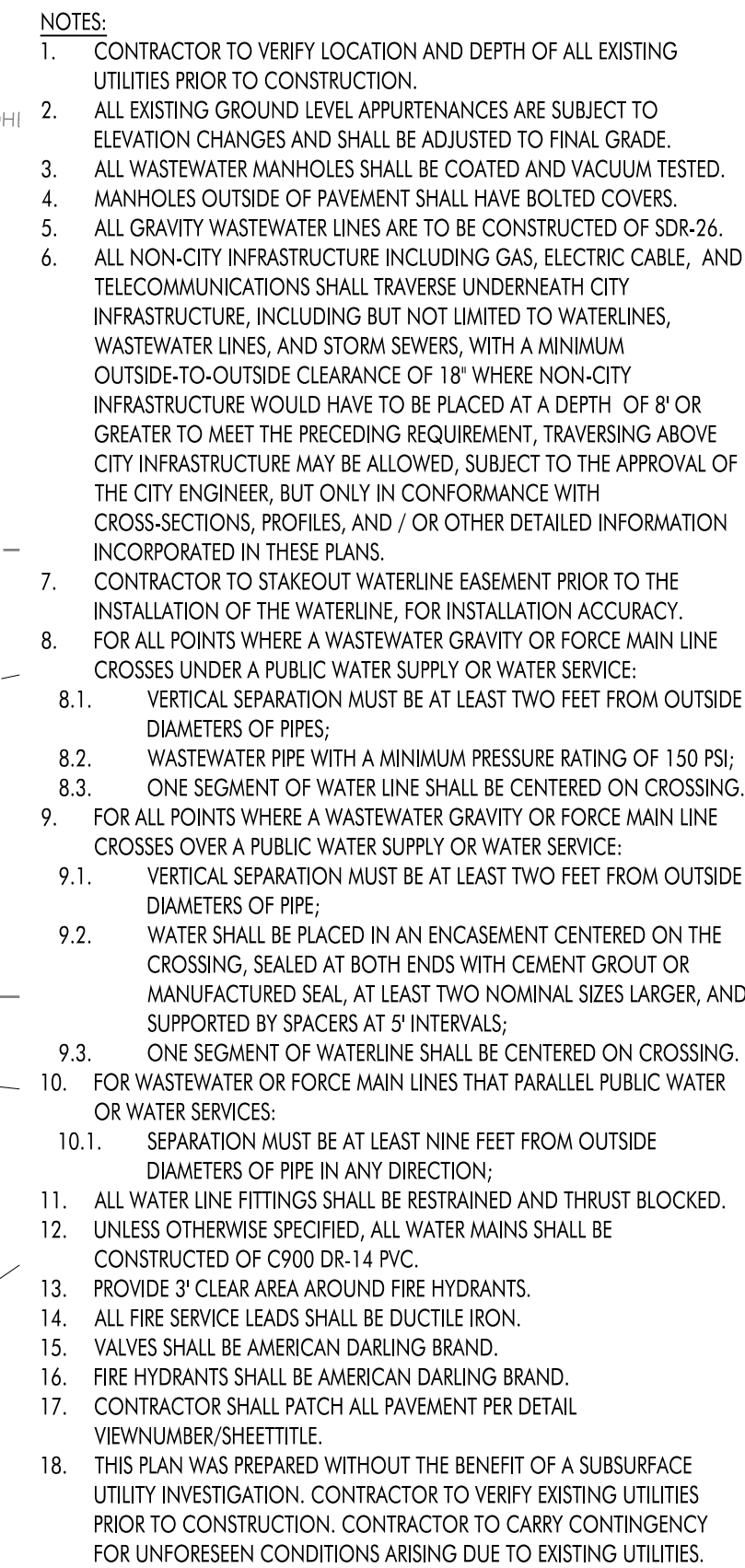
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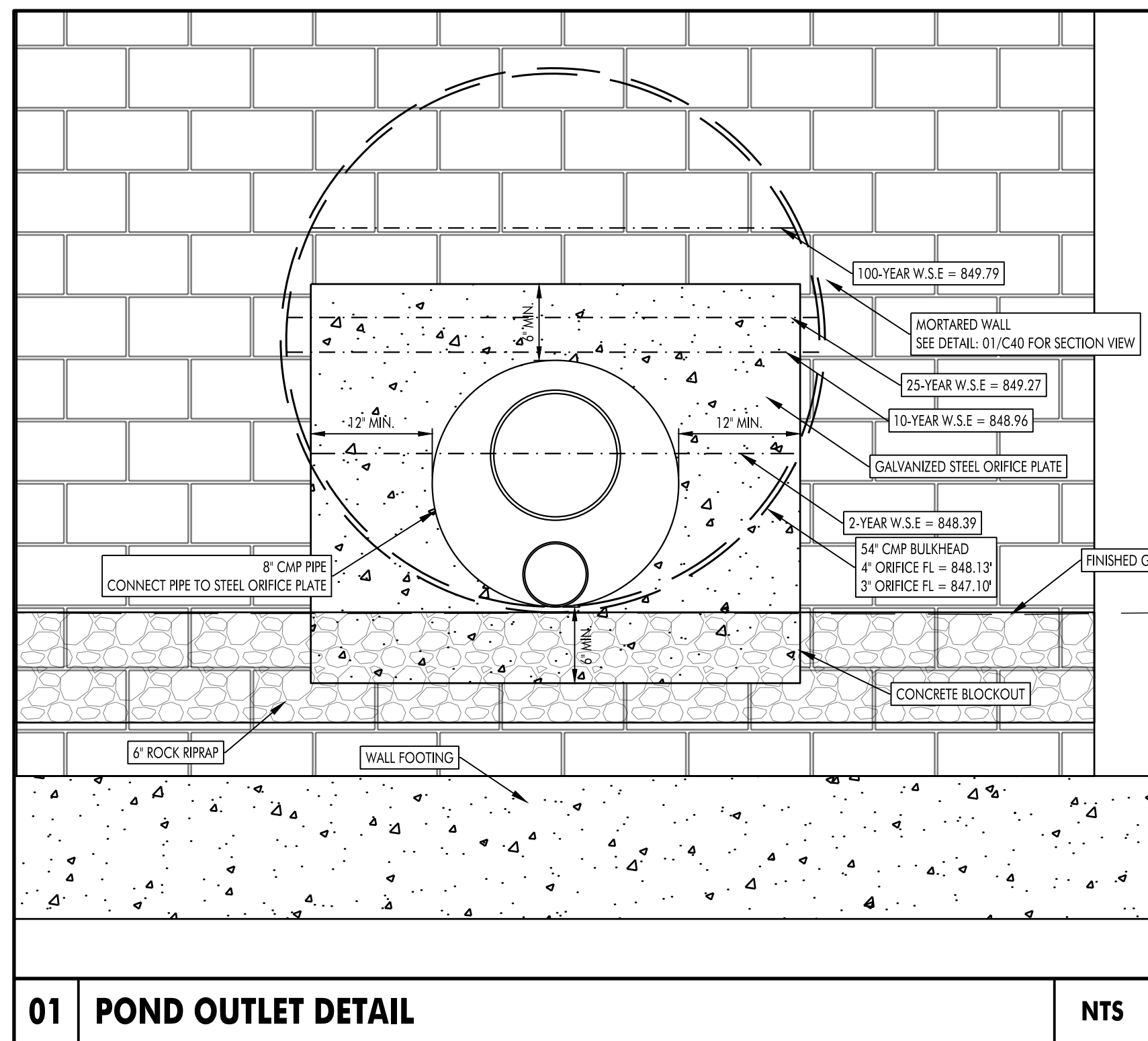
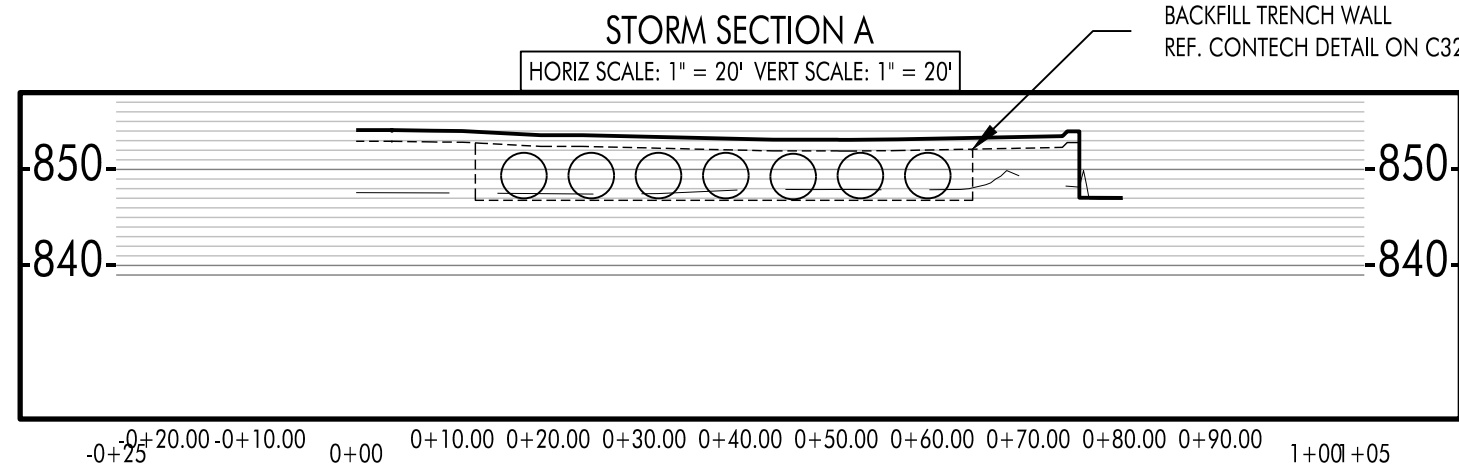
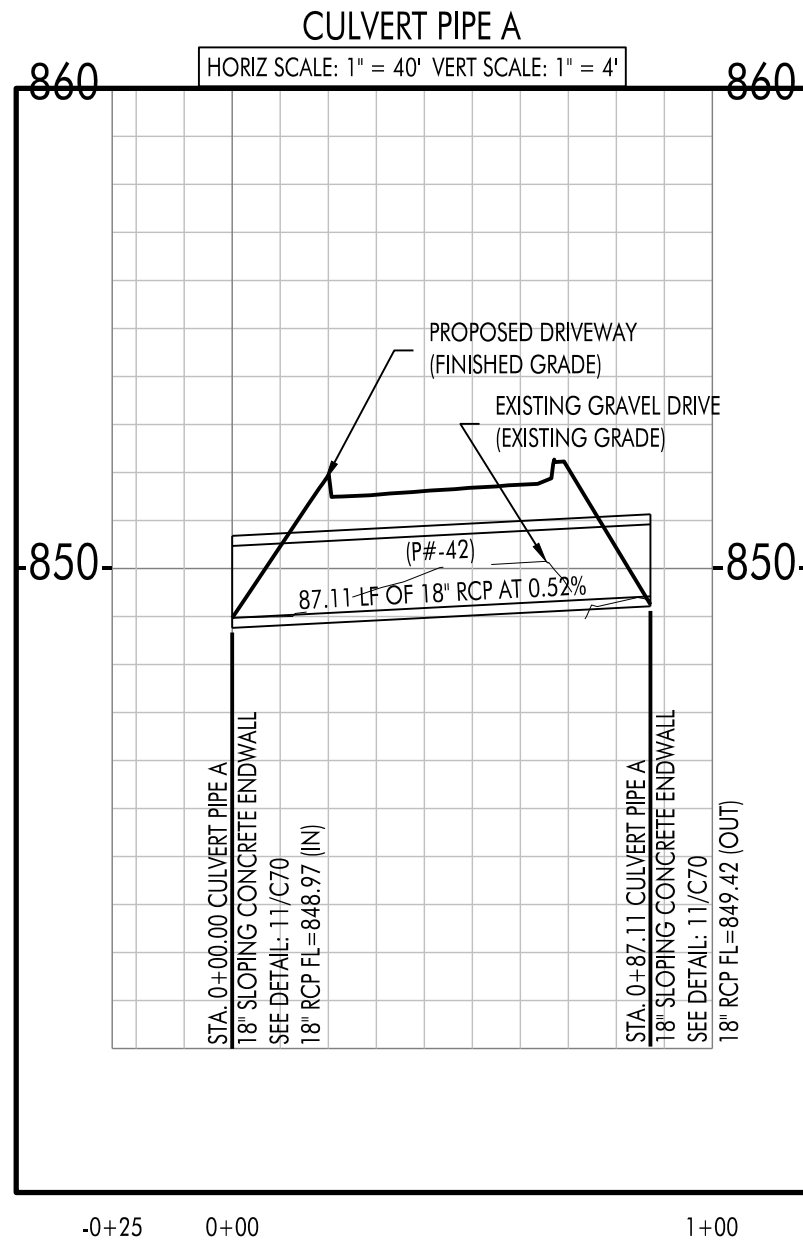
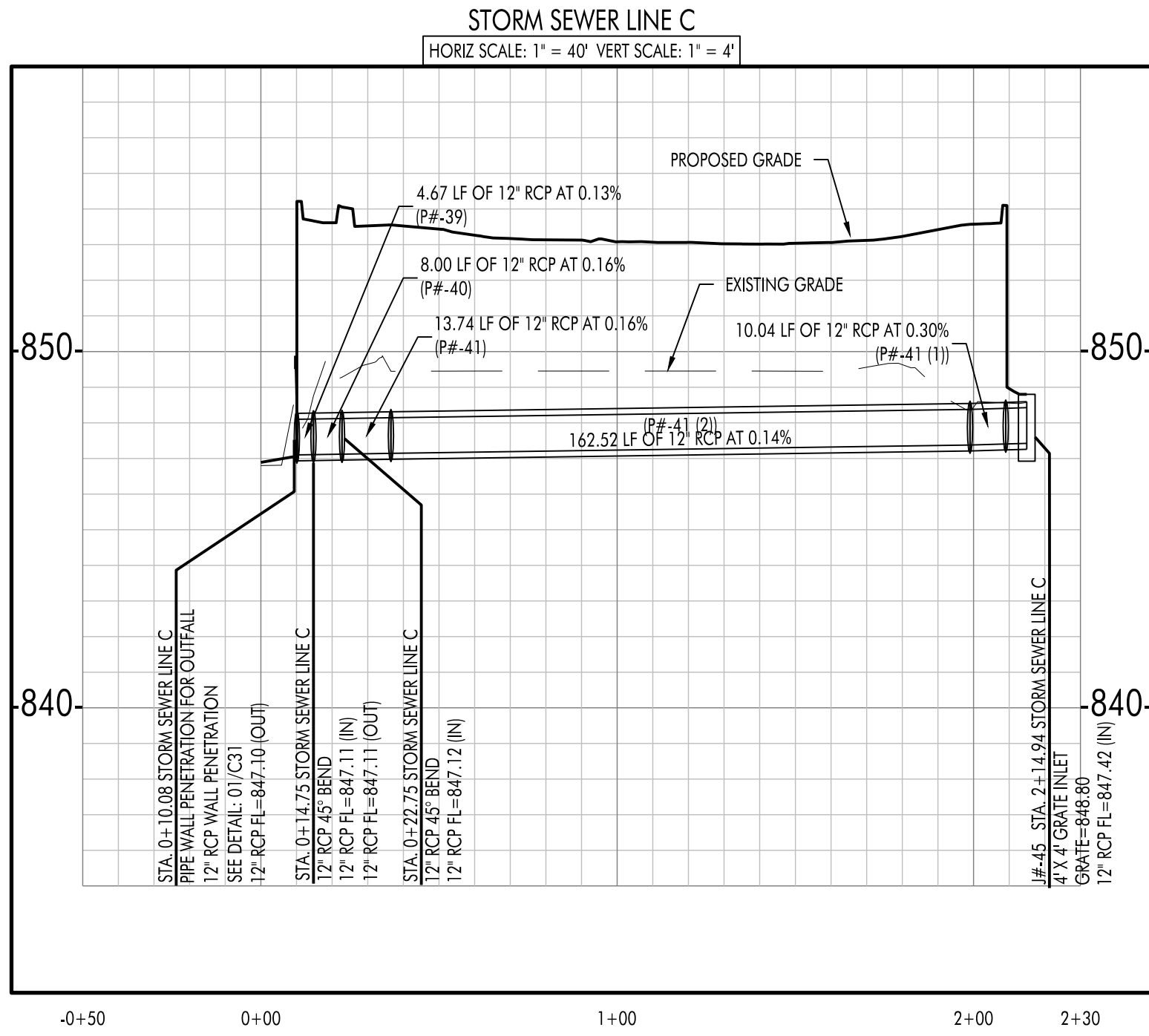
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Oct 24, 2023 9:18am Z:\HEA\HEA Projects\Projects 22-000\22-033 Velocity Tire - Georgetown\CAD Files\Civil\SD\22-033 C21.dwg







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

Project Name: **Velocity Tire - Georgetown**  
Date Prepared: **8/3/2023**

## 1. The Required Load Reduction for the total project:

Calculations from RG-348 Page 3-29 Equation 3.3:  $I_{a1} = 28.6(A_p \times P)$   
Pages 3-27 to 3-30

$I_{a1}$  TOTAL PREDEV = Required TSS removal resulting from the proposed development = 86% of increased load  
 $A_p$  = Net increase in impervious area for the project  
 $P$  = Average annual precipitation, inches

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

County = **Williamson** acres  
Total project area included in plan = **0.63** acres  
Predevelopment impervious area within the limits of the plan = **0.00** acres  
Total post-development impervious area within the limits of the plan = **0.63** acres  
Total post-development impervious cover fraction = **0.97**  
 $P$  = **3.8** inches

$I_{a1}$  TOTAL PREDEV = **983** lbs.

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

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

Drainage Basin/Outfall Area No. = **1**

Total drainage basin/outfall area = **0.63** acres  
Predevelopment impervious area within drainage basin/outfall area = **0.00** acres  
Post-development impervious area within drainage basin/outfall area = **0.63** acres  
Post-development impervious fraction within drainage basin/outfall area = **1.00**  
 $I_{a1}$  basin area = **342** lbs.

## 3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **JF** abbreviation  
Removal efficiency = **86** percent

## 4. Calculate Maximum TSS Load Removed ( $I_{a1}$ ) for this Drainage Basin by the selected BMP Type:

RG-348 Page 3-33 Equation 3.7:  
LR = (BMP efficiency) x F x ( $A_p \times 34.6 + A_p \times 0.54$ )

$A_c$  = Total On-Site drainage area in the BMP catchment area  
 $A_p$  = Impervious area proposed in the BMP catchment area  
 $A_r$  = Pervious area remaining in the BMP catchment area  
 $I_{a1}$  = TSS load removed from this catchment area by the proposed BMP

$A_c$  = **0.57** acres  
 $A_p$  = **0.06** acres  
 $A_r$  = **0.00** acres  
 $I_{a1}$  = **352** lbs.

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

Desired  $I_{a1}$  basin area = **342** lbs.  
 $F$  = **0.97**

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

Offsite area draining to BMP = **0.00** acres  
Offsite impervious cover draining to BMP = **0.00** acres  
Rainfall Intensity = **2.00** inches per hour  
Effective Area = **0.63** acres  
Cartridge Length = **3.8** inches  
Peak Treatment Flow Required = **0.67** cubic feet per second

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

Flow Through Jellyfish Size	75000
Jellyfish Size for Flow-Based Configuration =	JFBD0406-4-1
Jellyfish Treatment Flow Rate =	0.60 cfs

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

Project Name: **Velocity Tire - Georgetown**  
Date Prepared: **8/3/2023**

## 1. The Required Load Reduction for the total project:

Calculations from RG-348 Page 3-29 Equation 3.3:  $I_{a1} = 28.6(A_p \times P)$   
Pages 3-27 to 3-30

$I_{a1}$  TOTAL PREDEV = Required TSS removal resulting from the proposed development = 86% of increased load  
 $A_p$  = Net increase in impervious area for the project  
 $P$  = Average annual precipitation, inches

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

County = **Williamson** acres  
Total project area included in plan = **0.63** acres  
Predevelopment impervious area within the limits of the plan = **0.00** acres  
Total post-development impervious area within the limits of the plan = **0.63** acres  
Total post-development impervious cover fraction = **0.97**  
 $P$  = **3.8** inches

$I_{a1}$  TOTAL PREDEV = **983** lbs.

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

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

Drainage Basin/Outfall Area No. = **2**

Total drainage basin/outfall area = **0.63** acres  
Predevelopment impervious area within drainage basin/outfall area = **0.00** acres  
Post-development impervious area within drainage basin/outfall area = **0.63** acres  
Post-development impervious fraction within drainage basin/outfall area = **1.00**  
 $I_{a1}$  basin area = **342** lbs.

## 3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **JF** abbreviation  
Removal efficiency = **86** percent

## 4. Calculate Maximum TSS Load Removed ( $I_{a1}$ ) for this Drainage Basin by the selected BMP Type:

RG-348 Page 3-33 Equation 3.7:  
LR = (BMP efficiency) x F x ( $A_p \times 34.6 + A_p \times 0.54$ )

$A_c$  = Total On-Site drainage area in the BMP catchment area  
 $A_p$  = Impervious area proposed in the BMP catchment area  
 $A_r$  = Pervious area remaining in the BMP catchment area  
 $I_{a1}$  = TSS load removed from this catchment area by the proposed BMP

$A_c$  = **0.26** acres  
 $A_p$  = **0.37** acres  
 $A_r$  = **0.00** acres  
 $I_{a1}$  = **248** lbs.

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

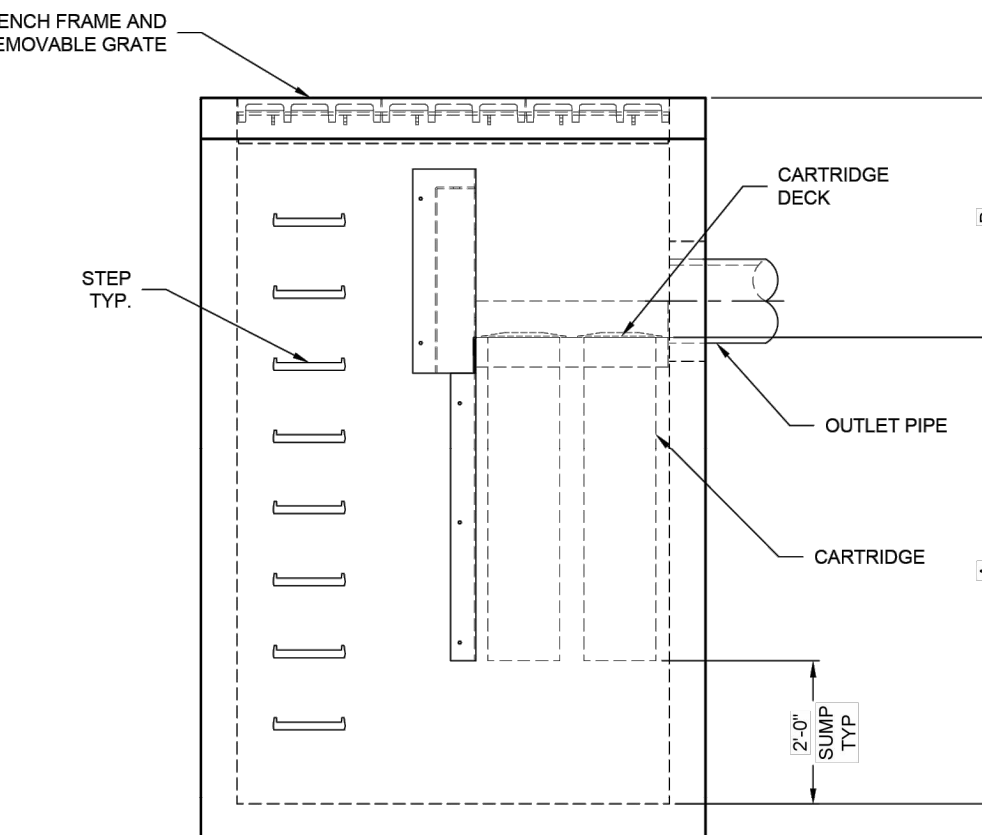
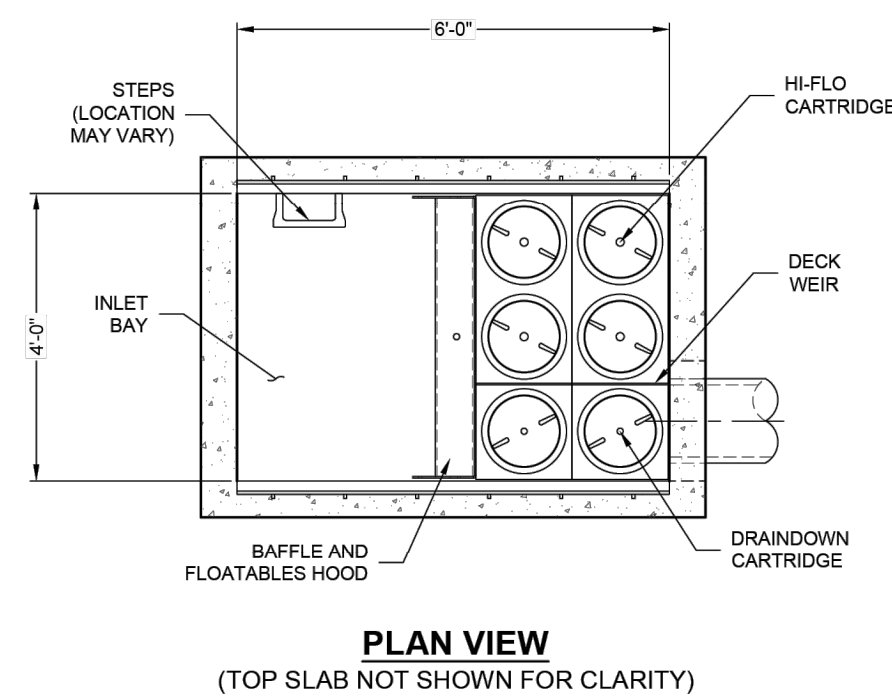
Desired  $I_{a1}$  basin area = **248** lbs.  
 $F$  = **0.97**

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

Offsite area draining to BMP = **0.00** acres  
Offsite impervious cover draining to BMP = **0.00** acres  
Rainfall Intensity = **2.00** inches per hour  
Effective Area = **0.63** acres  
Cartridge Length = **3.8** inches  
Peak Treatment Flow Required = **0.47** cubic feet per second

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

Flow Through Jellyfish Size	75000
Jellyfish Size for Flow-Based Configuration =	JFBD0406-3-1
Jellyfish Treatment Flow Rate =	0.62 cfs



## JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD SURFACE INLET STYLE WITH TRENCH GRATE AND COVER IS SHOWN. ALTERNATE CURB INLET OR PIPE INLET OPTIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.

### CARTRIDGE SELECTION

	54"	40"	27"	15"
CARTRIDGE LENGTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-3"	4'-3"	3'-3"
FLOW RATE HIGH-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (GPM)	0.89	0.67	0.45	0.25
OUTLET INVERT TO RIM (MIN) (B)	3'-4"	3'-4"	3'-4"	3'-4"

24"  
TRENCH COVER  
N.T.S.

24"  
TRENCH GRATE  
N.T.S.

### GENERAL NOTES:

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. [www.contechES.com](http://www.contechES.com)
- JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION AND SITE SPECIFIC EARTH COVER REQUIREMENT. TYPICAL CASTINGS SHALL MEET AASHTO M308 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD.
- OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
- THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE (WHERE APPLICABLE) AT EQUAL OR GREATER SLOPE.
- NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

### INSTALLATION NOTES

- ANY SUB-BASE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
- CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
- CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

**CONTECH**  
ENGINEERED SOLUTIONS LLC  
www.contechES.com  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45389  
800-338-1122 513-645-7000 513-645-7993 FAX

JELLYFISH JFS10406  
STANDARD DETAIL  
SURFACE INLET CONFIGURATION

SITE DEVELOPMENT PLANS FOR  
VELOCITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78628

REVISIONS

DESCRIPTION

DATE

NO.

HEA PROJECT NO. 22-033

ISSUED DATE: 10/24/2023

STORM PROFILE &  
DETAILS

SHEET NO.

C31

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**HAGOOD**  
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STATE OF TEXAS  
TERRY R. HAGOOD  
52960  
REGISTERED PROFESSIONAL ENGINEER

*Terry R. Hagood*

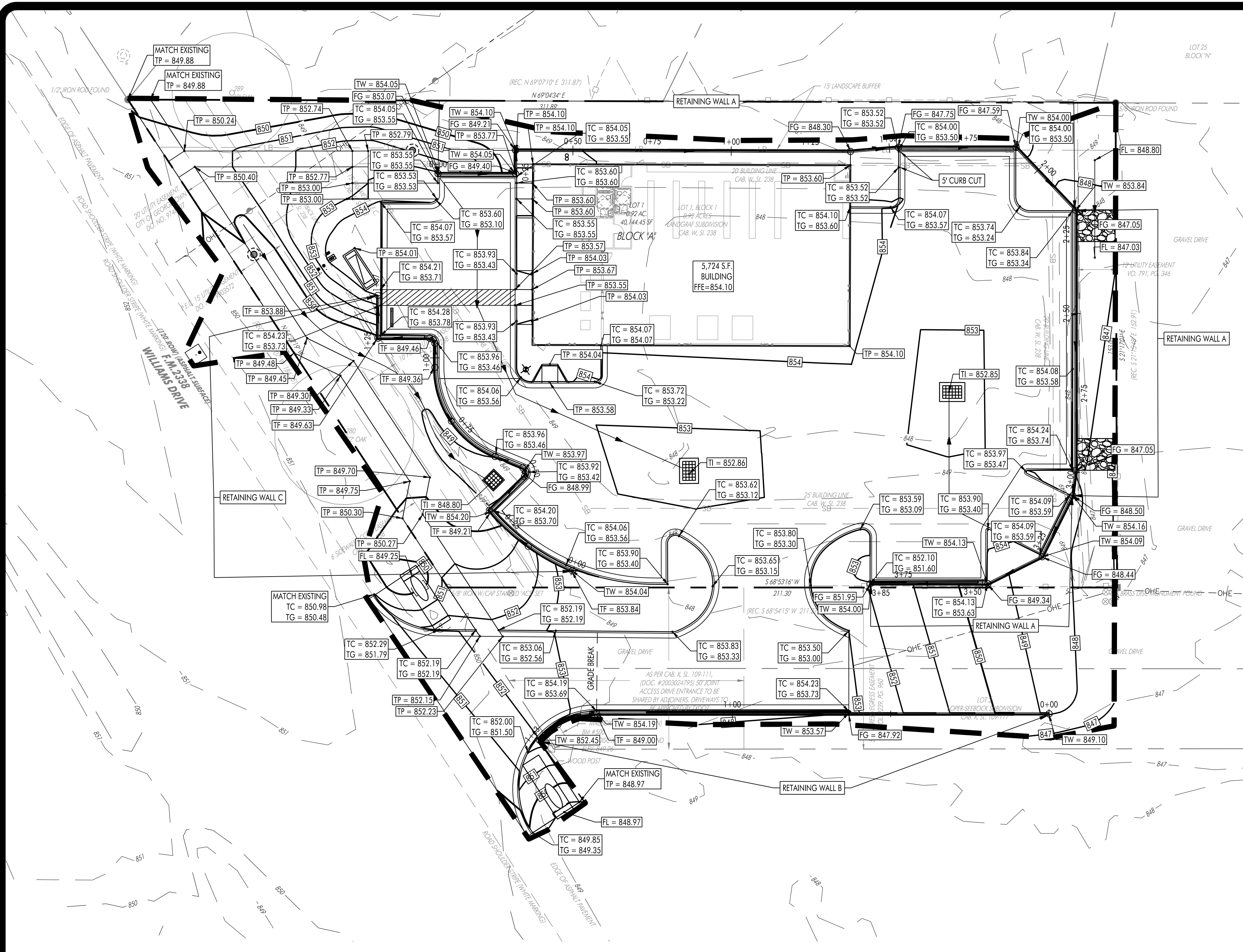
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DATE SIGNED: 10/24/2023  
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0 20 40  
SCALE 1"=20'

NOTES:  
1. SLOPES OF ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP.  
2. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30". RAMPS SHALL BE PROVIDED WITH HANDRAILS AND GROUND SURFACE EDGE PROTECTION EACH SIDE AND ENTIRE LENGTH OF RAMP PER TDLR ADA REQUIREMENTS.  
3. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50.  
4. GROUND SURFACE ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM AND SLIP RESISTANT.  
5. SPOT ELEVATION LEGEND:  
BW = BOTTOM OF WALL  
EX = EXISTING ELEVATION  
FG = FINISHED GRADE  
FL = FLOW LINE  
TC = TOP OF CURB  
TF = TOP OF FOOTING  
TG = TOP OF GUTTER  
TI = TOP OF INLET  
TP = TOP OF PAVEMENT (CONCRETE/ASPHALT/SIDEWALK)  
TW = TOP OF WALL

NO CROSS SLOPES GREATER THAN 2% ANY DIRECTION IN THIS AREA.

**HAGOOD**  
ENGINEERING ASSOCIATE

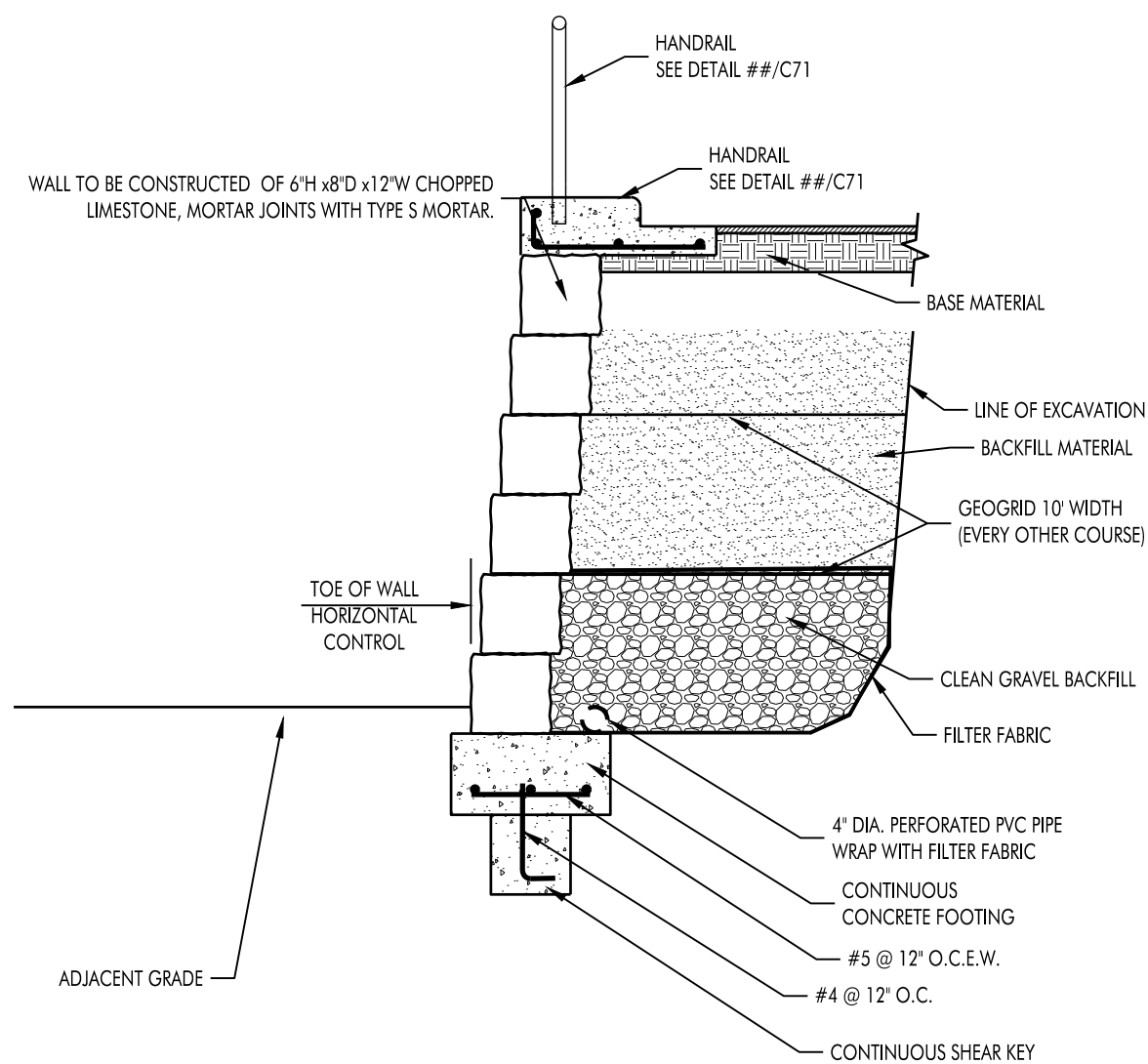
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TSP# Registration No. F-12709

STATE OF TEXAS  
REGISTERED PROFESSIONAL ENGINEER  
52960  
TERRY R. HAGOOD

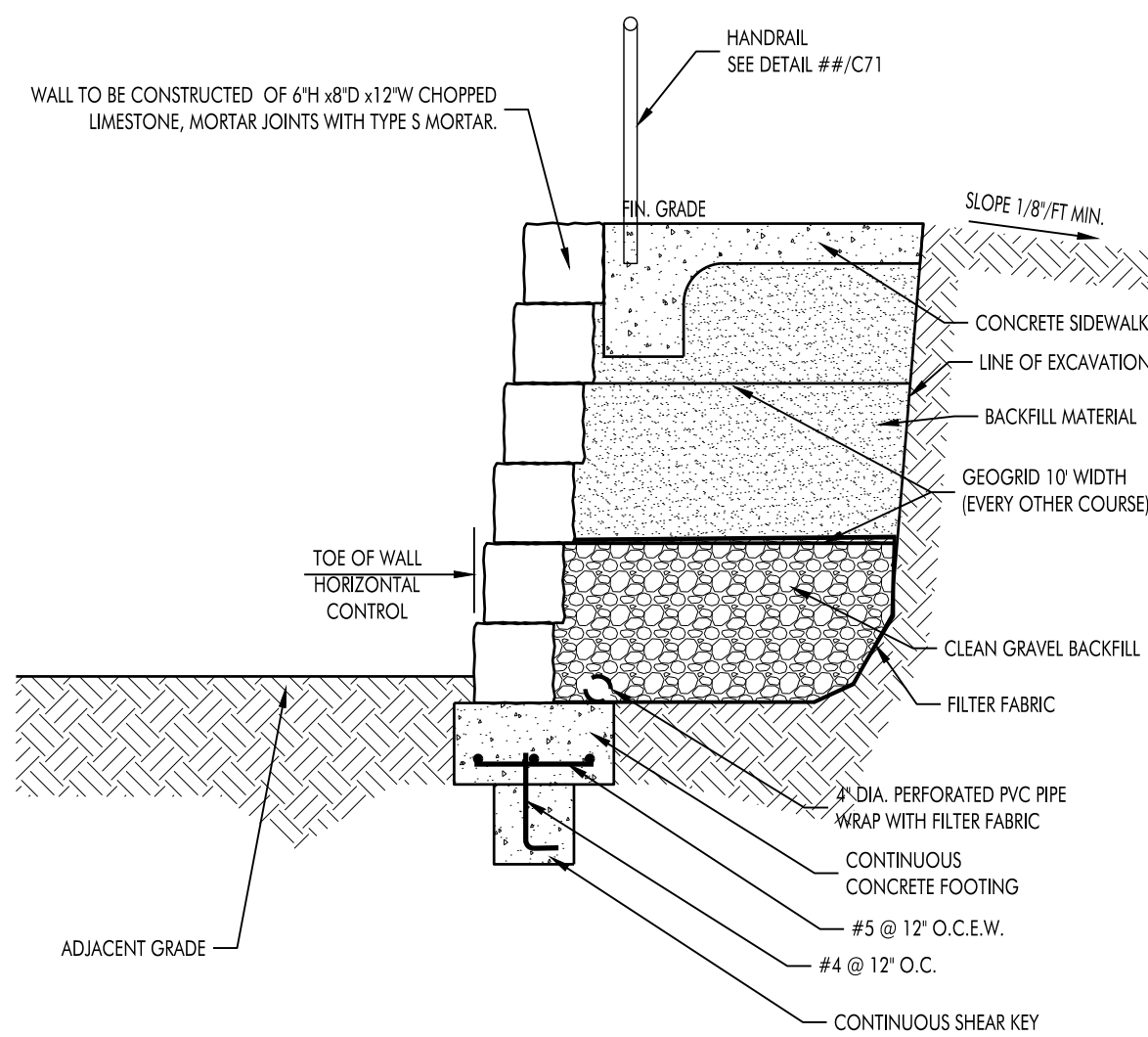
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**SITE DEVELOPMENT PLANS FOR  
VELOCITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78628**



MORTARED WALL AT CURB & GUTTER



MORTARED WALL AT SIDEWALK

01 MORTARED WALL

NTS

REVISIONS			
NO.	DATE	DESCRIPTION	

HEA PROJECT NO. 22-033  
ISSUED DATE: 10/24/2023

**GRADING PLAN**

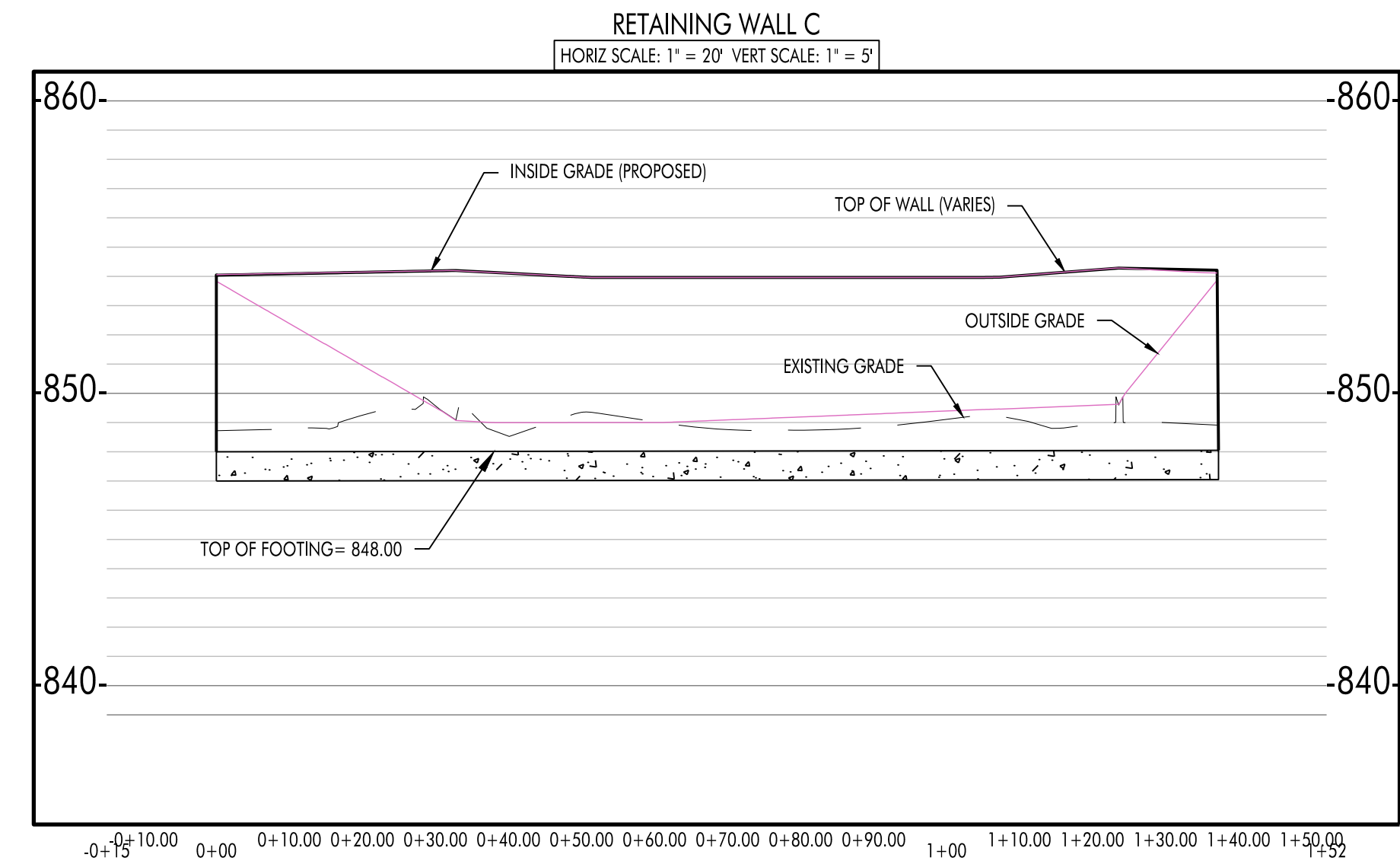
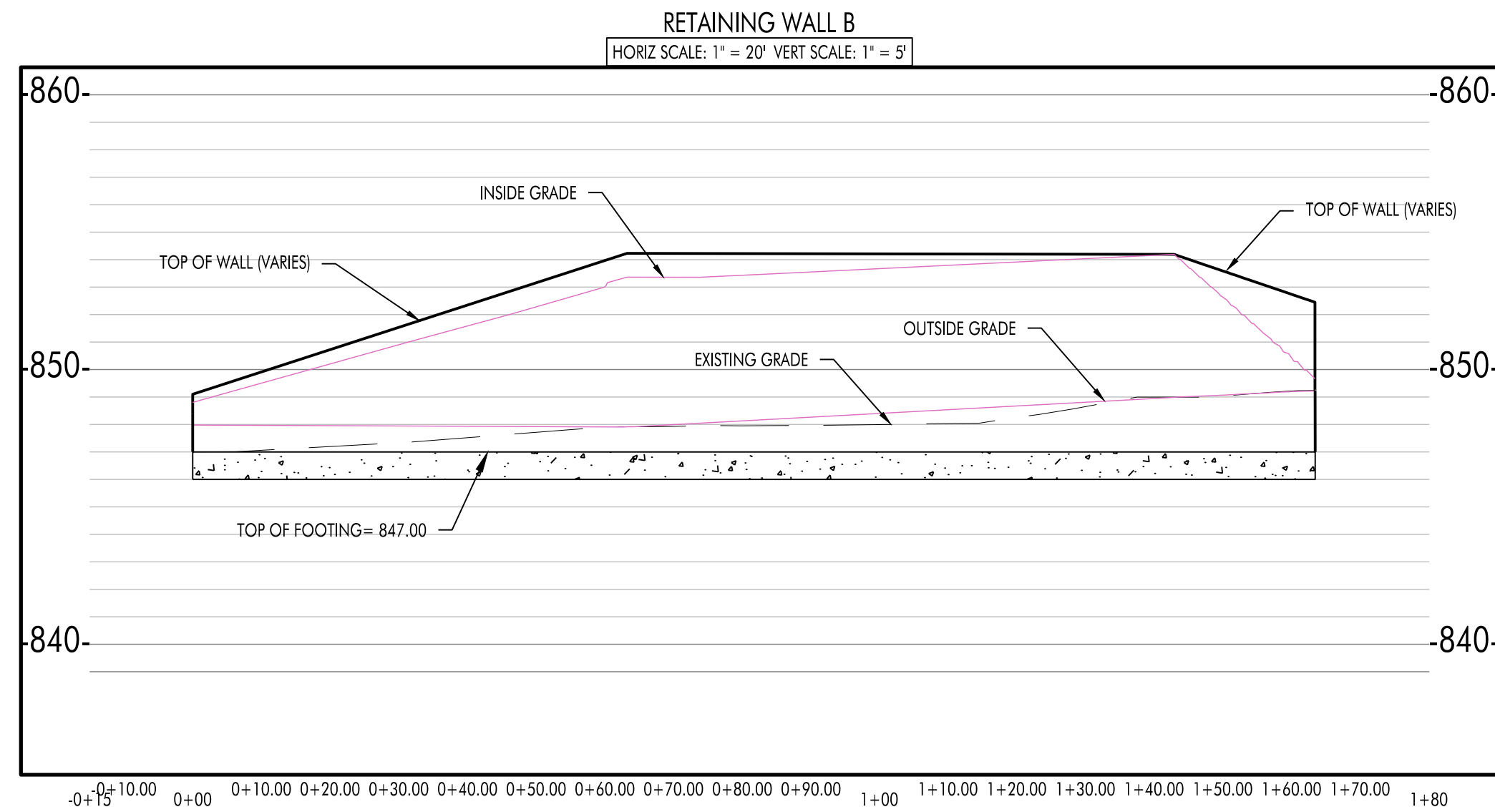
SHEET NO.  
**C40**

17



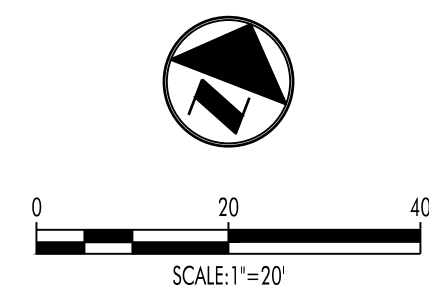
NO. 22-033 © 2023 HEA, Inc.  
E SIGNED: 10/24/2023  
ED FOR: AGENCY REVIEW

**SITE DEVELOPMENT PLANS FOR  
VELOCITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78628**

[illegible]

## WALL PROFILES

C41



  
**HAGOOD**  
ENGINEERING ASSOCIATES

910 E. Main Street  
Round Rock, TX 78664  
Phone (512) 244-1556  
Fax (512) 244-1010  
www.hagoodeng.com  
TDP# Registration No. F-12709



*Terry R. Hagood*

THE SEAL, AFFIXED TO THIS DOCUMENT WAS  
AUTHORIZED BY TERRY R. HAGOOD, P.E.  
ON 01/20/2023.  
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DATE SIGNED: 02/04/2023  
ISSUED FOR: AGENCY REVIEW

**SITE DEVELOPMENT PLANS FOR  
VELOCITY TIRE - GEORGETOWN  
4229 WILLIAMS DRIVE  
GEORGETOWN, TX 78628**

[illegible]

HEA PROJECT NO.22-033

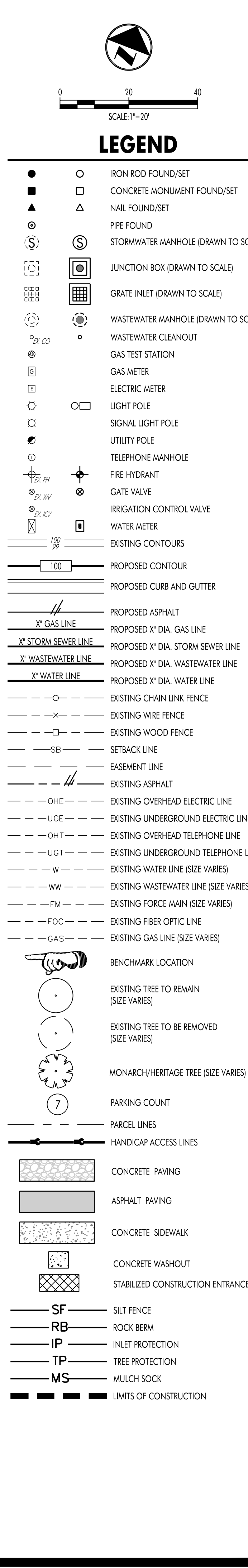
## DIMENSION CONTROL PLAN

SHEET NO.

## C50

19





NOTES:

1. FIRELANE STRIPING TO BE 6" WIDE RED PAINT WITH "FIRE LANE-NO PARKING" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED MORE THAN 30 FEET APART. STRIPING TO BE PAINTED ON FACE OF CURB WHEN PRESENT AND PAINTED FAL ON PARKING SURFACE WHEN IT IS NOT.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, OR CENTER OF STRIPING (WHERE APPLICABLE), UNLESS OTHERWISE NOTED.
3. FIRELANES SHALL BE SURFACED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES BEFORE ANY COMBUSTIBLE MATERIALS ARE ALLOWED ON SITE.





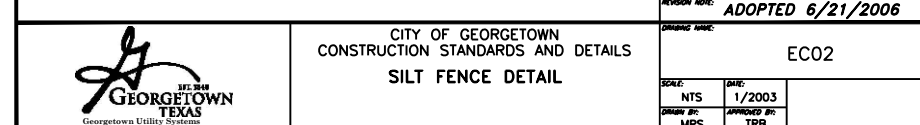


TYPE OF STRUCTURE	REACH LENGTH	MAXIMUM DRAINAGE AREA	SLOPE
SILT FENCE	N/A	2 ACRES	0 - 10%
	200 FEET	2 ACRES	10 - 20%
	100 FEET	1 ACRE	20 - 30%
	50 FEET	1/2 ACRE	> 30%
TRIANGLE FILTER DIKE	100 FEET	1/2 ACRE	< 30% SLOPE
	50 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM **, *	500 FEET	< 5 ACRES	0 - 10%

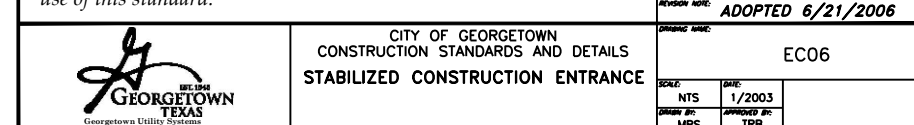
*The Architect/Engineer assumes responsibility for appropriate use of this standard.*



**NTS**



**NTS**



**NTS**



The Architect/Engineer assumes responsibility for appropriate use of this standard.



## ESC TREE NOTES

NTS



**NTS**



**NTS**



**NTS**



NTS



1



**NTS**

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VEIHEA PROJECT NO.22-033

ISSUED DATE: 10/24/2023

## EROSION AND STORM DETAILS

SHEET NO.

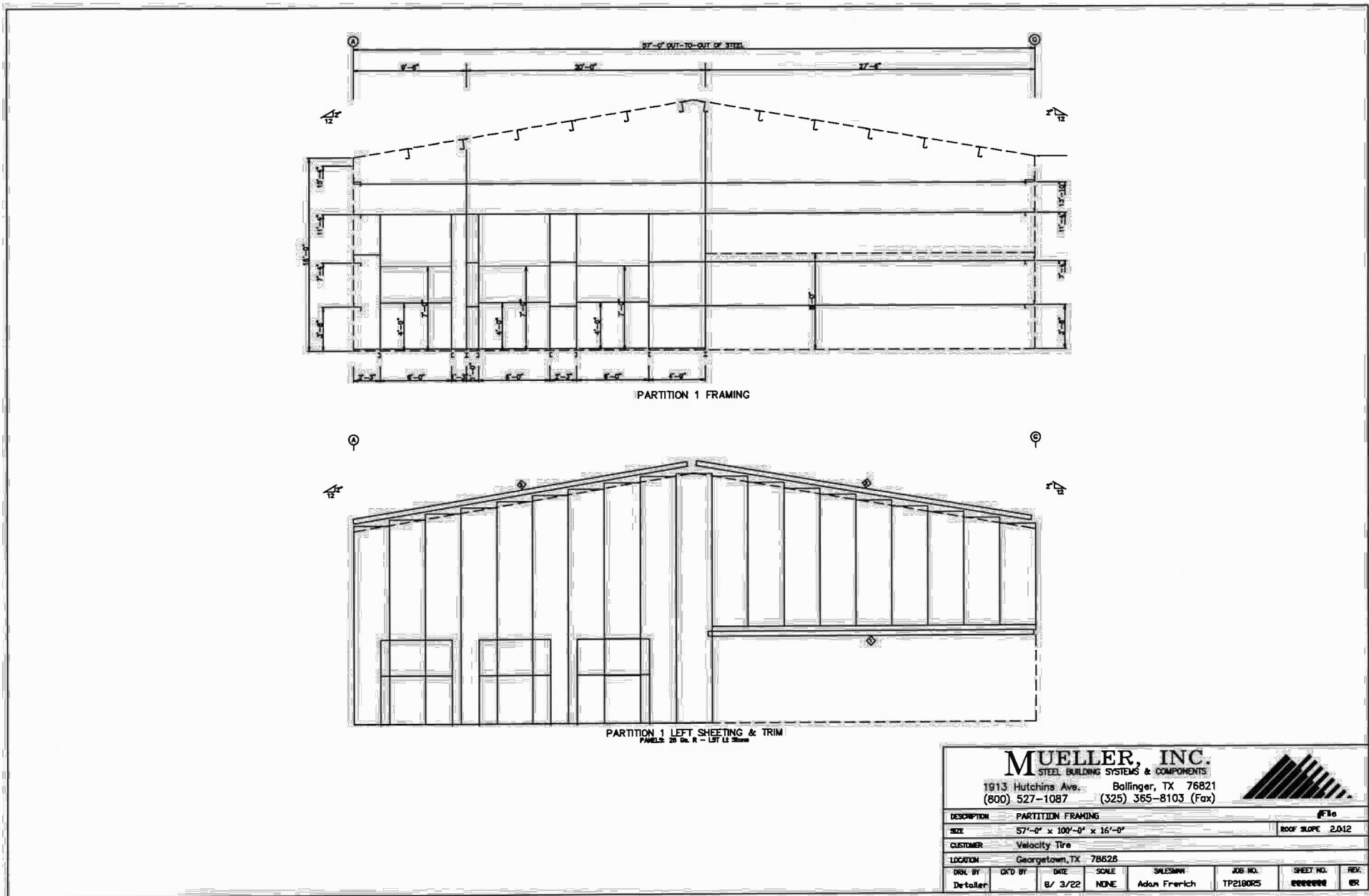
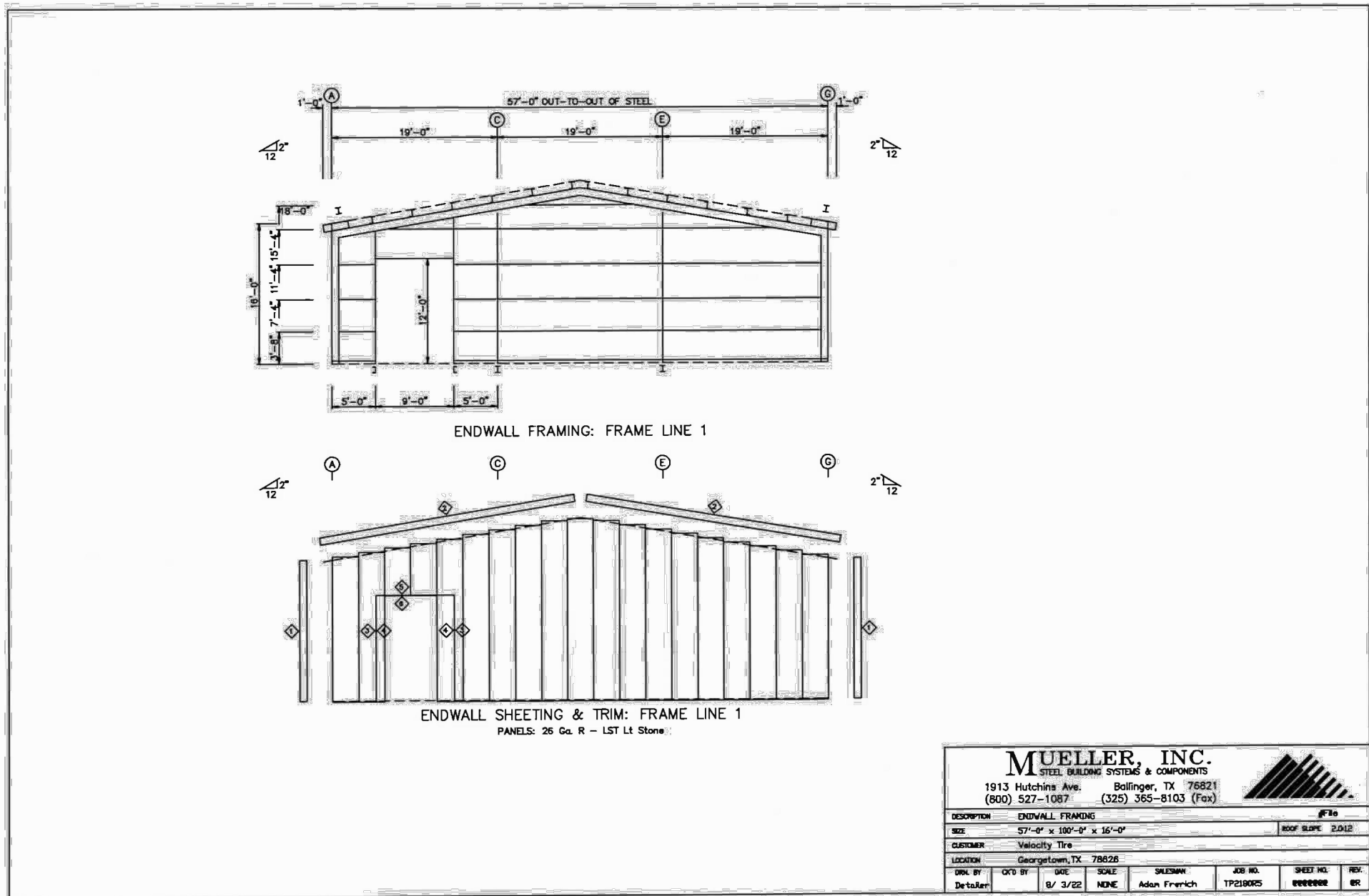
**C71**

22









(877) 268-3553



## Purchase Agreement Specifications

Steel Building Systems & Components

Salesperson: Adam Frerich Date: 8/3/2022 Job #:

### Submittals

- ☐ Mueller Supplied Components Designed to meet TX Windstorm Criteria
- ☐ See Additional Architectural Drawings
- ☐ Request for Express
- ☐ Request for Pre-Approved Custom

### Customer Data

Customer: Velocity Tire  
Cust. No.:  
Mail Address: Client Address 1  
City, State, Zip: San Angelo, Tx 76901  
Contact: Contact  
Day Phone: +  
Home Phone: +  
Cell Phone: +  
Fax: +  
Email: noel.sanchez7744@gmail.com

End User: Georgetown store  
Name:  
Jobsite Address:  
City, State, Zip: Georgetown, TX 78626  
County: Williamson  
General Contr:  
Address:  
City, State, Zip:  
Customer Type:

### Building Details

Building Type: • RF • SS • LT  
Width: 57,000' Peak Offset: 28,500'  
Length: 100,000'  
Front Side: 16,000'  
Back Side: 16,000'  
Roof Slope: 2,000 in 12  
Girt Type: Flush  
Side Wall Bay Spacing: 3 @ 26,0000', 1 @ 22,0000'

Frame ID	Frame Type*	Col Type*	Rafter Type*	Frame Line	# Int Co's
1	Rigid Frame	Tapered	Tapered	1	2
2	Rigid Frame	Tapered	Tapered	2	-
3	Rigid Frame	Tapered	Tapered	3	-
4	HP	Tapered	Tapered	4	1
5	HP	Tapered	Tapered	5	3

\* May change due to engineering requirements

### Building Code

(Provided by customer):  
Design Code: IBC'15  
Closed/Open: C  
Exposure: C  
Importance - Wind: 1.00  
Site Class: D  
Importance - Seismic: 1.00  
Seismic Coefficient: 0.1  
Importance - Snow: 1.00

Dead Load: 2.50 psf  
Live Load: 20.00 psf  
Load Reduction: Yes  
Ground Snow: 5.00 psf  
Collateral: 5.00 psf  
Wind Load: 115.00 mph

### Other Loads:

Crane Load? ☐ Yes • No  
Floor Load? ☐ Yes • No  
Parapet / Mansard? ☐ Yes ☐ No  
(Attach Separate Data Sheet)

Stepped elevations or structures within 20 feet? ☐ Yes • No

Building Use Classification: Standard Building  
Description of building use: SHOP/OFFICE

HEA PROJECT NO.22-033  
ISSUED DATE: 10/24/2023

ARCHITECTURAL  
DETAILS

THIS SHEET IS FOR REFERENCE  
ONLY

A1

24



GENERAL NOTES:

EXISTING UTILITY INFORMATION THAT IS SHOWN IN THESE DOCUMENTS IS APPROXIMATE AND FOR GENERAL INFORMATION ONLY. IT IS NOT INTENDED TO DEPICT EXACT LOCATIONS OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO STAKE AND FIELD VERIFY THE LOCATIONS INCLUDING DEPTHS OF ALL UTILITIES (EXISTING, PROPOSED BY OTHERS, OR CURRENTLY UNDER CONSTRUCTION), PRIOR TO COMMENCING ANY RELATED OPERATIONS. CONTRACTOR SHALL MAINTAIN UTILITY LOCATIONS/STRUCTURES DURING ALL PHASES OF WORK. THE CONTRACTOR SHALL REPORT TO THE OWNER'S REPRESENTATIVE ANY UTILITIES THAT MAY CONFLICT WITH PROPOSED WORK. THE CONTRACTOR SHALL EXPLORE, UNDERSTAND, AND COORDINATE (WITH OTHER SUBCONTRACTORS) ALL UTILITY IMPACTS PRIOR TO SUBMITTING BID AND SHALL BE RESPONSIBLE FOR ANY MODIFICATION OR DAMAGE TO UTILITY LINES, STRUCTURES, OR INJURIES THEREFROM. FOR EXISTING UTILITY INFORMATION, CONTACT THE ONE-CALL BOARD OF TEXAS @ 811 OR 800-545-6005. A MINIMUM NOTICE OF 3 BUSINESS DAYS IN ADVANCE OF LOCATIONAL NEEDS IS REQUIRED.

LANDSCAPE NOTES:

1.

COMPLETE ALL LANDSCAPE PLANTING AND RELATED EARTHWORK INCLUDING ALL PRODUCTS, EQUIPMENT AND LABOR, FOR THE LANDSCAPE AREAS SHOWN ON THE DRAWING AND DESCRIBED IN THE SPECIFICATIONS.
2.

ALL QUESTIONS SHOULD BE REFERRED TO THE PROJECT LANDSCAPE ARCHITECT.
3.

INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, LOCATIONS, AND AREAS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BIDDING & INSTALLATION.
4.

QUANTITIES SHOWN FOR PLANT MATERIALS ARE APPROXIMATE. ACTUAL INSTALLED QUANTITIES OF PLANT MATERIALS MAY VARY FROM THE PLAN AND SHOULD BE FIELD DETERMINED ACCORDING TO THE GIVEN SPACING AND FIELD CONDITIONS. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE PLAN WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
5.

BY BIDDING, THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS SATISFIED HIMSELF/HERSELF AS TO THE NATURE AND LOCATION OF THE WORK AND TO THE QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES INSOFAR AS THIS DATA IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF/ HERSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM/HER FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK AS DESCRIBED.
6.

INSTALLATION OF ALL LANDSCAPING MUST BE COORDINATED WITH THE INSTALLATION OF RELATED IRRIGATION, SITE WORK, AND GRADING.
7.

UNLESS SPECIFICALLY NOTED, INSTALL ALL MASSED PLANTING UTILIZING EQUILATERAL TRIANGULAR SPACING.
8.

EVENLY APPLY 3" OF MULCH TO ALL CONTINUOUS PLANTING BEDS. MULCH TO BE TRANSPORTED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO ENSURE ALL SUBSURFACE IRRIGATION IS COMPLETELY COVERED BY MULCH.
9.

SUBSTITUTIONS OF PLANT SPECIES, SIZES, OR OTHER SPECIFIED MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
10.

PLANT MATERIAL AND LAYOUT MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
11.

ALL IDENTIFICATION TAGS PROVIDED BY GROWERS AND PLACED ON TREES AND SHRUBS ARE TO REMAIN ON THE PLANTS THROUGH THE PUNCH-LIST INSPECTION. TAGS ARE TO BE REMOVED PRIOR TO FINAL ACCEPTANCE, OR UPON REQUEST OF THE PROJECT LANDSCAPE ARCHITECT.
12.

SEED MIX/SOLID SOD WILL BE APPLIED TO ALL CONSTRUCTION-DAMAGED GROUND SURFACES NOT OTHERWISE PLANTED. CONTRACTOR SHALL REVIEW RELATED CONSTRUCTION DRAWINGS FOR LIMITS OF CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR COORDINATING WITH OTHER SITE CONTRACTORS TO DETERMINE ACTUAL AREAS OF SEEDING REQUIRED, INCLUDING AREAS DISTURBED BY UTILITY EXTENSIONS. **CONTRACTOR TO INSTALL EROSION CONTROL BLANKETS ON ALL AREAS WITH SLOPE GREATER THAN 4:1.**
13.

THE LANDSCAPE CONTRACTOR SHALL EXCAVATE FULLY PREPARED PLANT BEDS AS REQUIRED TO ACCOMMODATE A FULL 8" OF PREPARED SOIL AND 3" MULCH LAYER. CLEAN, NATIVE TOPSOIL REMOVED FROM THESE BEDS MAY BE SPREAD ON NEARBY AREAS TO BE SODDED OR SEEDDED. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED AND DISPOSED OF OFF SITE. FOLLOWING EXCAVATION, PLACE PREPARED SOIL IN THESE PLANT BEDS. PREPARED SOIL SHALL CONSIST OF 5" IMPORTED "CHOCOLATE" LOAM TOPSOIL AND 3" ORGANIC COMPOST SOIL CONDITIONER (SUCH AS "LIVING EARTH TECHNOLOGIES", "BACK-TO-EARTH" OR OTHER APPROVED MANUFACTURER), THOROUGHLY BLENDED TOGETHER TO 20% MINIMUM ORGANIC CONTENT. THIS MIX SHALL ALSO BE USED TO BACKFILL PLANTING PITS OF ALL TREES. **CONTRACTOR SHALL SUBMIT PLANTING SOIL MATERIAL TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.**
14.

ALL PLANTING BEDS INDICATED WILL BE IRRIGATED WITH UNDERGROUND AUTOMATIC IRRIGATION. IRRIGATION CONTRACTOR IS TO BE A STATE OF TEXAS LICENSED IRRIGATOR, AND SHALL FOLLOW ALL TCEQ CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS AND SPECIFICATIONS FOR IRRIGATION SYSTEM INCLUDING PIPE SIZES AND LOCATIONS.
15.

ALL SEEDING AREAS DISTURBED BY CONSTRUCTION SHALL BE TEMPORARILY IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
16.

REGULAR MAINTENANCE IS REQUIRED OF ALL LANDSCAPE AREAS AND PLANT MATERIALS IN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PEST WEEDS, AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE, IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE PROJECT LANDSCAPE ARCHITECT.
17.

THE OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS. SAID AREAS SHALL BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. ALL PLANTING BEDS SHALL BE PROVIDED WITH A READILY AVAILABLE WATER SUPPLY AND WATERED AS NECESSARY TO ENSURE CONTINUOUS HEALTHY GROWTH AND DEVELOPMENT. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE ORDINANCE.
18.

NO TOPSOIL SHALL BE PLACED UNTIL SUBGRADE IS APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO FURNISH AND SPREAD TOPSOIL ON LAWN AREAS TO A DEPTH OF FOUR INCHES. WORK TOPSOIL TO A SMOOTH UNIFORM SURFACE AND COMPACT FIRMLY. FEATHER TOPSOIL INTO UNDISTURBED AREAS CREATING A SMOOTH, EVEN TRANSITION. SPREAD ADDITIONAL TOPSOIL IN UNDISTURBED AREAS TO ELIMINATE WATER PONDING. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED FROM TURF AREAS AND DISPOSED OF OFF SITE.
19.

NO CUTTING, FILLING, TRENCHING, ROOT DISTURBANCE, SOIL DISTURBANCE, OR CONSTRUCTION IMPACTS SHALL OCCUR TO THE TRUNK WITHIN THE CRITICAL ROOT ZONE UNLESS DONE BY HAND.
20.

FROM APRIL 1 TO SEPTEMBER 30, ONLY CONTAINER GROWN TREES MAY BE PLANTED. FROM OCTOBER 1 TO MARCH 31, EITHER CONTAINER GROWN OR BALL AND BURLAPPED TREES MAY BE PLANTED.

LANDSCAPE MAINTENANCE NOTES:

PROPERTY LANDSCAPING SHALL BE MAINTAINED AT ALL TIMES. THE QUALITY OF THE LANDSCAPE MAINTENANCE SHALL MEET STANDARDS OF PERFORMANCE PROVIDED BY LANDSCAPE COMPANIES IN THE REGION. LANDSCAPE AREAS WILL AT ALL TIMES HAVE A NEAT, CLEAN, HEALTHY, MANICURED APPEARANCE.

1.

TURF AREAS

A.

MOWING & EDGING OF ALL TURF AREAS SHALL BE PERFORMED AT LEAST ONCE PER WEEK.

B.

PERENNIAL GRASS OVERSEEDING SHALL BE SEPARATE & MUST BE APPROVED BY THE OWNER PRIOR TO START. OVERSEEDING SHALL BE SPREAD AT A RATE TO INSURE A LUSH, THICK CONSISTENT WINTER TURF. TRIMMING & EDGING OF TURF AREAS TO BE PERFORMED EACH VISIT.

C.

ALL TURF AREAS ARE TO BE FERTILIZED A MINIMUM OF FOUR TIMES PER YEAR W/ A HIGH QUALITY, SLOW RELEASE FERTILIZER FROM A REPUTABLE MANUFACTURER.

D.

CONTRACTOR SHALL APPLY APPROPRIATE FUNGICIDES AS NECESSARY & PRE-EMERGENT HERBICIDE TWO TIMES PER YEAR & POST-EMERGENT HERBICIDE AT THE TIME DEEMED MOST EFFICIENT & FAVORABLE BY CONTRACTOR.

E.

TURF TO BE TREATED AS NECESSARY W/ APPROPRIATE INSECTICIDE TO CONTROL SOIL PESTS.

F.

RAKING TO BE PERFORMED AS NEEDED TO MAINTAIN APPEARANCE. DE-THATCH & AERATE TURF ONCE DURING THE YEAR IN CONJUNCTION W/ RYE OVERSEEDING. IF OWNER OPTS TO NOT PERFORM OVERSEED, DE-THATCHING & AERATING TO BE PERFORMED IN EARLY SPRING.

G.

BAG ALL AREAS WITHIN 45 FEET OF BUILDINGS, DRIVEWAYS, & SIDEWALKS.
2.

SHRUBS, GROUND COVER, BEDS & ANNUALS

A.

TO BE MAINTAINED WEED FREE, AS NEEDED USING APPROPRIATE HERBICIDES & MANUAL WEEDING. USE A MINIMUM OF TWO PRE-EMERGENT APPLICATIONS & MANUALLY WEED EACH VISIT.

B.

TO BE FERTILIZED FOUR TIMES PER YEAR W/ A BALANCED HIGH QUALITY, SLOW RELEASE FERTILIZER, APPROPRIATE TO THE SHRUBS ON THE PROJECT.

C.

SHRUBBERY TO BE HAND TRIMMED AS SPECIFIED TO MAINTAIN A MANICURED APPEARANCE OR AS OTHERWISE REQUESTED BY OWNER. USE ONLY SKILLED PERSONNEL W/ SIGNIFICANT EXPERIENCE IN CLASS A PROPERTIES. NO SHEARING, ALL TO BE DONE W/ SELECTIVE HAND PRUNING TO KEEP PLANT WITHIN BOUNDS BUT TO MAINTAIN A NATURAL SHAPE & APPEARANCE.

D.

TO BE INSPECTED WEEKLY BY QUALIFIED SUPERVISOR, FOLLOWED BY A WRITTEN REPORT OF PROBLEMS DISCOVERED & ACTIONS TO BE TAKEN.

E.

AREAS TO BE SPRAYED W/ APPROPRIATE INSECTICIDES & FUNGICIDES, AS NECESSARY.

F.

ANNUALS TO BE CHANGED OUT FOUR (4) TIMES PER YEAR USING FOUR (4) INCH POTS & FERTILIZED AT EACH CHANGE. MONITOR & APPLY FUNGICIDES & INSECTICIDES TO INSURE MAXIMUM VIGOR.

G.

APPLY SHREDDDED HARDWOOD MULCH TO A DEPTH OF TWO INCHES, A MINIMUM OF THREE TIMES ANNUALLY. IF MULCH DEPTH ACCUMULATION BECOMES SO EXCESSIVE AS TO BE DETRIMENTAL TO PLANT HEALTH, RAKE OUT & DISPOSE OF EXCESS QUANTITIES OF THE OLDEST MATERIAL, OFF-SITE.

H.

ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE & CLEAR FROM ALL BUSHES/SHRUBS, ETC.

I.

A THREE-FOOT PERIMETER AROUND ALL FIRE HYDRANTS SHALL BE MAINTAINED
3.

LANDSCAPE TREES (4" CALIPER OR LESS)

A.

TO BE LIGHTLY PRUNED AS NECESSARY (AT LEAST ONCE A MONTH DURING GROWING SEASON).

B.

TO BE PRUNED & SHAPED ONCE DURING WINTER MONTHS. PRUNE TO CLASS I STANDARDS. NOTIFY MANAGEMENT PRIOR TO & IMMEDIATELY FOLLOWING PRUNING ACTIVITY. PRUNING TO BE DONE BY QUALIFIED TREE CARE FIRM, SUBJECT TO MANAGEMENT APPROVAL.

C.

DEEP ROOT FERTILIZE ALL LANDSCAPE TREES ONE TIME PER YEAR. SUBMIT INFORMATION ON MATERIALS, APPLICATION METHODS & APPLICATOR QUALIFICATION ONE WEEK PRIOR TO PERFORMING WORK TO OWNER'S REPRESENTATIVE.

D.

ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES
4.

LARGE TREES (GREATER THAN 4" CALIPER)

A.

CONTRACTOR SHALL INSPECT FOR INSECT, DISEASE INFESTATIONS & TREE DAMAGE SUCH AS LIGHTNING OR VEHICULAR DAMAGE. CONTRACTOR SHALL NOTIFY MANAGEMENT IMMEDIATELY OF SUCH DANGER OR DISEASE SO THAT CORRECTIVE ACTION CAN BE TAKEN.

B.

WHEN PRUNING IS REQUIRED TO REMOVE DEAD OR DAMAGED LIMBS, WORK IS TO BE DONE BY QUALIFIED TREE CARE FIRM. MANAGEMENT APPROVAL IS REQUIRED PRIOR TO PRUNING.

C.

ANY FERTILIZING RECOMMENDED BY QUALIFIED TREE CARE FIRM IS SUBJECT TO APPROVAL.

D.

ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES
5.

DEBRIS & LITTER

A.

NORMAL TRASH & LITTER WILL BE REMOVED FROM ALL LAWN & LANDSCAPED AREAS WEEKLY.

B.

ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
6.

PAVED AREAS

A.

AT PARKING LOT PERIMETERS & PAVING JOINTS, WEEDS & GRASSES ARE TO BE CONTROLLED W/ CONTACT HERBICIDE SPRAYS & MANUAL WEEDING AS REQUIRED.

B.

ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
7.

IRRIGATION

A.

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING & OPERATING ALL IRRIGATION SYSTEMS AT THE PROPERTY EXCEPT AS MAY BE OTHERWISE NOTED.

B.

IRRIGATION SYSTEMS MUST BE INSPECTED MONTHLY & A REPORT MUST BE SUBMITTED TO MANAGEMENT. MANAGEMENT MUST APPROVE REPAIRS GREATER THAN \$250.00.

C.

CONTRACTOR WILL ENSURE THAT WATERING CYCLES ARE IN COMPLIANCE W/ ANY CITY GUIDELINES AS A RESULT OF WATER RATIONING OR WATER CONSERVATION. ANY FEES OR PENALTIES INCURRED BY VIOLATION OF ORDINANCES WILL BE BILLED TO CONTRACTOR.

D.

ALL HEADS & NOZZLES BROKEN BY LANDSCAPE MAINTENANCE OPERATIONS WILL BE REPAIRED OR REPLACED AT CONTRACTOR EXPENSE, ALL NOZZLES WILL BE CLEANED MONTHLY IF NECESSARY, & ALL HEADS WILL BE ADJUSTED AS NEEDED.
8.

GENERAL

A.

CONTRACTOR SHALL PROVIDE ADEQUATE SUPERVISION TO ASSURE THAT ALL WORK WILL BE DONE IN ACCORDANCE W/ THIS AGREEMENT & GENERALLY ACCEPTED GOOD PRACTICE. A WEEKLY VISIT BY A QUALIFIED SUPERVISOR IS A MINIMUM REQUIREMENT. ADEQUATE TIME SHALL BE ALLOWED FOR A THOROUGH & COMPLETE EXAMINATION OF THE ENTIRE PROPERTY.

B.

CONTRACTOR SHALL REPLACE AT CONTRACTOR'S EXPENSE ANY PLANT MATERIAL THAT DIES DUE TO DAMAGE BY LAWN MAINTENANCE, EQUIPMENT OR CONTRACTOR'S NEGLIGENCE.

C.

ALL WORK SHALL BE PERFORMED BY CONTRACTOR'S EMPLOYEES; NO WORK SHALL BE PERFORMED BY SUBCONTRACTORS WITHOUT WRITTEN CONSENT OF MANAGEMENT.

D.

EMPLOYEES TO WEAR UNIFORMS & PROVIDE NEAT APPEARANCE & PROFESSIONAL BEHAVIOR.

E.

CREW MEMBERS WILL OBSERVE ALL OSHA REGULATIONS. ALL EQUIPMENT WILL BE PROPERLY MAINTAINED & KEPT IN A SAFE OPERATING CONDITION.

F.

ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE IMMEDIATELY CLEANED UP & REMOVED FROM SITE. USE OF AN ON-SITE DUMPSTER IS PROHIBITED.

G.

ADDITIONAL PROJECTS, LANDSCAPE UPGRADES, ETC. WILL BE NEGOTIATED AS NEEDED.

H.

POTS OR SIDEWALK PLANTERS AT PROPERTY SHALL BE MAINTAINED IN ACCORDANCE W/ ALL SPECS NOTED ABOVE. IRRIGATION SHALL BE MAINTAINED OR HAND WATER AS NEEDED.

CITY IRRIGATION NOTES

1.

AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH AN ELECTRONIC CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING.
2.

CONTROLLER(S) SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS.
3.

ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR SHUTOFF DEVICE.
4.

THE IRRIGATION SYSTEM SHALL BE DESIGNED BY A LICENSED IRRIGATOR.
5.

TREE IRRIGATION ZONES SHALL NOT SHARE THE SAME IRRIGATION ZONES, INCLUDING VALVES AND CIRCUITS, AS SHRUBS AND PLANTS DUE TO DIFFERENT WATERING REQUIREMENTS.
6.

A MINIMUM OF ONE (1) BUBBLER SHALL BE PROVIDED FOR ALL NEWLY PLANTED TREES. TREES LARGER THAN 3 INCHES IN CALIPER SHALL HAVE TWO (2) BUBBLERS. THE BUBBLER(S) SHALL BE INSTALLED AT EACH TREE, LOCATED 12-18 INCHES FROM THE TRUNK, AND SHALL OPERATE ON VALVES SEPARATE FROM THE SPRAY ZONES.
7.

NO TRENCHING OR BORING SHALL OCCUR WITHIN THE TREE PROTECTION FENCING OR CRZ WITHOUT PRIOR APPROVAL FROM THE CITY ARBORIST OR ADMINISTRATOR.
8.

IRRIGATION PLANS SHALL BE SUBMITTED AND APPROVED PRIOR TO IRRIGATION INSTALLATION AND FINAL SITE INSPECTION.

LANDSCAPE PLAN NOTES:

1.

THE CONVENTIONAL SYSTEM FOR IRRIGATION HAS BEEN SELECTED FOR THIS DEVELOPMENT. (CHOOSE ONE FROM BELOW)

1.1.

CONVENTIONAL SYSTEM: AN AUTOMATIC OR MANUAL UNDERGROUND IRRIGATION SYSTEM, WHICH MAY HAVE CONVENTIONAL SPRAY OR BUBBLER TYPE HEADS.
- 1.2.

DRIP OR LEAKY-PIPE SYSTEM: AN AUTOMATIC OR MANUAL UNDERGROUND IRRIGATION SYSTEM IN CONJUNCTION WITH A WATER-SAVING SYSTEM, WHICH IS A DRIP OR A LEAKY-PIPE SYSTEM.
- 1.3.

TEMPORARY AND ABOVE-GROUND WATERING: LANDSCAPE AREAS UTILIZING XERISCAPING PLANTS AND INSTALLATION TECHNIQUES, INCLUDING AREAS PLANTED WITH NATIVE GRASSES, WILDFLOWERS, AND TREES MAY USE A TEMPORARY AND ABOVE GROUND SYSTEM, AND SHALL BE REQUIRED TO PROVIDE IRRIGATION FOR THE FIRST THREE (3) GROWING SEASONS.
2.

A SEPARATE IRRIGATION PLAN SHALL BE PROVIDED AT THE TIME OF APPLICATION FOR A BUILDING PERMIT.
3.

MAINTENANCE: THE CURRENT OWNER AND SUBSEQUENT OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPED AREAS AND MATERIALS, REQUIRED BUFFER YARD AREAS AND MATERIALS AND REQUIRED SCREENING MATERIALS. SAID AREAS MUST BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. MAINTENANCE WILL INCLUDE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE UDC. ALL SUCH PLANTS SHALL BE REPLACED WITHIN SIX (6) MONTHS OF NOTIFICATION, OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST. A PROPERTY/ HOMEOWNERS ASSOCIATION MAY ASSUME RESPONSIBILITY OF MAINTENANCE OF COMMON AREAS.
4.

THIS LANDSCAPE PLAN HAS BEEN PREPARED AND CERTIFIED BY A LANDSCAPE ARCHITECT TO MEET ALL THE REQUIREMENTS OF THE CITY OF GEORGETOWN UNIFIED DEVELOPMENT CODE. (PROVIDE INDIVIDUALS CONTACT INFORMATION AND CERTIFICATION ON LANDSCAPE PLAN.)
5.

ALL PLANT SELECTIONS HAVE BEEN CHOSEN FROM THE CITY OF GEORGETOWN PREFERRED PLANT LIST.
6.

NO MORE THAN 25% OF PLANTINGS HAVE BEEN SELECTED FROM ANY ONE SPECIES (IF PLANTING MORE THAN 5 TREES OR 10 SHRUBS).
7.

AT LEAST 50% OF THE REQUIRED PLANT MATERIALS ARE LOW WATER USERS AS IDENTIFIED ON THE PREFERRED PLANT LIST.

HEA PROJECT NO.22-033  
ISSUED DATE: 10/24/2023

LANDSCAPE NOTES

LA0.00

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sheet information ::

project #: 23.996  
date :: 09.05.23  
designed :: rk  
drawn :: rk  
checked :: bs  
approved :: bab

LA0.00

LANDSCAPE NOTES



KEY	TREE		SIZE		Species	Condition
	#	(in inches)				
NP	263	9			Oak	
R	264	16			Oak	
NP	265	10			Oak	
NP	266	11			Oak	
R	267	12			Oak	
R	268	14			Oak	
R	269	15			Oak	
NP	270	10			Oak	
R	271	12			Oak	
NP	272	6			Oak	
R	273	14			Oak	
NP	274	10			Oak	
R	275	12			Oak	
NP	276	10			Oak	
R	277	12			Oak	
NP	278	8			Oak	
R	279	22			Oak	
P	280	22			Oak	
NP	281	10			Oak	
NP	282	9			Oak	
NP	283	4			Oak	
R	284	13			Oak	
NP	285	10			Oak	
R	286	22			Oak	
R	287	17			Elm	
R	289	19			Elm	
OFFSITE	288	15			Elm	
OFFSITE	290	16			Elm	

Column Summary:					
P	1	ea. /	22	in.	
R	13	ea. /	200	in.	
HT	0	ea. /	0	in.	
R-HT	0	ea. /	0	in.	
C	0	ea. /	0	in.	

Key Legend:					
P	Protected Trees Preserved (12"+)				
NP	Not a Protected Tree (Removed)				
NP	Protected Trees Removed (1:1 replacement ratio 12"-25.5")				
HT	Heritage Tree Preserved (26"+)				
R-HT	Removal of Heritage Tree (3:1 replacement ratio)				
C	Credit Trees Preserved (6"-11.5")				
D	Tree is Dead, Diseased or Determined to not be Suitable for Preservation				
OFFSITE	Surveyed Tree Outside Property Boundary (Not included in Calculations)				

Tree Mitigation Calculations:					
Protected Trees Removed:	200.0	Inches	x 40%	80	Inches to Mitigate
Credit Trees - On Site Existing:				=	Inches Preserved
				80	Inches owed
Proposed (1:1) Mitigation:	14 Trees		x 3"	42	
	13 Trees		x 1.5"	19.5	
				61.5	On-Site Inches Proposed
Mitigation by Payment:	19 Inches		x \$175	\$ 3,237.50 Payment to be Paid	
Payment rate: (12"-17" x \$125) , (18"+ x \$175)					
Heritage Trees Removed:	0	Inches	x 3	0	Inches owed
Proposed (3:1) Mitigation:	0	Trees	x 3" cal.	0	On-Site Inches Proposed
Additional Mitigation by Payment:					
Per City Ordinance 8.02.030 (E)(2)(b) - mitigation of 1.5x for tree (inches) removed beyond the min. req. to be preserved					
Total Number of Protected Trees Required to Remain:			3		
Total Number of Protected Trees Proposed to Remain:			1		
Delta in Protected Trees to Remain:			2		
Assume Last 2 Trees on the list:					
1	R	289	19	Elm	0
2	R	287	17	Elm	0
			36		inches to be mitigated at 1.5x (\$125 x 1.5=\$187.50)
Total Fee to be Paid:				\$ 6,750.00 Payment to be Paid	
				\$ 9,987.50 Total Fee-In-Lieu of Planting	

Tree Mitigation Summary					
Required Protected Tree Preservation Percentage (UDC Sec. 8.02.030.E)					
Percentage of Protected Trees that must be retained on site (not applicable to residential subdivisions or Heritage Trees)					
Project acreage: 0.92 acres					
Total number of Protected Trees existing on-site: 14					
Average number of protected trees per acre: 15.2					
Applicable Required Protected Tree Preservation percentage: .20%					
Number of existing protected trees to remain on-site: 3					
Owed Mitigation for Protected Removals					
Protected tree mitigation inches owed within required percentage: 80 in. (40% of 200 in. removed)					
Protected tree mitigation inches owed more than the allowable percentage: 0 in.					
Overall protected tree mitigation inches owed: 80 in.					
Credit Trees - On-Site Planted Trees					
Inches of shade trees planted on-site: 61.5 in.					
Credit Trees - On-Site Existing Trees (3 - <12" trees only)					
May count for up to 75% of overall required Protected Tree mitigation inches (does not count towards Heritage Tree mitigation)					
Note: Credit trees count tree per tree toward landscape requirement tree replacements not in inches					
Maximum available on-site credit tree discount: n/a					
Number of on-site credit trees (6 - <12" trees only) available for maximum discount: n/a					
Number of on-site credit trees (3 - <6" trees only) available for maximum discount: n/a					
Soil Aeration & Supplemental Nutrients Credit - Up To 30%					
Must provide Fiscal Surety before Certificate of Occupancy may be issued					
Maximum inches that can count towards soil aeration & supplemental nutrient credit: n/a					
Maximum soil aeration or supplemental nutrient payment: n/a					
Total inches used for soil aeration or supplemental nutrient: n/a					
Owed Mitigation for Heritage Tree Removals					
Overall Heritage Tree mitigation inches owed: n/a					
Number of three-inch trees owed: n/a					
Cash Payout					
Goes into the Tree Fund for both Protected and Heritage Trees					
Amount owed by fee-in-lieu: \$9,987.50.00					
Protected Tree fee-in-lieu payment: \$3,237.50					
Heritage Tree fee-in-lieu payment: n/a					
Mitigation for Trees removed beyond the minimum required amount to be preserved (per 8.02.030(E)(2)(b))					
\$6,750.00					

## PLANT SCHEDULE

TREES	QTY	COMMON / BOTANICAL NAME	SIZE	DESCRIPTION
	7	LIVE OAK QUERCUS VIRGINIANA	3" CAL	10'-12' H X 5'-6" W
	7	TEXAS RED OAK QUERCUS TEXANA	3" CAL	10'-12' H X 5'-6" W
	7	WAX MYRTLE MYRICA CERIFERA	15 GAL	5'-6" H X 5'-6" W
	6	YAUPON HOLLY ILEX VOMITORIA	15 GAL	5'-6" H X 5'-6" W
SHRUBS	QTY	COMMON / BOTANICAL NAME	SIZE	DESCRIPTION
	41	DWARF SOUTHERN WAX MYRTLE MYRICA PUSILLA	3 GAL	PER TNLA STANDARDS & SPECS
	41	DWARF YAUPON ILEX VOMITORIA 'NANA'	3 GAL	PER TNLA STANDARDS & SPECS
	41	PLUM DELIGHT FRINGE-FLOWER LOROPETALUM CHINENSE	3 GAL	PER TNLA STANDARDS & SPECS
	42	TEXAS SAGE LEUCOPHYLLUM FRUTESCENS	3 GAL	PER TNLA STANDARDS & SPECS
	59	TRAILING LANTANA LANTANA MONTEVIDENSIS 'PURPLE'	1 GAL	PER TNLA STANDARDS & SPECS
SOD/SEED	QTY	COMMON / BOTANICAL NAME	CONT	DESCRIPTION
	16,505 SF	BUFFALO GRASS BOULELOUA DACTYLOIDES	HYDROSEED	PER TNLA STANDARDS & SPECS

	Landscape Area Required	Landscape Area Proposed	Shrubs Required	Shrubs Proposed	Evergreen Shrubs Required	Evergreen Shrubs Proposed	Evergreen Ornamental Trees Required	Evergreen Ornamental Trees Proposed	Shade Trees Required	Shade Trees Proposed
Gateway Overlay District Landscaping - Section 8.04.050 (If applicable)										
Gateway Landscape Required										
Minus <20" Landscape Credit Trees Counted										
Minus 20" Landscape Credit Trees Counted x 2										
Gateway Landscape Provided										
Total	N/A									
Street Yard Landscaping - Section 8.04.030										
Street Yard Landscape Required	2,730 sf		3 ea		N/A		N/A		1 ea	
Minus <20" Landscape Credit Trees Counted				N/A		N/A		N/A		N/A
Minus 20" Landscape Credit Trees Counted x 2				N/A		N/A		N/A		2
Minus area or plantings that can be credited from Gateway Landscaping		N/A		N/A		N/A		N/A		N/A
Street Yard Landscape Provided		5,454 sf		53 ea		N/A		N/A		5 ea
Total	2,730 sf	5,454 sf	3 ea	53 ea		N/A		N/A	1 ea	7 ea
Parking Lot Landscaping -Section 8.04.040										
Parking Lot Landscape Required	350 sf								2 ea	
Minus area or plantings that can be credited towards Street Yard Landscaping		N/A						N/A		N/A
Minus <20" Landscape Credit Trees Counted		N/A						N/A		N/A
Minus 20" Landscape Credit Trees Counted x 2		N/A						N/A		N/A
Parking Lot Landscape Provided		994 sf						N/A		9 ea
Total	350 sf	994 sf						N/A	2 ea	9 ea
Bufferyard Landscaping - Section 8.04.060 (If applicable)										
Bufferyard Landscape Required	4,680 sf		N/A		48 ea		12 ea		6 ea	
Minus <20" Landscape Credit Trees Counted		N/A		N/A		N/A		N/A		N/A
Minus 20" Landscape Credit Trees Counted x 2		N/A		N/A		N/A		N/A		N/A
Minus area or plantings that can be credited from Gateway Landscaping		4,680 sf	N/A	N/A	48 ea	48 ea	12 ea	12 ea	6 ea	6 ea
Total	4,680 sf	4,680 sf	N/A	N/A	48 ea	48 ea	12 ea	12 ea	6 ea	6 ea
Screening - Section 8.04.060 (If applicable)										
Total					YES	YES				
Grand Total	7,780 sf	14,138 sf	3 ea	53 ea	48 ea	48 ea	12 ea	12 ea	9 ea	22 ea

HEA PROJECT NO.22-033  
ISSUED DATE: 10/24/2023

### TREE SURVEY LIST & MITIGATION CHART

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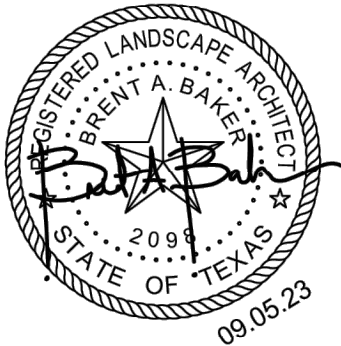
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#### sheet information ::

project #: 23.996  
date :: 09.05.23  
designed :: rk  
drawn :: rk  
checked :: bs  
approved :: bab

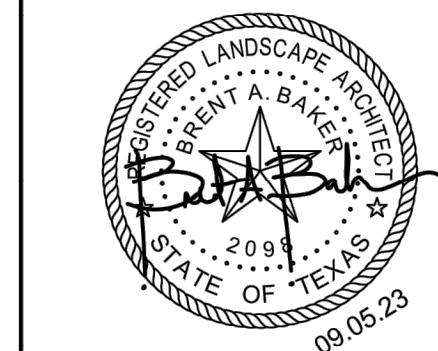
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TREE SURVEY LIST  
& MITIGATION CHART



<div>24x36</div> <div>20'</div> <div>SCALE: 1"=20'-0"</div>	<div>12x18</div> <div>40'</div> <div>SCALE: 1"=40'-0"</div>	
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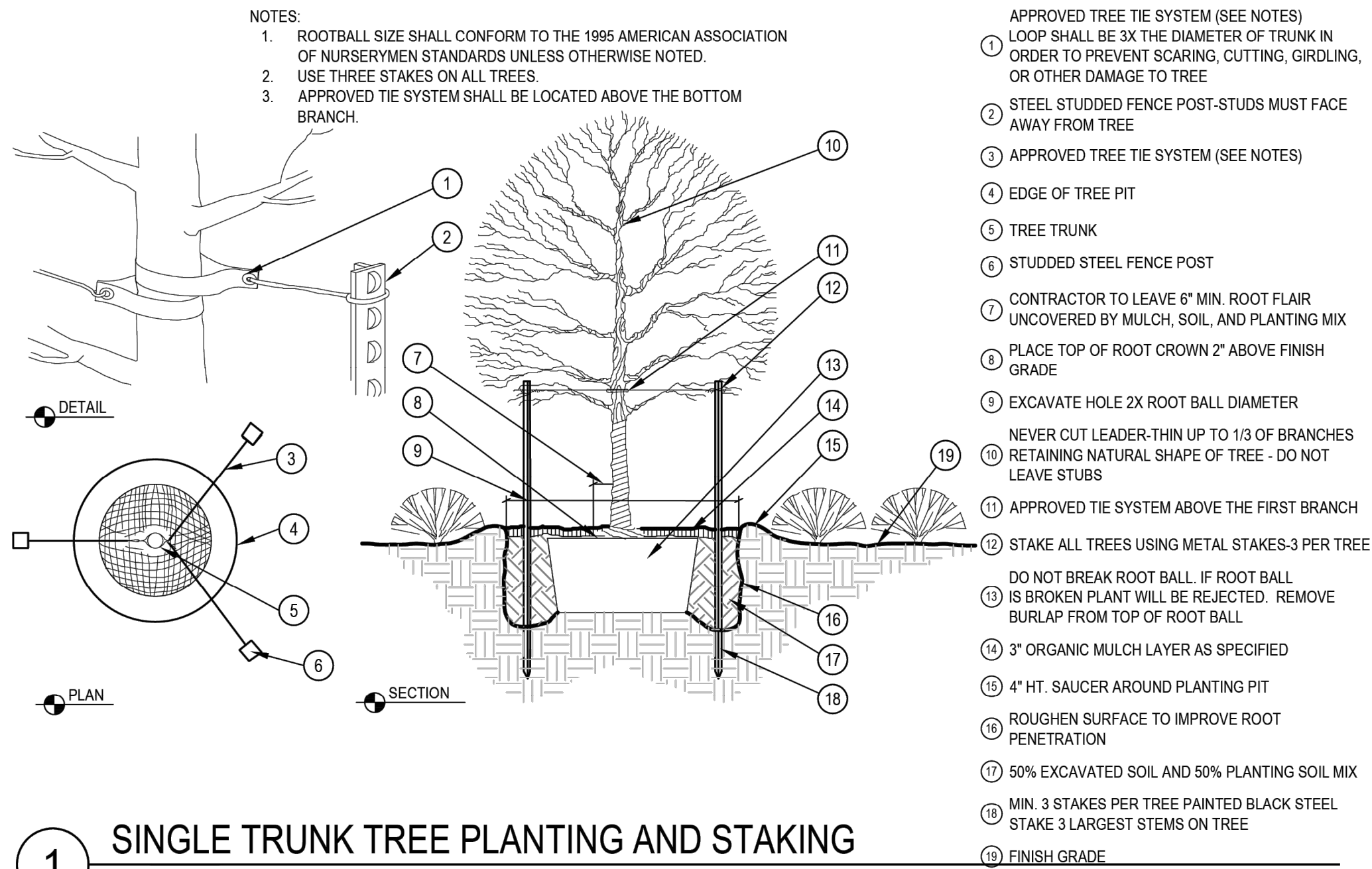
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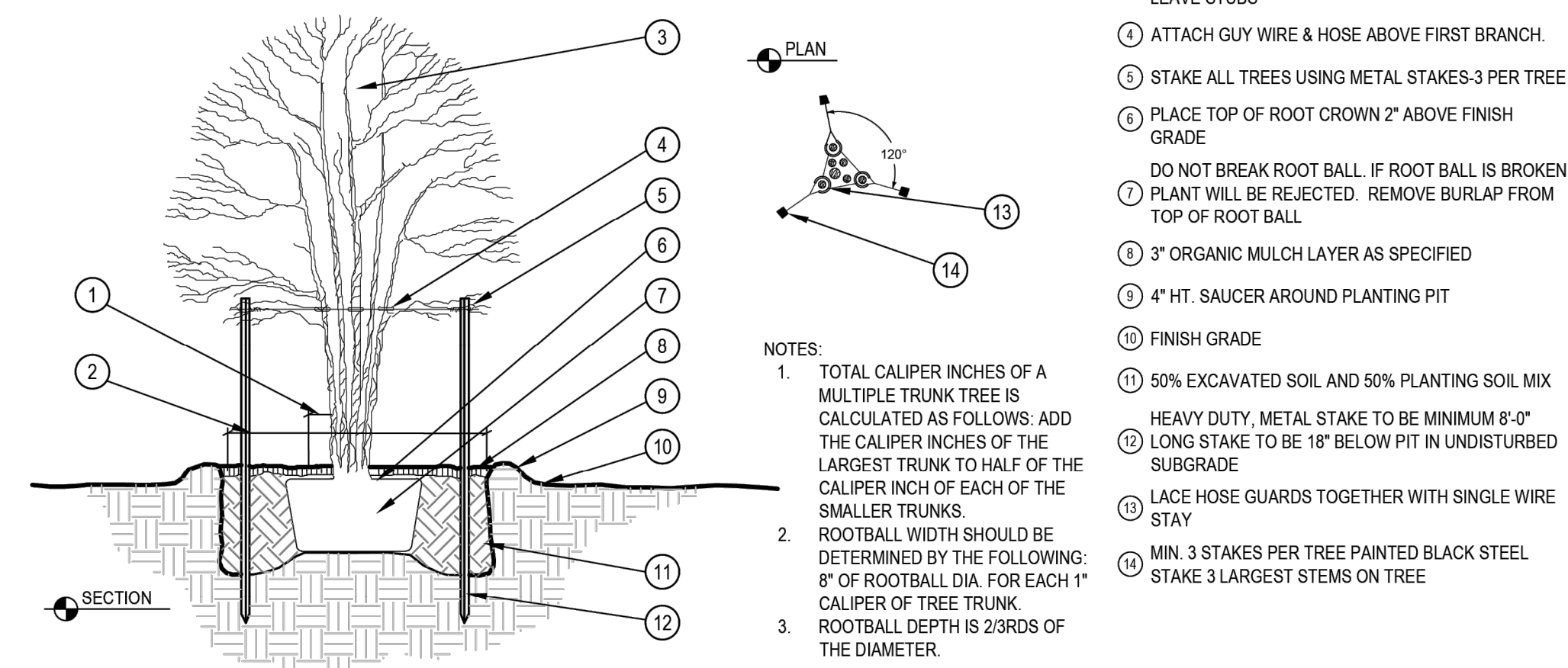
project #::	23.996
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LA1.00  
LANDSCAPE PLAN

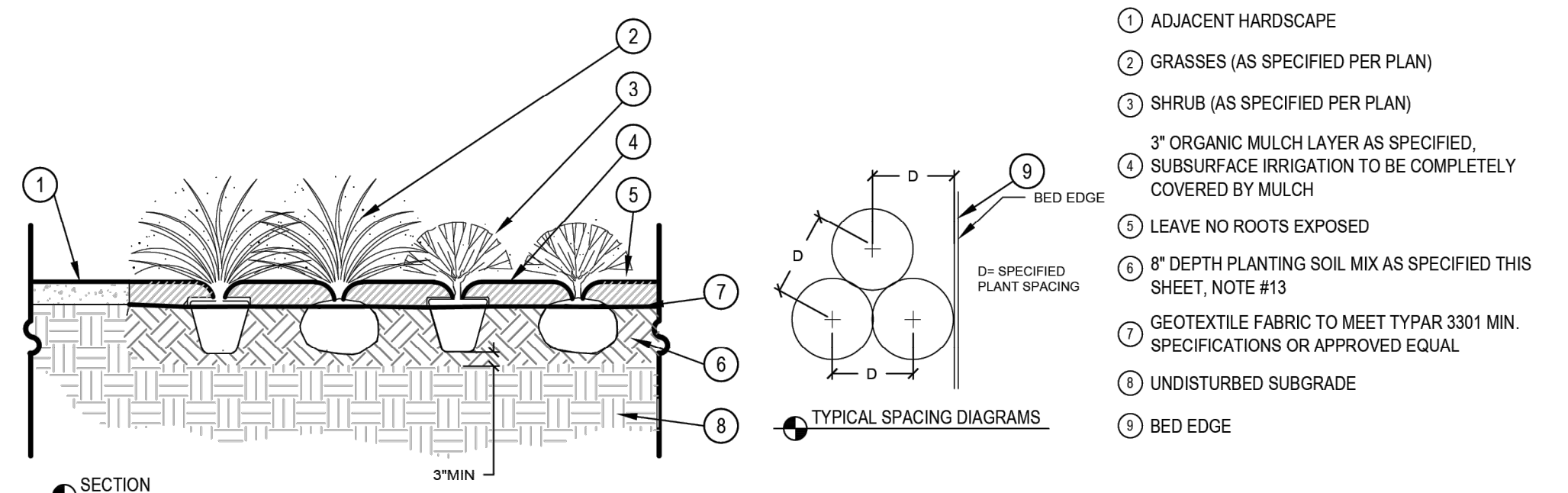




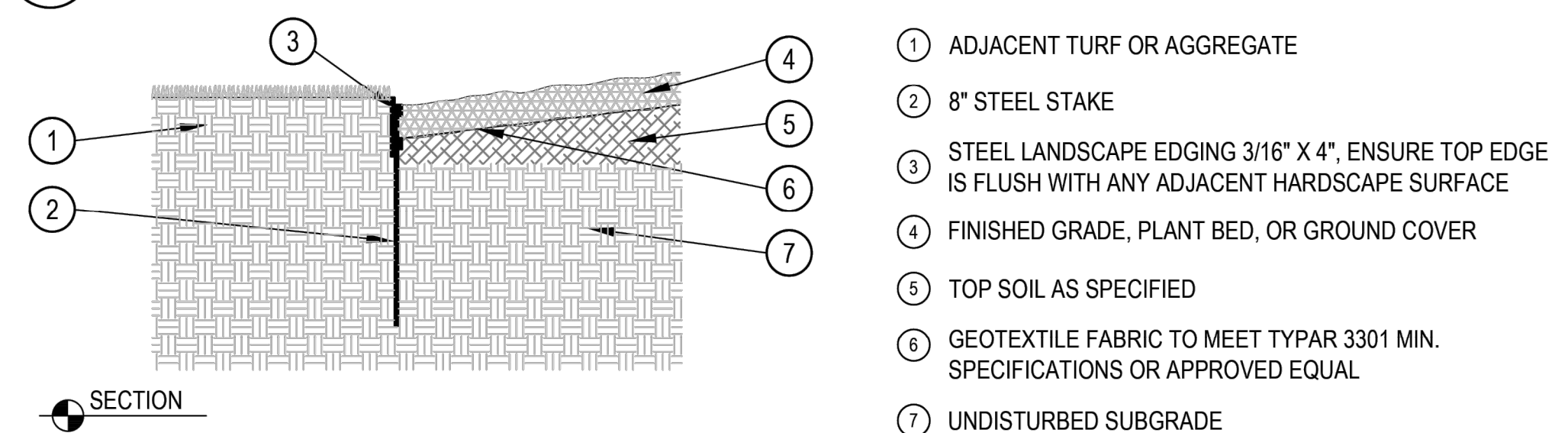
## 1 SINGLE TRUNK TREE PLANTING AND STAKING



## 2 MULTI-STEM TREE PLANTING AND STAKING



## 3 SHRUB / GRASS PLANTING



## 4 STEEL EDGING

HEA PROJECT NO. 22-033  
ISSUED DATE: 10/24/2023

**LANDSCAPE NOTES  
& DETAILS**

**LA5.01**

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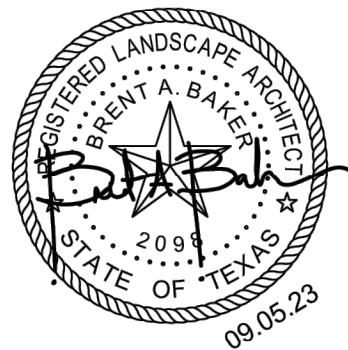
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LANDSCAPE  
NOTES & DETAILS