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TCEQ WPAP APPLICATION

For

RR Brake Check Automotive Service Center

Prepared for:

**Peveto Companies, Ltd.
ATTN: David Peveto
320 E. Nakoma Drive
San Antonio, TX 78216
(210) 483-4130**

Prepared by:

**LJA ENGINEERING, INC.
2700 La Frontera Blvd
Ste. 150
Round Rock, Texas 78681
TBPE# 1386
Phone: (512) 767-7300**

May 2023



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Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.
2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited.**
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: RR Brake Check				2. Regulated Entity No.:						
3. Customer Name: Peveto Companies, Ltd.				4. Customer No.:						
5. Project Type: (Please circle/check one)		<input checked="" type="radio"/> New	<input type="radio"/> Modification			<input type="radio"/> Exception				
6. Plan Type: (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	<input type="radio"/> Technical Clarification	<input type="radio"/> Optional Enhanced Measures
7. Land Use: (Please circle/check one)		<input type="radio"/> Residential	<input checked="" type="radio"/> Non-residential			8. Site (acres):		1.060		
9. Application Fee:		\$4,000 WPAP		10. Permanent BMP(s):			Extended Batch Detention Pond			
11. SCS (Linear Ft.):				12. AST/UST (No. Tanks):						
13. County:		Williamson		14. Watershed:			Chandler Branch			

Application Distribution

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

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

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

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	<u> </u> X <u> </u>
Region (1 req.)	—	—	<u> </u> X <u> </u>
County(ies)	—	—	<u> </u> X <u> </u>
Groundwater Conservation District(s)	<u> </u> Edwards Aquifer Authority	<u> </u> Barton Springs/ Edwards Aquifer	NA
	<u> </u> Barton Springs/ Edwards Aquifer		
	<u> </u> Hays Trinity		
	<u> </u> Plum Creek		
City(ies) Jurisdiction	<u> </u> Austin	<u> </u> Austin	<u> </u> Austin
	<u> </u> Buda	<u> </u> Bee Cave	<u> </u> Cedar Park
	<u> </u> Dripping Springs	<u> </u> Pflugerville	<u> </u> Florence
	<u> </u> Kyle	<u> </u> Rollingwood	<u> </u> Georgetown
	<u> </u> Mountain City	<u> </u> Round Rock	<u> </u> Jerrell
	<u> </u> San Marcos	<u> </u> Sunset Valley	<u> </u> Leander
	<u> </u> Wimberley	<u> </u> West Lake Hills	<u> </u> Liberty Hill
	<u> </u> Woodcreek		<u> </u> Pflugerville
			<u> </u> X 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> Edwards Aquifer Authority	<u> </u> Kinney	<u> </u> EAA	<u> </u> EAA
	<u> </u> Trinity-Glen Rose			<u> </u> Medina	
City(ies) Jurisdiction	<u> </u> Castle Hills	<u> </u> Bulverde	NA	<u> </u> San Antonio ETJ (SAWS)	NA
	<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				

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.

Justin Madding, P.E

Print Name of Customer/Authorized Agent



4/13/23

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: Justin Madding, P.E

Date: 4-13-2023

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: RR Brake Check
2. County: Williamson
3. Stream Basin: Chandler 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: David Peveto
Entity: Peveto Companies, Ltd.
Mailing Address: 320 E. Nakoma Drive
City, State: San Antonio, TX Zip: 78216
Telephone: (210) 483-4130 FAX: _____
Email Address: David@brakecheck.com

8. Agent/Representative (If any):

Contact Person: Justin Madding, P.E.
Entity: LJA Engineering, Inc.
Mailing Address: 2700 La Frontera Ste 150
City, State: Round Rock, TX Zip: 78681
Telephone: (512) 439-4700 FAX: _____
Email Address: jmadding@lja.com

9. Project Location:

- The project site is located inside the city limits of Round Rock.
- 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.

800' south of the Dutch Bros Coffee along the east side of the IH-35 north frontage road between E Old Settlers Blvd and University Oaks Blvd.

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: 4/13/23

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.

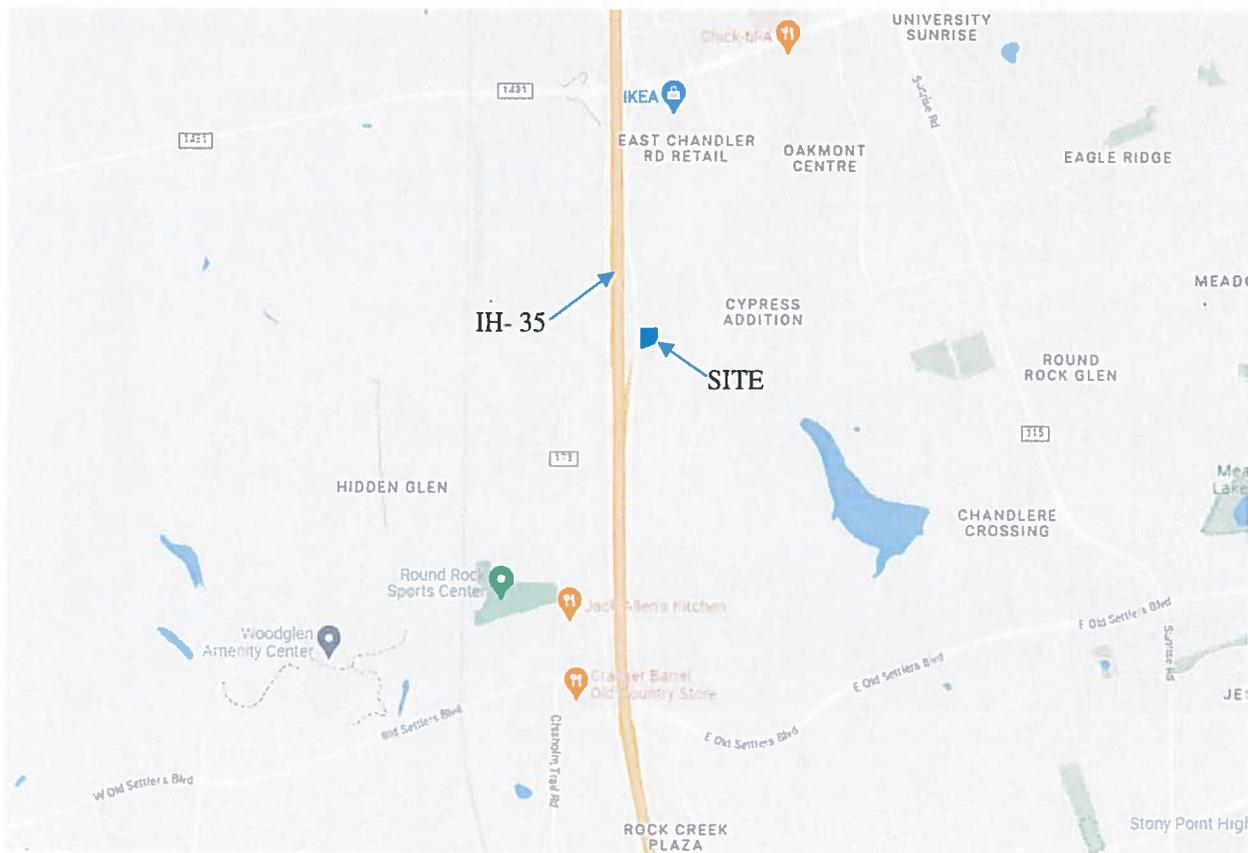
General Information Form
ATTACHMENT A

TCEQ WPAP APPLICATION

RR Brake Check

Williamson County, Texas

ROAD MAP



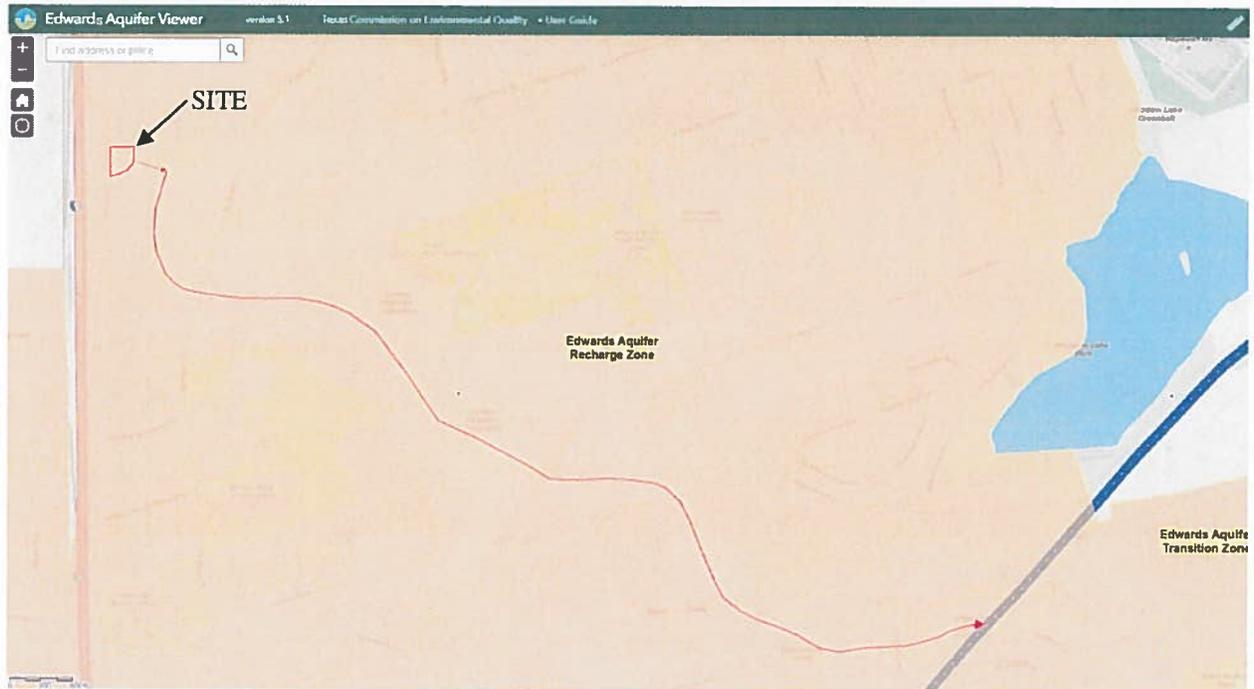
General Information Form
ATTACHMENT B

TCEQ WPAP APPLICATION

RR Brake Check

Williamson County, Texas

USGS /EDWARDS ZONE RECHARGE MAP



General Information Form
ATTACHMENT C

TCEQ WPAP APPLICATION

RR Brake Check

Williamson County, Texas

PROJECT DESCRIPTION:

The Round Rock Brake Check project proposes the construction of a single-story building and site related infrastructure. The site is located 800' south of the Dutch Bros Coffee on the east side of the IH-35 north frontage road between E Old Settlers Blvd and University Oaks Blvd. The project site is a platted legal 1.06-acre lot as Shops South of University Oaks Blvd Block A, Lot 6, Doc #2020085540 OPRWCTX. The proposed development is located within the City of Round Rock city limits. This project is located over the Edwards Aquifer Recharge Zone and within the Chandler Branch Watershed. The building footprint is 3,570 square feet and its proposed use is an automotive repair shop. Access drives, parking, vehicle circulation, and sidewalks will provide access from the existing Right of Way to the proposed buildings. The total proposed impervious cover for this development is 0.542 acres or 51.13%. An extended batch detention pond was designed to meet TSS removal requirements using the TCEQ Technical Guidance Manual. Stormwater is conveyed to this proposed BMP via sheet flow and gutter flow to two low points in the driveways. At these points the water spills into the pond via curb cuts.

Under current conditions, the lot is vacant and undeveloped. The site has no trees and gently sloped at approximately 1% to 5%. The site drains relatively from west to east to the Chandler Branch drainage channel.



Environmental Services, Inc.

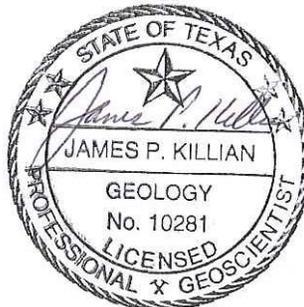
**GEOLOGIC ASSESSMENT
APPROXIMATELY 26-ACRE
IH 35 AT UNIVERSITY OAKS PROJECT
IH 35 AND UNIVERSITY OAKS BOULEVARD
ROUND ROCK, WILLIAMSON COUNTY, TEXAS
HJN 180250 GA**

PREPARED FOR:

**LJA ENGINEERING, INC
AUSTIN, TEXAS**

PREPARED BY:

**HORIZON ENVIRONMENTAL SERVICES, INC.
TBPG FIRM REGISTRATION NO. 50488**



NOVEMBER 2018

University Oaks University Oaks 180250 GA

CORPORATE HEADQUARTERS
1507 S Interstate 35 ★ Austin, TX 78741-2502 ★ (512) 328-2430 ★ www.horizon-esi.com
An LJA Company

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- A GEOLOGIC ASSESSMENT TABLE
- B STRATIGRAPHIC COLUMN
- C DESCRIPTION OF SITE GEOLOGY
- D SITE GEOLOGIC MAP
- E SUPPORTING INFORMATION
- F ADDITIONAL SITE MAPS
- G SITE PHOTOGRAPHS

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: James Killian

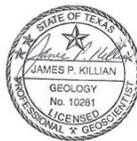
Telephone: 512 328-2430

Date: 1 November 2018

Fax: 512 328-1804

Representing: Horizon Environmental Services, Inc. and TBPG Firm Registration No. 50488
(Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: 26-acre IH 35 at University Oaks Project, IH 35 and University Oaks Boulevard, Round Rock, Williamson County, Texas

Project Information

1. Date(s) Geologic Assessment was performed: 17 October 2018

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)
Crawford clay, 1-3% slopes (CfB)	D	1.5 to 2.5
Eckrant extremely stony clay, 0-3% slopes (EeB)	D	0 to 1
Eckrant cobbly clay, 1-8% slopes (EaD)	D	0 to 1

Soil Name	Group*	Thickness(feet)
Tinn clay, 0-1% slopes, frequently flooded (Tn)	D	4 to 6

** 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" = 200'

Site Geologic Map Scale: 1" = 200'

Site Soils Map Scale (if more than 1 soil type): 1" = 300'

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

Administrative Information

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

ATTACHMENT A
GEOLOGIC ASSESSMENT TABLE

ATTACHMENT B
STRATIGRAPHIC COLUMN

Geologic Unit	Hydrologic Unit	Approx. Thickness at Project Site (ft)	Elevation (ft msl)	Depth (ft)
Edwards Formation (Ked)	Edwards Aquifer	250	745	0
Comanche Peak Formation (Kc)		60	495	250
Walnut Formation (Kwa)	Confining Unit	175	435	310
			260	485

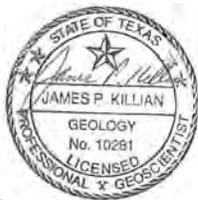
Note: Unit elevations and thicknesses given with respect to a ground surface elevation of 745 ft msl on the northwestern portion of the subject site.



Stratigraphic Column
 26-acre IH 35 at University Oaks Project
 IH 35 and University Oaks Boulevard
 Round Rock, Williamson County, Texas

Geologic Unit	Hydrologic Unit	Approx. Thickness at Project Site (ft)	Elevation (ft msl)	Depth (ft)
Georgetown Formation (Kgt)		30	750	0
Edwards Formation (Ked)	Edwards Aquifer	250	720	30
Comanche Peak Formation (Kc)		60	470	280
Walnut Formation (Kwa)	Confining Unit	175	410	340
			235	515

Note: Unit elevations and thicknesses given with respect to a ground surface elevation of 750 ft msl on the southwestern corner of the subject site.



Stratigraphic Column
 26-acre IH 35 at University Oaks Project
 IH 35 and University Oaks Boulevard
 Round Rock, Williamson County, Texas

ATTACHMENT C
DESCRIPTION OF SITE GEOLOGY

Geologic information for the subject site obtained via literature review is provided in Attachment E, Supporting Information.

A geologic assessment of the approximately 26-acre Interstate Highway (IH) 35 at University Oaks Project was conducted pursuant to Texas rules for regulated activities on the Edwards Aquifer Recharge Zone (EARZ) (30 TAC 213). The subject site consists of undeveloped rangeland located east of IH 35 and south of University Oaks Boulevard in Round Rock, Williamson County, Texas. Assessment findings were used to develop recommendations for site construction measures intended to be protective of water resources at the subject site and adjacent areas.

The entire subject site is located within the Edwards Aquifer Recharge Zone (EARZ), as defined by the Texas Commission on Environmental Quality (TCEQ). The EARZ occurs where surface water enters the subsurface through exposed limestone bedrock containing faults, fractures, sinkholes, and caves.

The subject site is underlain by the Georgetown Formation (Kgt) and undifferentiated Edwards Limestone Formation (Ked) (UT-BEG, 2002) with estimated maximum thicknesses of about 30 feet and 250 feet, respectively.

One natural geologic feature (fault, F-1) and no man-made features were identified at the subject site. Further information pertaining to the geologic feature is presented in the following Attachments D, E, and F. Photographs of the subject site are presented in Attachment G.

ATTACHMENT D
SITE GEOLOGIC MAP



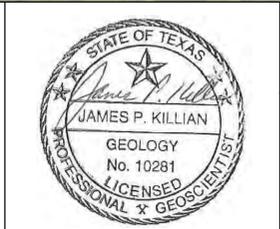
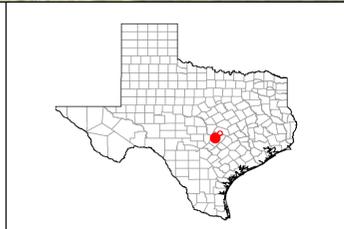
Horizon
Environmental Services, Inc.

Date:	10/16/2018
Drawn:	TED
HJN NO:	180250.001 GA
Source:	UT-BEG, 2002; USDA, 2016

Legend

Fault	Fluviatile Terrace Deposits (Qt)
Subject Site	Georgetown Formation (Kgt)
	Edwards Limestone (Ked)

Attachment D
Site Geologic Map
26-acre IH 35 at University Oaks Project
IH 35 and University Oaks Boulevard
Round Rock, Williamson County, Texas



N

0 100 200
Feet

Scale: 1" = 200'

ATTACHMENT E
SUPPORTING INFORMATION

1.0 INTRODUCTION AND METHODOLOGY

This report and any proposed abatement measures are intended to fulfill Texas Commission on Environmental Quality (TCEQ) reporting requirements (TCEQ, 2005). This geologic assessment includes a review of the subject site for potential aquifer recharge and documentation of general geologic characteristics for the subject site. Horizon Environmental Services, Inc. (Horizon) conducted the necessary field and literature studies according to TCEQ *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (TCEQ, 2004).

Horizon walked transects spaced less than 50 feet apart, mapped the locations of features using a sub-foot accurate Trimble Geo HX handheld GPS, and posted processed data utilizing GPS Pathfinder Office software, topographic maps, and aerial photographs. Horizon also searched the area around any potential recharge features encountered to look for additional features. When necessary, Horizon removed loose rocks and soil (by hand) to preliminarily assess each feature's subsurface extent while walking transects. However, labor-intensive excavation was not conducted during this assessment. Features that did not meet the TCEQ definition of a potential recharge feature (per TCEQ, 2004), such as surface weathering, karren, or animal burrows, were evaluated in the field and omitted from this report.

The results of this survey do not preclude the possibility of encountering subsurface voids or abandoned test or water wells during the clearing or construction phases of the proposed project. If a subsurface void is encountered during any phase of the project, work should be halted until the TCEQ (or appropriate agency) is contacted and a geologist can investigate the feature.

2.0 ENVIRONMENTAL SETTING

2.1 LOCATION AND GENERAL DESCRIPTION

The subject site consists of approximately 26 acres of undeveloped rangeland located east of IH 35 and south of University Oaks Boulevard in Round Rock, Williamson County, Texas (Attachment F, Figure 1).

2.2 LAND USE

The subject site is currently vacant, with no apparent use. The northwestern portion of the subject site appears to have been extensively filled with thick amounts of rock and/or soil decades ago. Surrounding lands are generally used for single-family residential and/or commercial retail purposes.

2.3 TOPOGRAPHY AND SURFACE WATER

The subject site is situated on gently to moderately sloping terrain that is located within the Chandler Branch watershed (Attachment F, Figures 2 and 3). Surface elevations on the subject site vary from a minimum of approximately 730 feet above mean sea level (amsl) near the southeastern property corner next to Chandler Branch, to a maximum of approximately 750

feet amsl near the southwestern property corner (USGS, 1987). Drainage on the site occurs primarily by overland sheet flow from west to east into Chandler Branch.

2.4 EDWARDS AQUIFER ZONE

The entire subject site is located within the Edwards Aquifer Recharge Zone (EARZ) (TCEQ, 2018) (Attachment F, Figure 2). The Recharge Zone is described as an area where the stratigraphic units constituting the Edwards Aquifer crop out, including the outcrops of other geologic formations in proximity to the Edwards Aquifer, where caves, sinkholes, faults, fractures, or other permeable features would create a potential for recharge of surface waters into the Edwards Aquifer.

2.5 SURFACE SOILS

Four soil units are mapped within the subject site (NRCS, 2018) (Attachment F, Figure 4). Generally, the soil series are similar in their physical, chemical, and engineering properties, with the principal exception being rock fragment content and thickness. The soil units are described in further detail below.

Crawford clay, 1 to 3% slopes (CfB): These soils are in valleys and on side slopes and ridges. In a representative profile, the surface layer is about 14 inches of dark-brown neutral clay. The next layer, about 12 inches thick, is reddish-brown neutral clay. The next lower layer, which extends to a depth of about 32 inches, is reddish-brown neutral clay. From a few scattered pebbles to a cover of less than 25% of reddish-brown chert gravel is on the surface. The underlying material is hard limestone. Crawford soils crack when dry. They are very slowly permeable when wet. The available water capacity is high.

Eckrant extremely stony clay, 0 to 3% slopes (EeB): Typically, this soil has an extremely stony, very dark gray, clay surface layer about 11 inches thick. The underlying material is indurated limestone. About 25% of the surface is covered with fragments of limestone; most are about 6 inches across, but range from 3 inches to 3 feet across and are as much as 10 inches thick. The soil is calcareous, moderately alkaline, and well-drained. Permeability is moderately slow, and surface runoff is rapid. The fragments of limestone on the surface help to prevent erosion. The available water capacity is very low because of the shallowness of the soil and stones in the soil.

Eckrant cobbly clay, 1 to 8% slopes (EaD) is on undulating uplands. The surface layer is about 13 inches thick. The upper part is dark grayish-brown cobbly clay, and the lower part is dark brown cobbly clay. The underlying material is coarsely fractured indurated limestone. This soil is well-drained, and permeability is moderately slow. Runoff is rapid, and the available water capacity is very low.

Tinn clay, 0 to 1% slopes, frequently flooded (Tn): This nearly level soil is on bottomlands. This soil is flooded several times each year for very brief periods. Areas are long and narrow and adjacent to streams. Typically, the upper layer is dark gray, calcareous, moderately alkaline clay about 58 inches thick. The layer below that to 77 inches is grayish brown,

calcareous, moderately alkaline clay. The underlying layer to 80 inches is a mixture of gravel, sand, and clay. This soil is very slowly permeable and somewhat poorly drained. An apparent water table ranges from the surface to 3 feet below the surface late in winter and spring. The available water capacity is high.

2.6 WATER WELLS

A review of TCEQ and Texas Water Development Board (TWDB) records revealed no water wells on the subject site and 32 wells within 0.5 miles of the subject site (TCEQ, 2018; TWDB, 2018). According to the TWDB records, most of the off-site wells are reportedly completed within the Edwards Aquifer at total depths ranging from 52 to 350 feet below surface grade.

The results of this assessment do not preclude the existence of undocumented or abandoned wells on the site. If a water well or casing is encountered during construction, work should be halted near the object until the TCEQ is contacted. If any on-site wells are not intended for future use, they should be capped or properly abandoned according to the Administrative Rules of the Texas Department of Licensing and Regulation (TDLR), 16 Texas Administrative Code (TAC), Chapter 76. A plugging report must be submitted by a licensed water well driller to the TDLR Water Well Driller's Program, Austin, Texas. TCEQ publication RG-347, "Landowner's Guide to Plugging Abandoned Water Wells," provides specific guidance. If a well is intended for use, it must comply with 16 TAC §76.

2.7 GEOLOGY

Literature Review

A review of existing literature shows the northwest portion of the subject site is underlain by the undifferentiated Edwards Limestone Formation (Ked) (UT-BEG, 2002) with an estimated maximum thickness of about 250 feet. The Edwards Formation consists mostly of gray to light brownish-gray, thin to medium-bedded, dense dolomite, dolomitic limestone, and limestone. The remaining portions of the subject site are underlain by the Georgetown Formation (Kgt). It generally consists of limestone and marl with an estimated maximum thickness of about 30 feet. The limestone is fine-grained, argillaceous, nodular, moderately indurated, and light gray and some limestone is hard, brittle, thick-bedded and white. Marine megafossils include *Kingena wacoensis* and *Gryphaea washitaensis*. (UT-BEG, 1995 and 2002).

The subject site is located within the Balcones Fault Zone and available geologic reports indicate the nearest mapped (buried, inactive) fault (geologic feature F-1) bisects the northern part of the site, trending from northeast to southwest (azimuth: N28°E). In general, the rock strata beneath the site dip to the east-southeast at about 10 to 30 feet per mile (less than 1°). Site Stratigraphic Columns on either side of this fault are provided as Attachment B, and the Site Geologic Map is Attachment D.

Field Assessment

A field survey of the subject site was conducted by a licensed Horizon geologist on 17 October 2018. Horizon identified 1 natural geologic feature (fault F-1, previously described) on the subject site that meets the TCEQ definition of a potential recharge feature. Horizon observed no man-made features at the subject site. Additionally, no springs or spring runs were identified at the subject site.

Geologic features were evaluated for their potential to be significant pathways for fluid movement into the Edwards Aquifer. The Geologic Assessment Table (Attachment A) summarizes this evaluation and assigns each feature's sensitivity a total point value. Those with a point value of 40 or higher are deemed to be sensitive groundwater recharge features and should be protected during site development pursuant to TCEQ rules for protection of the Edwards Aquifer (30 TAC 213).

3.0 CONCLUSIONS AND RECOMMENDATIONS

One geologic feature (F-1) has been evaluated as non-sensitive for groundwater recharge capability and would therefore not require a TCEQ protective setback buffer. No further action is recommended for this non-sensitive geologic feature.

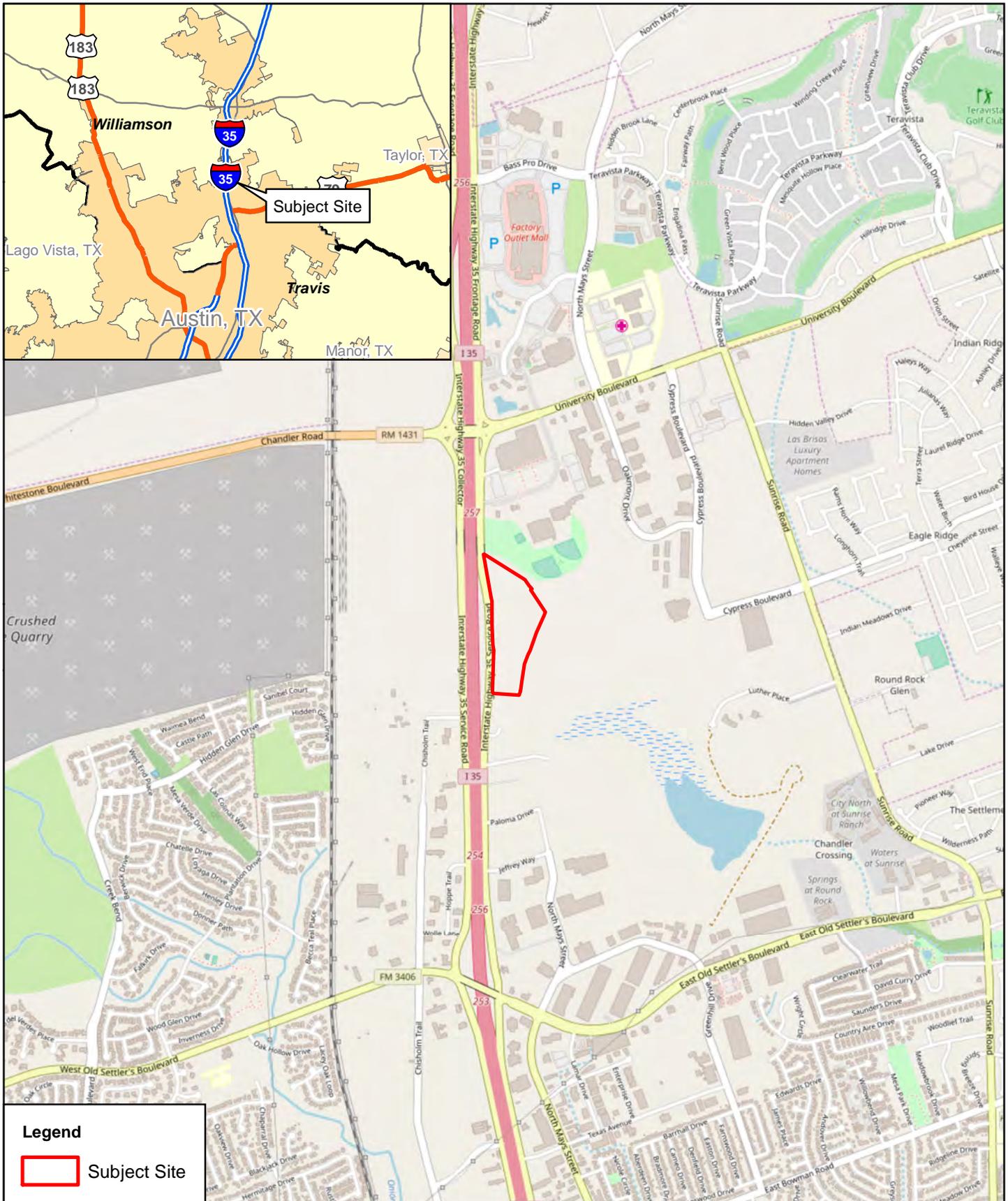
Portions of the site generally appear well-suited to development prospectuses. It should be noted that soil and drainage erosion would increase with ground disturbance. Native grasses and the cobbly content of the soil aid to prevent erosion. Soil and sedimentation fencing should be placed in all appropriate areas prior to any site-disturbing activities.

Because the subject site is located over the Edwards Aquifer Recharge Zone, it is possible that subsurface voids underlie the site. If any subsurface voids are encountered during site development, work should halt immediately so that a geologist may assess the potential for the void(s) to provide meaningful contribution to the Edwards Aquifer.

4.0 REFERENCES

- (COA) City of Austin. City of Austin GIS Data Sets. Year 2012 2-foot contours of the City of Austin and ETJ only <ftp://ftp.ci.austin.tx.us/GIS-Data/Regional/coa_gis.html>. 2012.
- (NRCS) Web Soil Survey, <<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>>. Accessed 30 October 2018.
- (OSM) OpenStreetMap contributors. Open Street Map, <<http://www.openstreetmap.org>>. Available under the Open Database License (www.opendatacommons.org/licenses/odbl). Accessed 29 October 2018.
- (TCEQ) Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones. Revised October 2004.
- _____. (TCEQ) Texas Commission on Environmental Quality. *Complying with the Edwards Aquifer Rules: Administrative Guidance*. RG-348. Revised July 2005.
- _____. Edwards Aquifer Protection Program. Edwards Aquifer Viewer, <<http://www.tceq.state.tx.us/field/eapp/viewer.html>>. Accessed 17 October 2018.
- (TWDB) Texas Water Development Board. Water Information Integration and Dissemination System. TWDB Groundwater Database, <<https://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>>. Accessed 31 October 2018.
- (USDA) US Department of Agriculture. Aerial photography, Williamson County, Texas. National Agriculture Imagery Program, Farm Service Agency, Aerial Photography Field Office. 2016.
- (USGS) US Geological Survey. 7.5-minute series topographic maps, Round Rock, Texas quadrangle. 1987.
- (UT-BEG) The University of Texas at Austin Bureau of Economic Geology, V.E. Barnes. *Geologic Atlas of Texas*, Austin Sheet. Virgil Everett Barnes Edition. 1995.
- _____. Statemap GIS Databases. Geology of the Georgetown area. <<http://www.beg.utexas.edu/mainweb/services/GISdatabases.htm>>. 19 February 2002.
- Werchan, L. E., and J. L. Coker, Soil survey of Williamson County, Texas. Soil Conservation Service, US Department of Agriculture, Washington, D.C. 1983.

ATTACHMENT F
ADDITIONAL SITE MAPS



Legend

 Subject Site

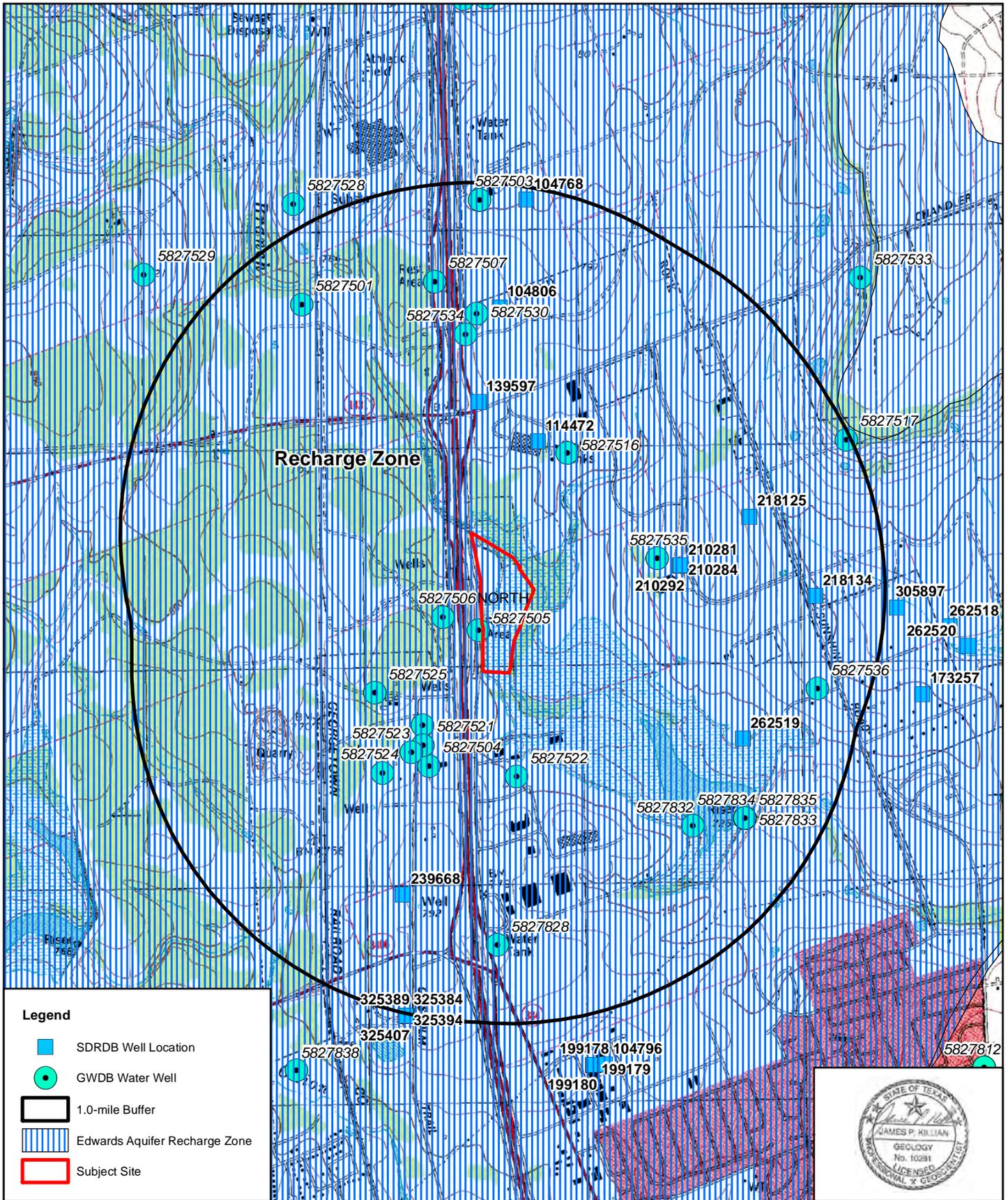
Horizon
Environmental Services, Inc.

Date:	10/16/2018
Drawn:	TED
HJN NO:	180250.001 GA
Source:	OSM, 2018

Attachment F, Figure 1
Vicinity Map
26-acre IH 35 at University Oaks Project
IH 35 and University Oaks Boulevard
Round Rock, Williamson County, Texas



0 1,000 2,000
Feet



Legend

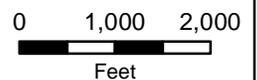
- SDRDB Well Location
- GWDB Water Well
- 1.0-mile Buffer
- Edwards Aquifer Recharge Zone
- Subject Site

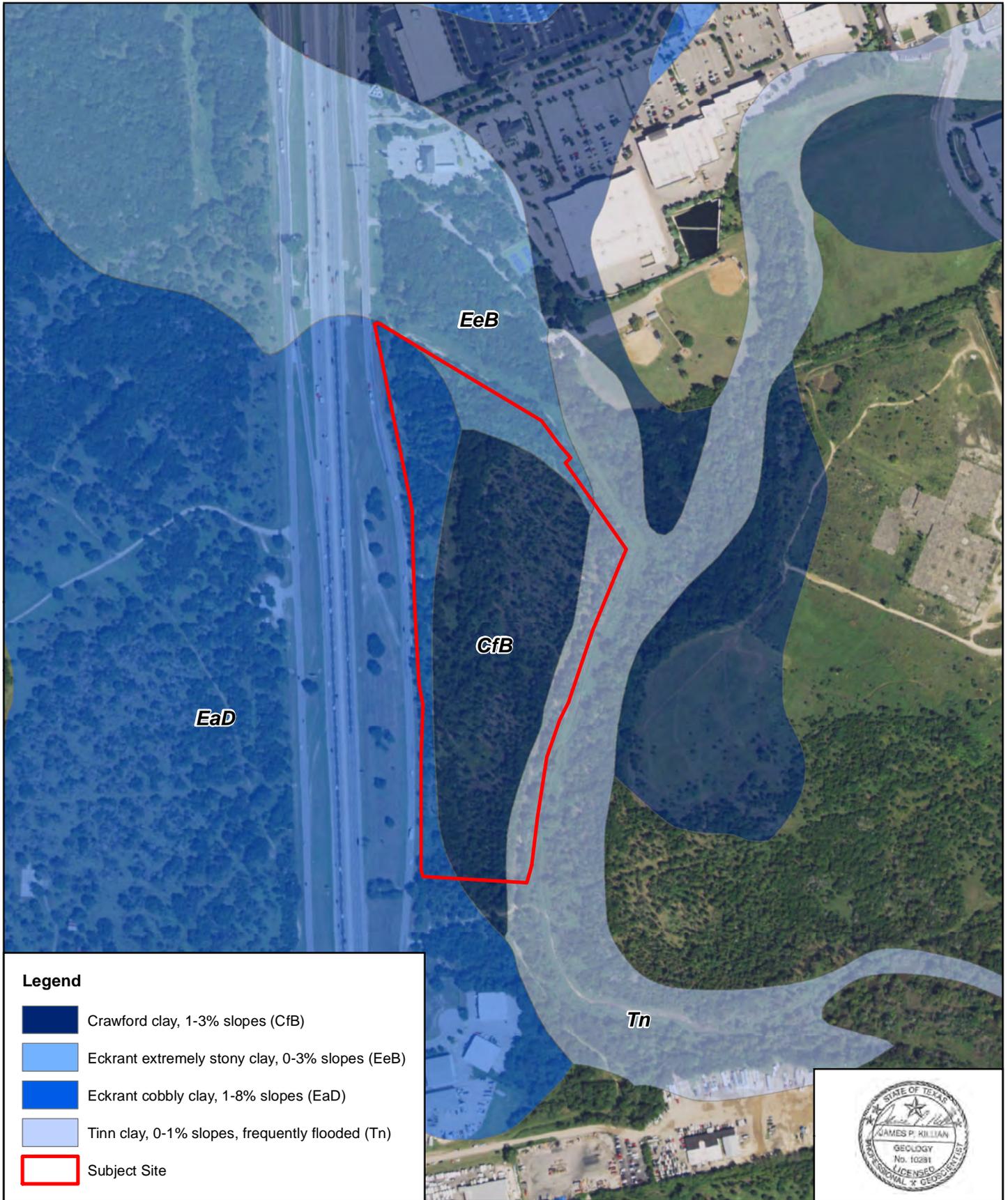


Horizon
Environmental Services, Inc.

Date:	10/16/2018
Drawn:	TED
HJN NO:	180250.001 GA
Source:	USGS 1987; TCEQ, 2018; TWDB, 2018

Attachment F, Figure 2
Topography and Hydrogeology Map
26-acre IH 35 at University Oaks Project
IH 35 and University Oaks Boulevard
Round Rock, Williamson County, Texas





Legend

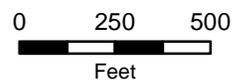
- Crawford clay, 1-3% slopes (CfB)
- Eckrant extremely stony clay, 0-3% slopes (EeB)
- Eckrant cobbly clay, 1-8% slopes (EaD)
- Tinn clay, 0-1% slopes, frequently flooded (Tn)
- Subject Site



Horizon
Environmental Services, Inc.

Date:	10/16/2018
Drawn:	TED
HJN NO:	180250.001 GA
Source:	NRCS, 2018; USDA, 2016

Attachment F, Figure 4
Site Soil Map
26-acre IH 35 at University Oaks Project
IH 35 and University Oaks Boulevard
Round Rock, Williamson County, Texas



ATTACHMENT G
SITE PHOTOGRAPHS



PHOTO 1

View from northern corner of subject site, facing south



PHOTO 2

View from southeastern corner of subject site, facing north



PHOTO 3

View near southwestern corner of subject site, facing south



PHOTO 4

Typical view where exposed slope (~10 to 15 feet thick) of rock/soil fill ends near north central portion of subject site, facing west

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: Justin Madding, P.E.

Date: 4-13-2023

Signature of Customer/Agent:


Regulated Entity Name: RR Brake Check

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): 1.060

3. Estimated projected population: n/a

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	3,568	÷ 43,560 =	0.082
Parking	15,888	÷ 43,560 =	0.364
Other paved surfaces	4,164	÷ 43,560 =	0.096
Total Impervious Cover	23,622	÷ 43,560 =	0.542

Total Impervious Cover $0.542 \div$ Total Acreage $1.060 \times 100 = 51.13\%$ 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 ÷ 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>280</u> Gallons/day
<u> </u> % Industrial	<u> </u> Gallons/day
<u> </u> % Commingled	<u> </u> Gallons/day
TOTAL gallons/day <u>280</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 Brushy Creek Regional (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): FEMA FIRM Map 48491C0487F dated 12-20-2019

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
ATTACHMENT A

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Factors Affecting Water Quality:

DURING CONSTRUCTION

Non-Stormwater Discharges: The following non-stormwater discharges may occur from the site during the construction period:

- Water from utility line flushing during initial line testing must use uncontaminated water that is not hyperchlorinated
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred)
- Groundwater (from dewatering of excavation) must be uncontaminated
- Water used to wash vehicles or control dust must be accomplished using potable water without detergents

All non-stormwater discharge will be directed to the Erosion and Sedimentation Controls (Best Management Practices) to remove any suspended solids contained therein.

Stormwater during construction will remove loose material and transport it downstream

POST CONSTRUCTION

Non-Stormwater Discharges after construction has been completed which can affect water quality include:

- Fertilizers and pesticides
- Household chemicals
- Pet waste
- Used oil
- Car washing
- Mulching
- Sediment

Post-construction stormwater discharges typically will transport sediment in the form of dirt and dust accumulated on streets and other impervious flatwork, rooftops and sediment from erosion of grassy areas. That material will be transported through the storm sewer system to the wet basins, where most of the pollutants will be removed.

Water Pollution Abatement Plan Application
ATTACHMENT B

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Volume and Character of Stormwater:

The volume and character of stormwater at the project site for both existing and post-development conditions are as follows:

The existing site is 1.060 acres of undeveloped pastureland. There is currently no impervious cover onsite and is characterized with an SCS Curve Number of 80. The site will be developed as an automotive service center which will increase the overall impervious cover from 0% to 51.13% of the total site. The impervious cover of the site consists of asphalt pavement, concrete sidewalks and driveways, and buildings. The proposed conditions after all improvements are completed will be characterized with an SCS Curve Numbers ranging from 80 to 93. The runoff from the proposed improvements will contain increased TSS loads from pavements receiving light vehicular traffic and minor levels of man-made debris from the commercial lot.

TCEQ requires a TSS reduction rate of 80% for proposed developments. As such, the total Water Quality Volume (WQV) used as a basis for design of the proposed extended batch detention pond are calculated by following the guidelines in TCEQ'S RG-348 manual. Following TCEQ's guidelines, the total WQV required for the extended batch detention pond was determined to be 2,596 cubic feet. The proposed extended batch detention pond will provide be 3,078 cubic feet.

Stormwater runoff was calculated using the NOAA Atlas 14 rainfall data for Round Rock, Texas with hydrologic soil group D for curve number calculations

PROJECT TITLE : SITE DEVELOPMENT PLANS FOR ROUND ROCK BRAKE CHECKSITE
 PROJECT LEGAL DESCRIPTION: S10309 - ROCKING J BUSINESS PARK, BLOCK A, LOT 2, ACRES 4.318
 PROJECT STREET ADDRESS: 1551 OLD SETTLERS BLVD.
 ROUND ROCK, TEXAS 78665
 PROPERTY OWNER: OLD SETTLERS RETAIL LTD.
 3839 BEE CAVES RD., STE. 204
 AUSTIN, TEXAS 78746
 DEVELOPER: ZIF CAPITAL
 11500 CITRUS COVE, AUSTIN, TX 78750
 CONTACT PERSON: ZAIN FIDAI, SAAD FIDAI
 PHONE: (832) 277-3427
 ENGINEER: LJA ENGINEERING INC.
 FRN # F-1386
 2700 LA FRONTERA BLVD., SUITE 150
 CONTACT PERSON: JUSTIN MADDING, P.E., PMP
 PHONE: (512)439-4700
 SURVEYOR: ALLSTAR LAND SURVEYING
 9020 ANDERSON MILL ROAD
 AUSTIN, TX 78729
 CONTACT PERSON: CHRIS ZOTTER
 (512) 249-8149
 ARCHITECT: THE BROWN GROUP
 259 BONHAM LOOP
 GEORGETOWN, TX 78633
 CONTACT PERSON: MARTIN BROWN
 (512) 426-9986
 LANDSCAPE ARCHITECT: ECOLAND DESIGN GROUP
 11183 CIRCLE DR. SUITE A
 AUSTIN, TX 78736
 CONTACT PERSON: BJ JONES
 (512) 344-9204

SITE DEVELOPMENT PLANS FOR ROUND ROCK BRAKE CHECK

3495 NORTH I-35
 ROUND ROCK, TEXAS 78665

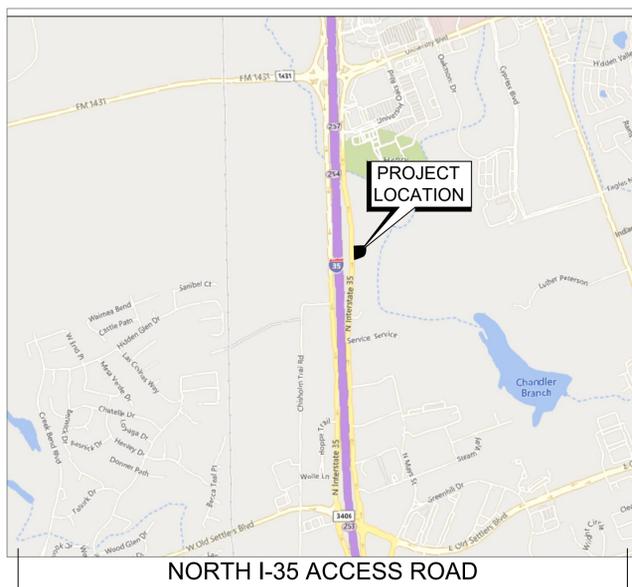
SDP2302-0003

BRAKE CHECK
 SITE PLAN
 A665-1001

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EXISTING IMPERVIOUS COVER: 0 SF / 1.06 AC.
 PROPOSED IMPERVIOUS COVER: 23,620 SF / 0.54 AC.
 INCREASE IN IMPERVIOUS COVER: 23,620 SF / 0.54 AC.
 LIMITS OF CONSTRUCTION: 0.95 ACRES

IMPERVIOUS COVER	
PUBLIC SIDEWALK, STREETS, CURB & GUTTER	0 SF
BUILDING FOOTPRINT (WITHIN LIMITS OF LOT ONLY)	3,568 SF
PARKING, PRIVATE SIDEWALK (WITHIN LIMITS OF LOT ONLY)	20052.16 SF
TOTAL AREA OF DISTURBANCE	0.54 AC



NORTH I-35 ACCESS ROAD
 LOCATION MAP
 SCALE: NTS

NOTES:
 NO PORTION OF THIS PROJECT IS LOCATED WITHIN THE 1% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP #48491C0491F DATED DECEMBER 12, 2019.

- THIS PROJECT IS LOCATED IN THE EDWARDS AQUIFER RECHARGE ZONE.
- THIS SITE IS LOCATED IN THE CHANDLER BRANCH WATERSHED, THERE ARE NO KNOWN CRITICAL ENVIRONMENTAL FEATURES EVIDENT ON THIS SITE.
- ONSITE WATER QUALITY AND DETENTION WILL BE PROVIDED.
- TYPE OF CONSTRUCTION: 2-B
- BUILDING OCCUPANCY TYPE: B & S-1

BENCHMARKS:
 BM "A" SPINDLE SET IN POWER POLE
 NAVD 1988 ELEVATION: 706.01'
 STATE PLANE COORDINATES NAD 83 (4203 - TEXAS CENTRAL)
 NORTHING: 10169640.57
 EASTING: 3135926.19

TDLR PERMIT NO. _____

- IMPORTANT NOTES TO CONTRACTOR:
- THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER, DESIGN ENGINEER OR THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, AND SHALL REPAIR OR REPLACE TO NEW QUALITY.
 - CONTRACTOR SHALL REFER TO CITY OF ROUND ROCK CONSTRUCTION STANDARDS MANUAL AND SPECIFICATIONS, OR ANY REQUIRED LOCAL CODE WHICHEVER IS MOST STRINGENT.
 - THIS SITE IS SUBJECT TO TPDES REGULATIONS. TXR15000

REVISIONS / CORRECTIONS

No.	Description	Revise (R) Add (A) Void (V) Sheet No.'s	Approval / Date

APPROVED FOR CONSTRUCTION:

PLANNING & DEVELOPMENT SERVICES DEPARTMENT _____ DATE _____

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

SUBMITTED FOR APPROVAL BY:
 Justin C. Madding
 ENGINEER OF RECORD



I, JUSTIN C. MADDING PE PMP, 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 THE STORM WATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

LJA Engineering, Inc.

2700 La Frontera Blvd
 Suite 150
 Round Rock, TX 78681

Phone 512.439.4700
 Fax 512.439.4716
 FRN - F-1386



GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD SPECIFICATIONS MANUAL.
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DESTRUCTION OR REMOVAL THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION...

- 12. FINISHED FLOOR ELEVATIONS (FFE) FOR EXISTING BUILDINGS ARE AS FOLLOWS: EXISTING BUILDING 1 FFE = 716.70, EXISTING BUILDING 2 FFE = 714.32, EXISTING BUILDING 3 FFE = 716.60, AND EXISTING BUILDING 4 FFE = 717.67.
13. SURVEY BEARINGS ARE BASED ON THE COORDINATE SYSTEM OF TEXAS, NAD83, CENTRAL ZONE 4203, GEOID MODEL 12B, NAVD'98, U.S. SURVEY FEET. PROJECT CONTROL POINTS WERE ESTABLISHED USING THE WESTERN DATA SYSTEM COOPERATIVE NETWORK...

STREET AND DRAINAGE NOTES:

- 1. ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING.
2. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB...

Table with 2 columns: ASPHALT PAVEMENT WITH THICK BASE, ASPHALT PAVEMENT WITH LIME STABILIZED SUBGRADE. Rows include Pavement Constituent, Thickness, and specific materials like HMAC TYPE D and CRUSHED LIMESTONE BASE MATERIAL.

Table with 2 columns: ASPHALT PAVEMENT WITH GEOGRID. Rows include Pavement Constituent, Thickness, and materials like HMAC TYPE D and CRUSHED LIMESTONE BASE MATERIAL.

Table with 2 columns: CONCRETE PAVEMENT WITH BASE AND LIME TREATED. Rows include Pavement Constituent, Thickness, and materials like JRCPC (3,500 PSI MIX) and CRUSHED LIMESTONE BASE MATERIAL.

- 8. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISION OF THE CONSTRUCTION PLANS.
9. WHERE PIS ARE OVER 20' SUBGRADES MUST BE STABILIZED UTILIZING A METHOD ACCEPTABLE TO THE CITY ENGINEER.
10. GENERAL FILL SOILS SHALL BE FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS WITH A MAXIMUM PLASTICITY INDEX (PI) OF 20 AND A MAXIMUM PARTICLE SIZE OF 2-INCHES...

- 11. ALL NEW CONDUIT SHALL TRAVERSE UNDERNEATH CITY INFRASTRUCTURE. THIS INCLUDES BUT IS NOT LIMITED TO WATERLINES, WASTEWATER LINES, AND STORM SEWER. WITH A MINIMUM OUTSIDE-TO-OUTSIDE CLEARANCE OF 18". TRAVERSING ABOVE CITY INFRASTRUCTURE MAY BE ALLOWED, SUBJECT TO THE APPROVAL OF GENERAL SERVICES.
12. ALL NEW CONDUIT UNDER ROADWAYS SHALL BE SCHEDULE 80.

EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK EROSION AND SEDIMENTATION CONTROL ORDINANCE.
2. ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
3. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES...

TRENCH SAFETY NOTES:

- 1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED.
2. IN ACCORDANCE WITH THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4-FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN 5 FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES ARE IN FACT 5 FEET OR MORE IN DEPTH...

TRAFFIC MARKING NOTES:

- 1. ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
2. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

GENERAL CONSTRUCTION SEQUENCING:

THE SEQUENCE BELOW IS THE ENGINEER'S GENERAL GUIDELINES AND NOT MEANT TO DIRECT CONTRACTOR IN ANY MEANS OR METHODS OF CONSTRUCTION ACTIVITIES. THE PHASES OF GENERAL CONSTRUCTION ARE AS FOLLOWS:
A. INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION PRIOR TO ANY CLEARING AND GRUBBING.
B. ROUGH CUT ALL REQUIRED OR NECESSARY SEDIMENT PONDS, EITHER THE PERMANENT 'OUTLET' STRUCTURE OR TEMPORARY 'OUTLET' MUST BE CONSTRUCTED PRIOR TO THE DEVELOPMENT OF ANY EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING...

WATER AND WASTEWATER NOTES:

- 1. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 200), OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200), WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
2. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 150 OR SDR-26) OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D2241 OR D3034, MAX. DR-26), DUCTILE IRON (AWWA C-100, MIN. CLASS 200).
3. UNLESS OTHERWISE ACCEPTED BY THE CITY ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42" MIN., AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MIN. OF 30" BELOW SUBGRADE.
4. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C-100, MIN. CLASS 200).
5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL ACCEPTED BY THE CITY ENGINEER.
6. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR AT 512-218-3241 TO COORDINATE UTILITY TIE-INS AND NOTIFY HIM AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING LINES.
7. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF THE PAVEMENT SHALL HAVE SOLID TOP COVERS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE ALLOWED.
8. THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
9. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH THE CIVIL INSPECTOR, TELEPHONE 512-218-3241.
10. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF ROUND ROCK TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ROUND ROCK.
11. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL AT THE CONTRACTOR'S REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF ROUND ROCK NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. THE CONTRACTOR SHALL SUPPLY A CHECK OR MONEY ORDER, PAYABLE TO THE CITY OF ROUND ROCK, TO COVER THE FEE CHARGED FOR TESTING EACH WATER SAMPLE. CITY OF ROUND ROCK FEE AMOUNTS MAY BE OBTAINED BY CALLING THE DEVELOPMENT SERVICES OFFICE AT 512-218-7043.
12. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL.
13. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY INSPECTOR AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING OR PRESSURE TESTING.
14. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
15. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
16. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:
WATER SERVICE "W" ON TOP OF CURB
WASTEWATER SERVICE "S" ON TOP OF CURB
VALVE "V" ON FACE OF CURB
17. TOOLS FOR MARKING THE CURB SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE AS SPECIFIED BY THE ENGINEER AND ACCEPTED BY THE CITY OF ROUND ROCK.
18. CONTACT CITY OF ROUND ROCK DEVELOPMENT SERVICES OFFICE AT 512-218-7043 FOR ASSISTANCE IN OBTAINING EXISTING WATER AND WASTEWATER LOCATIONS.
19. THE CITY OF ROUND ROCK FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO TESTING OF ANY BUILDING SPRINKLER PIPING IN ORDER THAT THE FIRE DEPARTMENT MAY MONITOR SUCH TESTING.
20. SAND, AS DESCRIBED IN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, FEA GRAVEL, AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

Table with 2 columns: SIEVE SIZE, % RETAINED BY WEIGHT. Rows include sieve sizes 1/2", 3/8", #4, and #10 with corresponding retention percentages.

- 21. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 A.M. AND 6 A.M.
22. ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 317 OR 217, AS APPLICABLE. WHENEVER TCEQ AND CITY OF ROUND ROCK SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

PUBLIC UTILITIES

Table with 4 columns: PIPE SIZE, TYPE, LENGTH (LF), VOL. (GAL). Rows include 8" PVC and 6" DI.

Table with 4 columns: DESC., TYPE, TOTAL, VOL. (GAL). Row includes MANHOLE.

Table with 3 columns: SIZE, TOTAL, BRAND. Rows include 6" GATE VALVE and 8" GATE VALVE.

Table with 2 columns: TOTAL, BRAND. Row includes 1 TBD.

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.

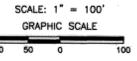
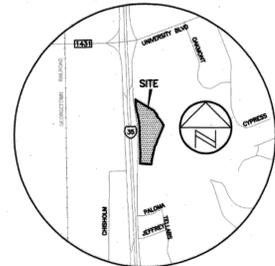
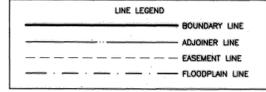


Vertical sidebar containing: BRAKE CHECK ROUND ROCK SITE PLAN GENERAL NOTES, REVISIONS table, DATE, NO., DESCRIPTION, DESIGN BY, DRAWN BY, CHECKED BY, DRAWING NAME, LJA Engineering, Inc. logo and contact info, JOB NUMBER: A665-1001, SHEET NO. GN1, SHEET NO. 2 OF 25 SHEETS, SDP2302-0003.

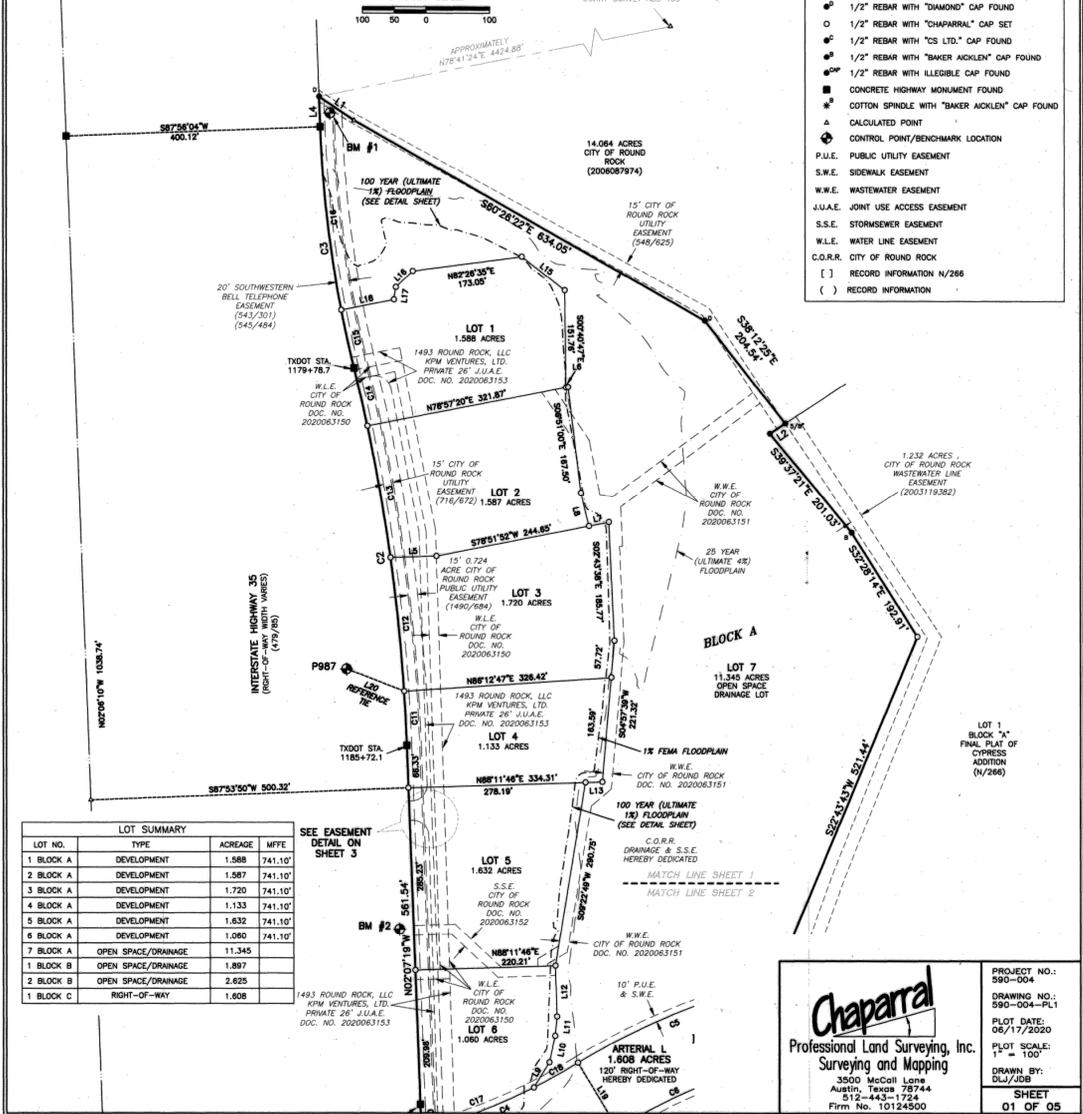
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FINAL PLAT SHOPS SOUTH OF UNIVERSITY OAKS BOULEVARD

OWNERS: 1493 ROUND ROCK, LLC
KPM VENTURES, LTD.
ACREAGE: 28.195 ACRES
SURVEYOR: CHAPARRAL PROFESSIONAL LAND SURVEYING
ENGINEER: LJA ENGINEERING
NUMBER OF BLOCKS: 3
LOT TYPE: 6-DEVELOPMENT LOTS, 3-OPEN SPACE,
1-RIGHT-OF-WAY
LINEAR FEET OF NEW STREETS: 587'
SUBMITTAL DATE: SEPTEMBER 17, 2019
DATE OF PLANNING AND ZONING COMMISSION REVIEW: NOVEMBER 5, 2019
PATENT SURVEY: DAVID CURRY SURVEY, ABSTRACT NO. 130 & EPHRAIM EVANS SURVEY, ABSTRACT NO. 212



- LEGEND**
- 1/2" REBAR FOUND (OR AS NOTED)
 - 1/2" REBAR WITH "DIAMOND" CAP FOUND
 - 1/2" REBAR WITH "CHAPARRAL" CAP SET
 - 1/2" REBAR WITH "OS LTD." CAP FOUND
 - 1/2" REBAR WITH "BAKER KICKLE" CAP FOUND
 - 1/2" REBAR WITH ALLEGIBLE CAP FOUND
 - CONCRETE HIGHWAY MONUMENT FOUND
 - COTTON SPINDLE WITH "BAKER KICKLE" CAP FOUND
 - ▲ CALCULATED POINT
 - ▲ CONTROL POINT/BENCHMARK LOCATION
 - P.U.E. PUBLIC UTILITY EASEMENT
 - S.W.E. SIDEWALK EASEMENT
 - W.W.E. WASTEWATER EASEMENT
 - J.U.A.E. JOINT USE ACCESS EASEMENT
 - S.S.E. STORMSEWER EASEMENT
 - W.L.E. WATER LINE EASEMENT
 - C.O.R.R. CITY OF ROUND ROCK
 - [] RECORD INFORMATION N/266
 - () RECORD INFORMATION



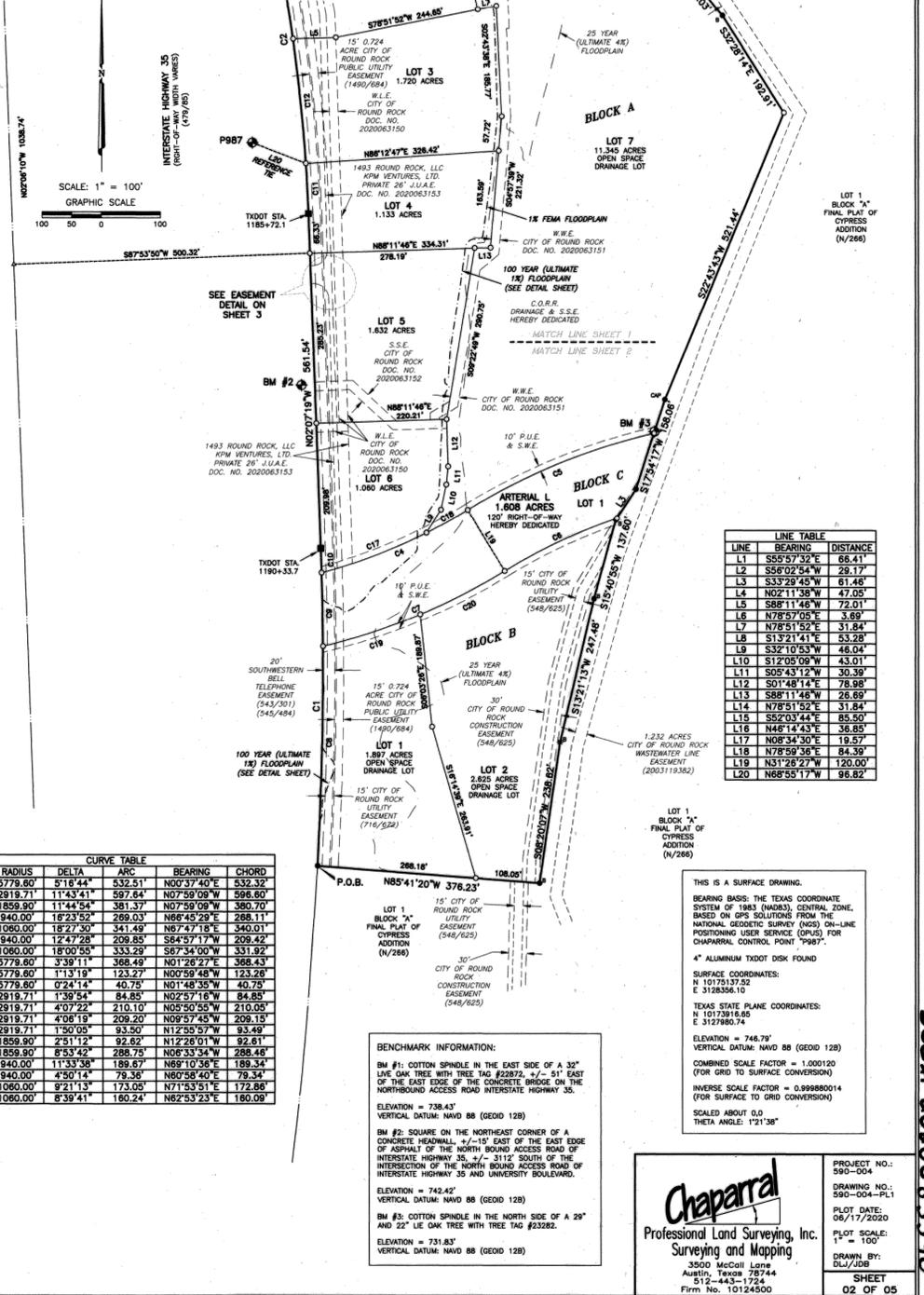
LOT SUMMARY

LOT NO.	TYPE	ACREAGE	MPFE
1 BLOCK A	DEVELOPMENT	1.588	741.10'
2 BLOCK A	DEVELOPMENT	1.587	741.10'
3 BLOCK A	DEVELOPMENT	1.720	741.10'
4 BLOCK A	DEVELOPMENT	1.133	741.10'
5 BLOCK A	DEVELOPMENT	1.632	741.10'
6 BLOCK A	DEVELOPMENT	1.080	741.10'
7 BLOCK A	OPEN SPACE/DRAINAGE	11.345	
1 BLOCK B	OPEN SPACE/DRAINAGE	1.897	
2 BLOCK B	OPEN SPACE/DRAINAGE	2.625	
1 BLOCK C	RIGHT-OF-WAY	1.808	

Chaparral
Professional Land Surveying, Inc.
3500 McCall Lane
Austin, Texas 78744
512-443-1724
Firm No. 10124500

PROJECT NO.: 590-004
DRAWING NO.: 590-004-PL1
PLOT DATE: 06/17/2020
PLOT SCALE: 1" = 100'
DRAWN BY: DLJ/JDB
SHEET 01 OF 05
FP1909-004

FINAL PLAT SHOPS SOUTH OF UNIVERSITY OAKS BOULEVARD



CURVE TABLE

CURVE	RADIUS	DELTA	ARC	BEARING	CHORD
C1	5779.60'	5°18'44"	532.51'	N00°37'40"E	532.32'
C2	2919.71'	11°43'41"	597.64'	N07°59'09"W	598.60'
C3	1859.90'	11°44'54"	381.37'	N07°59'09"W	380.70'
C4	840.00'	18°23'59"	299.03'	N69°40'29"E	298.11'
C5	1060.00'	18°27'50"	341.49'	N67°47'18"E	340.01'
C6	840.00'	12°47'28"	209.85'	S64°57'17"W	209.42'
C7	1060.00'	18°00'55"	333.29'	S67°34'00"W	331.92'
C8	5779.60'	3°39'11"	368.49'	N01°26'27"E	368.43'
C9	5779.60'	1°13'19"	123.27'	N00°59'48"W	123.26'
C10	5779.60'	0°24'14"	40.75'	N01°48'35"W	40.75'
C11	2919.71'	1°39'54"	84.85'	N02°57'18"W	84.85'
C12	2919.71'	4°07'22"	210.10'	N05°50'55"W	210.05'
C13	2919.71'	4°06'19"	209.20'	N05°57'45"W	209.15'
C14	2919.71'	1°50'05"	93.50'	N12°55'57"W	93.49'
C15	1859.90'	2°51'12"	92.62'	N12°28'01"W	92.61'
C16	1859.90'	6°53'42"	286.75'	N06°33'54"W	286.48'
C17	840.00'	11°33'38"	189.67'	N69°10'58"E	189.34'
C18	840.00'	4°50'14"	79.36'	N69°58'40"E	79.34'
C19	1060.00'	8°21'13"	173.05'	N71°53'51"E	172.86'
C20	1060.00'	8°39'41"	160.24'	N62°53'23"E	160.09'

LINE TABLE

LINE	BEARING	DISTANCE
L1	S55°57'32"E	86.41'
L2	S56°02'54"W	29.17'
L3	S33°28'45"W	61.46'
L4	N62°11'38"W	47.05'
L5	S88°11'48"W	72.01'
L6	N78°57'05"E	3.69'
L7	N78°51'52"E	31.84'
L8	S13°21'41"E	53.28'
L9	S32°10'53"W	48.04'
L10	S12°05'09"W	43.01'
L11	S05°43'12"W	30.36'
L12	S01°48'14"E	78.98'
L13	S88°11'48"W	26.59'
L14	N78°51'52"E	31.84'
L15	S52°03'44"E	85.50'
L16	N48°14'43"E	36.85'
L17	N08°54'50"E	19.57'
L18	N78°59'38"E	84.39'
L19	N31°26'27"W	120.00'
L20	N68°55'17"W	96.82'

BENCHMARK INFORMATION:

BM #1: COTTON SPINDLE IN THE EAST SIDE OF A 32" LINE OAK TREE WITH TREE TAG #22872. +/- 51' EAST OF THE EAST SIDE OF THE CONCRETE BRIDGE ON THE NORTHBOUND ACCESS ROAD OF INTERSTATE HIGHWAY 35 AND UNIVERSITY BOULEVARD.
ELEVATION = 738.83'
VERTICAL DATUM: NAVD 88 (GEOID 128)

BM #2: SQUARE ON THE NORTHEAST CORNER OF A CONCRETE HEADWALL +/- 15' EAST OF THE EAST EDGE OF ASPHALT OF THE NORTH BOUND ACCESS ROAD OF INTERSTATE HIGHWAY 35 +/- 312' SOUTH OF THE INTERSECTION OF THE NORTH BOUND ACCESS ROAD OF INTERSTATE HIGHWAY 35 AND UNIVERSITY BOULEVARD.
ELEVATION = 742.42'
VERTICAL DATUM: NAVD 88 (GEOID 128)

BM #3: COTTON SPINDLE IN THE NORTH SIDE OF A 29" AND 22" LINE OAK TREE WITH TREE TAG #23282.
ELEVATION = 731.83'
VERTICAL DATUM: NAVD 88 (GEOID 128)

Chaparral
Professional Land Surveying, Inc.
3500 McCall Lane
Austin, Texas 78744
512-443-1724
Firm No. 10124500

PROJECT NO.: 590-004
DRAWING NO.: 590-004-PL1
PLOT DATE: 06/17/2020
PLOT SCALE: 1" = 100'
DRAWN BY: DLJ/JDB
SHEET 02 OF 05
FP1909-004

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.

811
Know what's below.
Call before you dig.

DATE: 3/16/2023
DESIGNED BY: JCM/RB
DRAWN BY: RB
CHECKED BY: JCM
DRAWING NAME: 085540.PLT.dwg

REVISIONS
NO. DESCRIPTION

FOR INFORMATIONAL PURPOSE

3/16/2023

LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

JOB NUMBER: A665-1001

PL1

SHEET NO. 3 OF 25 SHEETS

SDP2302-0003

FINAL PLAT SHOPS SOUTH OF UNIVERSITY OAKS BOULEVARD

26.195 ACRES
CITY OF ROUND ROCK
WILLIAMSON COUNTY

A DESCRIPTION OF 26.195 ACRES (APPROXIMATELY 1,141,042 SQ. FT.), IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130 AND THE EPHRAIM EVANS SURVEY, ABSTRACT NO. 212, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF A 24.607 ACRE TRACT CONVEYED TO 1493 ROUND ROCK, LLC, IN A SPECIAL WARRANTY DEED DATED JUNE 11, 2018 AND RECORDED IN DOCUMENT NO. 201801902 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, AN ALSO BEING ALL OF A 1.587 ACRE TRACT CONVEYED TO KPM VENTURES, LTD., IN A SPECIAL WARRANTY DEED DATED JUNE 11, 2018 AND RECORDED IN DOCUMENT NO. 201801908 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID 26.195 ACRES BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING at a 1/2" rebar found in the east right-of-way line of Interstate Highway No. 35 (right-of-way width varies) as described in Volume 479, Page 85 of the Deed Records of Williamson County, Texas, and being also the southwest corner of the said 24.607 acre tract, and being a northeast corner of Lot 1, Block A, Final Plat of Cypress Addition, a subdivision of record in Cabinet N, Slide 288 of the Plat Records of Williamson County, Texas;

THENCE with the east line of Interstate 35, being also the west line of the 24.607 acre tract and in part with the west line of said 1.587 acre tract, the following five (5) courses and distances:

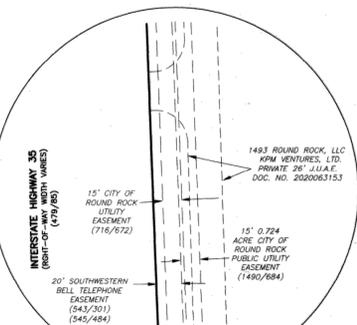
1. With a curve to the left, having a radius of 5779.60 feet, a delta angle of 0°16'44", an arc length of 532.51 feet, and a chord which bears North 03°37'40" East, a distance of 532.32 feet to a TxDOT Type I monument found;
2. North 02°07'19" West, a distance of 561.54 feet to a 1/2" rebar with "Chapparal" cap set;
3. With a curve to the left, having a radius of 2919.71 feet, a delta angle of 11°43'41", an arc length of 697.64 feet, and a chord which bears North 07°59'09" West, a distance of 596.60 feet to a 1/2" rebar with "Chapparal" cap set;
4. With a curve to the right, having a radius of 1859.90 feet, a delta angle of 11°44'54", an arc length of 381.37 feet, and a chord which bears North 07°58'09" West, a distance of 380.70 feet to a TxDOT Type I monument found;
5. North 02°11'38" West, a distance of 47.05 feet to a 1/2" rebar with "Diamond" cap found for the northeast corner of the 24.607 acre tract, and being the southeast corner of a 14.084 acre tract described in Document No. 2006087974 of the Official Public Records of Williamson County, Texas;

THENCE with the north line of the 24.607 acre tract, being also the southwest line of the 14.084 acre tract, the following three (3) courses and distances:

1. South 55°57'32" East, a distance of 68.41 feet to a calculated point (falls on a manhole lid);
2. South 60°28'22" East, a distance of 634.05 feet to a 1/2" rebar with "Diamond" cap found;
3. South 38°12'25" East, a distance of 204.54 feet to a 5/8" rebar found for an angle point in the east line of the 24.607 acre tract, and the southeast corner of the 14.084 acre tract, and being in the west line of said Lot 1, Block A of said Cypress Addition;

THENCE with the east line of the 24.607 acre tract and the west line of Lot 1, the following ten (10) courses and distances:

1. South 56°02'54" West, a distance of 29.17 feet to a 1/2" rebar found;
2. South 39°37'21" East, a distance of 201.03 feet to a 1/2" rebar with "Baker-Aicklen" cap found;
3. South 32°28'14" East, a distance of 192.91 feet to a 1/2" rebar with "Chapparal" cap set;
4. South 22°43'43" West, a distance of 521.44 feet to a 1/2" rebar with flaglike cap found;
5. South 17°54'17" West, a distance of 158.06 feet to a 1/2" rebar found;
6. South 33°29'45" West, a distance of 61.46 feet to a 1/2" rebar with "Baker-Aicklen" cap found;
7. South 15°40'55" West, a distance of 137.60 feet to a 1/2" rebar with "Baker-Aicklen" cap found;
8. South 13°21'13" West, a distance of 247.48 feet to a cotton spindle with "Baker-Aicklen" washer found;
9. South 08°20'07" West, a distance of 238.62 feet to a 1/2" rebar with "Baker-Aicklen" cap found;
10. North 85°41'20" West, a distance of 376.23 feet to the POINT OF BEGINNING, containing 26.195 acres of land, more or less.



EASEMENT DETAIL
NOT TO SCALE

EASEMENT NOTE:

THE PERPETUAL EASEMENT, RIGHT-OF-WAY, RIGHTS, AND PRIVILEGES HERIN GRANTED SHALL BE USED FOR THE PURPOSES OF LOCATION, PLACEMENT, RELOCATION, CONSTRUCTION, OPERATION, ENLARGEMENT, MAINTENANCE, ALTERATION, REPAIR, REBUILDING, REMOVAL, AND PATROL OF UTILITIES AND ASSOCIATED FACILITIES INCLUDING, BUT NOT LIMITED TO: PIPES, VALVES, VAULTS, MANHOLES, CHANNELS, INLETS, STRUCTURES, ACCESS FACILITIES, CONDUITS, APPURTENANCES, AND ANY NECESSARY ACCESSORIES THERETO (COLLECTIVELY THE "FACILITIES"). THIS CONVEYANCE IS MADE AND ACCEPTED SUBJECT TO ANY AND ALL CONDITIONS AND RESTRICTIONS, IF ANY, RELATING TO THE HEREBY DESCRIBED PROPERTY TO THE EXTENT, AND ONLY TO THE EXTENT, THAT THE SAME MAY STILL BE IN FORCE AND EFFECT AND SHOWN OF RECORD IN THE OFFICE OF THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS OR TRAVIS COUNTY, TEXAS.

EXCEPT AS OTHERWISE NOTED, THE EASEMENT, RIGHTS, AND PRIVILEGES HERIN GRANTED SHALL BE PERPETUAL, PROVIDED HOWEVER THAT SAID EASEMENT, RIGHTS, AND PRIVILEGES SHALL CEASE AND REVERT TO GRANTORS IN THE EVENT THE UTILITIES ARE ABANDONED OR SHALL CEASE TO BE IN OPERATION, FOR A PERIOD OF FIVE (5) CONSECUTIVE YEARS.

THE PERPETUAL EASEMENT, RIGHT-OF-WAY, RIGHTS, AND PRIVILEGES HERIN GRANTED ARE EXCLUSIVE, AND GRANTOR COVENANTS NOT TO GRANT ANY OTHER EASEMENT OR CONFLICTING RIGHTS WITHIN THE PREMISES COVERED BY THIS GRANT, WITHOUT THE EXPRESS WRITTEN CONSENT OF GRANTEE, WHICH CONSENT SHALL NOT BE UNREASONABLY WITHHELD. GRANTEE SHALL HAVE THE RIGHT TO REVIEW ANY PROPOSED EASEMENT OR CONFLICTING USE TO DETERMINE THE EFFECT, IF ANY, ON THE FACILITIES CONTEMPLATED HEREIN. PRIOR TO GRANTING ITS CONSENT FOR OTHER EASEMENTS, GRANTEE MAY REQUIRE REASONABLE SAFEGUARDS TO PROTECT THE INTEGRITY OF THE FACILITIES THERETO.

GRANTOR FURTHER GRANTS TO GRANTEE:

- (A) THE RIGHT TO INSTALL ADDITIONAL FACILITIES ON THE EASEMENT TRACT;
- (B) THE RIGHT TO GRADE THE EASEMENT FOR THE FULL WIDTH THEREOF AND TO EXTEND THE CUTS AND FILLS FOR SUCH GRADING INTO AND ONTO THE LAND ALONG AND OUTSIDE THE EASEMENT TO SUCH EXTENT AS GRANTEE MAY FIND REASONABLY NECESSARY;
- (C) THE RIGHT OF INGRESS TO AND EGRESS FROM THE EASEMENT OVER AND ACROSS GRANTEE'S PROPERTY BY MEANS OF ROADS AND LANES THEREON, IF SUCH ROADS OR LANES EXIST; OTHERWISE BY SUCH ROUTE OR ROUTES AS SHALL OCCASION THE LEAST PRACTICABLE DAMAGE AND INDEMNITY TO GRANTEE; PROVIDED THAT SUCH RIGHT OF INGRESS AND EGRESS SHALL NOT EXTEND TO ANY PORTION OF GRANTEE'S PROPERTY WHICH IS ISOLATED FROM THE EASEMENT BY ANY PUBLIC HIGHWAY OR ROAD NOW CROSSING OR HEREAFTER CROSSING THE PROPERTY. THE FOREGOING RIGHT OF INGRESS AND EGRESS INCLUDES THE RIGHT OF THE GRANTEE AND ASSIGNED EMPLOYEES OF GRANTEE TO DISASSEMBLE, REMOVE, TAKE DOWN, AND CLEAR AWAY ANY FENCE, BARRICADE, OR OTHER STRUCTURE WHICH OBSTRUCTS, PREVENTS, OR HINDERS GRANTEE'S INGRESS TO AND EGRESS FROM THE GRANTEE'S PROPERTY, AND SHOULD GRANTEE DEEM IT NECESSARY TO DO DISASSEMBLE, REMOVE, TAKE DOWN, OR CLEAR AWAY ANY SUCH FENCE, BARRICADE, OR OTHER STRUCTURE, GRANTEE SHALL, AS SOON AS IS REASONABLY PRACTICABLE, REPAIR OR RESTORE GRANTEE'S PROPERTY TO AS SIMILAR A CONDITION AS REASONABLY PRACTICABLE AS EXISTED IMMEDIATELY PRIOR TO GRANTEE'S ACTIONS PURSUANT TO THIS PROVISION, UNLESS SAID FENCE, BARRICADE, OR OTHER STRUCTURE IS INCONSISTENT WITH THE RIGHTS CONVEYED TO GRANTEE HEREIN;
- (D) THE RIGHT OF GRADING FOR CONSTRUCTION, MAINTAINING AND USING SUCH ROADS ON AND ACROSS THE PROPERTY AS GRANTEE MAY DEEM NECESSARY IN THE EXERCISE OF THE RIGHT OF INGRESS AND EGRESS OR TO PROVIDE ACCESS TO PROPERTY ADJACENT TO THE EASEMENT;
- (E) THE RIGHT FROM TIME TO TIME TO TRIM AND TO CUT DOWN AND CLEAR AWAY ANY AND ALL TREES AND BRUSH NOW OR HEREAFTER ON THE EASEMENT AND TO TRIM AND TO CUT DOWN AND CLEAR AWAY ANY TREES ON EITHER SIDE OF THE EASEMENT WHICH NOW OR HEREAFTER IN THE OPINION OF GRANTEE MAY BE A HAZARD TO ANY PIPELINE, VALVES, APPLIANCES, FITTINGS, OR OTHER IMPROVEMENTS BY REASON OF THE DANGER OF FALLING THEREON OR ROOT INFILTRATION THEREON, OR WHICH MAY OTHERWISE INTERFERE WITH THE EXERCISE OF GRANTEE'S RIGHTS HEREUNDER; PROVIDED HOWEVER, THAT ALL TREES WHICH GRANTEE IS HEREBY AUTHORIZED TO CUT AND REMOVE, IF VALUABLE FOR TIMBER OR FIREWOOD, SHALL CONTINUE TO BE THE PROPERTY OF GRANTEE, BUT ALL TOPS, LOGS, BRUSH AND REFUSE WOOD SHALL BE BURNED OR REMOVED BY GRANTEE;
- (F) THE RIGHT TO MARK THE LOCATION OF THE EASEMENT BY SUITABLE MARKERS SET IN THE GROUND, PROVIDED THAT SUCH MARKERS SHALL BE PLACED IN FENCES OR OTHER LOCATIONS WHICH WILL NOT INTERFERE WITH ANY REASONABLE USE GRANTEE SHALL MAKE OF THE EASEMENT;

GRANTEE HEREBY COVENANTS AND AGREES:

- (A) GRANTEE SHALL NOT FENCE THE EASEMENT;
- (B) GRANTEE SHALL PROMPTLY BACKFILL ANY TRENCH MADE BY IT ON THE EASEMENT AND REPAIR ANY DAMAGE IT SHALL DO TO GRANTEE'S PRIVATE ROADS OR LANES ON THE LANDS;
- (C) TO THE EXTENT ALLOWED BY LAW, GRANTEE SHALL INDEMNIFY GRANTEE AGAINST ANY LOSS AND DAMAGE WHICH SHALL BE CAUSED BY THE EXERCISE OF THE RIGHTS OF INGRESS AND EGRESS OR BY ANY WRONGFUL OR NEGLIGENT ACT OR OMISSION OF GRANTEE'S AGENTS OR EMPLOYEES IN THE COURSE OF THEIR EMPLOYMENT.

IT IS UNDERSTOOD AND AGREED THAT ANY AND ALL EQUIPMENT PLACED UPON SAID PROPERTY SHALL REMAIN THE PROPERTY OF GRANTEE.

GRANTOR HEREBY DEDICATES THE EASEMENT FOR THE PURPOSES STATED HEREIN. TO HAVE AND TO HOLD THE RIGHTS AND INTERESTS DESCRIBED UNTO GRANTEE AND ITS SUCCESSORS AND ASSIGNS, FOREVER, TOGETHER WITH ALL USUAL AND CUSTOMARY RIGHTS THERETO IN ANYWISE BELONGING, AND TOGETHER WITH THE RIGHT AND PRIVILEGE AT ANY AND ALL TIMES TO ENTER SAID PREMISES, OR ANY PART THEREOF, FOR THE PURPOSE OF CONSTRUCTING OR MAINTAINING SAID UTILITIES AND FOR MARKING CONNECTIONS THEREWITH, AND GRANTEE DOES HEREBY BIND ITSELF, ITS SUCCESSORS AND ASSIGNS AND LEGAL REPRESENTATIVES, TO WARRANT AND FOREVER DEFEND, ALL AND SINGULAR, THE SAID EASEMENT AND RIGHTS AND INTERESTS UNTO THE CITY OF ROUND ROCK, TEXAS, ITS SUCCESSORS AND ASSIGNS, AGAINST EVERY PERSON WHOEVER LAWFULLY CLAIMING OR TO CLAIM THE SAME OR ANY PART THEREOF.

Chapparal
Professional Land Surveying, Inc.
Surveying and Mapping
3500 McCall Lane
Austin, Texas 78744
512-443-1724
Firm No. 10124500

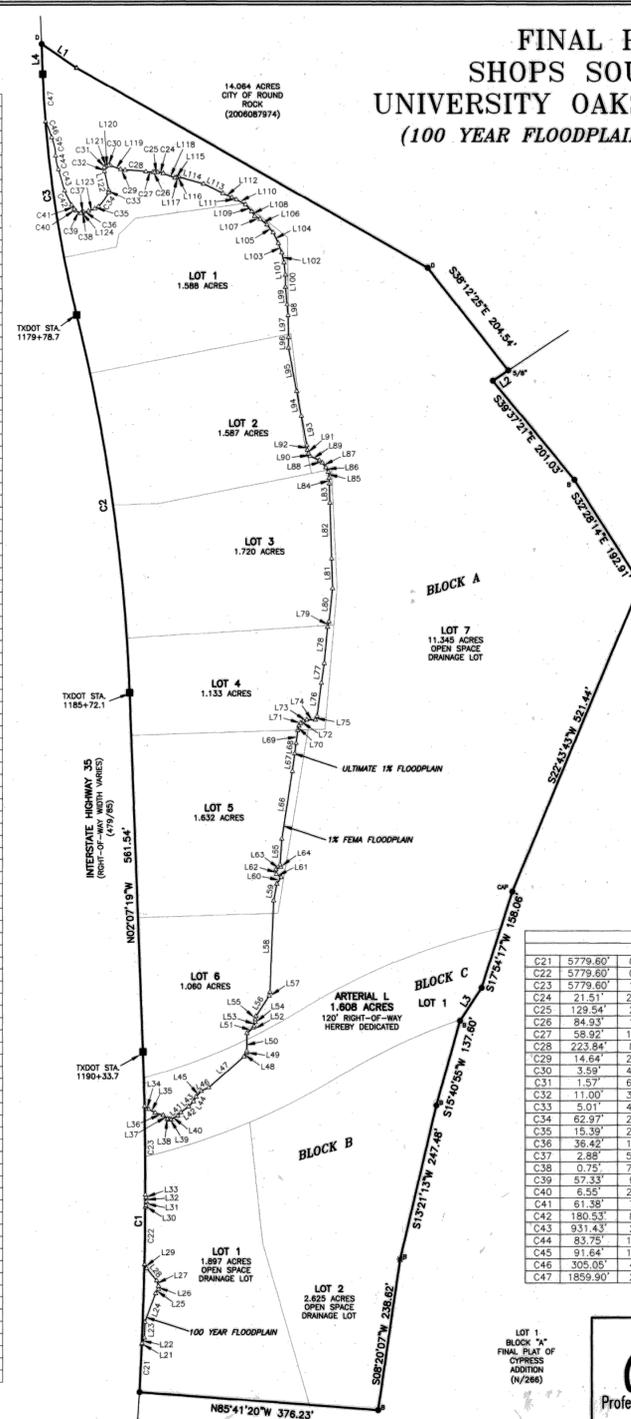
PROJECT NO.: 590-004
DRAWING NO.: 590-004-PL1
PLOT DATE: 06/17/2020
PLOT SCALE: 1" = 100'
DRAWN BY: DLJ/JDB
SHEET 03 OF 05

FP1909-004

FINAL PLAT SHOPS SOUTH OF UNIVERSITY OAKS BOULEVARD (100 YEAR FLOODPLAIN DETAIL SHEET)

FLOODPLAIN CURVE TABLE		
LINE	BEARING	DISTANCE
L21	N06°39'50"E	1.47
L22	N22°18'11"E	9.32
L23	N02°16'58"E	24.46
L24	N20°43'27"E	47.44
L25	N32°01'10"E	8.70
L26	N00°15'40"E	4.71
L27	N18°55'16"W	9.11
L28	N39°39'56"W	24.76
L29	N28°38'08"W	6.69
L30	N24°35'40"E	2.68
L31	N05°10'51"E	5.99
L32	N05°08'58"W	6.53
L33	N12°34'30"W	4.45
L34	S53°07'48"E	7.95
L35	S61°12'49"E	11.93
L36	S74°02'48"E	13.07
L37	S49°24'52"E	9.08
L38	S70°18'43"E	3.12
L39	N84°13'49"E	2.39
L40	N61°35'10"E	11.98
L41	N45°06'35"E	7.30
L42	N52°12'11"E	15.11
L43	N48°12'58"E	11.30
L44	N29°13'45"E	8.30
L45	N41°44'56"E	11.80
L46	N65°23'40"E	13.16
L47	N48°39'08"E	74.17
L48	N32°48'00"E	6.66
L49	N10°01'07"E	2.72
L50	N00°29'45"E	28.16
L51	N43°04'41"E	13.24
L52	N31°12'13"E	2.60
L53	N12°55'00"E	6.85
L54	N06°24'11"E	6.62
L55	N1°45'59" E	2.31
L56	N33°23'22"E	38.27
L57	N09°35'56"E	5.66
L58	N02°24'19"E	143.20
L59	N10°55'13"E	26.72
L60	N32°30'01"E	12.44
L61	N55°51'39"W	8.89
L62	N06°15'06"W	7.07
L63	N52°23'40"E	9.02
L64	N18°27'00"W	3.65
L65	N04°01'17"E	40.98
L66	N08°54'27"E	106.53
L67	N08°08'09"E	27.70
L68	N07°51'42"E	16.61
L69	N07°02'27"E	20.36
L70	N12°39'11"E	7.41
L71	N35°24'38"E	5.17
L72	N51°41'22"E	5.11
L73	N71°56'09"E	5.52
L74	S89°37'36"E	13.35
L75	N25°12'27"E	6.08
L76	N07°33'38"E	52.66
L77	N08°26'18"E	30.81
L78	N05°21'17"E	57.41
L79	N14°16'59"E	8.40
L80	N06°19'07"E	52.27
L81	N01°43'10"E	46.37
L82	N01°45'36"W	87.30
L83	N01°56'50"W	30.07
L84	N01°50'43"W	8.58
L85	N08°02'01"W	9.84
L86	N28°40'12"W	7.71
L87	N37°08'18"W	9.53
L88	N52°21'47"W	5.85
L89	N65°20'42"W	15.97
L90	N35°34'52"W	4.40
L91	N16°36'28"W	6.01
L92	N06°24'41"W	7.17
L93	N10°28'18"W	46.93
L94	N10°33'07"W	39.94
L95	N10°48'12"W	69.05
L96	N00°04'24"E	16.09
L97	N05°58'04"W	34.37
L98	N05°20'21"W	17.74
L99	N04°57'33"W	27.27
L100	N00°34'12"W	19.09
L101	N08°42'24"W	19.41
L102	N11°31'23"W	15.58
L103	N21°41'24"W	15.92
L104	N25°47'59"W	18.14
L105	N38°44'42"W	15.75
L106	N50°23'38"W	46.37
L107	N61°43'17"W	9.47
L108	N33°31'58"W	8.68
L109	N42°53'52"W	14.48
L110	N05°24'16"W	16.08
L111	N64°22'29"W	8.26
L112	N63°43'42"W	15.37
L113	N64°15'29"W	33.95
L114	N74°12'52"W	40.26
L115	S80°46'24"W	3.32
L116	S28°23'56"W	0.97
L117	N89°12'54"W	2.56
L118	N85°57'39"W	19.43
L119	N69°32'39"W	17.06
L120	S70°52'42"W	4.39
L121	S66°03'16"W	1.96
L122	S13°08'46"E	29.80
L123	S89°11'53"W	10.65
L124	S45°27'51"W	1.07

FLOODPLAIN CURVE TABLE		
LINE	BEARING	DISTANCE
C21	S779.60'	0°44'34"
C22	S779.60'	0°53'29"
C23	S779.60'	1°22'23"
C24	21.51'	24°42'34"
C25	129.54'	2°02'33"
C26	84.93'	1°39'36"
C27	58.92'	1°09'55"
C28	223.84'	8°20'25"
C29	14.64'	29°09'15"
C30	3.59'	4°05'16"
C31	1.57'	61°05'46"
C32	11.00'	30°43'04"
C33	5.01'	48°42'21"
C34	62.97'	25°02'22"
C35	15.39'	24°38'36"
C36	36.42'	1°14'27"
C37	2.88'	54°13'46"
C38	0.75'	7°08'13"
C39	57.33'	9°04'59"
C40	6.55'	28°52'15"
C41	61.38'	7°15'58"
C42	180.53'	8°07'40"
C43	931.43'	2°05'56"
C44	83.75'	14°38'30"
C45	91.64'	18°34'59"
C46	305.05'	4°57'51"
C47	1859.90'	2°17'57"



FLOODPLAIN CURVE TABLE			
LINE	BEARING	DISTANCE	BEARING
C21	S779.60'	0°44'34"	N02°53'45"E
C22	S779.60'	0°53'29"	N00°50'37"E
C23	S779.60'	1°22'23"	N00°28'45"W
C24	21.51'	24°42'34"	N7°15'35"W
C25	129.54'	2°02'33"	S87°19'09"W
C26	84.93'	1°39'36"	S87°07'40"W
C27	58.92'	1°09'55"	N85°44'49"W
C28	223.84'	8°20'25"	N84°56'15"W
C29	14.64'	29°09'15"	N81°39'54"W
C30	3.59'	4°05'16"	N86°05'09"W
C31	1.57'	61°05'46"	S36°14'18"W
C32	11.00'	30°43'04"	S03°36'20"E
C33	5.01'	48°42'21"	S05°29'28"W
C34	62.97'	25°02'22"	S35°53'14"W
C35	15.39'	24°38'36"	S58°29'24"W
C36	36.42'	1°14'27"	S78°36'33"W
C37	2.88'	54°13'46"	S6°55'01"W
C38	0.75'	7°08'13"	S77°21'24"W
C39	57.33'	9°04'59"	N62°47'44"W
C40	6.55'	28°52'15"	N44°48'08"W
C41	61.38'	7°15'58"	N32°06'52"W
C42	180.53'	8°07'40"	N25°13'37"W
C43	931.43'	2°05'56"	N16°42'52"W
C44	83.75'	14°38'30"	N10°59'07"W
C45	91.64'	18°34'59"	N1°21'32"W
C46	305.05'	4°57'51"	N21°25'46"W
C47	1859.90'	2°17'57"	N03°15'41"W

Chapparal
Professional Land Surveying, Inc.
Surveying and Mapping
3500 McCall Lane
Austin, Texas 78744
512-443-1724
Firm No. 10124500

PROJECT NO.: 590-004
DRAWING NO.: 590-004-PL1
PLOT DATE: 06/17/2020
PLOT SCALE: 1" = 100'
DRAWN BY: DLJ/JDB
SHEET 05 OF 05

FP1909-004

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.

811
Know what's below.
Call before you dig.

BRAKE CHECK ROUND ROCK
SITE PLAN
FINAL PLAT

NO.	REVISIONS	DESCRIPTION	BY	DATE

DATE: 3/16/2023
DESIGNED BY: JCM/RB
DRAWN BY: RB
CHECKED BY: JCM
DRAWING NAME: 0665-101-PL1.dwg

FOR INFORMATIONAL PURPOSE

3/16/2023

LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681
Phone 512-439-4700
Fax 512-439-4716
FRN - F-1386

JOB NUMBER: A665-1001
PL2
SHEET NO. 4
OF 25 SHEETS

FINAL PLAT SHOPS SOUTH OF UNIVERSITY OAKS BOULEVARD

STATE OF TEXAS
COUNTY OF WILLIAMSON
KNOW ALL MEN BY THESE PRESENTS:

THAT 1483 ROUND ROCK, LLC, BEING OWNER OF 24.807 ACRES IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130 AND THE EPHRAM EVANS SURVEY, ABSTRACT NO. 212, WILLIAMSON COUNTY, TEXAS, CONVEYED BY DEED OF RECORD IN DOCUMENT NO. 2018051802 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS AND THAT KPM VENTURES, LTD., BEING THE OWNER OF 1.887 ACRES IN THE EPHRAM EVANS SURVEY, ABSTRACT NO. 212, WILLIAMSON COUNTY, TEXAS, CONVEYED BY DEED OF RECORD IN DOCUMENT NO. 2018051806 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.

DO HEREBY SUBDIVIDE 26.195 ACRES IN ACCORDANCE WITH THE MAP OR PLAT ATTACHED HERETO, TO BE KNOWN AS

FINAL PLAT SHOPS SOUTH OF UNIVERSITY OAKS BOULEVARD

DO HEREBY CERTIFY THAT THERE ARE NO LIEN HOLDERS

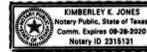
AND DO HEREBY DEDICATE TO THE PUBLIC USE OF ALL STREETS AND EASEMENTS SHOWN HEREON, SUBJECT TO ANY AND ALL EASEMENTS OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED.

1483 ROUND ROCK, LLC,
A TEXAS LIMITED LIABILITY COMPANY
BY: 1483 PARTNERS, LTD., MANAGING MEMBER
BY: Matthew Barrer
MATTHEW BARRER, MANAGER
P.O. BOX 841428
PLANO, TEXAS 75094

STATE OF TEXAS
COUNTY OF COLLIN

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 24th DAY OF June, 2020 BY MATTHEW BARRER, MANAGER OF 1483 PARTNERS MANAGEMENT, LLC, GENERAL PARTNER OF 1483 PARTNERS, LTD., MANAGING MEMBER OF 1483 ROUND ROCK, LLC, A TEXAS LIMITED LIABILITY COMPANY, ON BEHALF OF SAID LIMITED LIABILITY COMPANY.

Kimberly K. Jones
NOTARY PUBLIC, STATE OF TEXAS
Kimberly K. Jones 9/28/2020
PRINTED NAME MY COMMISSION EXPIRES

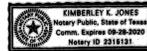


KPM VENTURES, LTD.,
A TEXAS LIMITED PARTNERSHIP
BY: KPM VENTURES MANAGEMENT, LLC, A TEXAS LIMITED LIABILITY COMPANY, ITS GENERAL PARTNER
BY: Matthew Barrer
MATTHEW BARRER, MANAGER
P.O. BOX 841428
PLANO, TEXAS 75094

STATE OF TEXAS
COUNTY OF COLLIN

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS 24th DAY OF June, 2020 BY MATTHEW BARRER, MANAGER OF KPM VENTURES MANAGEMENT, LLC, A TEXAS LIMITED LIABILITY COMPANY, GENERAL PARTNER OF KPM VENTURES, LTD., A TEXAS LIMITED PARTNERSHIP, ON BEHALF OF SAID LIMITED PARTNERSHIP.

Kimberly K. Jones
NOTARY PUBLIC, STATE OF TEXAS
Kimberly K. Jones 9/28/2020
PRINTED NAME MY COMMISSION EXPIRES



NOTES:

PLAT NOTES:

- BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH PART II, ZONING AND DEVELOPMENT CODE CHAPTER 2, ZONING DISTRICTS AND USE REGULATIONS, CITY OF ROUND ROCK, 2018, AS AMENDED.
- A PORTION OF THIS TRACT IS ENCRUMBED BY THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN
- NO FENCES, STRUCTURES, STORAGE, OR FILL SHALL BE PLACED WITHIN THE LIMITS OF THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN UNLESS APPROVED BY THE CITY ENGINEER. FILL MAY ONLY BE PERMITTED BY THE CITY ENGINEER AFTER APPROVAL OF THE PROPER ANALYSIS.
- RECORDATION OF ALL SEPARATE INSTRUMENT EASEMENTS SHALL OCCUR BEFORE OR IN TANDEM WITH THE RECORDATION OF THIS PLAT.
- ALL EASEMENTS SHOWN HEREON WERE ORIGINALLY DEDICATED TO THE PUBLIC, UNLESS OTHERWISE NOTED.
- ALL MINIMUM FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF TWO FEET (2') ABOVE THE ULTIMATE 1% ANNUAL CHANCE FLOODPLAIN ELEVATION OR URBICWD INUNDATION EASEMENT AS DEPICTED.
- SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PART II, ZONING AND DEVELOPMENT CODE, SECTION 8-26, ZONING DISTRICTS AND USE REGULATIONS, CITY OF ROUND ROCK, TEXAS, 2018, AS AMENDED.
- A TEN FOOT (10') PUE AND SIDEWALK EASEMENT ABUTTING AND ALONG THE STREET SIDE PROPERTY LINE IS HEREBY DEDICATED FOR ALL STREET SIDE PROPERTY LOTS SHOWN HEREON.
- A PORTION OF THIS TRACT IS ENCRUMBED BY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOOD AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBER 48491C0490E, EFFECTIVE DATE SEPTEMBER 26, 2008, FOR WILLIAMSON COUNTY, TEXAS.
- A FIFTEEN FOOT (15') P.U.E. AND TEN FOOT (10') SIDEWALK EASEMENT ABUTTING AND ALONG THE STREET SIDE PROPERTY LINE IS HEREBY DEDICATED FOR ALL LOTS ABUTTING HHS.
- THIS PLAT CONFORMS TO THE REVISED PRELIMINARY PLAT (PP1909-002) APPROVED BY THE PLANNING AND ZONING COMMISSION ON OCTOBER 16, 2019.
- NO OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO FENCING OR STORAGE, SHALL BE PERMITTED IN ANY DRAINAGE EASEMENTS SHOWN HEREON.
- THE 25 YR (ULTIMATE 4%) AND 100 YR (ULTIMATE 1%) FLOODPLAINS DEPICTED ON THIS PLAT CONFORM TO THE LIA ENGINEERING FLOOD STUDY (FLOOD1811-003) TITLED "3651 N. I-35 RETAIL FLOODPLAIN STUDY IN SUPPORT OF CONCEPT PLAN" DATED NOVEMBER 5, 2018 AND REVISED APRIL 23, 2019.
- LOTS 2, 3, 4, AND 8 BLOCK A AND LOT 1 BLOCK A ARE PROHIBITED FROM TAKING DIRECT ACCESS TO INTERSTATE HIGHWAY 1-35 AND SHALL TAKE ACCESS FROM DEVELOPMENT LOTS 1 AND 5 BLOCK A BY MEANS OF A SHARED ACCESS AGREEMENT.
- UBICWD - UPPER BRUSHY CREEK WATER CONTROL IMPROVEMENT DISTRICT INUNDATION EASEMENT SHALL BE DEDICATED FOR NRCS DAM 11 AT ELEVATION = 739.10'.

APPROVED THIS 5th DAY OF November, 2019, BY THE CITY PLANNING AND ZONING COMMISSION OF THE CITY OF ROUND ROCK, TEXAS, AND AUTHORIZED TO BE FILED FOR RECORD BY THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS.

THE PROPERTY COVERED BY THIS PLAT IS WITHIN THE CITY LIMITS OF THE CITY OF ROUND ROCK.

David Pawliska
DAVID PAWLISKA, CHAIRMAN
CITY OF ROUND ROCK PLANNING AND ZONING COMMISSION

THE STATE OF TEXAS §
COUNTY OF WILLIAMSON §

I, NANCY RISTER, CLERK OF THE COUNTY COURT OF WILLIAMSON COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE, ON THIS 8th DAY OF July, 2020 A.D., AT 10:55 O'CLOCK AM, AND DULY RECORDED ON THIS 8th DAY OF July, 2020 A.D., AT 11:09 O'CLOCK AM, IN THE PLAT RECORDS, OF SAID COUNTY IN DOCUMENT NO. 2020085540

WITNESS MY HAND AND SEAL OF THE COUNTY COURT OF SAID COUNTY, AT MY OFFICE IN GEORGETOWN, TEXAS, THE LAST DATE SHOWN ABOVE WRITTEN.
NANCY RISTER, CLERK, COUNTY COURT, WILLIAMSON COUNTY, TEXAS

Brenda McKenzie
BY: DEPUTY
Brenda McKenzie



SURVEYOR'S CERTIFICATION

I, PAUL J. FLUGEL, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE SURVEYING RELATED PORTIONS OF CHAPTER 4-SUBDIVISION DESIGN AND CONSTRUCTION, PART II-ZONING AND DEVELOPMENT CODE OF ORDINANCES, CITY OF ROUND ROCK, 2018 AS AMENDED, IS TRUE AND CORRECT, AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE BY ME OR MADE UNDER MY SUPERVISION, MADE ON THE GROUND OCTOBER 11, 2017.

Paul J. Flugel 4/21/2020
PAUL J. FLUGEL, R.P.L.S., 5098



SURVEYING BY:
CHAPARRAL PROFESSIONAL LAND SURVEYING, INC.
3500 McCall Lane
AUSTIN, TEXAS 78744
(512) 443-1724

ENGINEER'S CERTIFICATION

I, JOSEPH LONGARO, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF ENGINEERING, AND HEREBY CERTIFY THAT THIS PLAT IS FEASIBLE FROM AN ENGINEERING STANDPOINT AND COMPLIES WITH THE ENGINEERING RELATED PORTIONS OF CHAPTER 4-SUBDIVISION DESIGN AND CONSTRUCTION, PART II-ZONING AND DEVELOPMENT CODE OF ORDINANCES, CITY OF ROUND ROCK, 2018 AS AMENDED, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

THE 100 YEAR FLOOD PLAN IS CONTAINED WITHIN THE DRAINAGE EASEMENTS SHOWN HEREON. NO PORTION OF THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOOD OF A WATERWAY THAT IS WITHIN THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 48491C0490E, DATED DECEMBER 20, 2008, FOR WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS.

Joseph Longaro
JOSEPH LONGARO, P.E. 6561



ENGINEERING BY:
CHAPARRAL PROFESSIONAL LAND SURVEYING, INC.
7500 RIALTO BOULEVARD
BUILDING II, SUITE 100
AUSTIN, TEXAS 78735
(512) 443-1724
TSP# REG NO. 1386
TEXAS REGISTERED ENGINEERING FIRM

Chaparral
Professional Land Surveying, Inc.
Surveying and Mapping

3500 McCall Lane
Austin, Texas 78744
512-443-1724
Firm No. 10124500

PROJECT NO.: 590-004
DRAWING NO.: 590-004-PL1
PLOT DATE: 08/25/2020
PLOT SCALE: 1" = 100'
DRAWN BY: DLJ/JDB
SHEET 04 OF 05

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.



BRAKE CHECK ROUND ROCK
SITE PLAN
FINAL PLAT

NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/16/2023
DESIGNED BY: JCM/RB
DRAWN BY: RB
CHECKED BY: JCM
DRAWING NAME: 0665-1001 PL3.dwg

FOR INFORMATIONAL PURPOSE

3/16/2023

LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681

Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

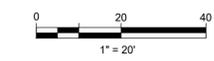
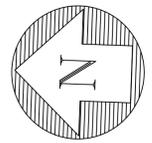
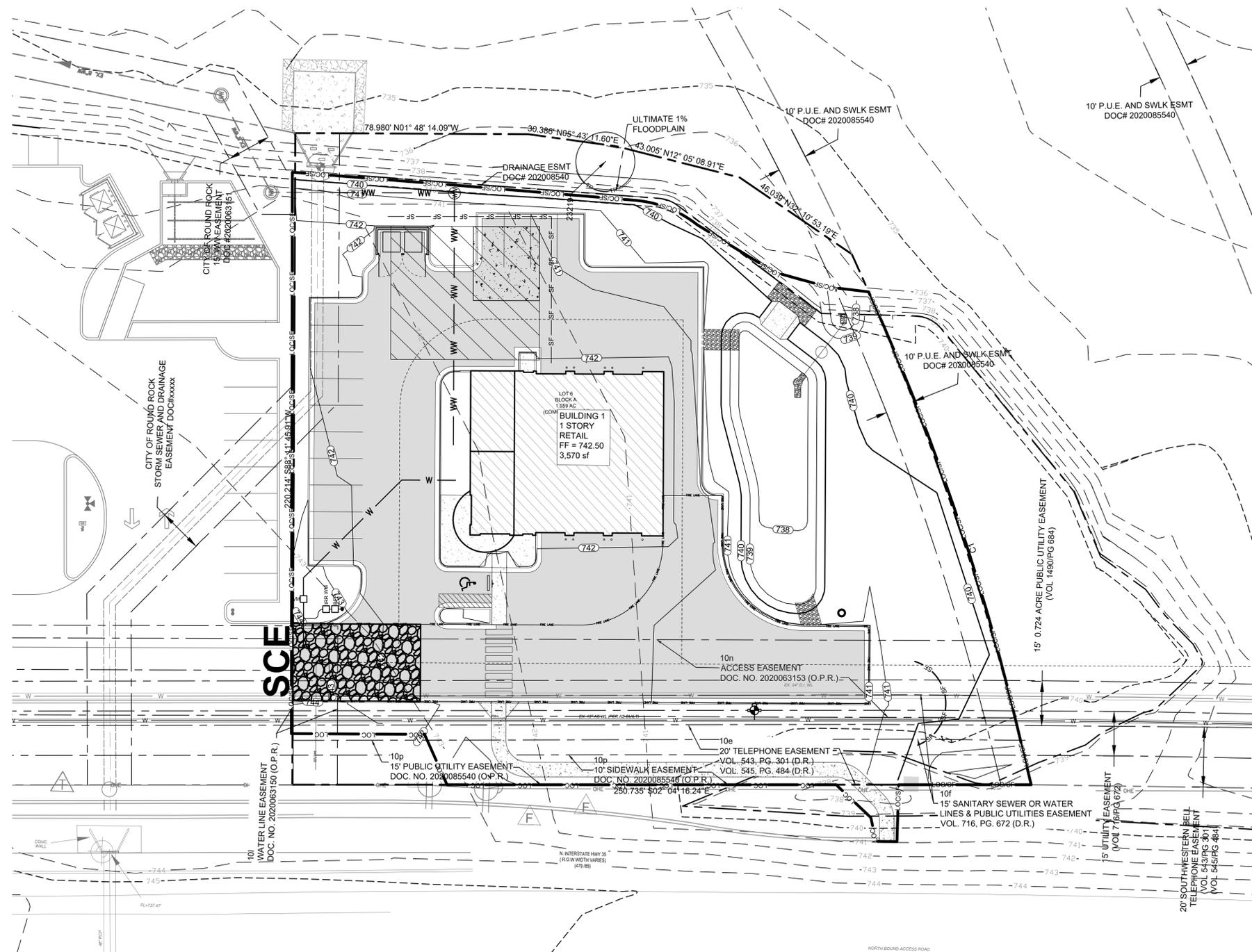
JOB NUMBER: A665-1001

PL3

SHEET NO. 5

OF 25 SHEETS

Doc # 2020085540



LEGEND:

- RB ROCK BERM
- IP INLET PROTECTION
- SF SILT FENCE
- LOC LIMITS OF CONSTRUCTION
- LOC/SF LIMITS OF CONSTRUCTION/SILT FENCE
- LOC/CL LIMITS OF CONSTRUCTION/CHAIN LINK FENCE
- LOC/OF LIMITS OF CONSTRUCTION/ORANGE FENCE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- STABILIZED CONSTRUCTION EXIT
- STAGING & SPOILS SITE
- LOT LINE
- TREE TO BE SAVED
- TREE TO BE REMOVED
- POND SKIMMER

NOTES:

1. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY OF ROUND ROCK RULES AND REGULATIONS.
2. THE CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS WATERING WITH IRRIGATION TRUCKS AND MULCHING AS PER CITY OF ROUND ROCK STANDARDS, OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
3. SILT FENCE TYPE AND INSTALLATION SHALL COMPLY WITH CITY OF ROUND ROCK STANDARDS.
4. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
5. IF DISTURBED AREA IS NOT TO BE WORKED FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING.
6. ANY DIRT, MUD, ROCKS, DEBRIS, ETC. THAT IS SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS SHALL BE CLEANED UP IMMEDIATELY.
7. ALL DISTURBED AREAS SHALL BE REVEGETATED.
8. HAUL TRUCKS SHALL NOT BLOCK LANES OF TRAFFIC AT ANY TIME

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.



BRAKE CHECK ROUND ROCK SITE PLAN

EROSION/SEDIMENTATION CONTROL & TREE PROTECTION PLAN

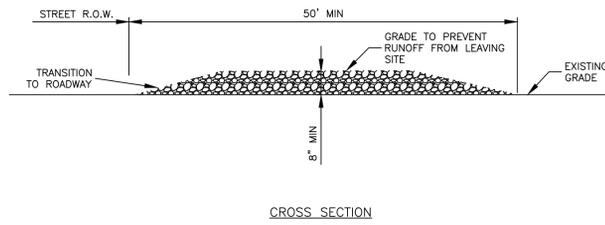
NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/16/2023	DESIGNED BY: JCM, RB
	DRAWN BY: RB
	CHECKED BY: JCM
	DRAWING NAME: AR65-1001_EC1.dwg



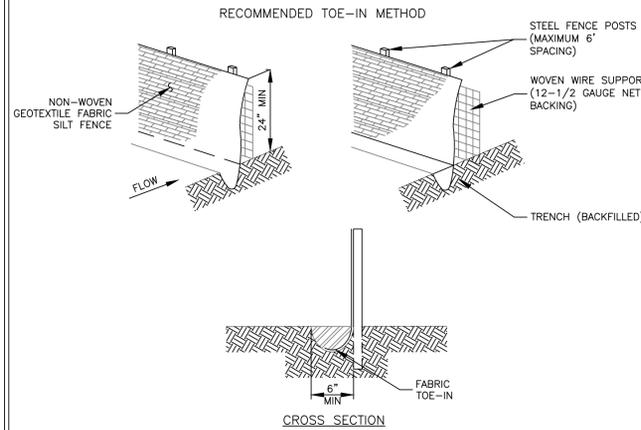
LJA Engineering, Inc.
 2700 La Frontera Blvd
 Suite 150
 Round Rock, TX 78681
 Phone 512.439.4700
 Fax 512.439.4716
 FRN - F-1386

JOB NUMBER: A665-1001
EC1
SHEET NO. 7
OF 25 SHEETS



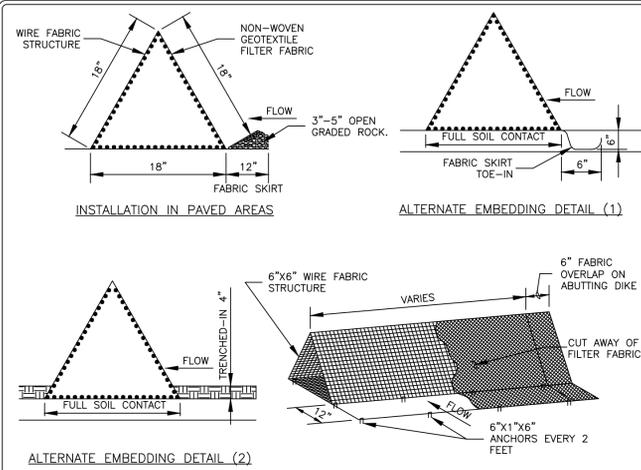
- NOTES:**
1. STONE SIZE SHALL BE 3" - 8" OPEN GRADED ROCK.
 2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
 3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
 4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
 5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
 6. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03-25-11 DATE	CITY OF ROUND ROCK	DRAWING NO.: EC-09
STABILIZED CONSTRUCTION ENTRANCE DETAIL		
<small>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)</small>		



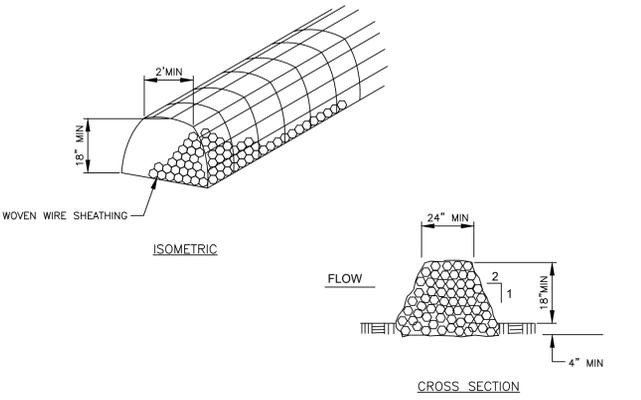
- NOTES:**
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MIN. OF ONE (1) FOOT.
 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
 3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
 4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS SECURELY FASTENED TO THE STEEL FENCE POSTS.
 5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
 8. SILT FENCE SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03-25-11 DATE	CITY OF ROUND ROCK	DRAWING NO.: EC-10
SILT FENCE DETAIL		
<small>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)</small>		



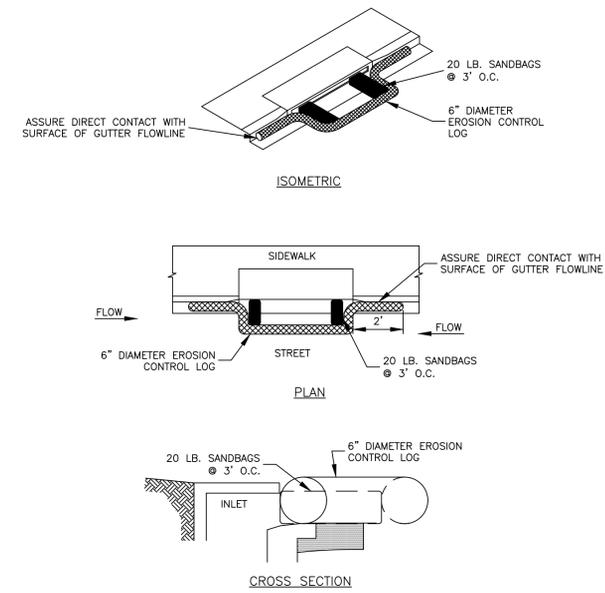
- NOTES:**
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
 2. FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE UPSTREAM FACE FABRIC.
 3. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE WITH WIRE STAPLES AT 2' INTERVALS ON BOTH EDGES AND SKIRT OR WITH 3/8" DIAMETER REBAR WITH TEE ENDS.
 4. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 6" TO COVER DIKE-TO-DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
 5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
 6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 4" AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
 7. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN NOTE #6 ABOVE.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03-25-11 DATE	CITY OF ROUND ROCK	DRAWING NO.: EC-11
TRIANGULAR SEDIMENT FILTER DIKE DETAIL		
<small>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)</small>		



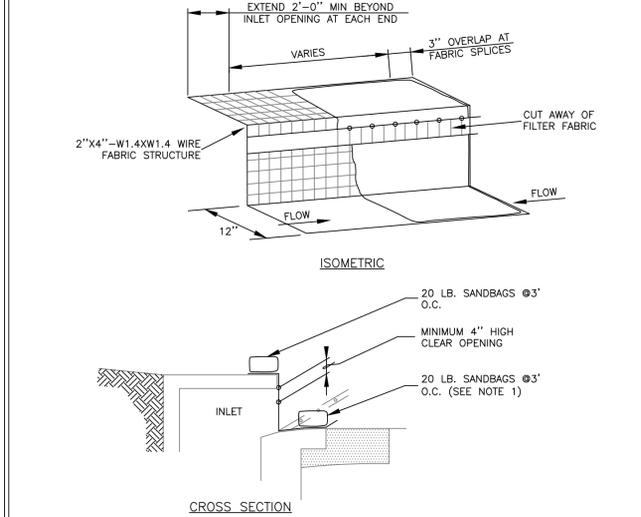
- NOTES:**
1. USE ONLY OPEN GRADED ROCK (3 TO 5") DIAMETER FOR ALL CONDITIONS.
 2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1" OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
 3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
 4. IF SEDIMENT REACHES A DEPTH OF 6", THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
 5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03-25-11 DATE	CITY OF ROUND ROCK	DRAWING NO.: EC-12
ROCK BERM DETAIL		
<small>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)</small>		



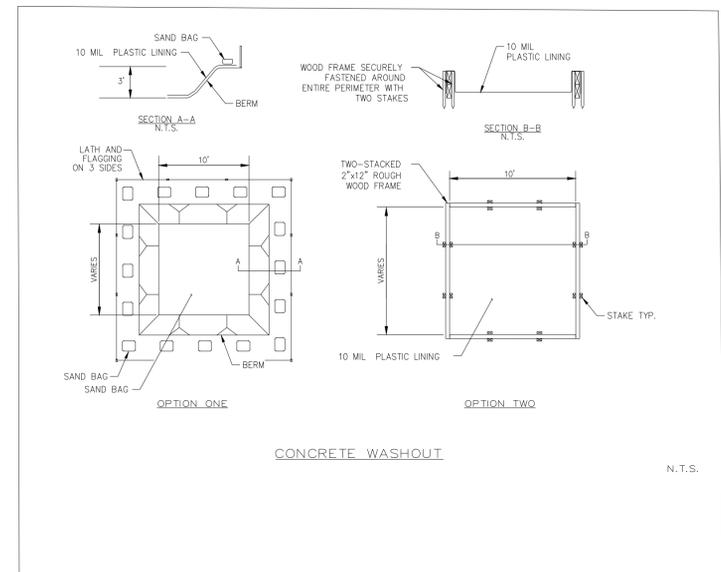
- NOTES:**
1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELISIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
 2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
 3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM WATER BEGINS TO OVERTOP THE CURB.
 4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03-25-11 DATE	CITY OF ROUND ROCK	DRAWING NO.: EC-13
CURB INLET PROTECTION WITH EROSION CONTROL LOG DETAIL		
<small>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)</small>		



- NOTES:**
1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
 2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
 3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
 4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
 5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03-25-11 DATE	CITY OF ROUND ROCK	DRAWING NO.: EC-14
CURB INLET PROTECTION DETAIL		
<small>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)</small>		



LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.

811
Know what's below.
Call before you dig.

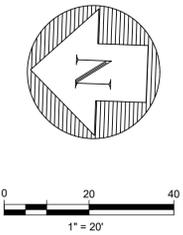
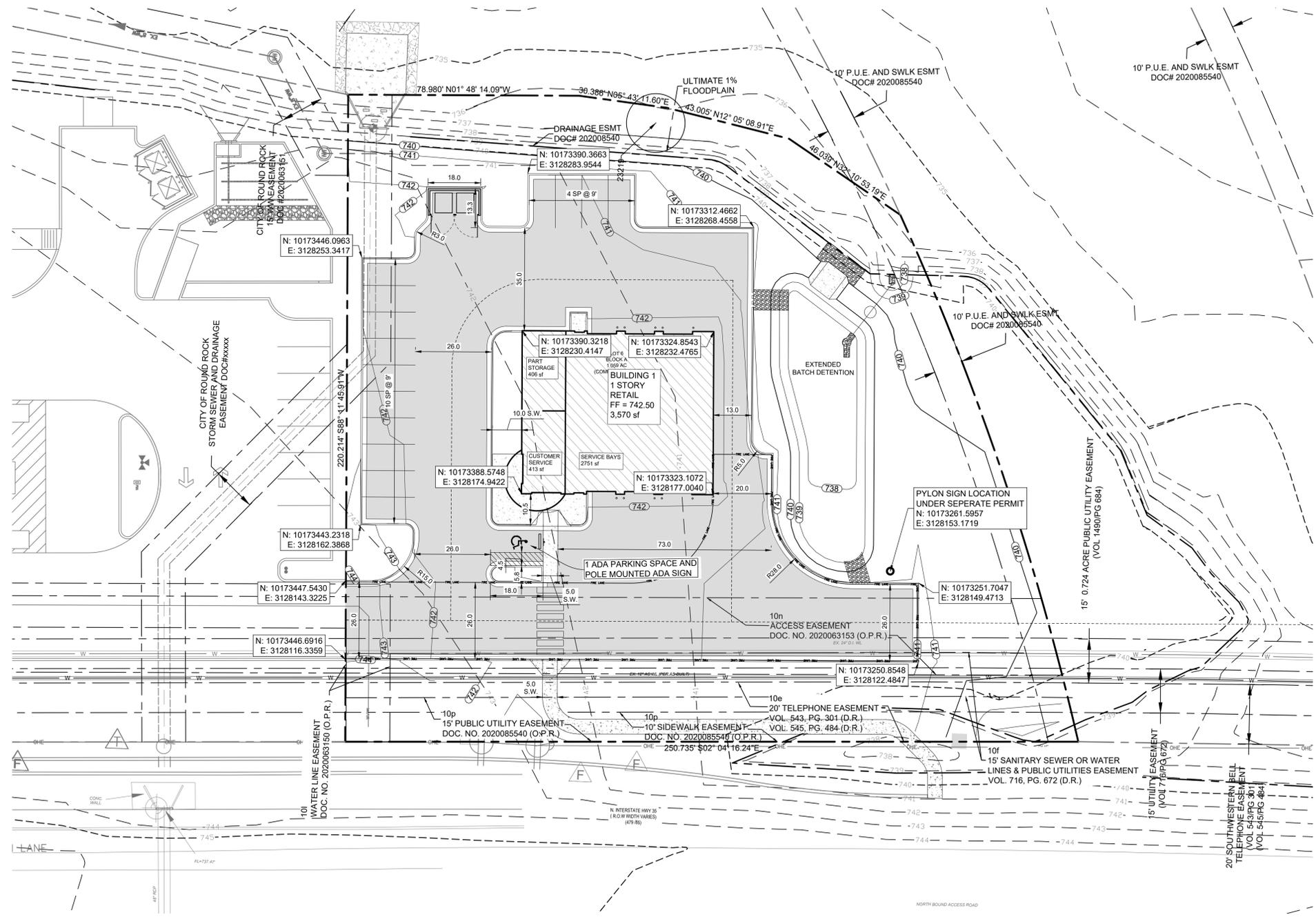
NO.	REVISIONS	DESCRIPTION	DATE

DESIGNED BY: JCM/RB
DRAWN BY: JCM
CHECKED BY: JCM
DRAWING NAME: A665-1001 ECR.dwg
DATE: 3/16/2023



LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

Drawn: Thu, 16 Mar 2023, 3:09pm
 PathName: G:\AR65-1001-RR Brake Check\ACAD\Sheet Files\AR65-1001-SP1.dwg



- ACCESSIBLE ROUTE
- CURB & GUTTER
- - - FIRE LANE
- ▭ SIDEWALK

SITE PLAN NOTES:

- ALL CURB RADII ARE 3.0' UNLESS OTHERWISE NOTED ON PLANS.
- ALL DIMENSIONS ARE FACE OF CURB/FACE OF BUILDING UNLESS NOTED ON PLANS.
- BUILDING DIMENSIONS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS, PRIOR TO LAYOUT OF SITE.
- ALL ADA ACCESSIBLE SIDEWALKS SHALL BE CONCRETE, WITH A COURSE BROOM FINISH WITH A MINIMUM WIDTH OF 4' UNLESS OTHERWISE NOTED.
- THIS SITE MEETS TEXAS ACCESSIBILITY STANDARDS AND AN ACCESSIBLE ROUTE WILL BE PROVIDED TO THE OTHER BUILDINGS AS NECESSARY.
- SEE SHEET DT1 FOR PARKING DETAILS.
- ALL ON-SITE UTILITIES SHALL BE LOCATED UNDERGROUND UNLESS REQUIRED.
- THERE ARE NO EXISTING BUILDINGS WITHIN 50' OF THE PROJECT BOUNDARIES.
- NO EXISTING STRUCTURES LIE WITHIN 50' OF THE PROPOSED SITE ON ADJOINING LOTS.

ACCESSIBLE ROUTE NOTES:

- SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP (TAS 403.3).
- THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 INCHES (TAS 405.2, 405.6).
- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:48 (TAS 403.3).
- GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT (TAS 302).

Parking Table			
Automotive Service Center	Building Area	Required	
1 per 250 sf	Reception/Office area	413 sf	2
1 per 1000 sf	Storage/Repair bay area	3157 sf	4
	Total		6
Provided Parking		15	

BRAKE CHECK ROUND ROCK
SITE PLAN
SITE PLAN

NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/16/2023
 DESIGNED BY: JCM, RB
 DRAWN BY: RB
 CHECKED BY: JCM
 DRAWING NAME: AR65-1001-SP1.dwg



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 2700 La Frontera Blvd
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 Round Rock, TX 78681
 Phone 512.439.4700
 Fax 512.439.4716
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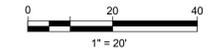
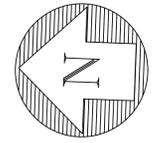
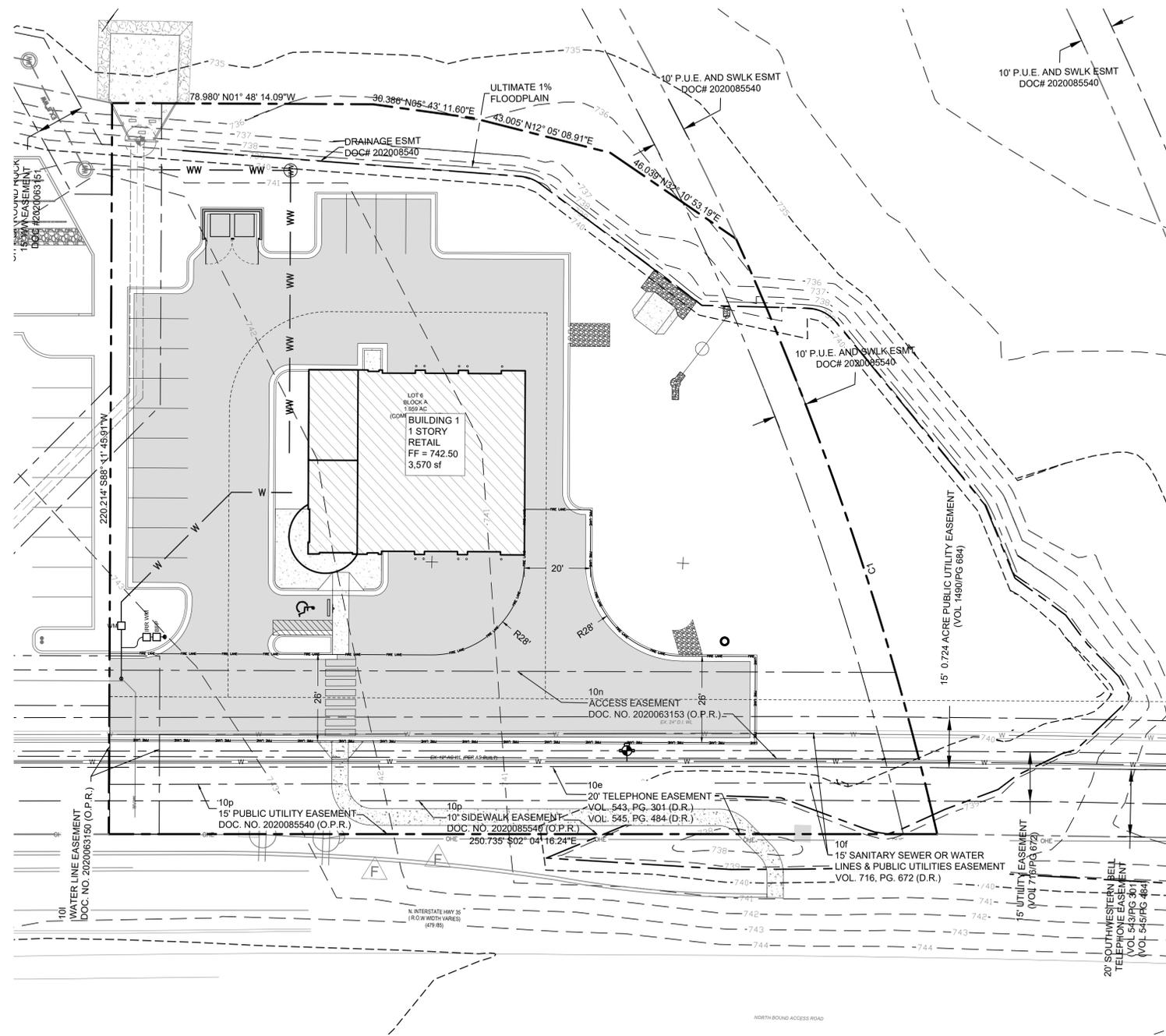
LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.

JOB NUMBER:
A665-1001

SP1

SHEET NO.
9

OF **25** SHEETS



LEGEND:

-  PROPOSED FIRE HYDRANT ASSEMBLY
-  EXISTING FIRE HYDRANT
-  FIRE LINE BACKFLOW PREVENTER
-  FIRE DEPARTMENT CONNECTION
-  FIRE LANE

NOTES:

1. FIRE ACCESS DRIVES SHALL BE 25' WIDE WITH A CLEAR HEIGHT OF 14.5' UNLESS OTHERWISE INDICATED.
2. ALL FIRE ACCESS TURN RADII ARE 25'.
3. PRIVATE FIRE HYDRANT SHALL HAVE A MAXIMUM OF 100 GALLON STORAGE BEFORE PLACEMENT OF BACKFLOW PREVENTER.
4. FIRE DEPARTMENT CONNECTIONS (FDC) ARE REQUIRED FOR ALL BUILDINGS FOUR FLOORS OR TALLER.
5. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT AND ADJACENT TO A FIRE ACCESS DRIVE.
6. ALL BUILDINGS SHALL BE SPRINKLED PURSUANT TO 2015 INTERNATIONAL FIRE CODE.
7. UNDERGROUND MAINS SUPPLYING NFPA 13 AUTOMATIC SPRINKLER SYSTEM MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 13, NFPA 24 AND THE FIRE CODE BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR WITH A CITY OF AUSTIN PLUMBING PERMIT FOR INSTALLATION. THE ENTIRE FIRE SERVICE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.
8. UNDERGROUND MAINS SUPPLYING PRIVATE FIRE HYDRANTS MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 24 AND THE FIRE CODE BY A STATE LICENSED CONTRACTOR WITH A CITY OF AUSTIN PLUMBING PERMIT FOR THE PROPOSED WORK. THE ENTIRE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.

CITY OF AUSTIN WATER & WASTEWATER UTILITY
 SPECIAL SERVICES DIVISION
 (512) 972-1060

This project has private hydrants located within the property. The property owner is required to comply with Austin Fire code. Failure to comply may result in civil and/or criminal remedies available to the City. The performance of this obligation shall always rest with the owner of record. Fire hydrants on private property are required to be serviced, maintained and flowed annually, using a contractor registered with the City to provide the service. This project includes private hydrants.

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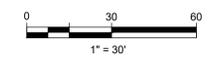
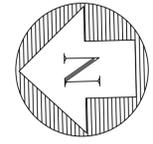
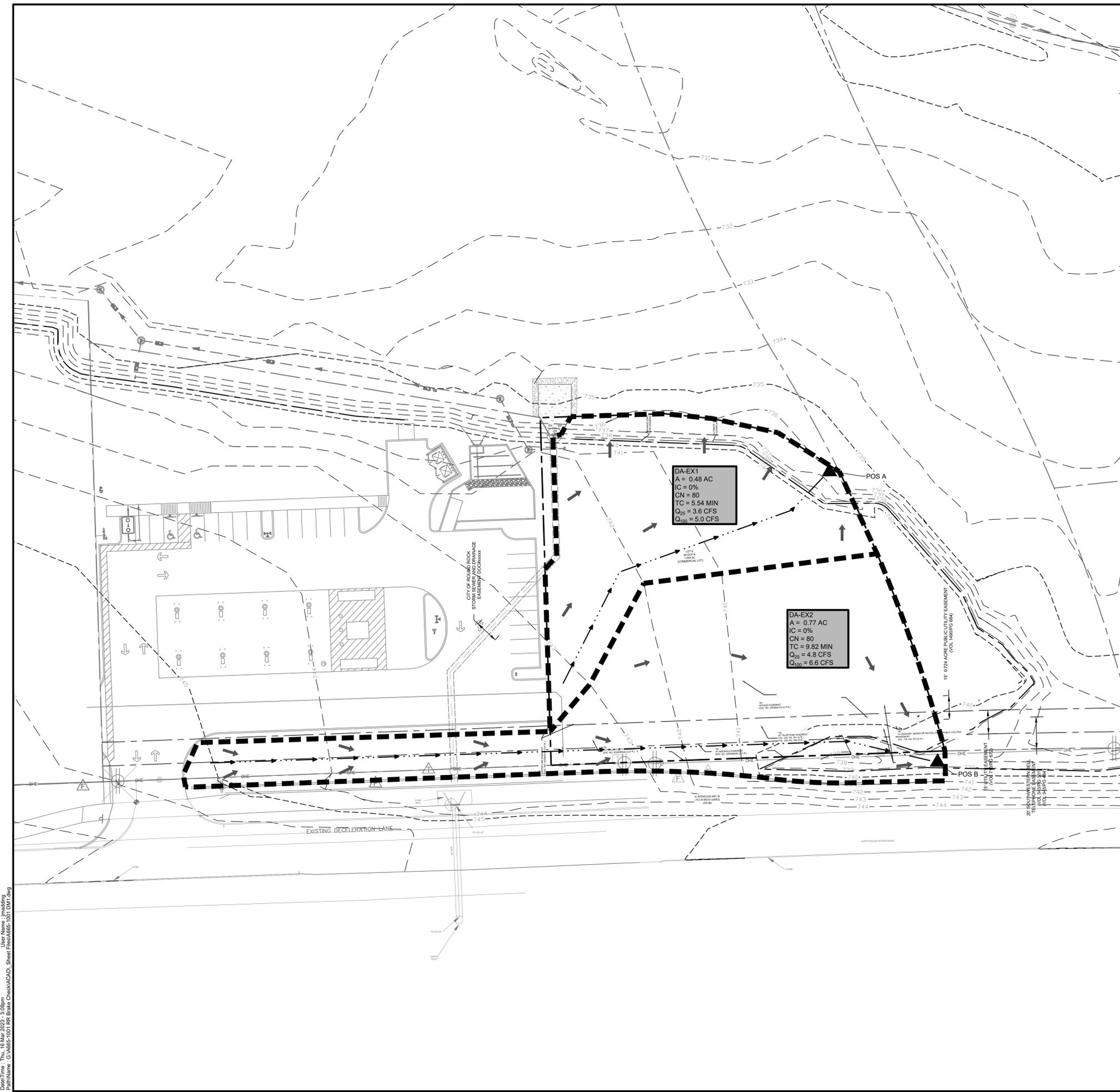
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JOB NUMBER:
 A665-1001
 FR1
 SHEET NO.
 10
 OF 25 SHEETS

BRAKE CHECK ROUND ROCK
 SITE PLAN
 FIRE PROTECTION PLAN



LEGEND:

- 730 --- EXISTING MAJOR CONTOUR
- 733 --- EXISTING MINOR CONTOUR
- → → → TIME OF CONCENTRATION PATH
- → → → FLOW ARROW
- --- DRAINAGE BOUNDARY
- --- EXISTING PROPERTY LINE

**BRAKE CHECK ROUND ROCK
SITE PLAN
EXISTING DRAINAGE MAP**

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Drainage Area	Area acres	Time of Conc. mins	Curve Number	Existing Drainage					Notes
				Q 2-yr cfs	Q 10-yr cfs	Q 25-yr cfs	Q 50-yr cfs	Q 100-yr cfs	
DA-EX1	0.48	5.54	80	1.5	2.8	3.6	4.3	5.0	POS A
DA-EX2	0.77	9.82	80	2.0	3.7	4.8	5.7	6.6	POS B

Existing Conditions						
Segment	Flow Type	Length	Slope	Manning's Coef.	Time (hr)	Time (min)
DA-EX1 0.48 AC						
1	SCS Sheet Flow	20	1.50%	0.24	0.066	3.96
2	SCS Shallow Concentrated Flow	180	1.50%	-	0.025	1.50
3	SCS Shallow Concentrated Flow	20	15.00%	-	0.001	0.06
Time of Concentration:						5.5
Lag:						3.3

Segment	Flow Type	Length	Slope	Manning's Coef.	Time (hr)	Time (min)
DA-EX2 0.77 AC						
1	SCS Sheet Flow	20	0.70%	0.24	0.090	5.40
2	SCS Shallow Concentrated Flow	250	0.70%	-	0.051	3.06
2	SCS Shallow Concentrated Flow	190	2.10%	-	0.023	1.38
Time of Concentration:						9.8
Lag:						5.9

LOCATION OF EXISTING
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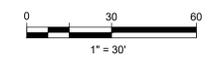
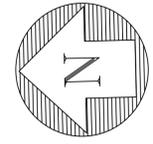
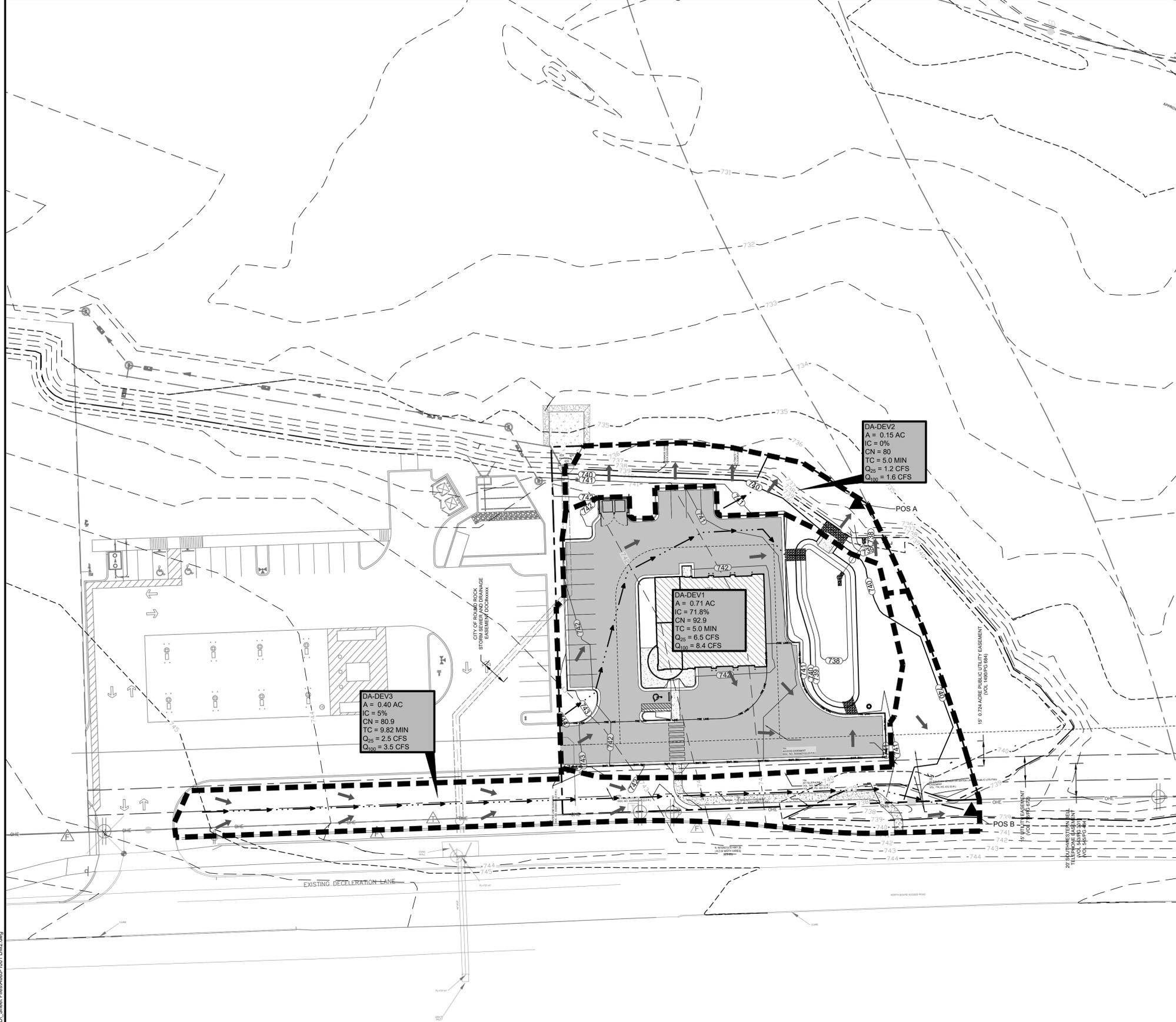
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A665-1001

DM1

SHEET NO.
12

OF 25 SHEETS

Date/Time: Thu, 16 Mar 2023, 3:09pm
 Path/Name: G:\A665-1001_RR Brake Check\A665-1001.DWG



LEGEND:

- 730 --- EXISTING MAJOR CONTOUR
- 733 --- EXISTING MINOR CONTOUR
- → → → TIME OF CONCENTRATION PATH
- → → → FLOW ARROW
- --- DRAINAGE BOUNDARY
- --- EXISTING PROPERTY LINE

Drainage Area	Area acres	Time of Conc. mins	Curve Number	Proposed Drainage					Notes
				Q 2-yr cfs	Q 10-yr cfs	Q 25-yr cfs	Q 50-yr cfs	Q 100-yr cfs	
DA-DEV1	0.71	5.00	92.9	3.4	5.3	6.5	7.4	8.4	POS A
DA-DEV2	0.15	5.00	80.0	0.5	0.9	1.2	1.4	1.6	POS A
DA-DEV3	0.40	9.82	80.9	1.1	2.0	2.5	3.0	3.5	POS B

Study Point Comparison					
POS A	Q 2-yr cfs	Q 10-yr cfs	Q 25-yr cfs	Q 50-yr cfs	Q 100-yr cfs
Existing	1.5	2.8	3.6	4.3	5.0
Proposed	3.9	6.2	7.6	8.8	10.0
Delta	2.4	3.4	4	4.5	5

Study Point Comparison					
POS B	Q 2-yr cfs	Q 10-yr cfs	Q 25-yr cfs	Q 50-yr cfs	Q 100-yr cfs
Existing	2.0	3.7	4.8	5.7	6.6
Proposed	1.1	2.0	2.5	3.0	3.5
Delta	-0.9	-1.7	-2.3	-2.7	-3.1

Proposed Conditions						
DA-DEV1 0.71 AC						
Segment	Flow Type	Length	Slope	Manning's Coef.	Time (hr)	Time (min)
1	SCS Sheet Flow	25	5.80%	0.24	0.046	2.76
2	SCS Shallow Concentrated Flow	180	0.76%	-	0.028	1.68
					Time of Concentration:	5.0
					Lag:	3.0

Proposed Conditions						
DA-DEV2 0.15 AC						
Segment	Flow Type	Length	Slope	Manning's Coef.	Time (hr)	Time (min)
1	SCS Sheet Flow	37	4.10%	0.24	0.072	4.32
2	SCS Shallow Concentrated Flow	16	19.60%	-	0.001	0.06
					Time of Concentration:	5.0
					Lag:	3.0

Proposed Conditions						
DA-DEV3 0.40 AC						
Segment	Flow Type	Length	Slope	Manning's Coef.	Time (hr)	Time (min)
1	SCS Sheet Flow	20	0.70%	0.24	0.090	5.40
2	SCS Shallow Concentrated Flow	250	7.00%	-	0.051	3.06
3	SCS Shallow Concentrated Flow	190	2.10%	-	0.023	1.38
					Time of Concentration:	9.8
					Lag:	5.9

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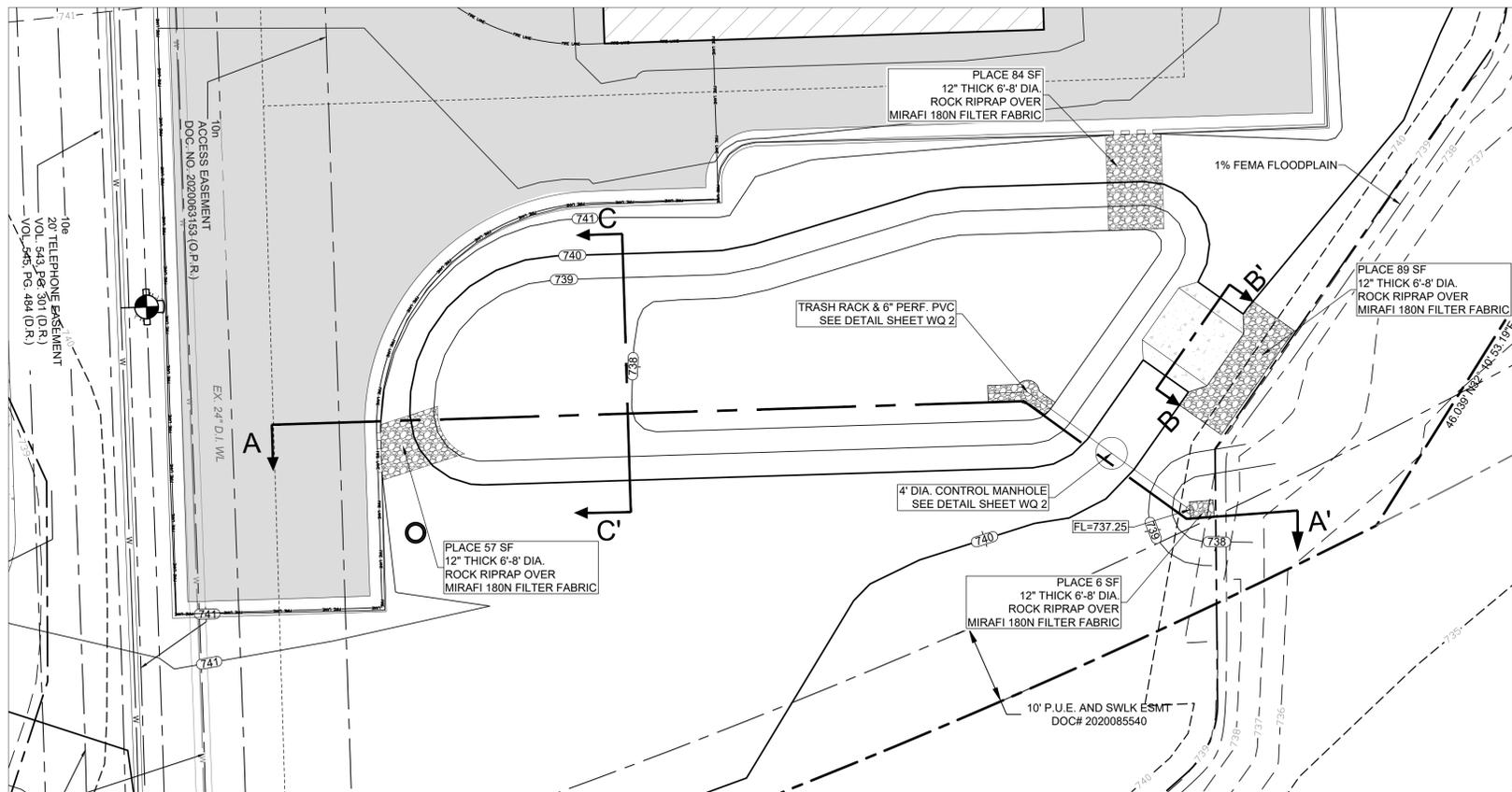
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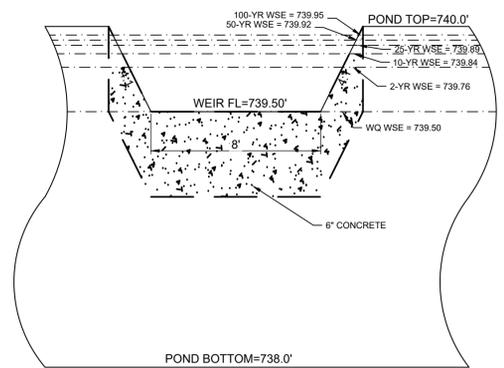
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SHEET NO.
13
OF 25 SHEETS

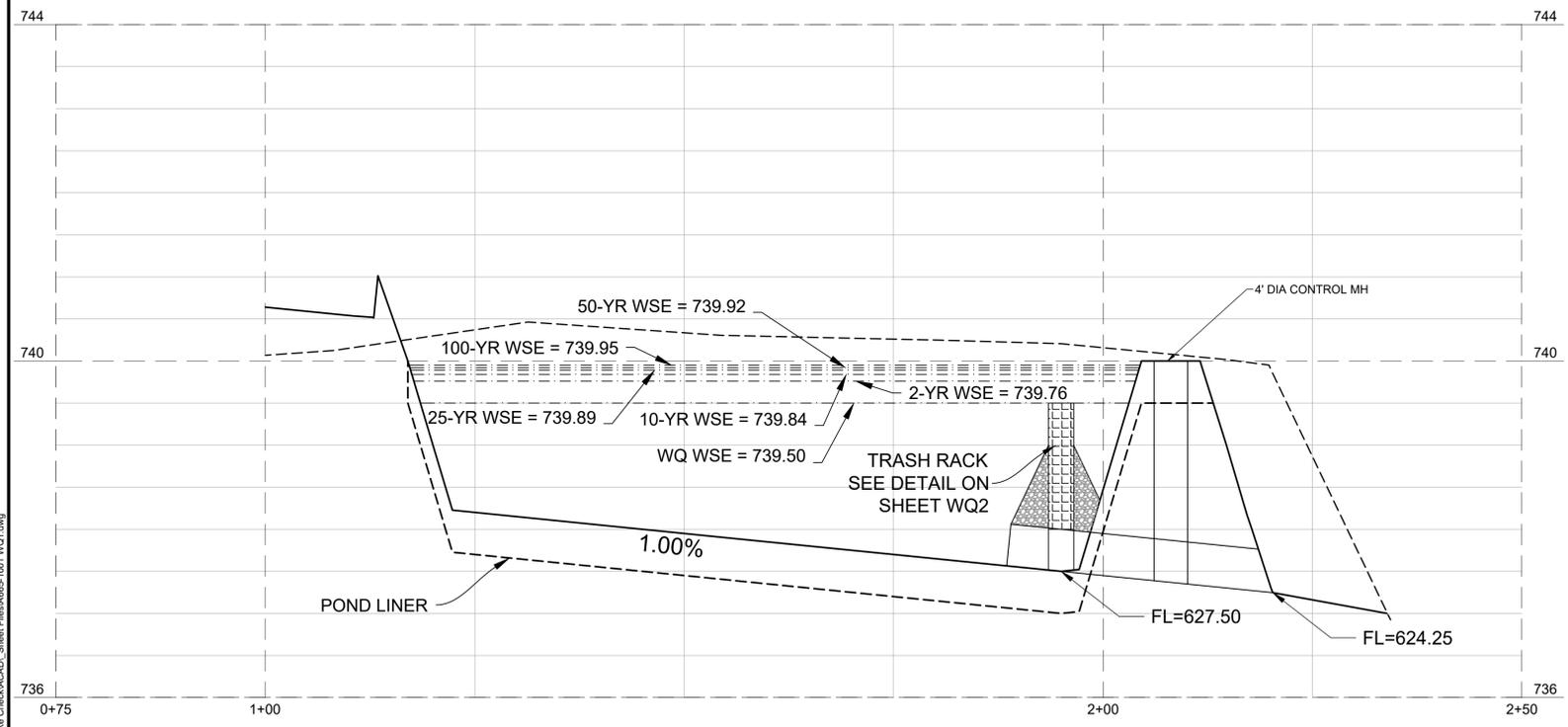
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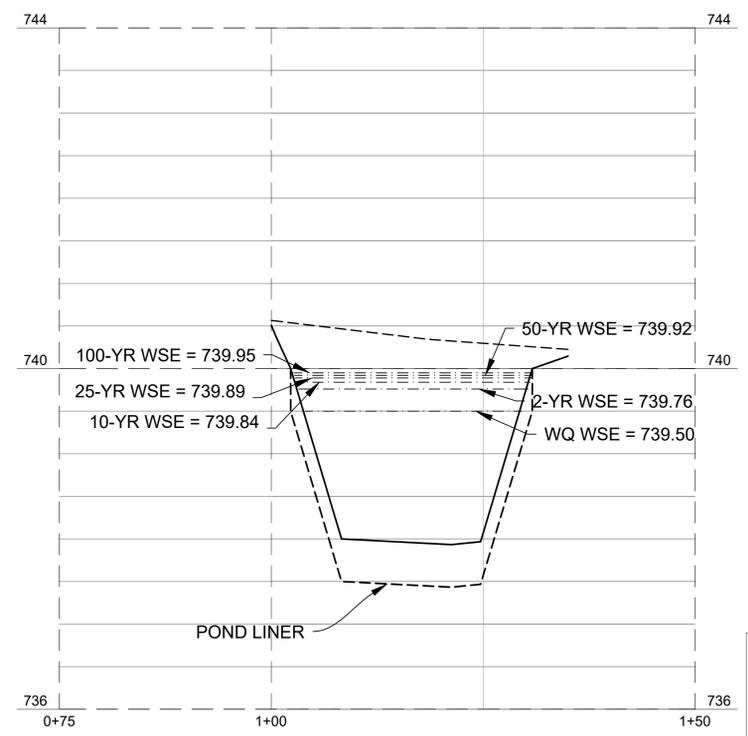
NOTE:
 SEE STRUCTURAL PLANS FOR CONCRETE WALL AND SPLITTER BOX DESIGN.
 CONTRACTOR TO USE DEWATERING SKIMMER DURING CONSTRUCTION, SEE EROSION CONTROL SHEETS FOR LOCATION.



POND WEIR STRUCTURE B-B'
 SCALE:
 1=4' (HORIZONTAL)
 1=2' (VERTICAL)



SECTION A-A'
 STA. 0+75 - STA. 2+50
 SCALE:
 1=10' (HORIZONTAL)
 1=1' (VERTICAL)



SECTION C-C'
 STA. 0+75 - STA. 1+50
 SCALE:
 1=10' (HORIZONTAL)
 1=1' (VERTICAL)

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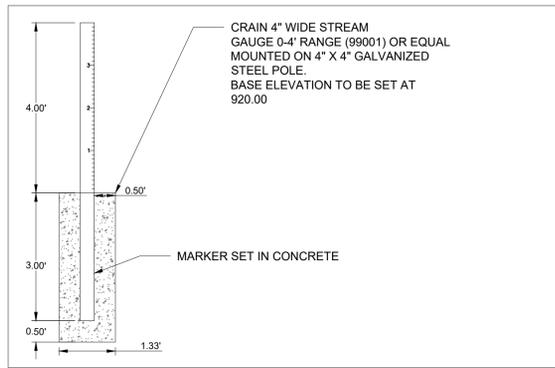
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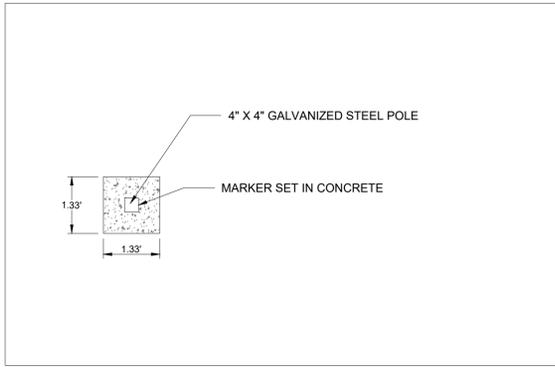
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JOB NUMBER:
 A665-1001
WQ1
 SHEET NO.
14
 OF **25** SHEETS

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SEDIMENT MARKER DETAIL
PROFILE VIEW



SEDIMENT MARKER DETAIL
PLAN VIEW

Texas Commission on Environmental Quality
TSS Removal Calculations 04-20-2009
Project Name: A665-1001 RR Brake Check
Date Prepared: 2/17/2023

1. The Required Load Reduction for the total project:
Calculations from RG-348 Pages 3-27 to 3-30
Page 3-29 Equation 3.3: $L_d = 27.2(A_p \times P)$

where:
 L_d Total Load = Required TSS removal resulting from the proposed development = 80% 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
Total project area included in plan = 0.85 acres
Predevelopment impervious area within the limits of the plan = 0.00 acres
Total post-development impervious area within the limits of the plan = 0.53 acres
Total post-development impervious cover fraction = 0.56
 P = 32 inches

L_d Total Project = 461 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 1

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area = 0.71 acres
Predevelopment impervious area within drainage basin/outfall area = 0.00 acres
Post-development impervious area within drainage basin/outfall area = 0.51 acres
Post-development impervious fraction within drainage basin/outfall area = 0.72
 L_d This Basin = 444 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Extended Batch Detention
Removal efficiency = 91 percent

4. Calculate Maximum TSS Load Removed (L_d) for this Drainage Basin by the selected BMP Type.

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

where:
 A_p = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Previous area remaining in the BMP catchment area
 L_d = TSS Load removed from the catchment area by the proposed BMP

A_p = 0.71 acres
 A_i = 0.51 acres
 A_p = 0.20 acres
 L_d = 517 lbs.

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

Desired L_d This Basin = 461 lbs.
 F = 0.89

BASIN LINING REQUIREMENTS
IMPERMEABLE LINERS SHOULD BE USED FOR WATER QUALITY BASINS (RETENTION, EXTENDED DETENTION, SAND FILTERS, WET PONDS AND CONSTRUCTED WETLANDS) LOCATED OVER THE RECHARGE ZONE AND IN AREAS WITH THE POTENTIAL FOR GROUNDWATER CONTAMINATION. IMPERMEABLE LINERS MAY BE CLAY, CONCRETE OR GEOMEMBRANE. IF GEOMEMBRANE IS USED, SUITABLE GEOTEXTILE FABRIC SHOULD BE PLACED ON THE TOP AND BOTTOM OF THE MEMBRANE FOR PUNCTURE PROTECTION AND THE LINERS COVERED WITH A MINIMUM OF 6 INCHES OF COMPACTED TOPSOIL. THE TOPSOIL SHOULD BE STABILIZED WITH APPROPRIATE VEGETATION.

IF A GEOMEMBRANE LINER IS USED IT SHOULD HAVE A MINIMUM THICKNESS OF 30 MILS AND BE ULTRAVIOLET RESISTANT. THE GEOTEXTILE FABRIC (FOR PROTECTION OF GEOMEMBRANE) SHOULD BE NONWOVEN GEOTEXTILE FABRIC AND MEET THE SPECIFICATIONS IN TABLE 3-7.

Property	Test Method	Unit	Specification (min)
Unit Weight		oz/yd ²	8
Filtration Rate		in/sec	0.08
Puncture Strength	ASTM D-751*	lb	125
Mullen Burst Strength	ASTM D-751	psi	400
Tensile Strength	ASTM D-1682	lb	200
Eqv. Opening Size	US Standard Sieve	No.	80

INSTALLATION METHODS FOR GEOMEMBRANE LINERS VARY ACCORDING TO THE SITE REQUIREMENTS. FIGURE 3-13 SHOWS A TYPICAL INSTALLATION ON AN EARTHEN SLOPE WITH THE LINER KEYED IN ABOVE THE MAXIMUM WATER LEVEL OF THE BASIN. FIGURE 3-14 PRESENTS AN EXAMPLE OF GEOMEMBRANE LINER ATTACHED TO THE EXTERIOR OF A CONCRETE OR ROCK WALL. THE "LIQUID MEMBRANE" SHOWN IN THE FIGURE IS A HOT FLUID-APPLIED, RUBBERIZED ASPHALT TYPICALLY USED FOR WATERPROOFING AND ROOFING APPLICATIONS, SUCH AS HYDROTECH 6125 OR EQUIVALENT.

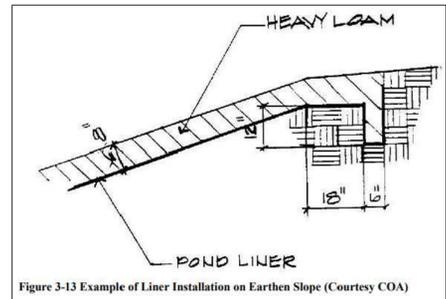


Figure 3-13 Example of Liner Installation on Earthen Slope (Courtesy COA)

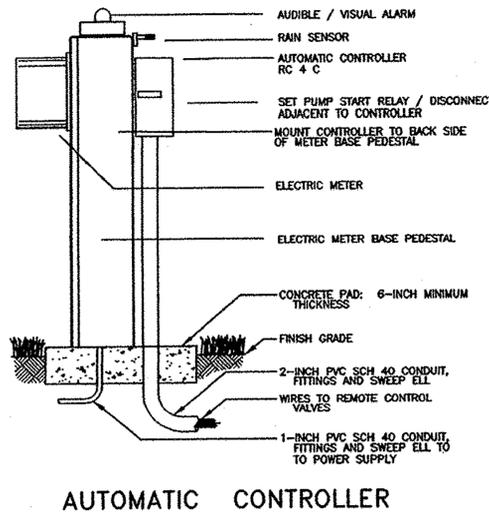
6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth = 1.60 inches
Post Development Runoff Coefficient = 0.32
On-site Water Quality Volume = 2163 cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = 0.00 acres
Off-site impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0.00
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 433 cubic feet
Total Capture Volume (required water quality volume(s) x 1.20) = 2596 cubic feet



AUTOMATIC CONTROLLER

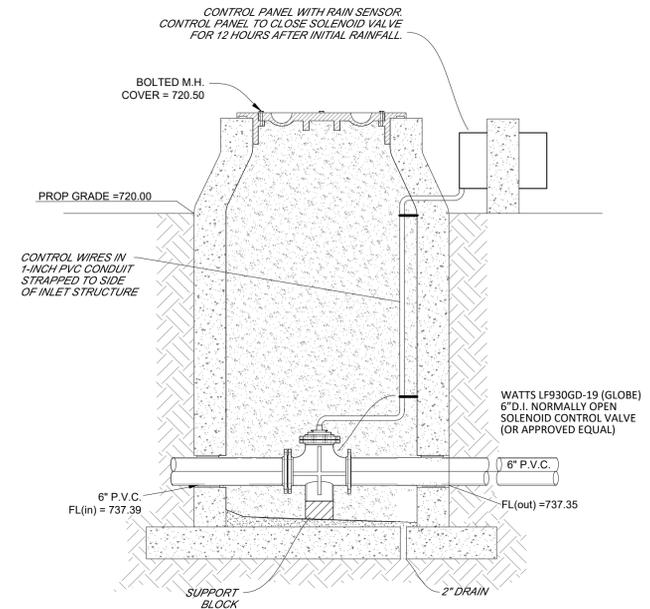
WQ POND 1
BATCH DETENTION POND CALCULATIONS

WATER QUALITY CONTROL CALCULATIONS
25-year Peak Flow Rate = 6.5 cfs
100-year Peak Flow Rate = 8.4 cfs

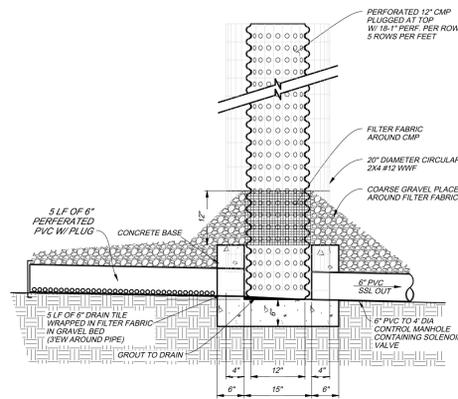
Required	Provided	
Water Quality Volume	2,596 cf	3,078 cf
Water Quality Elevation	739.50 ft MSL	739.50 ft MSL
WQV Height Above Pond Bottom	Max 5 ft	1.50 ft

WATER QUALITY STAGE/STORAGE RELATIONSHIPS

	BATCH DETENTION POND STAGE / STORAGE				
	STAGE	AREA (sf)	INC. VOL.	STORAGE (cf)	STORAGE (Ac-Ft)
Office FL	737.50	0	0	0	0.00000
Pond Bot	738.00	1,228	205	205	0.00470
	739.00	2,189	1,686	1,890	0.04339
WQV	739.50	2,567	1,188	3,078	0.07066
Pond Top	740.00	2,878	1,361	4,438	0.10189

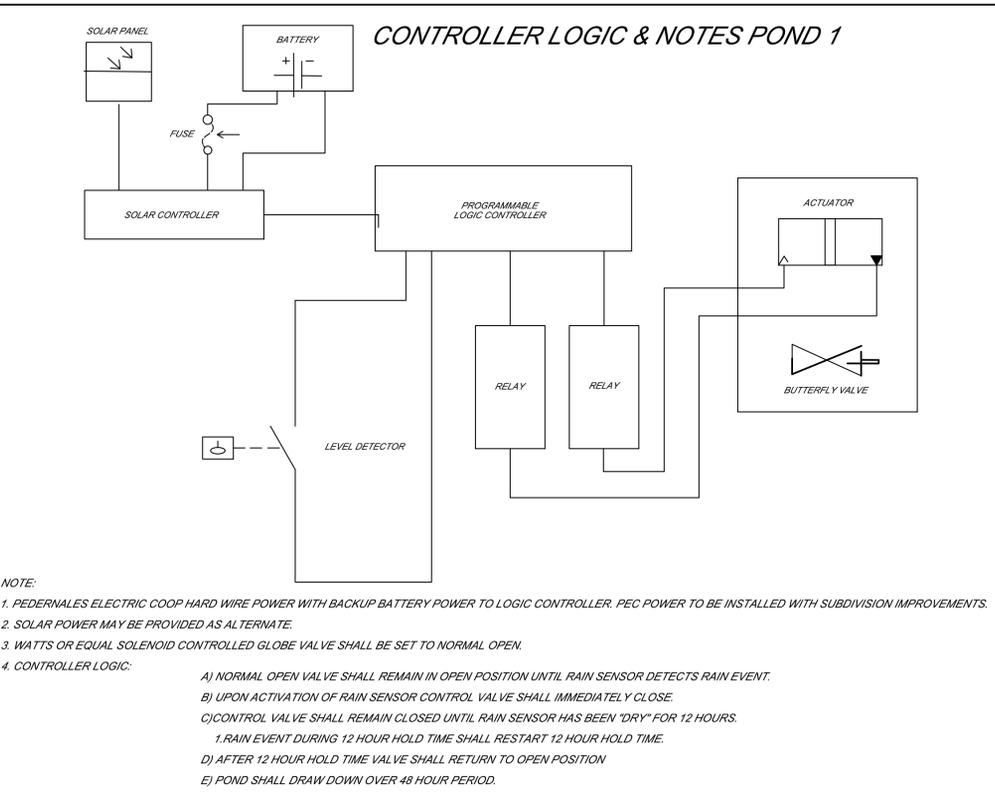


CONTROL MANHOLE DETAIL



TYPICAL STAND PIPE WITH TRASH RACK
N.T.S.

NOTE:
1. CONCRETE STRUCTURE TO BE TEMPORARILY PLACED DURING CONSTRUCTION



CONTROLLER LOGIC & NOTES POND 1

NOTE:

1. PEDERNALES ELECTRIC COOP HARD WIRE POWER WITH BACKUP BATTERY POWER TO LOGIC CONTROLLER. PEC POWER TO BE INSTALLED WITH SUBDIVISION IMPROVEMENTS.
2. SOLAR POWER MAY BE PROVIDED AS ALTERNATE.
3. WATTS OR EQUAL SOLENOID CONTROLLED GLOBE VALVE SHALL BE SET TO NORMAL OPEN.
4. CONTROLLER LOGIC:
 - A) NORMAL OPEN VALVE SHALL REMAIN IN OPEN POSITION UNTIL RAIN SENSOR DETECTS RAIN EVENT.
 - B) UPON ACTIVATION OF RAIN SENSOR CONTROL VALVE SHALL IMMEDIATELY CLOSE.
 - C) CONTROL VALVE SHALL REMAIN CLOSED UNTIL RAIN SENSOR HAS BEEN "DRY" FOR 12 HOURS.
 1. RAIN EVENT DURING 12 HOUR HOLD TIME SHALL RESTART 12 HOUR HOLD TIME.
 - D) AFTER 12 HOUR HOLD TIME VALVE SHALL RETURN TO OPEN POSITION
 - E) POND SHALL DRAW DOWN OVER 48 HOUR PERIOD.

BRAKE CHECK ROUND ROCK
SITE PLAN
WATER QUALITY POND CALCULATION & NOTES

NO.	REVISIONS	DESCRIPTION	BY	DATE

DESIGNED BY: JCM/RB
DRAWN BY: RB
CHECKED BY: JCM
DRAWING NAME: A665-1001-WQ2.dwg



3/16/2023

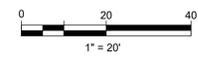
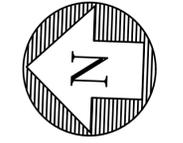
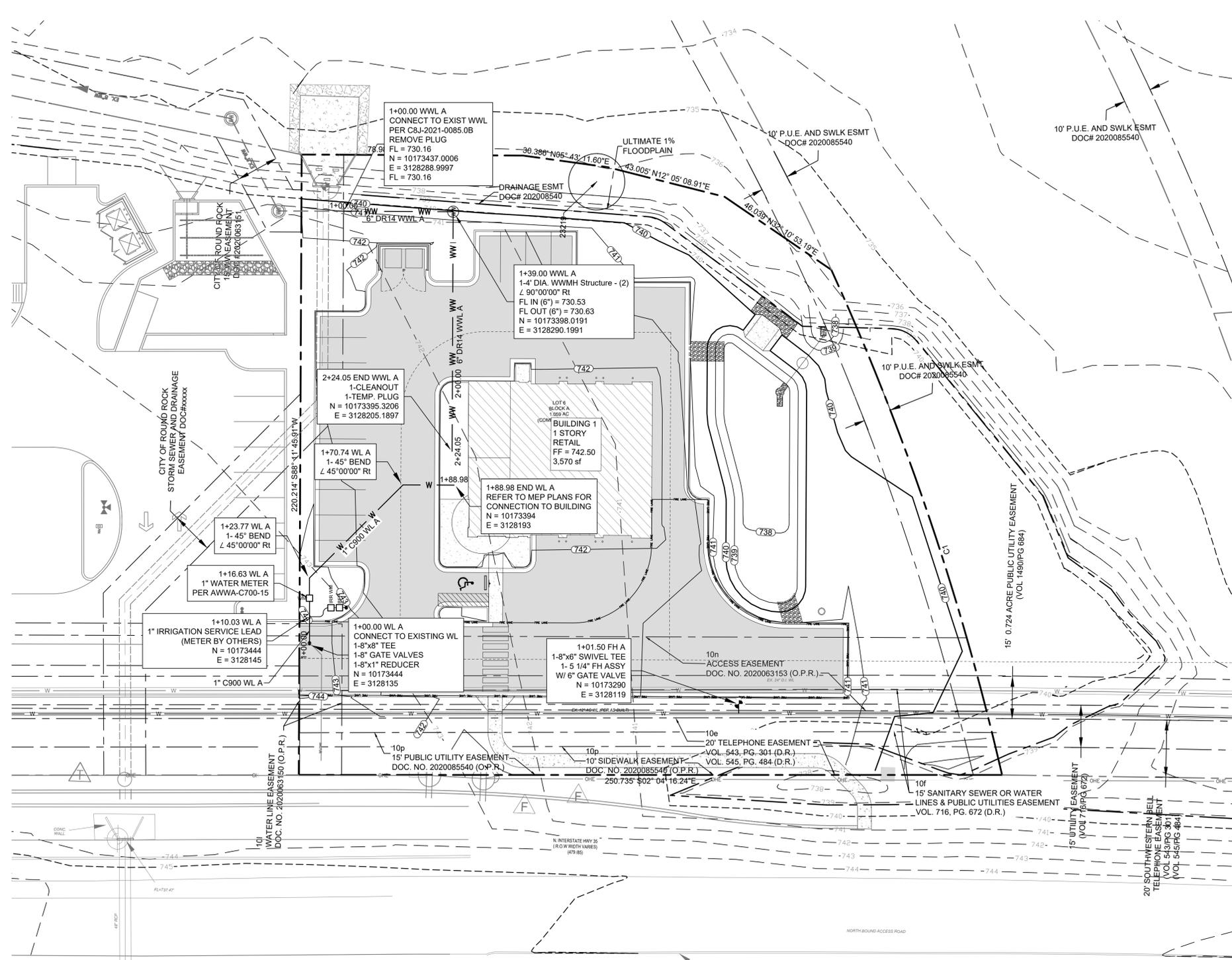
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FRN - F-1386

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.

811
Know what's below.
Call before you dig.

JOB NUMBER:
A665-1001
WQ2
SHEET NO.
15
OF 25 SHEETS

Drawn: JCM, 16 Mar 2023, 3:10pm
 PlotName: G:\AR65-1001_PRR Brake Check\AR65-1001_UT1.dwg



LEGEND:

- PROPOSED FIRE HYDRANT ASSEMBLY
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- PROPOSED AIR RELEASE VALVE
- EXISTING AIR RELEASE VALVE
- PROPOSED PLUG OR CAP
- EXISTING PLUG OR CAP
- PROPOSED CLEAN OUT
- EXISTING CLEAN OUT
- PROPOSED WATER LINE
- PROPOSED WASTEWATER LINE AND MANHOLE
- PROPOSED STORM SEWER LINE AND MANHOLE
- EXISTING WATER LINE
- EXISTING WASTEWATER LINE AND MANHOLE
- EXISTING STORM SEWER LINE
- DOUBLE SANITARY SERVICE LEAD
- SINGLE SANITARY SERVICE LEAD
- DOUBLE WATER SERVICE LEAD
- SINGLE WATER SERVICE LEAD
- SINGLE WASTEWATER PRESSURE SERVICE LEAD

NOTES:

1. ALL GATE VALVES TO BE INSTALLED PER CORR DETAIL WT-22 AT P.C. OF CURB AT ALL INTERSECTIONS UNLESS OTHERWISE INDICATED ON PLANS.
2. ALL WATER SERVICES TO BE INSTALLED PER CORR DETAIL WT-01.
3. ALL WATER AND WASTEWATER SERVICES TO BE INSTALLED ON THE SAME PROPERTY LINE. NO OTHER UTILITIES (FIRE HYDRANTS, STORM SEWER, ELECTRIC SERVICES, ETC.) MAY BE LOCATED ON THE SAME PROPERTY LINE AS WATER AND WASTEWATER SERVICES.
4. FIRE HYDRANTS SHALL BE CONSTRUCTED PER CORR DETAIL WT-05. ALL FIRE HYDRANT LEADS TO BE CONSTRUCTED WITH DUCTILE IRON PIPE. FIRE HYDRANTS MUST BE LOCATED IN THE R.O.W. AND MAY NOT BE CLOSER THAN 7.5' TO A STORM SEWER INLET.
5. ALL WATER LINES TO BE LOCATED 14.5' FROM R.O.W. FOR 50' R.O.W. ALL WATER AND WASTEWATER LINES SHALL HAVE A MINIMUM OF 9' HORIZONTAL SEPARATION, AND 2' VERTICAL SEPARATION BETWEEN THEM.
6. ALL WATER LINES TO BE AWWA C-900, DR14 PVD, CL-305 PSI.
7. ALL WATER SERVICES TO BE TYPE K COPPER.
8. ALL LOTS IN THIS SUBDIVISION ARE REQUIRED TO HAVE A PRESSURE REDUCING VALVE SET TO 65 PSI ON THE PROPERTY OWNER'S SIDE OF THE METER.
9. PIPE STATIONING AND LINEAR FOOTAGE IS FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. PIPE SLOPE IS CALCULATED FROM INSIDE FACE OF MANHOLE TO INSIDE FACE OF MANHOLE.

LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR.



BRAKE CHECK ROUND ROCK SITE PLAN

NO.	REVISIONS	DESCRIPTION	BY	DATE

DATE: 3/16/2023	DESIGNED BY: JCM/RB
DRAWN BY: RB	CHECKED BY: JCM
DRAWING NAME: AR65-1001_UT1.dwg	



LJA Engineering, Inc.
 2700 La Frontera Blvd
 Suite 150
 Round Rock, TX 78681
 Phone 512.439.4700
 Fax 512.439.4716
 FRN - F-1386

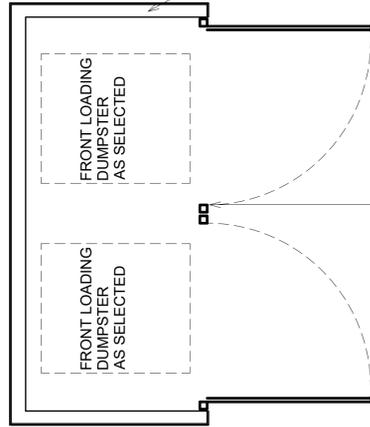
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A665-1001

UT1

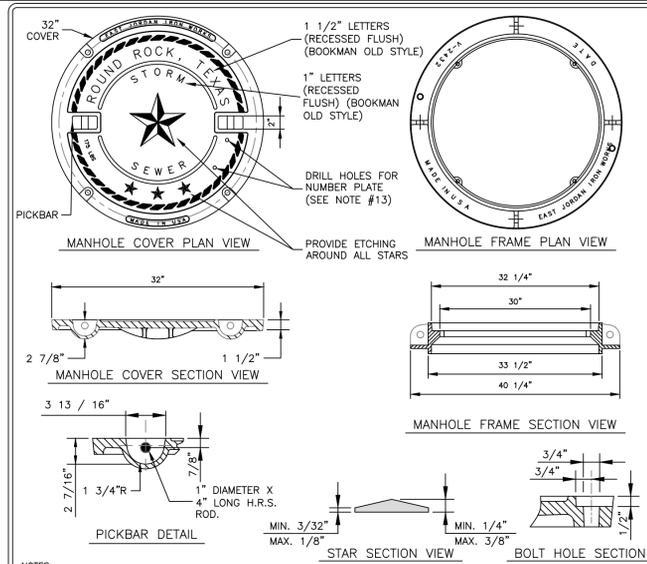
SHEET NO.
16

OF 25 SHEETS

6'-0" HIGH WALL:
3/4 STUCCO SYSTEM
ON 8" CMU BLOCK.
PROVIDE CONC. FOOTING
AND PAD PER STRUCTURAL



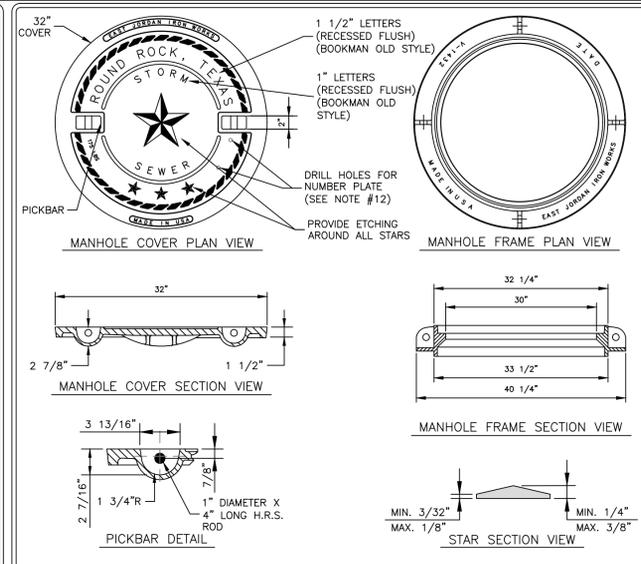
4" X 4" STEEL POST EMBEDDED
INTO CONCRETE FOOTING
PROVIDE STEEL TUBE GATE TO
MATCH WITH LATCH. INFILL
GATE WITH VERTICAL
HARDPLANK SIDING AND PAINT
TO MATCH STUCCO.



- NOTES:
- COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
 - MANHOLE COVER SHALL BE MODEL NUMBER: V-2432-3 (PRODUCT NUMBER: 42432032), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
 - MANHOLE FRAME SHALL BE MODEL NUMBER: V-2432 (PRODUCT NUMBER: 42432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
 - MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-2432 (PRODUCT NUMBER: 42432072), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
 - ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
 - MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
 - MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
 - MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
 - FILETS SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
 - MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
 - COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
 - BOLTS SHALL BE 5/8"-11NC X 2" LONG HEX STAINLESS STEEL WITH WASHER.
 - MANUFACTURER SHALL DRILL 2-3/16" X 1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

CITY OF ROUND ROCK DRAWING NO: DR-05
APPROVED 04-01-10 DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

BOLTED STORMSEWER MANHOLE COVER AND FRAME DETAIL



- NOTES:
- COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
 - MANHOLE COVER SHALL BE MODEL NUMBER: V-1432-3 (PRODUCT NUMBER: 41432058), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
 - MANHOLE FRAME SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
 - MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432080), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
 - ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
 - MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
 - MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
 - MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
 - FILETS SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
 - MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
 - COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
 - MANUFACTURER SHALL DRILL 2-3/16" X 1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

CITY OF ROUND ROCK DRAWING NO: DR-06
APPROVED 04-01-10 DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

NON-BOLTED STORMSEWER MANHOLE COVER AND FRAME DETAIL

UTILITY PLACEMENT WITHIN CORR CONTROLLED AREA

GENERAL NOTES SHEET

- UTILITY LINE IS A PUBLIC OR PRIVATE POWER, COMMUNICATION, TELEVISION, GAS, FIBER OPTIC AND IRRIGATION (DRY OR PRESSURE) LINE, CABLE, CONDUIT, PIPE OR TUBING.
- UTILITY CLUSTER IS ANY NUMBER AND MIX OF DIRECT BURIED "DRY" UTILITY LINES IN A VERTICAL, HORIZONTAL OR BUNDLE CONFIGURATION.
- ENCASEMENT IS ANY NUMBER OF CONDUITS, CASING PIPES (CONCRETE, PVC, CONDUIT BANK, WELDED STEEL, ETC.), AND/OR PROTECTIVE ARMOR BEDDING (CONCRETE, FLOWABLE FILL, ETC.).
- ALL TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- UTILITY WORK SITE IS THE LOCATION WHERE A UTILITY IS MAINTAINED, REPAIRED AND/OR INSTALLED.
- A COPY OF THE PERMIT IS REQUIRED ON THE UTILITY WORK SITE IN/ON CORR OWNED/LEASED PROPERTY, ROW, CORR EASEMENT OR PUE IMPACTING VEHICLE/PEDESTRIAN TRAFFIC, SAFETY OR CAUSES LIABILITY (TEMPORARY/LONG TERM). THIS EXCLUDES UNCONSTRUCTED SUBDIVISIONS, CITY, STATE OR FEDERAL CONTROLLED PROPERTY, PRIVATELY CONTROLLED EASEMENTS & PRIVATELY OWNED PROPERTY.
- VARIANCE FROM THESE STANDARDS IS ONLY ALLOWED, IF DETAILED PLANS HAVE WRITTEN APPROVAL BY THE CORR BEFORE CONSTRUCTION STARTS.
- PUBLIC AREA EXCAVATION MUST BE BARRICADED WITH APPROVED VEHICLE AND PEDESTRIAN TRAFFIC CONTROL DEVICES BEFORE CONSTRUCTION STARTS.
- INACTIVE (NO PERSONNEL PRESENT) EXCAVATION OUTSIDE OF AN EXISTING PAVEMENT, LEFT OPEN OVERNIGHT, MUST HAVE PEDESTRIAN FENCING & PLATING.
- INACTIVE EXCAVATION MAY NOT REMAIN OVER A WEEKEND OR HOLIDAY WITHOUT PRIOR WRITTEN APPROVAL FROM THE CORR AND SAFE GUARDS.
- TOTAL TRENCH WIDTH SHALL BE THE SUM OF THE OUTSIDE DIMENSION (OD) OF THE UTILITY CLUSTER OR ENCASEMENT PLUS A MINIMUM OF 2" IF THE OD IS LESS THAN 6 1/2", PLUS 6" IF THE OD IS BETWEEN 6 1/2" & 18", PLUS 12" IF THE OD IS MORE THAN 18" WITH A MAXIMUM OF 24".
- FOR A UTILITY WORK SITE IN AN AREA THAT IS SCHEDULED FOR FUTURE PAVEMENT, SEE: ASPHALT PAVED AREA TRENCH (APAT) (DU-03) DETAIL.
- FOR A UTILITY WORK SITE IN AN AREA THAT HAS EXISTING PAVEMENT, SEE: PROPOSED PAVEMENT AREA TRENCH (PPAT) (DU-04) DETAIL.
- FOR A CROSSING OF A CORR OWNED UTILITY, SEE: UTILITY CROSSING INSTALLATION (UC) (DU-05) DETAIL.
- REQUIRED ENCASEMENT MAY BE SCHEDULED 40 PVC, EXCEPT GAS, WHICH MUST BE SCHEDULED 40 WELDED JOINT STEEL OR SCHEDULE 80 PVC. OTHER TYPES OF ENCASEMENT REQUIRE CORR WRITTEN APPROVAL.
- ALL ELECTRICAL CONDUCTIVE LINES (OVER 60 VOLTS) MUST BE ENCASED.
- ALL UTILITY LINES MUST BE ENCASED UNDER EXISTING AND PROPOSED PAVEMENT, CROSSING ABOVE CORR LINES AND UNDER PROTECTED TREES.
- WASHED SAND BEDDING MUST BE USED IN THE INSTALLATION WHEN WITHIN 10' OF A CORR OWNED UTILITY LINE, EXCEPT IN EXISTING PAVEMENT.
- REQUIRED WASHED SAND BEDDING IN A TRENCH WITH SIDE WALL CLEARANCE LESS THAN 3" IS SMALL GRAIN (MAXIMUM 1/16") AND IN A TRENCH WITH SIDE WALL CLEARANCE MORE THAN 3" IS LARGE GRAIN (MAXIMUM 3/16"). BEDDING MUST BE CONSOLIDATED TO MINIMIZE AIR VOIDS.
- ALL OF THE AREAS DISTURBED DIRECTLY BY, INDIRECTLY BY OR BECAUSE OF THE UTILITY WORK, WILL BE INCLUDED IN THE CLEAN UP.
- CLEAN UP INCLUDES DRESS-OUT, EROSION CONTROL, MAINTENANCE/REMOVAL, RESTORATION, DEBRIS REMOVAL/DISPOSAL & PAVEMENT SWEEPING/WASHING.
- RESTORATION AS A MINIMUM, SHALL INCLUDE: FERTILIZER:
 - 22A. ANY LAWN LIKE AREAS - SOLID SODDING WITH GRASS LIKE EXISTING OR APPROVED BETTER.
 - 22B. GRADES 5% OR LESS - HYDRO-MULCHED.
 - 22C. GRADES ABOVE 5% UP TO 10% - MATTED AND HYDRO-MULCHED.
 - 22D. GRADES ABOVE 10% UP TO 25% - SOLID SODDING WITH GRASS LIKE EXISTING OR APPROVED BETTER.
 - 22E. GRADES ABOVE 25% - DETAIL PLANS AND CORR WRITTEN APPROVAL REQUIRED.

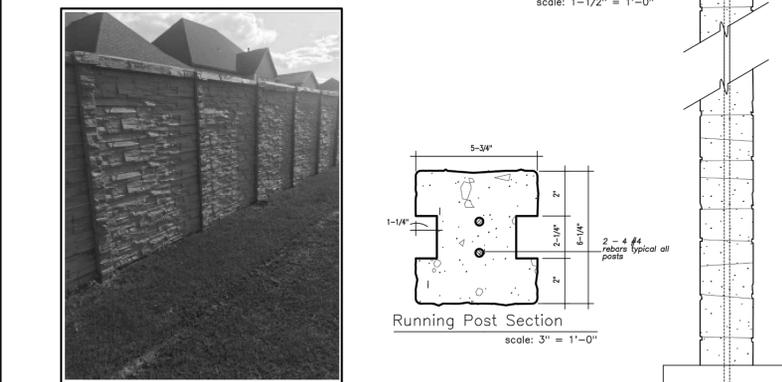
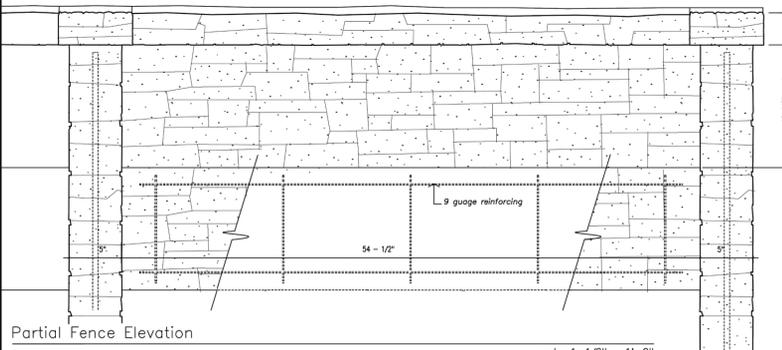
LEGEND FOR DU SHEETS

PVC	POLYVINYL CHLORIDE PIPE OR CONDUIT
OD	OUTSIDE DIAMETER
GALS	UNITED STATES GALLONS - UNIT OF VOLUME
LBS	UNITED STATES POUNDS - UNIT OF WEIGHT
CORR	CITY OF ROUND ROCK
PUE	PUBLIC UTILITY EASEMENT
SY	UNITED STATES SQUARE YARDS - UNIT OF AREA
"	UNITED STATES INCH OR INCHES - UNIT OF LENGTH
'	UNITED STATES FOOT OR FEET - UNIT OF LENGTH
ETC	ABBREVIATION FOR ET CETERA, IN HENCE TO BE "AND SO FORTH"
ROW	RIGHT OF WAY OR RIGHTS OF WAY
LAB	ABBREVIATION FOR LABORATORY
°	UNITED STATES DEGREE - UNIT OF ANGLE
TV	TELEVISION

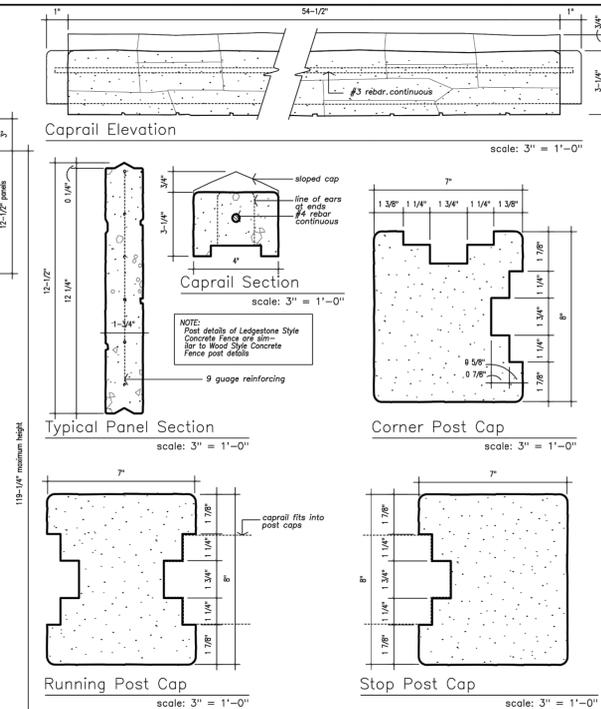
CITY OF ROUND ROCK DRAWING NO: DU-01
APPROVED 04-01-10 DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

DRY UTILITY DETAILS GENERAL NOTES SHEET

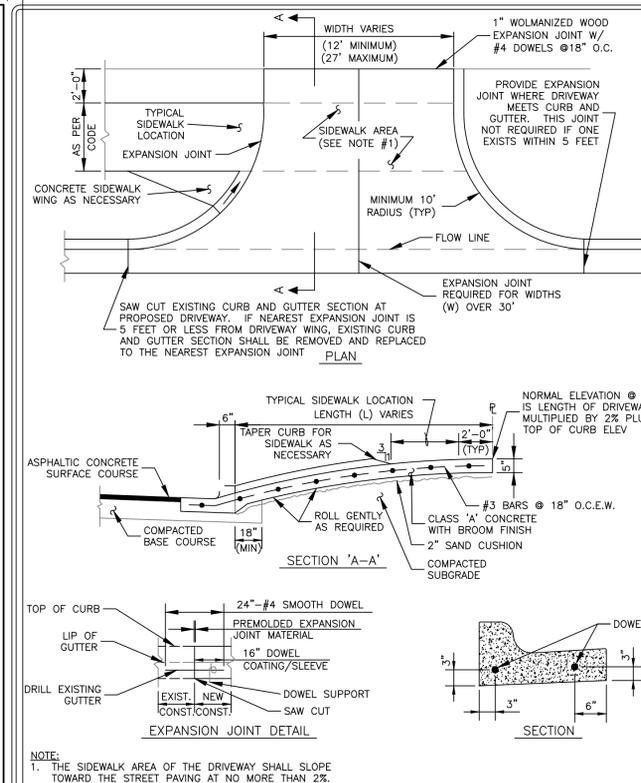
FGA FENCECRETE AMERICA, INC.
manufacturers of precast concrete fencing and masonry wall systems
15089 tradesmen drive san antonio, texas 78249 210-492-7911 800-229-7811 www.fencecrete.com



Ledgestone Style Concrete Fence
footing: 18" diameter, 24" deep (min.) 3000 p.s.i. concrete, varies according to local soil conditions



- notes:
- The column height can be from 0 to a maximum of 10'-0" - with 8'-0" above grade.
 - All concrete shall be 5000 p.s.i.
 - All reinforcement shall be A.S.T.M. 615 grade 60. Special reinforcement is available upon special order.
 - Footing - 2" feet deep (min.) footing standard per column, 12" - 18" diameter. Depth and diameter can vary per local soil conditions.
 - Textured exposed sides have rock-like texture.
 - Notes: Shall have additional steel supports adjacent to concrete columns.
 - All steel reinforcement is provided with steel spacers so as to allow for maximum concrete coverage.
 - A special silicone sealant is used to lock the caprail and post caps in place. This sealant requires special tools for removal.
- We reserve the right to alter the design or specifications without incurring any obligation, all rights reserved.
Fencecrete America, Inc.



CITY OF ROUND ROCK DRAWING NO: ST-03
APPROVED 04-01-10 DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CONCRETE DRIVEWAY DETAIL (COMMERCIAL OR MULTI-FAMILY)

CITY OF ROUND ROCK DRAWING NO: ST-13
APPROVED 04-01-10 DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

FIRE LANE MARKING DETAIL

NOTE:
FIRE LANE STRIPING TO BE 6" WIDE RED PAINT WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED GREATER THAN 30" APART. STRIPING TO BE PAINTED ON THE FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON THE PARKING SURFACE WHEN IT IS NOT.

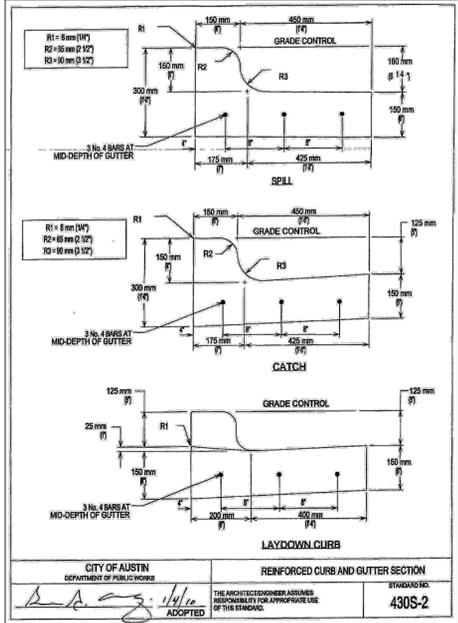
BRAKE CHECK ROUND ROCK SITE PLAN

DATE: 3/16/2023
DESIGNED BY: JCM/RB
DRAWN BY: JCM
CHECKED BY: JCM
DRAWING NAME: A665-1001.DWG

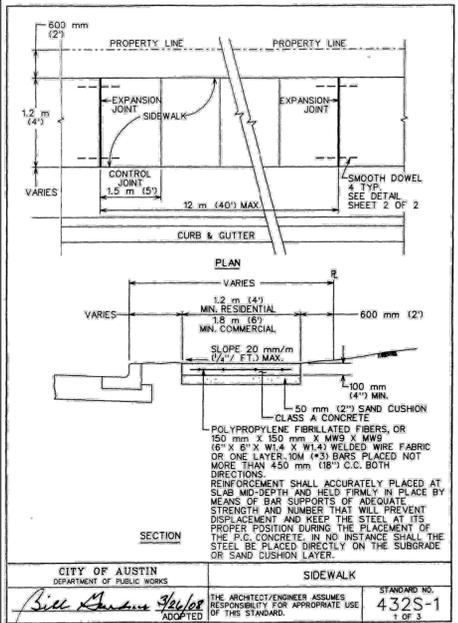
LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681
Phone 512-439-4700
Fax 512-439-4716
FRN - F-1386

JOB NUMBER: A665-1001
SHEET NO. 17 OF 25 SHEETS
DT 1

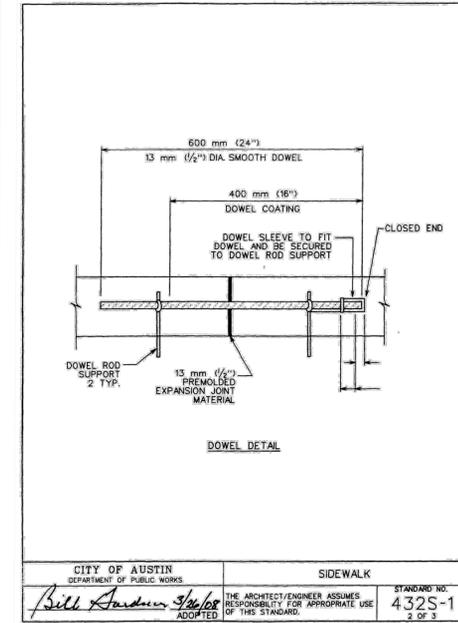
SDP2302-0003



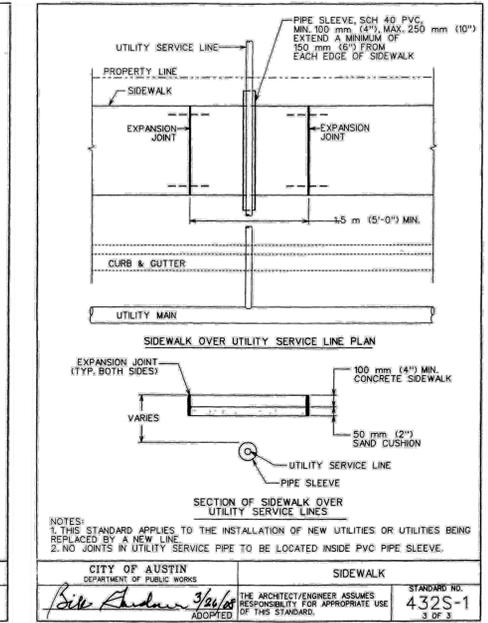
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
REINFORCED CURB AND GUTTER SECTION
STANDARD NO. 430S-2
1 OF 2



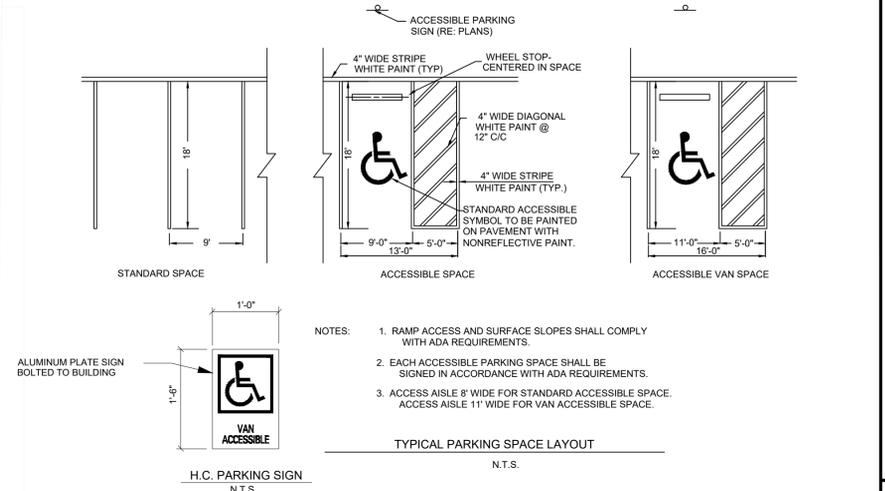
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
SIDEWALK
STANDARD NO. 432S-1
1 OF 3



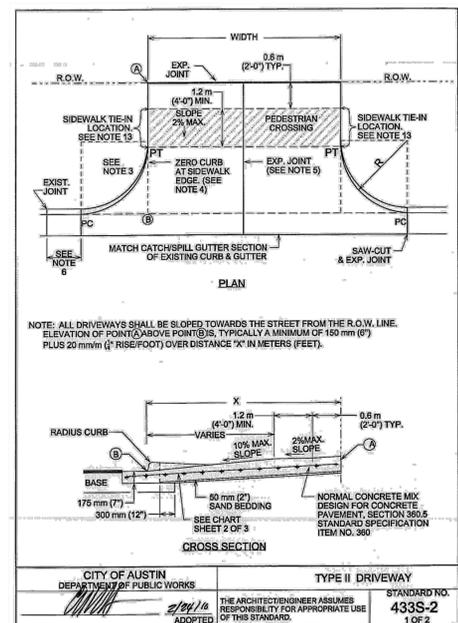
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
SIDEWALK
STANDARD NO. 432S-1
2 OF 3



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
SIDEWALK
STANDARD NO. 432S-1
3 OF 3



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
PARKING LOT BUMPER CURB
STANDARD NO. 439S-1
1 OF 1

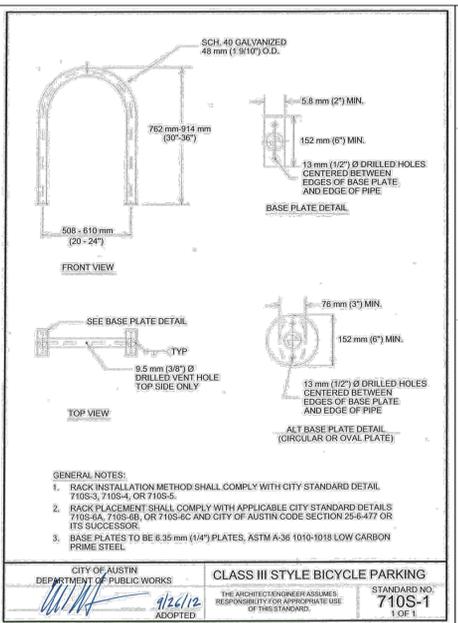


CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
TYPE II DRIVEWAY
STANDARD NO. 433S-2
1 OF 2

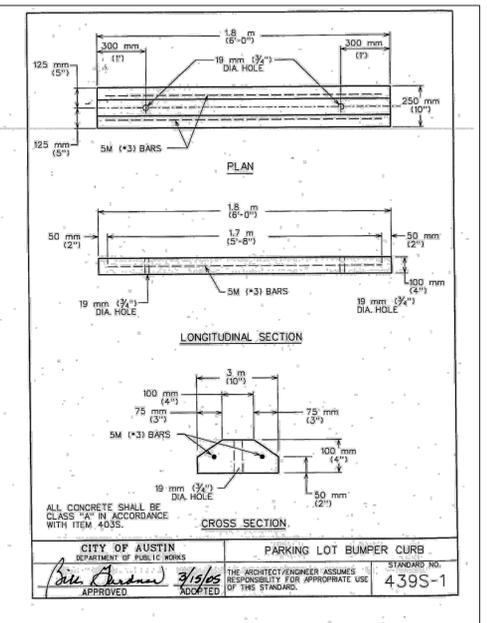
USE	THICKNESS	REINFORCEMENT
DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	150 mm (6") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 3M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS
ALL OTHERS	175 mm (7") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 3M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS

DRIVEWAY VOLUME (ADT)	D=GRADE CHANGE STD.	MAX
>1500	0%	3%
500-1500	3%	6%
<500	6%	10%

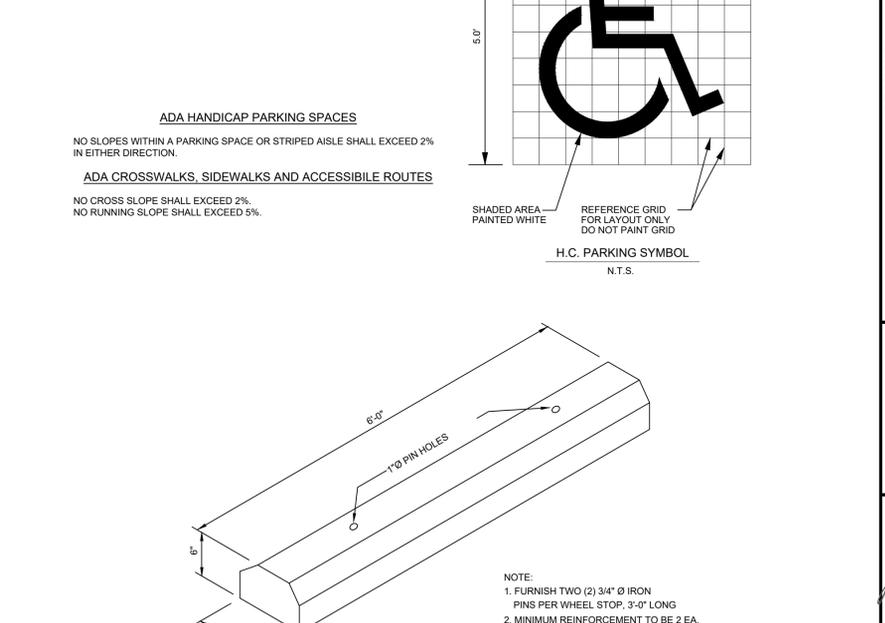
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
TYPE II DRIVEWAY
STANDARD NO. 433S-2
2 OF 2



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
CLASS III STYLE BICYCLE PARKING
STANDARD NO. 710S-1
1 OF 1



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
PARKING LOT BUMPER CURB
STANDARD NO. 439S-1
1 OF 1



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
PARKING LOT BUMPER CURB
STANDARD NO. 439S-1
1 OF 1

Date: 3/16/2023
 File Name: LJA_Engineering
 Path Name: G:\AR65-1001-RR Brake Check\ACAD\Sheet Files\AR65-1001-DT2.dwg

BRAKE CHECK ROUND ROCK SITE PLAN
SITE DETAILS

NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/16/2023
 DESIGNED BY: JCM/RB
 DRAWN BY: RB
 CHECKED BY: JCM
 DRAWING NAME: AR65-1001-DT2.dwg

LJA Engineering, Inc.
 2700 La Frontera Blvd
 Suite 150
 Round Rock, TX 78681
 Phone 512.439.4700
 Fax 512.439.4716
 FRN - F-1386

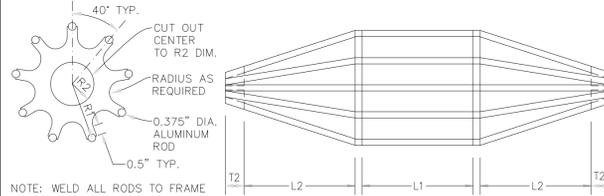
JOB NUMBER: A665-1001
 DT2
 SHEET NO. 18
 OF 25 SHEETS

SDP2302-0003

NOTE:
ALL WASTEWATER LINES SHALL BE TESTED IN ACCORDANCE TO TNRCC CHAPTER 213.5.C.3.E. SPECIFICATIONS BY THE CONTRACTOR INITIALLY AFTER CONSTRUCTION IS COMPLETE, AND BY OWNER 5 YEARS AFTER CONSTRUCTION. MANDRELS SHALL BE SIZED ACCORDING TO THE TABLE SHOWN HEREON. FOR PIPE RUNS CONSISTING OF MULTIPLE PIPE MATERIALS AND/OR ADAPTORS, THE LARGER MANDREL DIAMETER SHALL BE USED FOR THE ENTIRE RUN.

PIPE MATERIAL	NOMINAL DIAMETER	AVERAGE ID	5% DEF. MANDREL DIAMETER
SDR 35	6"	5.893"	5.6"
SDR 26	6"	5.764"	5.48"
SDR 35	8"	7.891"	7.50"
SDR 26	8"	7.715"	7.33"
SDR 35	10"	9.864"	9.37"
SDR 26	10"	9.644"	9.16"
SDR 35	12"	11.737"	11.15"
SDR 26	12"	11.480"	10.91"

NOTE:
1) DIMENSIONS TAKEN FROM UNI-BELL PVC PIPE ASSOCIATION HANDBOOK OF PVC PIPE, SECOND EDITION, OCTOBER 1983.
2) CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR PROPOSED PIPE MATERIAL TO ENGINEER TO VERIFY ACTUAL PIPE DIMENSIONS.



PIPE SIZE	L1	L2	R2	T1	T2	ROD DIA.	5% R1
6"	6"	6"	0.75"	0.375"	1.0"	0.375"	2.78"
8"	6"	6"	1.25"	0.375"	1.0"	0.375"	3.73"
10"	8"	8"	1.50"	0.375"	1.0"	0.375"	4.66"
12"	8"	8"	1.75"	0.375"	1.0"	0.375"	5.55"
15"	9"	9"	2.00"	0.375"	1.0"	0.375"	6.79"

TYPICAL MANDREL DETAIL

MATERIAL LIST:

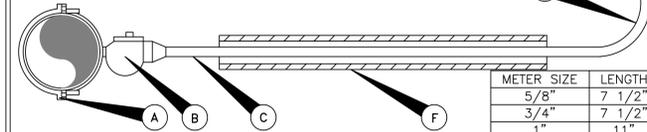
- SERVICE SADDLE REQUIRED. SERVICE SADDLE TO BE EPOXY COATED WITH DUAL STAINLESS STEEL BANDS. (SEE NOTE #2)
- 1" CORPORATION STOP - SERVICE PIPE OUTLET. (SEE NOTE #2)
- 1" SERVICE PIPE.
- LOCKING ANGLE METER STOP; SERVICE PIPE INLET X SWIVEL COUPLING NUT OUTLET:
• FOR 5/8" AND 3/4" METERS: 1" X 3/4"
• FOR 1" METERS: 1" X 1"
- SEE NOTE #2
- PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)
- PIPE CASING WHERE APPLICABLE. (AS PER DETAIL WT-01)
- WATER METER, CENTERED IN BOX. (SEE TABLE BELOW)
- WATER METER COUPLING; MALE I.P.T. X SWIVEL COUPLING NUT:
• FOR 5/8" AND 3/4" METERS: 3/4" X 8 1/2" LONG.
• FOR 1" METERS: LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR. EXTEND PIPE TO 4"-6" OUTSIDE OF METER BOX.
- BRONZE GATE VALVE: NON-RISING STEM (3/4" OR 1" METERS); FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY OF ROUND ROCK STANDARDS).
- 3/4" OR 1" PIPE MEETING CITY OF ROUND ROCK PLUMBING CODE REQUIREMENTS.

NOTES:

- SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 P.S.I. ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 P.S.I. BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
- ALL STAINLESS STEEL INSERTS THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON ANY CONNECTIONS.
- SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
- TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
- PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
- AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
- SLOTS PROVIDED IN METER BOX TO ACCOMMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
- LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

PART NUMBER	SERIES	COLOR	HEIGHT	WIDTH	LENGTH
DFW36C-12-BODY*	36C	BLACK	12"	TOP = 13-3/4"	TOP = 18-7/8"
DFW36C-AFTEGA-LID*	36C	BLACK	1-7/8"	LID = 10-3/16"	LID = 15-9/16"
DFW36C-12-AFTEGA*	36C	BLACK	12"	BASE = 10-1/2"	BASE = 18-7/8"

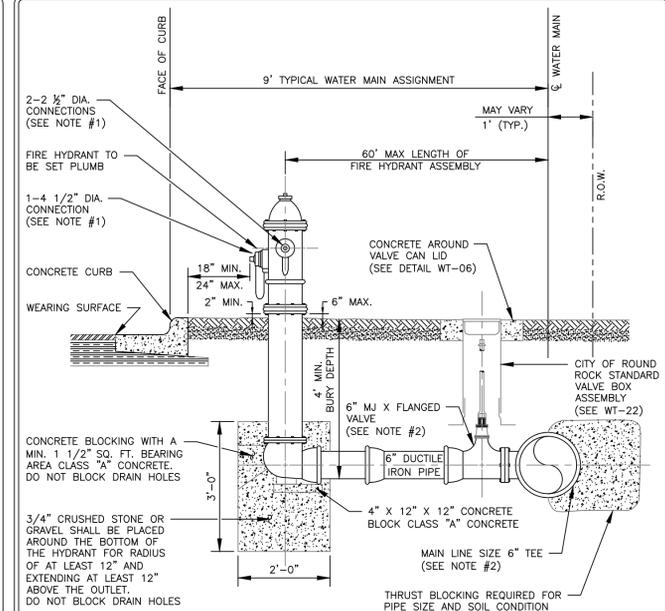
* MANUFACTURED BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.



RECORD SIGNED COPY ON FILE AT U&S DEPARTMENT APPROVED 03-01-18 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK DRAWING NO: WT-02

SINGLE 5/8", 3/4" OR 1" WATER METER DETAIL



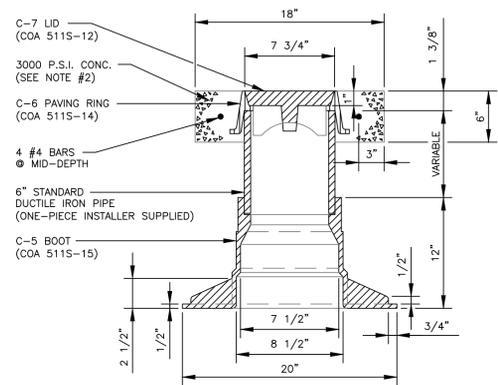
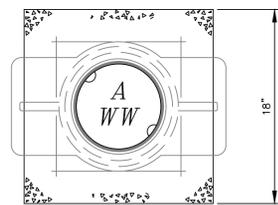
NOTES:

- THREADS ON OUTLET NOZZLES SHALL BE NATIONAL STANDARD THREAD.
- TEE MAY HAVE FLANGED OUTLET FOR MJ X FLANGED GATE VALVE OR, ANCHOR (SWIVEL) TEE MAY BE USED WITH MJ X MJ GATE VALVE.
- A BLUE REFLECTIVE DELINEATOR OF TYPE APPROVED BY THE ENGINEER SHALL BE PLACED 2 TO 3 FEET OFFSET FROM THE CENTERLINE OF PAVED STREETS OR PAVED ACCESS WAYS, ON THE SIDE OF AND IN LINE WITH ALL NEWLY INSTALLED FIRE HYDRANTS.
- PIPE, VALVE, TEE AND HYDRANT BARREL SHALL BE WRAPPED IN 8 MM POLY.
- FIRE HYDRANT LEADS SHALL NOT CONTAIN ANY HORIZONTAL OR VERTICAL BENDS EXCEPT FOR WHAT IS SHOWN IN THE DETAIL.
- FIRE HYDRANT LEAD AND ASSEMBLY SHALL BE RESTRAINED AND THRU BLOCKED.

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CITY OF ROUND ROCK DRAWING NO: WT-05

FIRE HYDRANT ASSEMBLY DETAIL



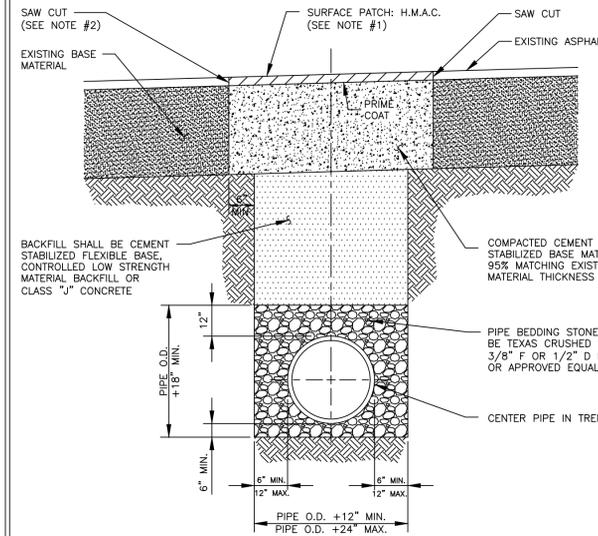
NOTES:

- NUMBERED CASTINGS STANDARDS SHOWN IN PARENTHESES ARE REFERENCES TO THE CITY OF AUSTIN STANDARDS CRITERIA MANUAL.
- DELETE CONCRETE AND REBAR WHEN VALVE IS WITHIN PAVED STREET.

RECORD SIGNED COPY ON FILE AT U&S DEPARTMENT APPROVED 03-01-18 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK DRAWING NO: WT-06

VALVE BOX ASSEMBLY DETAIL



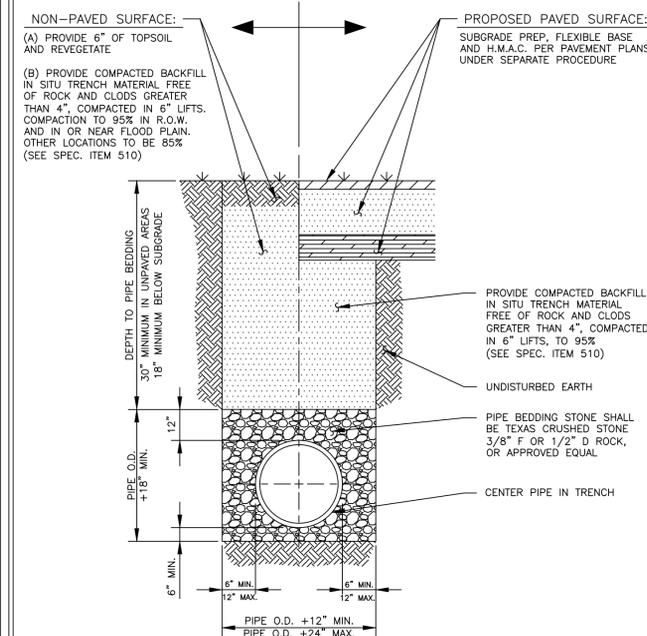
NOTES:

- H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NOT LESS THAN 2".
- THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WATERLINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND UNIFORM.
- INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
- THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
- ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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CITY OF ROUND ROCK DRAWING NO: WT-07

WATERLINE BEDDING AND SURFACE REPAIR DETAIL (EXISTING PAVED SURFACE)



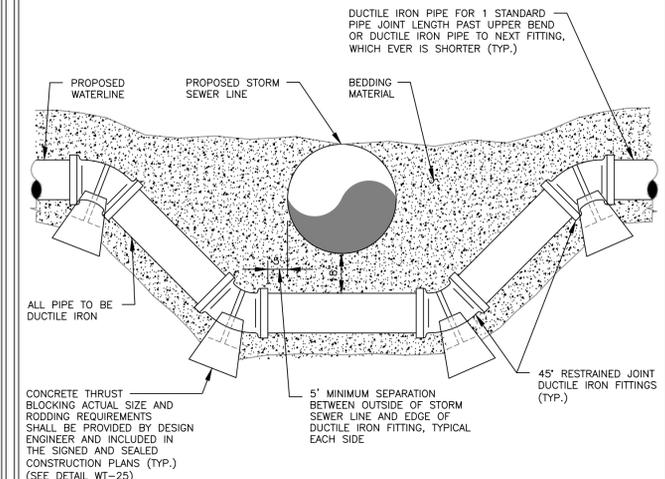
NOTE:

- ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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CITY OF ROUND ROCK DRAWING NO: WT-08

WATERLINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACE)



NOTES:

- THIS DETAIL IS TO BE USED FOR THE LOWERING OF PROPOSED WATERLINES ONLY.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8 MIL POLYETHYLENE (BLACK POLY) AND OPEN ENDS/SEAMS SEALED WITH DUCT TAPE.
- ALL FITTINGS SHALL HAVE RESTRAINED JOINTS AND BLOCKED WITH CONCRETE BLOCKING.
- CASING PIPE SHALL BE PROVIDED FOR ALL PROPOSED WATERLINES INSTALLED UNDER STORM SEWER LINES 36" DIAMETER AND LARGER.

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CITY OF ROUND ROCK DRAWING NO: WT-09

WATERLINE AND STORM SEWER LINE CROSSING DETAIL (TYPE 1)

BRAKE CHECK ROUND ROCK SITE PLAN

NO.	REVISIONS	DESCRIPTION	DATE

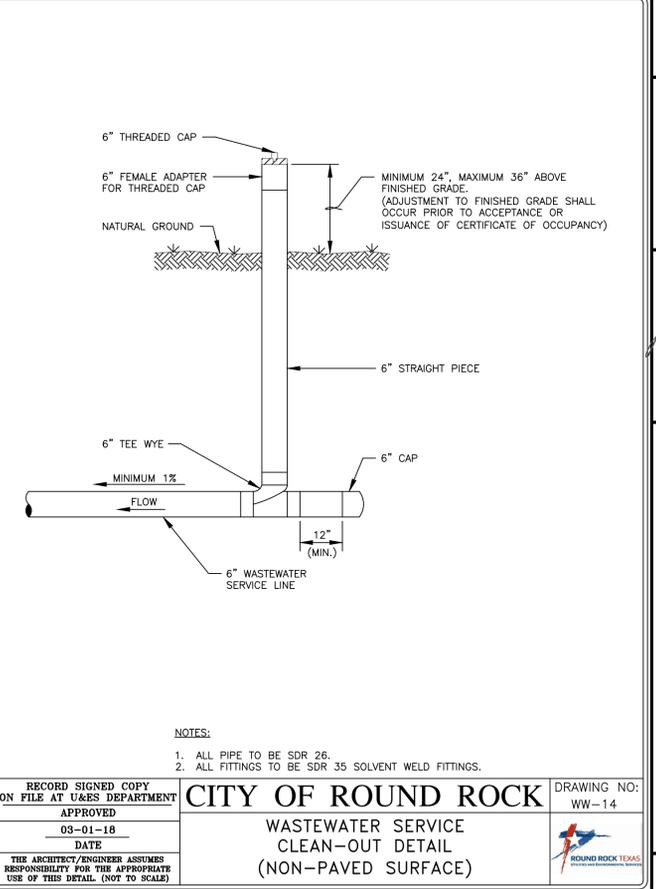
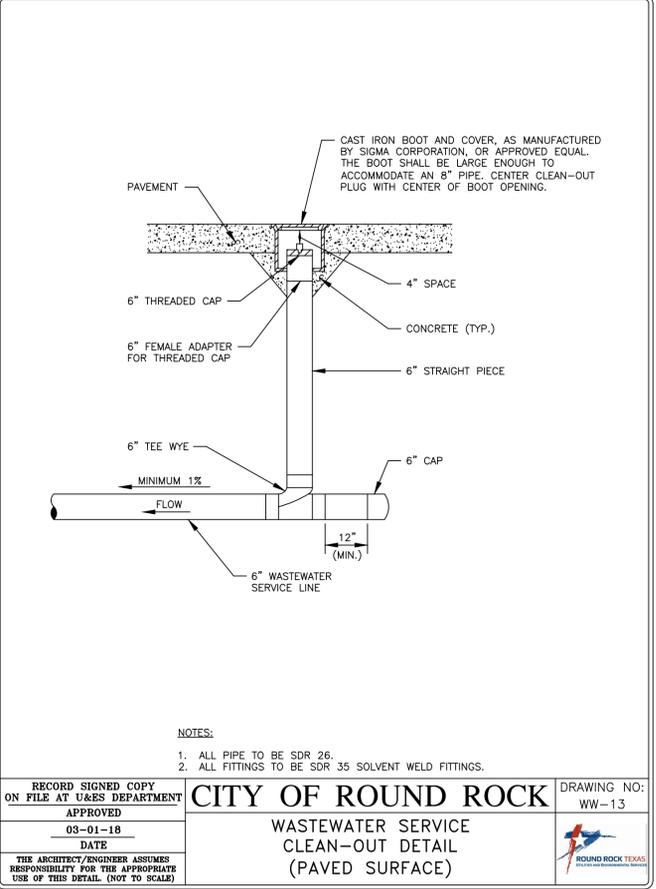
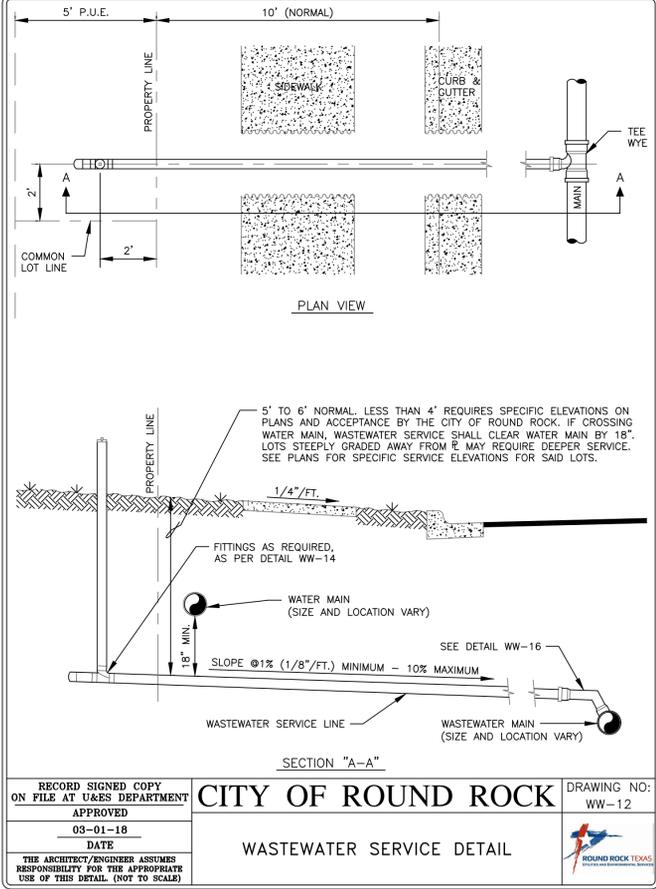
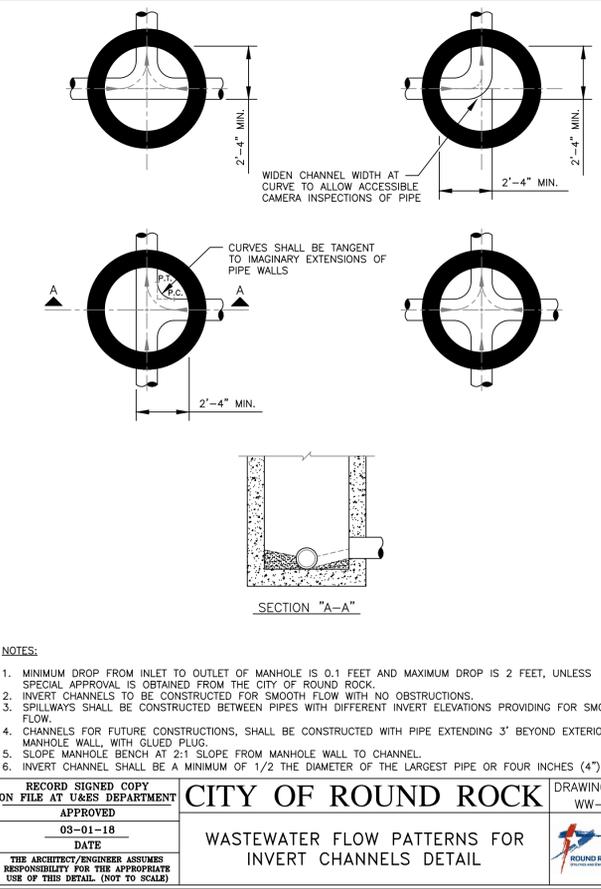
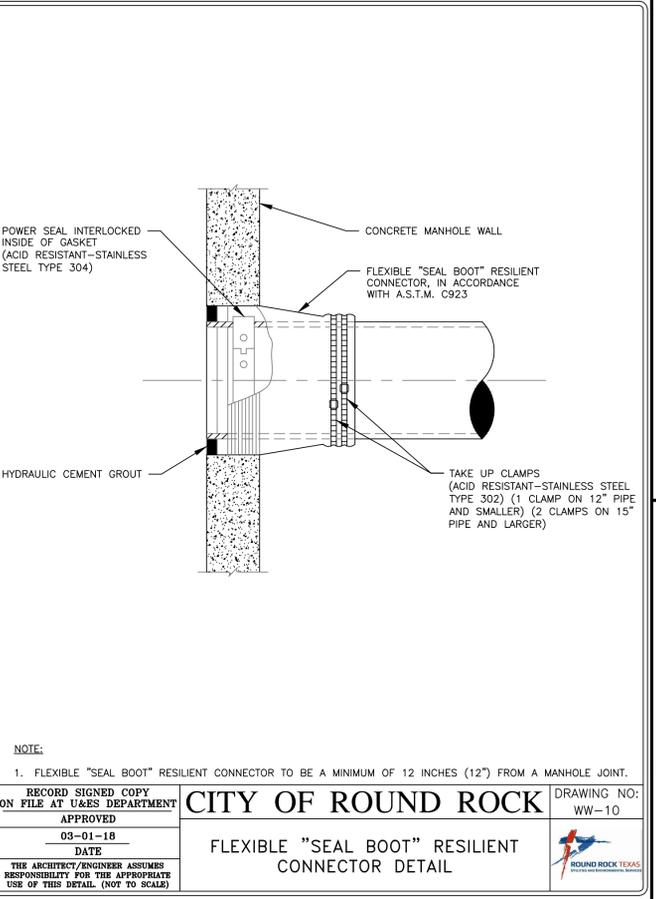
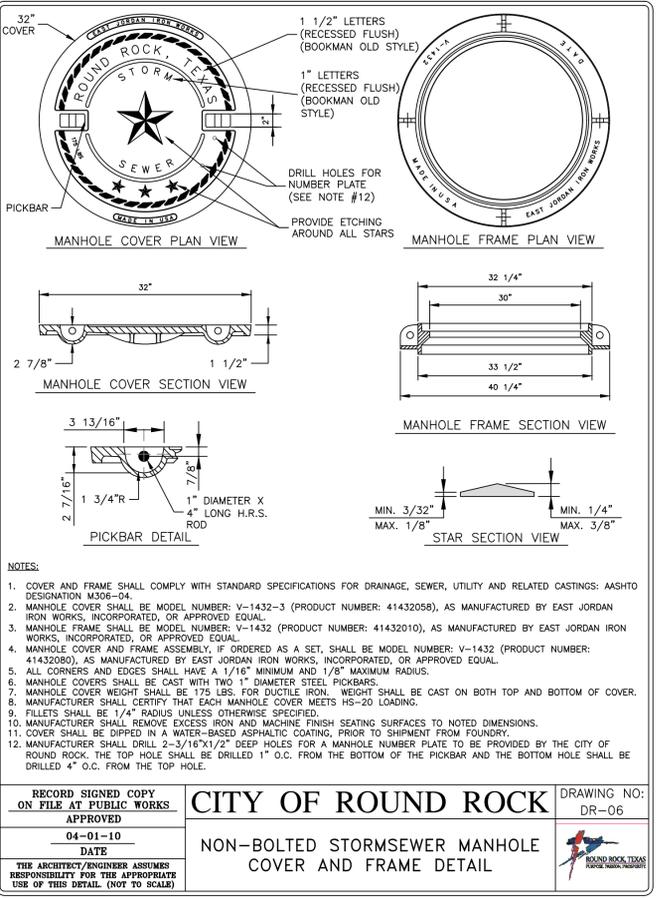
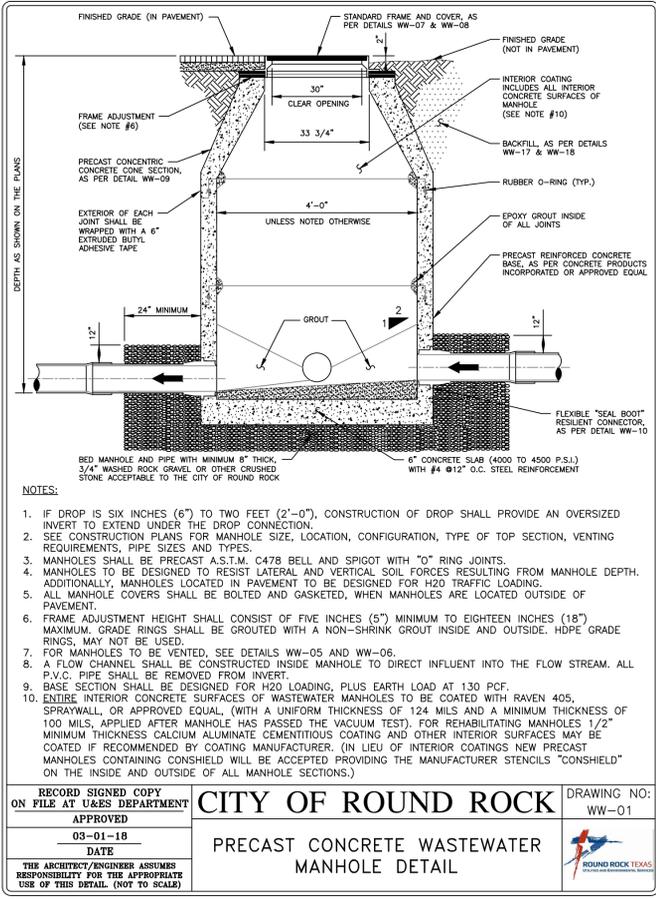
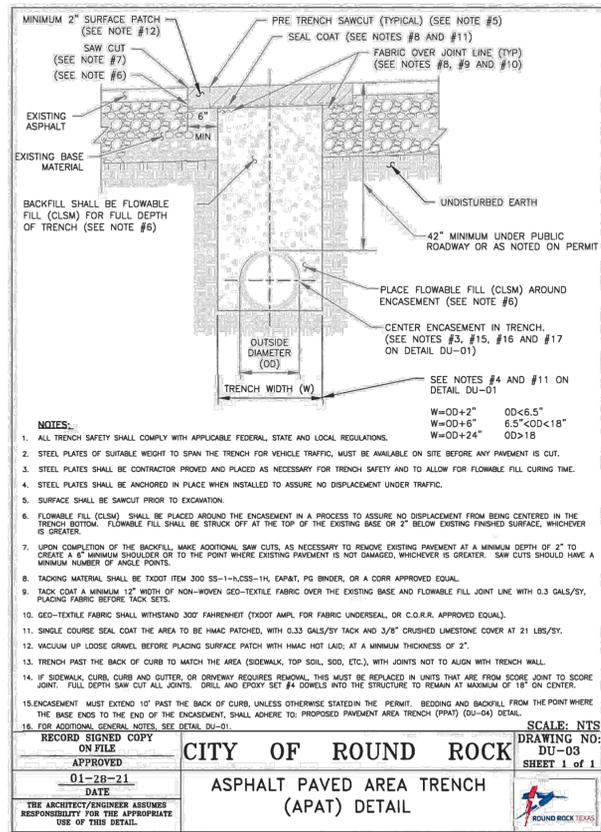
DESIGNED BY: JCM/RB
DRAWN BY: JCM
CHECKED BY: JCM
DRAWING NAME: A061101.DWG



LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

JOB NUMBER: A665-1001

DT 3
SHEET NO. 19
OF 25 SHEETS



BRAKE CHECK ROUND ROCK SITE PLAN

WASTEWATER DETAILS

NO.	REVISIONS	DESCRIPTION	DATE

DATE: 3/16/2023
DESIGNED BY: JCM/RB
DRAWN BY: JCM
CHECKED BY: JCM
DRAWING NAME: Add: 1011 DTS.dwg

Professional Engineer Seal: JUSTIN C. MADDING, LICENSED PROFESSIONAL ENGINEER, 122139, 3/16/2023

LJA Engineering, Inc.
 2700 La Frontera Blvd
 Suite 150
 Round Rock, TX 78681
 Phone 512.439.4700
 Fax 512.439.4716
 FRN - F-1386

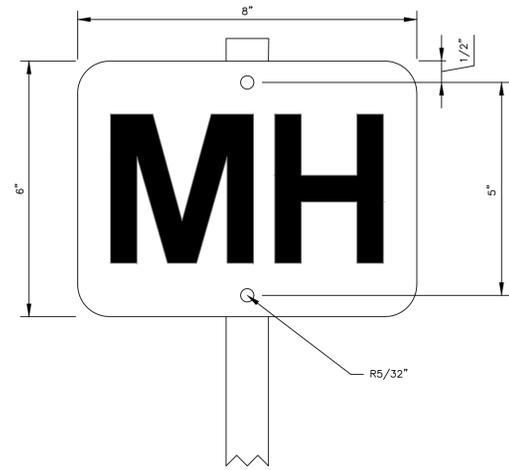
JOB NUMBER: A665-1001

DT 5

SHEET NO. 21

OF 25 SHEETS

SDP2302-0003



NOTES:

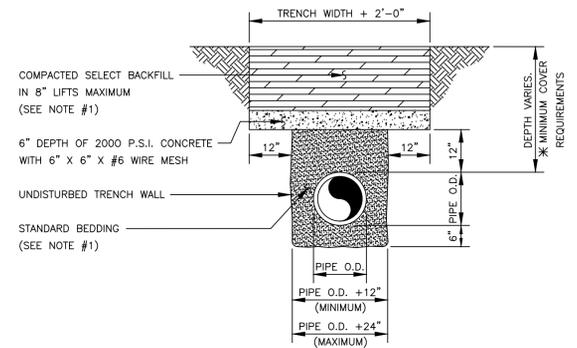
1. SIGN MATERIAL TO BE ALUMINUM.
2. SIGN TO BE ATTACHED TO 48" GALVANIZED STEEL ANGLE POST WITH DIMENSIONS 1" X 1" X 1/8".
3. COLORS:
BACKGROUND - ORANGE
LETTERING - BLACK
4. MANHOLE MARKING SIGNAGE TO BE INSTALLED IN AREAS DEEMED NECESSARY BY CITY STAFF.

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APPROVED
03-01-18
DATE
THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR THE APPROPRIATE
USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK

DRAWING NO:
WW-19

MANHOLE MARKER SIGNAGE DETAIL



NOTE:

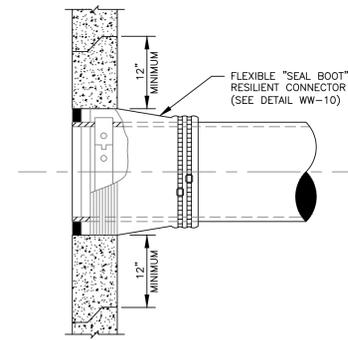
1. REFERENCE WATERLINE BEDDING AND SURFACE REPAIR DETAIL WT-08 & WASTEWATER LINE AND SURFACE REPAIR DETAIL WW-18 FOR PIPE BEDDING/BACKFILL REQUIREMENTS AND MINIMUM COVER REQUIREMENTS.
2. REQUIREMENTS FOR CONCRETE TRENCH CAPS IN WATERWAYS AND DRAINAGE AREAS NEED TO BE REVIEWED ON A CASE BY CASE BASIS AND APPROVED BY THE CITY ENGINEER AND INSPECTOR.

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ON FILE AT U&ES DEPARTMENT
APPROVED
03-01-18
DATE
THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR THE APPROPRIATE
USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK

DRAWING NO:
WW-20

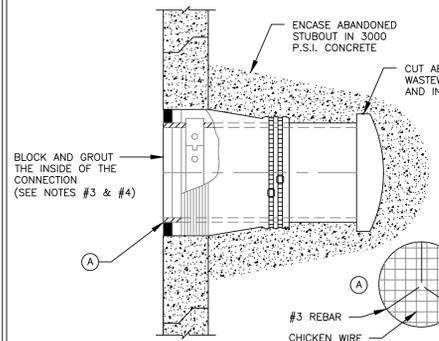
CONCRETE TRENCH CAP DETAIL



NOTES:

1. EXISTING MANHOLES TO BE VACUUM TESTED PRIOR TO ANY CONNECTIONS.
2. NEW CONNECTIONS TO HAVE MINIMUM VERTICAL AND HORIZONTAL SEPARATION OF 12" ON THE OUTSIDE FACE OF THE MANHOLE FROM ANY EXISTING PENETRATIONS AND/OR MANHOLE JOINTS.
3. CONNECTIONS MADE INTO EXISTING MANHOLES ARE TO BE CORED AND NOT DRILLED/CHISELED.
4. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM THE NEW WASTEWATER CONNECTION.
5. EXISTING MANHOLES TO BE RECOATED AFTER ANY NEW WASTEWATER CONNECTION IS ADDED.

NEW CONNECTIONS TO EXISTING WASTEWATER MANHOLES



NOTES:

1. THIS DETAIL IS INTENDED FOR WASTEWATER MANHOLES THAT WILL REMAIN IN SERVICE. FOR WASTEWATER MANHOLES THAT ARE TO BE ABANDONED, REFERENCE DETAIL WW-15.
2. WASTEWATER MANHOLE TO BE RECOATED AFTER GROUT IS INSTALLED.
3. BLOCK THE INLET OF THE MANHOLE WITH CHICKEN WIRE AND 3-#3 REBAR. GROUT THE INSIDE OF THE MANHOLE FLUSH WITH THE MANHOLE WALL.
4. CONNECTIONS 24" AND LARGER REQUIRE BRICK BLOCKING TO BE INSTALLED PRIOR TO GROUTING.

ABANDONMENT OF CONNECTIONS TO EXISTING WASTEWATER MANHOLES

RECORD SIGNED COPY
ON FILE AT U&ES DEPARTMENT
APPROVED
03-01-18
DATE
THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR THE APPROPRIATE
USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK

DRAWING NO:
WW-21

EXISTING WASTEWATER MANHOLE
CONNECTION DETAIL



WASTEWATER DETAILS

NO.	DESCRIPTION	BY	DATE

DATE: 3/16/2023
DESIGNED BY: JCM/RB
DRAWN BY: RB
CHECKED BY: JCM
DRAWING NAME: A665-1001.DWG



3/16/2023

LJA Engineering, Inc.
2700 La Frontera Blvd
Suite 150
Round Rock, TX 78681
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

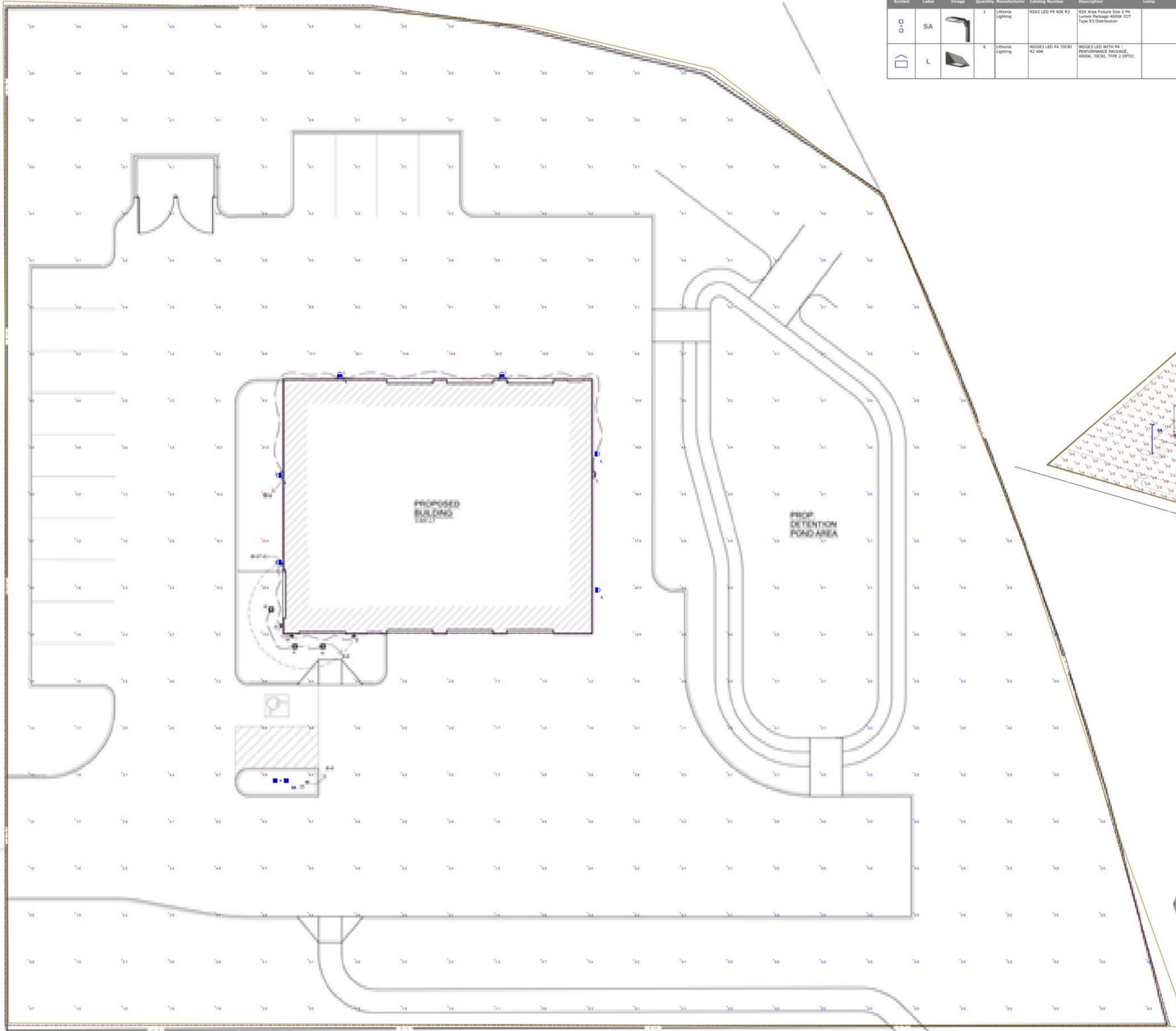
JOB NUMBER:
A665-1001

DT 6

SHEET NO.

22

OF 25 SHEETS



Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
Power Density Zone #1	6	618.54 W	4562.41 sq. ft.	0.13 W/sq. ft.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Date		2.22 fc	29.56 fc	0.0 fc	N/A	N/A

Schedule													
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Footcandle	Lumen Package	Light Loss Factor	Efficiency	Notes
SA	SA		1	Lithonia Lighting	RSK2 LED P4 40K A3	RSK Area Fixture Size 2 ft Luminaire Package 400K CCT Type B3 Distribution		1	25000	RSK2 LED P4 40K A3 40,000 lm	0.9	179.08	TYPE B3, SHORT, R40, RATING: B3-107-04
L	L		6	Lithonia Lighting	W002 LED P4 7000I R2 40K	W002 LED WITH PL PERFORMANCE PACKAGE, 4000K, T80L, TYPE 2 OPTIC		1	12369	W002 LED P4 7000I R2 40,000 lm	0.9	87.8914	TYPE B3, SHORT, R40, RATING: B3-107-01

RSP DESIGNS LLC
 12222 SCOTTSDALE DRIVE
 MEADOWS PLACE, TEXAS 77477
 832-419-7393
 RSP-DESIGNS-LLC@GMAIL.COM

CLIENT:
BRAKE CHECK
 N INTERSTATE 35 FRONT
 ROUND ROCK, TEXAS 78666



SITE PHOTOMETRIC PLAN
SCALE: 1" = 10'

DO THE BEST OF OUR
 KNOWLEDGE. THESE RESULTS ARE
 BASED ON THE ASSUMPTIONS AND
 CONDITIONS LISTED HEREIN. ALL
 MEASUREMENTS AND CALCULATIONS
 WERE MADE IN THE
 PRESENCE OF OUR
 AND OPERATIONS TO AVOID
 HAZARDOUS SITUATIONS. THESE
 RESULTS ARE FOR INFORMATIONAL
 PURPOSES ONLY. WE DO NOT
 WARRANT ANY RESULTS OR
 REPRESENTATIONS.

Scale: AS-4
 Date: 03 December 2022

Plan View
 Scale: 1" = 10'

Brake Check

Designer:
 LESCO Design
 Services
 Date:
 2023
 Scale:
 Not to Scale
 Drawing No.
 Summary

BRAKE CHECK ROUND ROCK
 SITE PLAN
 PHOTOMETRIC PLAN

NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/16/2023
 DESIGNED BY: JCM/RB
 DRAWN BY: RB
 CHECKED BY: JCM
 DRAWING NAME: AR65-1001_P11.dwg

FOR INFORMATIONAL PURPOSE

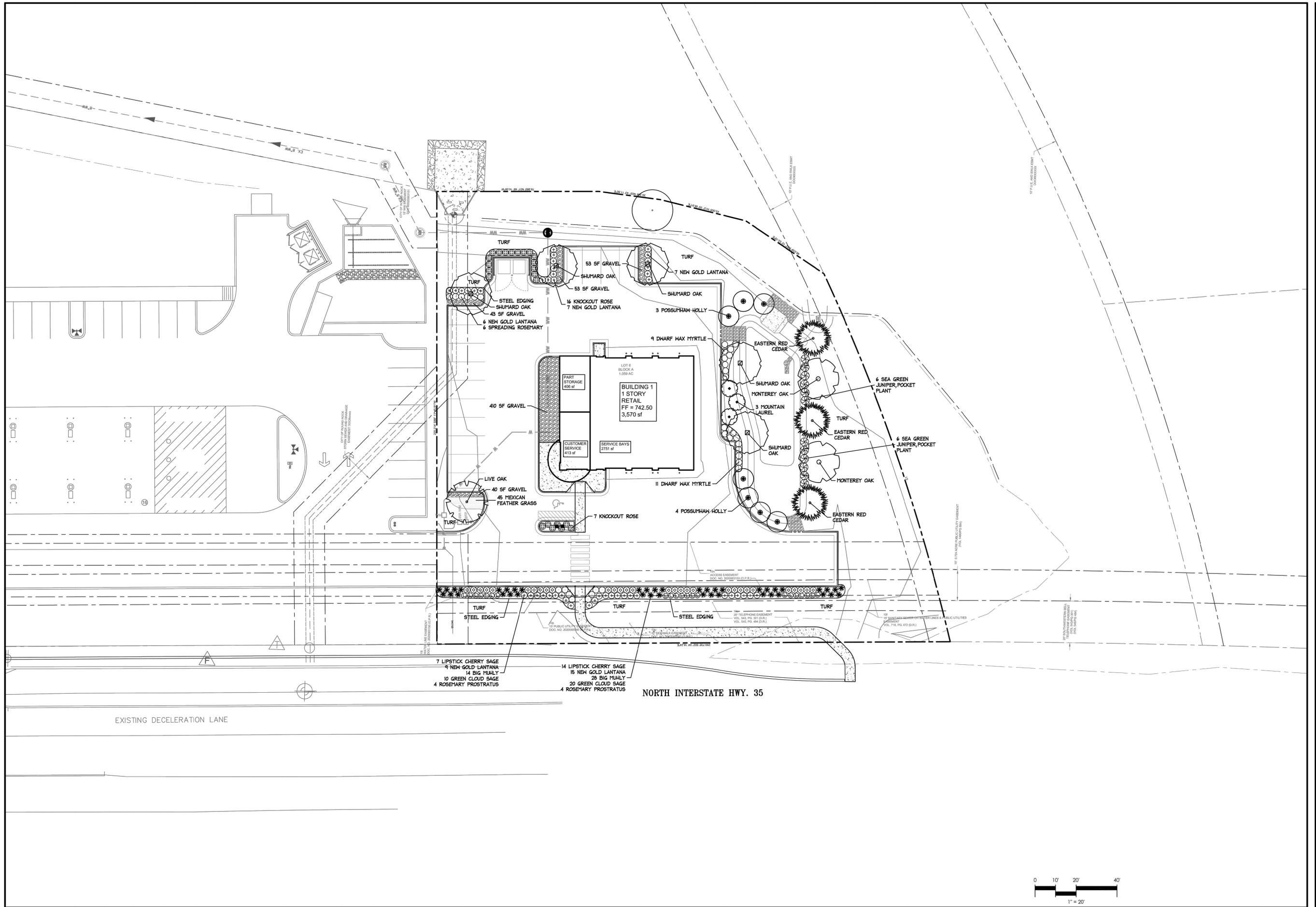
3/16/2023

LJA Engineering, Inc.
 2700 La Frontera Blvd
 Suite 150
 Round Rock, TX 78681
 Phone 512.439.4700
 Fax 512.439.4716
 FRN - F-1386

JOB NUMBER:
 A665-1001

PH 1

SHEET NO.
 23
 OF 25 SHEETS



NO.	DATE	REVISIONS



MELONÇON DESIGN GROUP, INC.
 LAND PLANNING & LANDSCAPE ARCHITECTURE
 1004 GREAT OAKS COVE ROUND ROCK, TEXAS 78681
 PHONE (512) 560-1185 FAX (512) 310-2386
 todd@meloncondesigngroup.com www.meloncondesigngroup.com

BRAKE CHECK
 Round Rock, Texas
 landscape plan

SCALE: 1"=20'

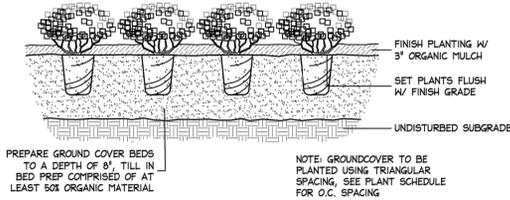
Drawn: JTM
 Checked: JTM
 Approved: JTM
 Date: March 13, 2023
 Project #: 369-2206

SHEET NO. **L1**
 OF **L2**

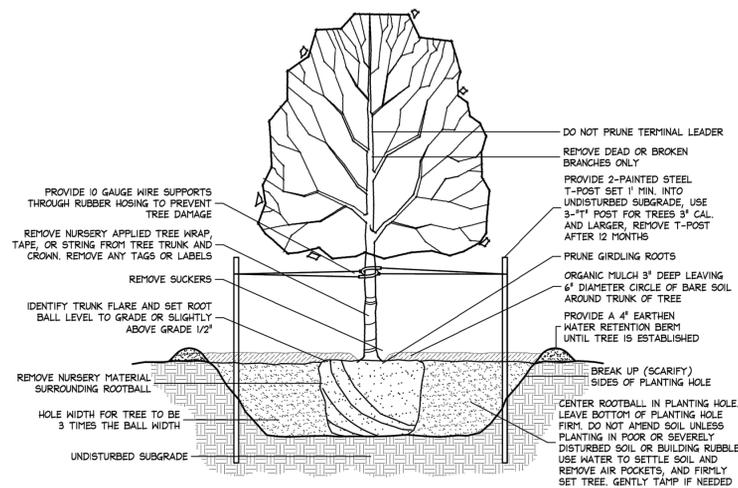


GENERAL LANDSCAPE NOTES

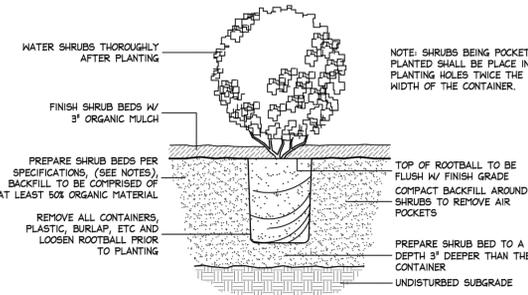
- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NEEDED FOR CONSTRUCTION OF PROPOSED LANDSCAPE MATERIAL.
- ANY CONFLICTS OF TREE LOCATION AND UTILITY LINES, UNDERGROUND OR OVERHEAD WILL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY AND ALL EXISTING EASEMENTS LOCATED WITHIN THE PROPOSED WORK AREA. ANY DISCREPANCIES FOUND ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS AS PUBLISHED BY THE CURRENT AMERICAN ASSOCIATION OF NURSERMEN.
- NO PLANTING SHALL TAKE PLACE BEFORE ROUGH GRADING HAS BEEN FINISHED AND BED LAYOUTS HAVE BEEN APPROVED BY THE LANDSCAPE ARCHITECT.
- THE OWNER RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DUE TO UNSATISFACTORY CONDITIONS OF THE PLANT MATERIAL. ALL PLANTS SHALL BE CONTAINER GROWN OR B & B. ALL CONTAINERS, PLASTIC AND BURLAP SHALL BE REMOVED PRIOR TO PLANTING.
- ALL PLANTING SHALL BE WATERED THOROUGHLY AT THE TIME OF PLANTING AND EVERY OTHER DAY FOR THE FIRST WEEK THEN ONCE PER WEEK WITH THE IRRIGATION SYSTEM PROVIDED.
- TREE PLANTING SHALL HAVE A BACKFILL MIX OF 1/3 PLANTING MIX AND 2/3 EXISTING SOIL AND BE PACKED TO REMOVE AIR POCKETS.
- TREES ARE TO BE PLANTED 6" MIN. FROM FREESTANDING WALLS, STREETS AND PARKING EXCEPT TREES PLANTED IN PARKING LOT ISLANDS. TREES 12' FROM BUILDINGS REQUIRE APPROVAL FROM THE DEVELOPMENT SERVICE OFFICE.
- ALL PLANTINGS SHALL HAVE A MINIMUM OF 3" HARDWOOD MULCH COVERING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING BERMUDAGRASS SOD OR HYDROMULCH ON ALL DISTURBED AREA INDICATED ON THE PLANS AFTER AN UNDERGROUND IRRIGATION SYSTEM HAS BEEN INSTALLED AND TESTED.
- PRIOR TO TURF INSTALLATION, ALL AREAS SHALL BE DRESS WITH A MINIMUM OF 3" IMPROVED SOIL.
- THE CONTRACTOR SHALL FINISH GRADE TOP SOIL TO A SMOOTH SURFACE AND REMOVE ALL CLOUDS PRIOR TO LAYING SOD OR HYDROMULCH.
- HYDROMULCH ALTERNATIVE TO SOD: TO THE TURF AREAS INDICATED ON THIS PLAN. IF HYDROMULCHING TAKES PLACE BETWEEN MARCH 2 AND SEPTEMBER 15 IT SHALL BE SEEDED WITH HULLED BERMUDAGRASS AT A RATE OF 2 LBS. PER 1000 SF. IF HYDROMULCHING TAKES PLACE BETWEEN SEPTEMBER 16 AND MARCH 1 IT SHALL BE SEEDED WITH WINTER RYE AT A RATE OF 3 LBS. PER 1000 SF. AND UNHULLED BERMUDAGRASS AT A RATE OF 2 LBS. PER 1000 SF.
- IRRIGATION FOR ALL PLANTED AREAS SHALL COMPLY WITH THE CITY OF ROUND ROCK DROUGHT CONTINGENCY POLICY (SECTION 44-221).
- THE CONTRACTOR SHALL PROVIDE A ONE YEAR GUARANTEE ON ALL LANDSCAPE MATERIAL FROM THE DATE OF COMPLETION.
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE SCHEDULE TO INCLUDE FERTILIZATION, PRUNING, MOWING, MULCHING ETC. UPON COMPLETION OF WORK.
- THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS CREATED DURING CONSTRUCTION I.E. BURLAP, CONTAINERS, ETC.
- PLANTING OF B&B TREES IS ALLOWED ONLY FROM OCTOBER 1 UNTIL MARCH 31 FROM APRIL 1 TILL SEPTEMBER 31. CONTAINER GROWN TREES MUST BE PLANTED AS SPECIFIED IN THE TREE TECHNICAL MANUAL, SECTION 3.5.2.
- ALL OUTDOOR MECHANICAL EQUIPMENT SUCH AS COMPRESSORS, UTILITY HUTS, OR OTHER BUILDING SERVICE EQUIPMENT IS REQUIRED TO BE COMPLETELY SCREENED FROM VIEW ON ALL SIDES USING 1 LARGE SHRUB EVERY 4 FEET. IF THE MECHANICAL EQUIPMENT IS TO BE LOCATED ON THE ROOF OF THE BUILDING, IT IS REQUIRED TO BE SCREENED FROM VIEW BY A PARAPET WALL. SEE ARCHITECTURAL AND MEP PLANS FOR LOCATIONS OF ROOFTOP MECHANICAL EQUIPMENT.
- THE OWNER WILL CONTINUOUSLY MAINTAIN THE REQUIRED LANDSCAPING IN ACCORDANCE WITH THE LANDSCAPE CODE OF ROUND ROCK.



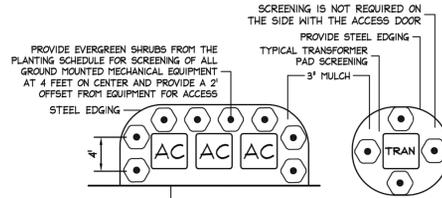
GROUNDCOVER PLANTING DETAIL
N.T.S.



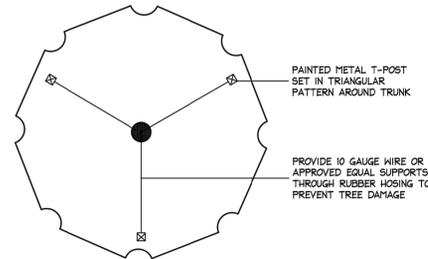
TREE PLANTING DETAIL
N.T.S.



SHRUB PLANTING DETAIL
N.T.S.



MECHANICAL EQUIPMENT PLANTING DETAIL
N.T.S.



3" CALIPER TREE STAKING DETAIL
N.T.S.

LANDSCAPE CALCULATION CHART

1 INTERIOR PARKING	# Island	Required	Provided
1 Tree per end island	4	4	4
2 PARKING LANDSCAPE PUBLIC STREET - NON-INDUSTRIAL ZONING	Required	Provided	
* measurement to occur along property line less driveways			
	LF	LF/#	
C. Shrubs:	195	4	
Total linear feet (LF)		49	
		125	
3 FOUNDATION TREATMENT PLANTING - NON-INDUSTRIAL ZONING	Required	Provided	
Foundation Treatment Points: (Determined by category)	000 LF	Factor	FTP
Category 2 - Building with one or two single parking bays in the streetyard	65	3	195
			35
Landscape Feature			
Large Shrub	Points	Provided	Points Credited
	5	7	35
Sum Total			35
4 SCREENING	Required	Provided	
A. Detention Pond Screening			
Structured Walls : 000 LF			
	LF	xLF	
medium tree (40' spacing)	244	6	
small tree (30' spacing)	244	8	
large shrub (8' spacing)	244	31	
B. Dumpster & Trash Receptacles (one or both)			
min. 6' masonry wall enclosure	40		
small shrubs	40	3	
C. Ground Mounted Equipment			
large shrub	TBD		
		SEE STANDARD DETAIL	
6 IRRIGATION	Required	Provided	
	YES	YES	

PLANT LIST				
CANOPY TREES				
QUANTITY	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE & CONDITION
1		Live Oak	Quercus virginiana	3" caliper, container grown, spacing as shown, (B&B may be planted only from Oct. 1 to March 31)
5		Shumard Red Oak	Quercus shumardii	3" caliper, container grown, spacing as shown, (B&B may be planted only from Oct. 1 to March 31)
2		Monterey Oak	Quercus polymorpha	3" caliper, container grown, spacing as shown, (B&B may be planted only from Oct. 1 to March 31)
3		Eastern Red Cedar	Juniperus virginiana	2" caliper, container grown, 16' o.c.
ORNAMENTAL TREES				
3		Mountain Laurel	Sophora secundiflora	15 gal., 5 trunk min., container grown, 8' o.c.
7		Possumhaw Holly	Ilex decidua	15 gal., container grown, female plant only, 10' o.c.
SHRUBS				
23		Knockout Rose	Rosa "Knockout"	5 gallon, container grown 3' o.c.
14		Spreading Rosemary	Rosemarinus officinalis "Prostratus"	5 gallon, container grown spreading variety, 3' o.c.
20		Dwarf Wax Myrtle	Myrica pauciflora	5 gallon, container grown 3' o.c.
30		Green Cloud Sage	Leucophyllum frutescens "Green Cloud"	5 gallon, container grown, 3' o.c.
21		Lipstick Cherry Sage	Salvia greggii "Lipstick"	5 gallon, container grown, 30" o.c.
44		New Gold Lantana	Lantana hybrid "New Gold"	5 gallon, container grown 3' o.c.
12		Sea Green Juniper	Juniperus chinensis	5 gallon, container grown 3' o.c.
VINES, FLOWERING PERENNIALS & GROUNDCOVERS				
45		Mexican Feather Grass	Nasella tenuissima	1 gal. 18" o.c., triangular spacing
GRASSES & YUCCAS				
42		Big Muhly	Muhlenbergia lindheimeri	5 gallon, container grown 3' o.c.
TURF GRASSES & MATERIALS				
All Disturbed Areas		Bermudagrass	Cynodon dactylon	Hydromulch 2 lbs. per 1000 s.f.
See Plan		1 1/2" Washed River Gravel		3" deep on filter fabric, provide steel edging when adjacent to plantings or turf
See Plan		4" Steel Edging, color by owner		Provide steel edging between turf and all shrub and ground cover plantings. Ensure steel edging is set flush to top of curbs and sidewalks.

NO.	DATE	REVISIONS



MELONCON DESIGN GROUP, INC.
LAND PLANNING & LANDSCAPE ARCHITECTURE
1004 GREAT OAKS COVE ROUND ROCK TEXAS 78681
PHONE (512) 560-1185 FAX (512) 310-2386
todd@meloncondesigngroup.com www.meloncondesigngroup.com

BRAKE CHECK
Round Rock, Texas
landscape calculations, notes, details
and planting schedule

Drawn: JTM
Checked: JTM
Approved: JTM
Date: March 13, 2023
Project #: 369-2206

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.

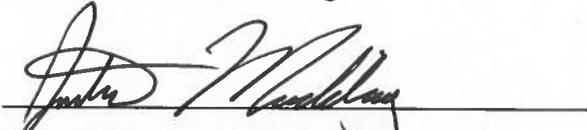
Signature

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: Justin Madding, P.E.

Date: 4-13-2023

Signature of Customer/Agent:



Regulated Entity Name: RR Brake Check

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: Chandler Branch

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 Stormwater Section
ATTACHMENT A

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Spill Response Actions:

- 1) Contain the spill.
- 2) Immediately stake off area.
- 3) Notify Hazardous Material team (if necessary); notify TCEQ:
(512) 339-2929 or Emergency # 1-800-832-8224
- 4) Take necessary steps to clean up, i.e. notify remediation contractor if large spill, or small spills will be cleaned by the construction contractor

All Site personnel will be made aware of the manufacturers' recommended methods for spill cleanup and the location of information and cleanup supplies.

Spills will be reported according to the Reportable Quantity, attached on the following page.

Materials and equipment necessary for spill cleanup will be kept onsite in an accessible location known to site personnel.

All spills will be cleaned up immediately upon discovery. Any spill of hydrocarbons or hazardous substances greater than 25 gallons will require notification to the Fire Department Hazardous Materials Team and the TCEQ. As with all spills, an effort shall be made to prevent materials from entering surface streams and storm drains by using rock or earth berms to contain the material.

1.4.16 Spill Prevention and Control

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

The following steps will help reduce the stormwater impacts of leaks and spills:

Education

- (1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.
- (2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- (3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- (4) Establish a continuing education program to indoctrinate new employees.
- (5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise clean up activities.
- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

- (1) Clean up leaks and spills immediately.

(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.

(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

(1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.

(2) Use absorbent materials on small spills rather than hosing down or burying the spill.

(3) Absorbent materials should be promptly removed and disposed of properly.

(4) Follow the practice below for a minor spill:

(5) Contain the spread of the spill.

(6) Recover spilled materials.

(7) Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities. Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman immediately.

(3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.

(4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

(3) Notification should first be made by telephone and followed up with a written report.

(4) The services of a spills contractor or a Haz-Mat team should be obtained immediately.

Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc. More information on spill rules and appropriate responses is available on the TCEQ website at:

http://www.tnrcc.state.tx.us/enforcement/emergency_response.html

Vehicle and Equipment Maintenance

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- (1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- (2) Discourage "topping off" of fuel tanks.
- (3) Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

Temporary Stormwater Section
ATTACHMENT B

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Potential Sources of Contamination:

Gasoline, Diesel, and Hydraulic Fluid from Construction Equipment,
Asphalt Products,
Construction Materials,
Trash and Debris,
Paint,
Concrete,
Gypsum from Sheet Rock
Sediment

All materials shall be hauled in a manner consistent with the manufacturer's recommendations.
Disposal of waste material shall be in conformance with All State and Local Laws.

Kind of spill	Where discharged	Reportable quantity
Hazardous substance	onto land	"Final RQ" in Table 302.4 in 40 CFR 302.4 (PDF)
	into water	"Final RQ" or 100 lbs, whichever is less
Any oil	coastal waters	as required by the Texas General Land Office
Crude oil, oil that is neither a petroleum product nor used oil	onto land	210 gallons (five barrels)
	directly into water	enough to create a sheen
Petroleum product, used oil	onto land, from an exempt PST facility	210 gallons (five barrels)
	onto land, or onto land from a non-exempt PST facility	25 gallons
	directly into water	enough to create a sheen
Associated with the exploration, development and production of oil, gas, or geothermal resources	under the jurisdiction of the Railroad Commission of Texas	as required by the Railroad Commission of Texas
Industrial solid waste or other substances	into water	100 lbs
From petroleum storage tanks, underground or aboveground	into water	enough to create a sheen on water
From petroleum storage tanks, underground or aboveground	onto land	25 gallons or equal to the RQ under 40 CFR 302
Other substances that may be useful or valuable and are not ordinarily considered to be waste, but will cause pollution if discharged into water in the state	into water	100 lbs

Temporary Stormwater Section
ATTACHMENT C

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

SEQUENCE of MAJOR ACTIVITIES:

- 1) Install temporary erosion control measures, stabilized construction entrance, and tree protection according to the plans and specifications prior to any clearing and grubbing, grading, excavating, etc. Notify Construction Inspection Division, when installed. Estimate of disturbed area = 0.95 acres.
- 2) Prior to beginning construction, the owner or his authorized representative shall convene a Pre-Construction Conference between the TCEQ, Williamson County, consulting engineer, contractor, and any other affected parties. Notify TCEQ at least 48 hours prior to the time of the conference and 48 hours prior to the beginning of construction. Provide 72-hour notification of EV Inspection (at 512-974-2278) to pre-construction conference.
- 3) Hold pre-construction conference with Contractor, TCEQ, EV Inspector, Engineer, and Owner.
- 4) Begin construction on Extended Batch Detention Pond. (2900 SF)
- 5) Rough grade site. Install all utilities to be located under proposed pavement. Estimate of disturbed area = 0.95 acres.
- 6) Complete final grading. Estimate of disturbed area = 0.95 acres.
- 7) Clean site and re-vegetate all disturbed areas according to the plans and specifications. Stabilization measures should include seeding and/or mulching. Estimate of disturbed area = 0.95 acres.
- 8) Complete permanent erosion control and restoration of site vegetation. Estimate of disturbed area = 0.95 acres.
- 9) Project Engineer to provide a written concurrence letter, and scheduling final inspection with EV Inspector, prior to the removal of erosion controls.
- 10) Remove and dispose of temporary erosion/sedimentation control measures.
- 11) Conduct a final inspection and complete all punch list items.

Clearing and grubbing under a development permit, solely for the purpose of surveying and soil exploration, shall be a hand cutting or blade-up operation

Temporary Stormwater Section
ATTACHMENT D

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Temporary Best Management Practices and Measures:

Prior to the commencement of any construction activity whatsoever, the contractor shall install the silt fencing, the stabilized construction entrance and inlet protections per the Erosion and Sedimentation Control Plan. The silt fencing and stabilized construction entrance shall be installed per TCEQ and local requirements. The proposed temporary BMP are intended to control increased TSS from construction activities in the following manner:

Additional notes regarding temporary BMP's:

A. Upgradient flows will merge with stormwater onsite and will be treated with the proposed onsite BMPs.

B. The temporary BMPs proposed during construction activities will prevent pollution of surface water by filtering the increased sediment loads and other pollutant sources listed in "Attachment 4B, Potential Sources of Contamination" by preventing stormwater with increased TSS from exiting the site without first being filtered. The primary method of treating sediment-laden stormwater runoff is through silt control fencing and a stabilized construction entrance. The silt control fencing will be placed per plan along the downslope edges of the project area to sequester runoff before passing offsite. The stabilized construction entrance will assist in removing debris and sediment caught up within construction vehicles tires exiting the site. As a final measure to mitigate stormwater contamination, inlet protection for proposed inlets is proposed as well as rock check dams along the proposed swale.

C. All entrance points to the onsite drainage swale have temporary BMP's in place to aid in treating the runoff from the site before it leaves the limits of construction. Additionally, an inlet protection control will be placed downstream of the project site as an added precaution. The control measures in place are sediment control fences, stabilized construction entrance and curb inlet protection. Stabilized construction exits will supplement the control of off-site tracking of material. The site after construction is complete will be stabilized by permanent landscaping vegetation throughout the project area.

D. The proposed project seeks to maintain the natural drainage patterns that currently exist as much as possible. Several Sensitive features have been identified by in the attached geologic

assessment and large, undisturbed buffers are being proposed around the features to prevent any grading or disturbance near these features. Construction fencing will be placed around the buffers before construction begins to delineate the buffers. By maintaining natural drainage divides, intermediate and final construction improvements will flow from west to east across the project site and outfall into the onsite drainage swale.

Temporary Stormwater Section
ATTACHMENT F

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Structural Practices:

No area greater than 10 acres will be disturbed at any one time. BMPs utilizing silt fences, diversion berms, and inlet protection devices will be used during construction to control sediment runoff.

Temporary Stormwater Section
ATTACHMENT G

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Drainage Area Map:

Construction plan which includes drainage area maps are included at the end of this report.

Temporary Stormwater Section
ATTACHMENT H

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Temporary Sediment Pond Plans and Calculations:

No area greater than 10 acres will be disturbed at any one time. BMPs utilizing silt fences, diversion berms, and inlet protection devices will be used during construction to control sediment runoff.

Temporary Stormwater Section
ATTACHMENT I

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Inspection and Maintenance for Best Management Practices:

Best Management Practices installed during construction will be maintained in accordance with the requirements of the EPA's NPDES/TPDES stormwater pollution prevention program. The following maintenance procedures shall be followed until permanent stabilization occurs.

Silt Fence

- a. Inspect weekly or after each rainfall event and repair or replacement shall be made promptly as needed.
- b. Silt fence shall be removed when the site is completely stabilized so as to not block or impede storm flow or drainage.
- c. Accumulated silt shall be removed when it reaches a depth of 6 inches. The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.

Rock Berm

- a. Inspect weekly or after each rain and the stone and/or fabric core-woven sheathing shall be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc. event and repair or replacement shall be made promptly as needed.
- b. When silt reaches a depth equal to one-third the height of the berm or 6", whichever is less, the silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.
- c. Accumulated silt shall be removed when it reaches a depth of 6 inches. The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.
- d. Severe service rock berms shall be inspected daily. Silt shall be removed when it reaches a depth of 6"
- e. Rock berms shall be removed when the site is completely stabilized so as to not block or impede storm flow or drainage.

Stabilized Construction Entrance

- a. The entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto public roadway. This may require periodic top dressing with additional

stone as conditions demand, as well as repair and clean out of any devices used to trap sediment.

- b. Entrance must be properly graded to incorporate a drain swale or a similar measure to prevent runoff from leaving the construction site.

Inlet Protection

- a. Inspection shall be made weekly or after each rainfall event and replacement or repair shall be made promptly as needed.
- b. Accumulated silt shall be removed when it reaches a depth of 6 inches. The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.
- c. The dyke shall be removed when the site is completely stabilized so as to not block or impede storm flow or drainage.

Concrete Washout

- a. Inspection shall be made daily or after each rainfall event to check to leaks, identify any plastic linings and sidewalls have been damaged by construction activities.
- b. When the washout container is filled over 75 percent of its capacity, the washwater should be vacuumed off or allowed to evaporate to avoid overflows. When the remaining cementitious solids have hardened, they should be removed and recycled.
- c. Damages to the container should be repaired promptly.
- d. Before heavy rains, the washout container's liquid level should be lowered, or the container should be covered to avoid an overflow during the rain storm.
- e.

The owner shall hire an E&S compliance company to inspect E&S measures and keep reports of onsite inspections with deficiencies and solutions.

Temporary Stormwater Section
ATTACHMENT J

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Schedule of Interim and Permanent Soil Stabilization Practices:

Soil Stabilization for all disturbed areas shall be accomplished by hydraulic planting. Following is an outline to accomplish the required stabilization.

1. **Preparing Seed Bed.** After the designated areas have been rough graded to the lines, grades and typical sections indicated in the Drawings or as provided for in other items of this contract and for any other soil area disturbed by the construction, a suitable seedbed shall be prepared. The seedbed shall consist of a minimum of either 4 inches (100 millimeters) of approved topsoil or 4 inches (100 millimeters) of approved salvaged topsoil, cultivated and rolled sufficiently to enhance the soil to a state of good health, when the soil particles on the surface are small enough and lie closely enough together to prevent the seed from being covered too deeply for optimum germination. The optimum depth for seeding shall be 1/4 inch (6 millimeters). Water shall be gently applied as required to prepare the seedbed prior to the planting operation either by broadcast seeding or hydraulic planting. Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days. Seeding shall be performed in accordance with the requirements hereinafter described.

2. **Watering.** All watering shall comply with Chisholm Trail Subdivision Rules and Regulations. Broadcast seeded areas shall immediately be watered with a minimum of 5 gallons of water per square yard (22.5 liters of water per square meter) or as needed and in the manner and quantity as directed by the Engineer or designated representative. Hydraulic seeded areas and native grass seeded areas shall be watered commencing after the tackifier has dried with a minimum of 5 gallons of water per square yard (22.5 liters of water per square meter) or as needed to keep the seedbed in a wet condition favorable for the growth of grass.

Watering applications shall constantly maintain the seedbed in a wet condition favorable for the growth of grass. Watering shall continue until the grass is uniformly 1 1/2 inches (40 mm) in height and accepted by the Engineer or designated representative. Watering can be postponed immediately after a 1/2 inch (12.5 mm) or greater rainfall on the site but shall be resumed before the soil dries out.

3. **Hydraulic Planting.** The seedbed shall be prepared as specified above and hydraulic planting equipment, which is capable of placing all materials in a single operation, shall be used.

March 1 to September 15

Hydraulic planting mixture and minimum rate of application pounds per 1000 square feet (kilograms per 100 square meters):

Planting Mixture			
Hulled Bermuda Seed (PLS=0.83)	Fiber Mulch		Soil Tackifier
	Cellulose	Wood	
1 Lbs/1000 ft2 (0.5 kgs/100 m2))	45.9 Lbs/1000 ft2 (22.5 kgs/100 m2))		1.4 Lbs/1000 ft2 (0.7 kgs/100 m2))
		57.4 Lbs/1000 ft2 (28.01 kgs/100 m2))	1.5 Lbs/1000 ft2 (0.75 kgs/100 m2))

September 15 to March 1

Add 1.5 pounds per 1000 square feet (0.75 kilograms per 100 square meters) of cool season cover crop (see Table 1) to above mixture. The fertilizer shall conform to City of Austin Standard Specification Item No. 606S, "Fertilizer".

Table 1: Cool Season Cover Crop			
Common Name	Botanical Name	Application rates	
		Lbs/1000 feet ²	kg/ 100 meter ²
Wheat	Triticum aestivum	0.5	0.25
Oats	Avena sativa	0.5	0.25
Cereal Rye Grain	Secale cereale	0.5	0.25
Total Cool Season Cover Crop Seeding Rate		1.5	0.75
Total Cool Season Seeding Rate (Grass, Wildflowers, & Cover Crop)		4.5	2.25

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.

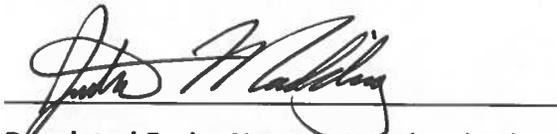
Signature

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: Justin Madding, P.E.

Date: 4-13-2023

Signature of Customer/Agent



Regulated Entity Name: RR Brake Check

Permanent Best Management Practices (BMPs)

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

- Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
 N/A
- 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
ATTACHMENT B

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Best Management Practices for Upgradient Stormwater:

There is a small portion of the ROW north of the property that flows into this site. This area is captured with this development and all calculation included this upgradient area.

Permanent Stormwater Section
ATTACHMENT C

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Best Management Practices for On-site Stormwater:

Since this project site is located within the Edwards Aquifer Recharge Zone, water quality has been provided by a proposed extended batch detention water quality pond. This development proposes a total impervious cover of 0.542 acres. The proposed BMP was designed to follow TCEQ's guidelines and will remove a minimum of 80% of the increased TSS from the proposed construction. Maintenance of the pond will be performed by the owner.

Permanent Stormwater Section
ATTACHMENT D

TCEQ WPAP & SCS APPLICATION

RR Brake Check
Williamson County, Texas

Best Management Practices for Surface Streams Stormwater:

No BMPs are proposed to specifically affect surface streams. The function of proposed onsite BMPs is to retain natural flow patterns and volumetric flowrates as in existing conditions. Therefore, the BMPs proposed for reducing pollutant loads in surface streams are described in the previous section; "Attachment 5C, BMPs for On-Site Stormwater." A discussion on how the detention and water quality ponds will manage stormwater runoff entering nearby surface streams is within "Attachment I – Measures for Minimizing Surface Stream Contamination."

Permanent Stormwater Section
ATTACHMENT F

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Construction Plans:

Construction plans for the erosion/sedimentation control measures proposed with this development are included at the end of this report.

Permanent Stormwater Section
ATTACHMENT G

TCEQ WPAP & APPLICATION

RR Brake Check
Williamson County, Texas

Inspection, Maintenance, Repair and Retrofit Plan

Temporary BMP's:

Best Management Practices (BMP's) installed during construction will be maintained in accordance with the requirements of the EPA's NPDES stormwater pollution prevention program. The construction superintendent will inspect temporary erosion controls on a regular basis and adjust the controls and/or remove any sediment buildup in accordance with the erosion/sedimentation control notes and as otherwise directed by the owner or his designated representative. Temporary erosion controls should be inspected, maintained, and repaired, at a minimum, every seven (7) days and within 24 hours of a storm of 0.5 inches or more rainfall depth. Sediment shall be removed from controls when 50% of the design height is exceeded. Following inspection of the BMP's, deficiencies shall be noted and corrected by the contractor.

Permanent BMP's:

Batch Detention

Inspections. Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

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

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

Erosion control. Correction of erosion control should take place whenever required based on the periodic inspections.

Nuisance Control. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

Structural Repairs and Replacement. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

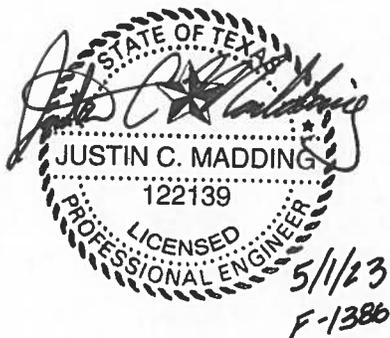
Sediment Removal. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

Logic Controller. The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Ultimately, these facilities will be owned, operated, and maintained by Peveto Companies, Ltd.

Acknowledged by:

Daniel Peveto
David Peveto
Peveto Companies, Ltd.



Permanent Stormwater Section
ATTACHMENT I

TCEQ WPAP APPLICATION

RR Brake Check
Williamson County, Texas

Measures for Minimizing Surface Stream Contamination:

The development minimizes surface stream contamination by maintaining the naturally occurring sheet flows across the lot. Drainage from this development will be directed to the proposed extended batch detention pond.

Since the proposed design of stormwater management features retains the existing drainage divides and flow conditions, there is no change to the path or volumetric rate at which stormwater will enter the Chandler Creek.

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

I _____ David Peveto _____
Print Name

_____ CEO _____
Title - Owner/President/Other

of _____ Peveto Companies, Ltd. _____
Corporation/Partnership/Entity Name

have authorized _____ Justin Madding, P.E. _____
Print Name of Agent/Engineer

of _____ LJA Engineering, 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:

David Peveto
Applicant's Signature

4/21/23
Date

THE STATE OF Texas §
County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared David Peveto 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 April, 2023

[Signature]
NOTARY PUBLIC
Janelle R. Plummer
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 11/21/25

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: RR Brake Check

Regulated Entity Location: N IH-35 Frontage RD

Name of Customer: Peveto Companies, Ltd.

Contact Person: David Peveto

Phone: 210-483-4130

Customer Reference Number (if issued): CN _____

Regulated Entity Reference Number (if issued): RN _____

Austin Regional Office (3373)

Hays

Travis

Williamson

San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

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

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

12100 Park 35 Circle

Mail Code 214

Building A, 3rd Floor

P.O. Box 13088

Austin, TX 78753

Austin, TX 78711-3088

(512)239-0357

Site Location (Check All That Apply):

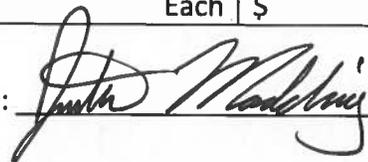
Recharge Zone

Contributing Zone

Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	1.060 Acres	\$ 4,000.00
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: _____



Date: 4-13-2023

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

<i>Project</i>	<i>Project Area in Acres</i>	<i>Fee</i>
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

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

Project	Fee
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		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input checked="" 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)			
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Peveto Companies, Ltd. (David Peveto)			
7. TX SOS/CPA Filing Number 12307010	8. TX State Tax ID (11 digits) 17508508102	9. Federal Tax ID (9 digits) 750850810	10. DUNS Number (if applicable) 010546497
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	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 type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input checked="" 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 type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" 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:	320 E Nakoma		
	City	State	TX
	San Antonio	ZIP	78216
		ZIP + 4	
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		amanda.anderson@brakecheck.com	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(210)483-4130		() -	

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	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Round Rock Brake Check	

23. Street Address of the Regulated Entity: (No PO Boxes)	3495 North I-35						
	City	RoundRock	State	TX	ZIP	78665	ZIP + 4
24. County	Williamson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	800' south of the Dutch Bros Coffee along the east side of the IH-35 north frontage road between E Old Settlers Blvd and University Oaks Blvd.							
26. Nearest City	Round Rock				State	TX	Nearest ZIP Code	78664
27. Latitude (N) In Decimal:	30.54937222			28. Longitude (W) In Decimal:	97.69107778			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	32	57.74	97	41	27.88			
29. Primary SIC Code (4 digits)	7539	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)	81111	32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Automotive Service Center								
34. Mailing Address:								
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								
36. Telephone Number		37. Extension or Code			38. Fax Number (if applicable)			
() -					() -			

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

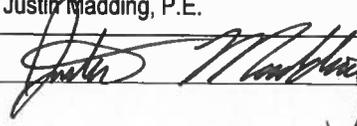
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source 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:	Justin Madding, P.E.	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 439-4700		() -	jmadding@lja.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:	LJA Engineer, Inc.	Job Title:	Project Manager
Name (In Print):	Justin Madding, P.E.	Phone:	(512) 439- 4700
Signature:		Date:	4/13/23